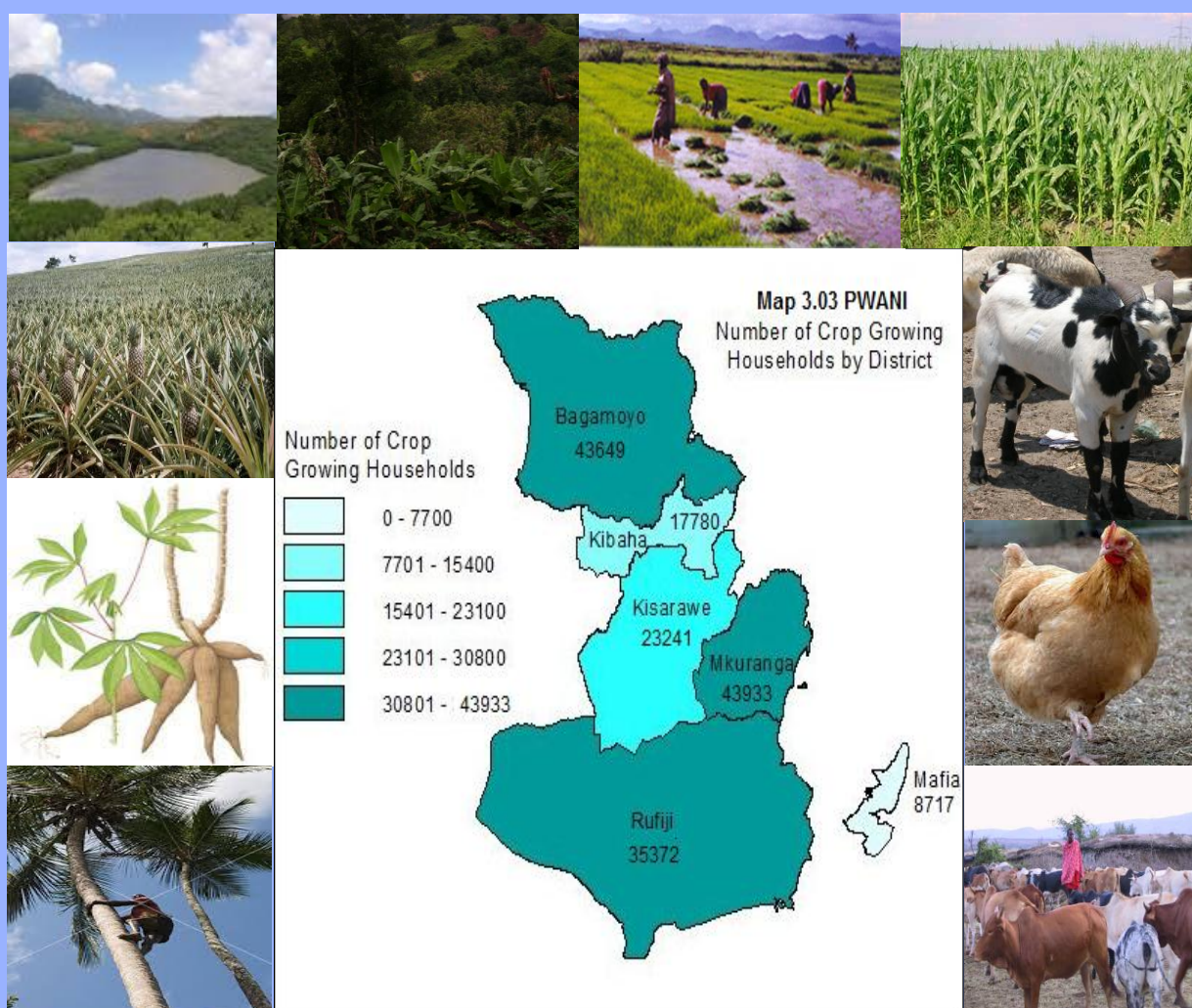




The United Republic of Tanzania

## NATIONAL SAMPLE CENSUS OF AGRICULTURE 2007/2008

### Volume Vf: REGIONAL REPORT: **PWANI REGION**



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

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**JULY, 2012**

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**ACRONYMS AND ABBREVIATIONS**

ASDP	Agricultural Sector Development Programme
CSPro	Census and Survey Processing Program
CSTWG	Censuses and Surveys Technical Working Group
DADIPS	District Agricultural Development and Investment Projects
DADO	District Agricultural Development Officer
DFID	Department for International Development
DIAS	District Integrated Agricultural Survey
DS	District Supervisor
EAS	Expanded Agricultural Survey
EAs	Enumeration Areas
EU	European Union
FE	Field Enumerator
GDP	Gross Domestic Product
GIS	Geographical Information System
ha	Hectares
hh	Household
IAS	Integrated Agricultural Survey
ICR	Intelligent Character Recognition
ID	Identity
IEC	Information, Education and Communication
JICA	Japanese International Cooperation Agency
LRS	Long Rainy Season,
MAFC	Ministry of Agriculture, Food Security and Cooperatives
MITM	Ministry of 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

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PSU	Primary Sampling Unit
RS	Regional Supervisor
RSM	Regional Statistical Manager
SPSS	Statistical Package for Social Science
SRS	Short Rainy Season
SWCM	Soil and Water Conservation Measures
WCM	Water Conservation Measures
TOT	Training of Trainers
UNDP	United Nations Development Programme
UNFAO	United Nations Food and Agriculture Organization

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**PREFACE**

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

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

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

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

My appreciation also goes to all those who in one-way or the other have contributed to the success of the census. In particular, I would also like to mention the enormous effort made by the Planning Group composed of professionals from the Agriculture Statistics Department of the National Bureau of Statistics, Ministry of Agriculture, Food Security and Cooperatives, Ministry of Livestock Development and Fisheries, Ministry of Water and Irrigation, Ministry of Agriculture,

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Livestock and Natural Resource, 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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## **1 BACKGROUND INFORMATION**

### **1.1 Introduction**

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

### **1.2 Geographical Location and Boundaries**

Pwani region was officially established July when the former Coast region whose headquarter was in Dar es salaam was divided to form two regions namely Dar es salaam and the present Pwani Region. Pwani region is situated on the Eastern part of Tanzania Mainland along the Indian Ocean coastal belt, located between  $6^{\circ}$ – $8^{\circ}$  South of Equator and between  $37^{\circ}$ – $40^{\circ}10'$  Eastern of Greenwich meridian line.

The region comprises of six districts. These are Bagamoyo, Kibaha, Kisarawe, Mkuranga, Rufiji, and Mafia. The region headquarters is located in Kibaha District.

### **1.3 Land Area**

The region has a total area of 33,539 km<sup>2</sup>, of which is equivalent to 3.8% of the Total area of Tanzania Mainland.

### **1.4 Climate**

#### **1.4.1 Temperature**

The region experiences a typical tropical climate with an average temperature of 28 Centigrade.

#### **1.4.2 Rainfall**

The region has two main rainy seasons - the short and the long rainy seasons. The short rainy season (Vuli) is from October to December and the long rainy season (Masika) is from March to June.

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## **1.5 Population**

According to the 2008 population projections based on Population and Housing Census, Pwani had a total of 1,014,968 inhabitants and it ranked 20<sup>th</sup> in population out of the 21 regions of Tanzania.

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**EXECUTIVE SUMMARY**

This report presents survey data results for Pwani region as a subset of the National Sample Census of Agriculture 2007/08. The report covers small-scale agriculture households in rural areas of Pwani region who were selected using statistical sampling techniques. The results in the report exclude large-scale farmers. The highlights are described under relevant subheadings on issues related 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 Pwani region was 174,523 of which 83.9% cited crop production as their major agricultural activity. Livestock only households were found in Bagamoyo, Kibaha and Kisarawe and together they represented just 1% of the total agricultural households in the region. Only Kibaha district had a few pastoralist households (45 households). The mixed crop and livestock households were equivalent to 15% of the total agricultural households in the region.

The male population was more prevalent in the older age brackets (60-79 years) while the female population was more prevalent in the young age bracket (20-44 years) and the oldest age bracket of 80-84 and older. This implies that females are more likely to be the major workforce for agricultural activities in the region

The literacy level of members of the agricultural households was above 70% in all districts. Literacy was highest in (78.4%) and lowest in Kisarawe (70.2%). The literacy rate of male heads of households (hh) was much higher in the range of 81-94%, compared to that of female hh which was as low as 6% in Mkuranga district and was highest 19% in Rufiji. When entire households were considered, the general status was that an average 34% were attending school, 41% had completed school and 24% had never attended school. The district with the highest proportion of the population never attended school was Mkuranga (28%) and the lowest in Rufiji (19%).

**ii) Crop Production****Land Area**

The total usable land available was 357,377 ha. The district with the largest usable land was Mkuranga (113,502 ha, 31.8% of total available usable land in the region) while Mafia district had

the smallest usable land area (11,487 ha, 3.2%). The usable land area per household was largest in Mkuranga (2.6 ha) and was in the range of 1.3 - 1.5 ha for all other districts. The percentage of land utilization was in the range of 70.6 to 87.8%

### **Land Use Types**

Crops, either temporary or permanent in monoculture or mixtures occupied the largest part of the usable land area (270,534 ha 75.3% of the usable land area in the region) with very limited land devoted to other land use types which included fallow, natural pastures, natural bush, planted with trees, land area rented to others and some was unusable.

### **Planted Area**

Crops were planted in two seasons: short rains (vuli) and long rains (masika) in all districts. In Kisarawe, Mkuranga and Rufiji districts, relatively larger land areas were planted during the short rains compared to the long rains. Annual crops were planted during the long rain season in all districts and Bagamoyo district had the largest planted area per household in either season being close to 1.4 ha/household during the long rain season or slightly below one hectare during the short rain season

### **iii) Crop Types**

The estimated area planted with main annual crops was 141,279 ha and cereals were the main type of crops grown in the region occupying 112,329 ha (79.5% of the planted area under annual crops) followed by pulses on 14,262 ha (10%) and oil seeds and oil nuts (9,088 ha, 7%). Root and tuber crops and fruits and vegetables constituted about 2% of the planted area.

### **Cereal production**

The total area planted with cereals in the region was 112,421 ha (78.8% of the total planted area). The major cereals planted in the region were maize and paddy with sorghum planted on a smaller area. Bulrush millet and wheat were negligible. The planted area for cereals was largest for maize (79,294 ha, 70.5%), followed by paddy (28,583 ha, 25.4%) and sorghum (4,452 ha, 4%).

### **Maize**

Maize was planted in all districts on a total of 79,294 ha (70.5% of total area planted with cereal crops) by 119,107 households (39.8% of total households that planted cereals in the region). Bagamoyo district was leading in the area planted (43,404 ha; 54.7% of the total area planted with

maize) and the number of households that planted the crop (43,095, 36.2% of households growing maize). In Mafia the area planted with maize was negligible (224 ha). Maize yield was highest in Kisarawe (1.4 t/ha/ha) and lowest in Mkuranga (0.7 t/ha).

### **Paddy**

Paddy was planted all districts of the region on a total of 28,583 ha (25.4% of the total ha planted with cereals) by a total of 52,203 households (35.6% of the total 146,465 crops-only households in the region). Rufiji was the leading district for paddy production with the largest planted area (10,532, 36.8% of the total area planted with paddy in the region), while Mafia had the smallest area planted with this crop (1,874 ha, 6.6%). The average planted area per household was generally smaller than one hectare in all districts.

### **Other Cereals**

Other cereals were planted in all districts on a total of 4,544 ha (4% of total area planted with cereals), and sorghum alone occupied 4,452 ha equivalent to 98% of the area planted.

### **Root and Tuber Crop production**

Roots and tuber crops were planted during both short and long rainy seasons by 92,390 households in the region (Table 3.3). Large variations existed where by cassava was planted on the largest area (56,948 ha, 96% of total area planted with roots and tuber); by the largest number of households (85,834, 93% of all households that planted roots and tubers) and accounted for the largest proportion of the total harvested crops (136,087 tons, 97% of total harvested roots and tuber)

### **Sweet Potato**

Sweet potatoes were planted on 2,086 ha and most of it was in Mkuranga (1,154 ha, 55.3% of total area planted with sweet potatoes in the region) and some in Bagamoyo (292 ha, 14%) and mafia (239 ha, 11.5%). Generally, sweet potatoes were allocated small proportions of land for planting which was the smallest (0.11) in Rufiji and largest in Mafia district (2.38). Bagamoyo district had the largest number of growing households (3,471, 55.2% of growing households).



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**Cassava**

The total area planted with cassava in the region was 56,948 ha, and a total of 85,834 growing households planted the crop. The three most important districts for cassava production were Mkuranga (21,783 ha, 38.3% of the total area planted with cassava in the region), Kisarawe (11,430 ha, 20.1%) and Rufiji (10,637 ha, 18.7%)

**Pulse crops**

The main pulse in the region was cowpeas which was planted on 12,616 ha (87.4% of the total area planted with pulses) and was planted by the largest number of growing households (43,612, 88.9% of all households that planted pulses). Other pulses planted in the region were green grams (951 ha, 6.6%), and beans (695 ha, 4.8%).

**Cowpeas**

Cowpeas were planted on a total of 12,616 ha, in the region and the major production districts were Mkuranga (3,725 ha, 29.5% of the total area planted with cowpeas), Bagamoyo (3,629 ha, 28.8%) and Kisarawe (3,009, 23.9%). Kisarawe district had the largest proportion of land (9.3%) planted with cowpeas followed by Kibaha (6.7%) and Bagamoyo (4.7%). Cowpeas were least important in Mafia (0.2% of the total area planted with cowpeas in the region). Cowpea productivity in all districts was below half a ton per hectare ranging from the highest at 0.43 t/ha in Kibaha to the lowest at 0.24 t/ha in Mkuranga. Total harvested grains were 4,038.7 tons of which nearly one third was from Bagamoyo (1,265.4 tons, 31.3)

**Beans production**

Beans were planted on a total of 696 ha (4.8% of total area planted with pulses) by about 5.5% (2,694 households) of households that planted pulses. Beans were planted in all districts and Rufiji was leading in both the area planted (283 ha, 40.7%) and the proportion of land planted with the crop (0.61). Beans were also planted in Mkuranga (195 ha, 28%) and Kisarawe (166 ha, 23.9%).

**Oil Seeds and Oil Nuts' Production**

Oil seed and oil nut crops were planted on a total of 9,428 ha (equivalent to about 6.6% of the total planted area in the region) with 7,615 households involved (89.8% of the total 8,477 that planted oil seed crops). The largest part of the area planted with oil seed crops was planted with sim sim

comprising of 9,088 ha equivalent to 96.4% of the total area planted with this category of crops. Other oil seed crops were minor comprising of groundnut and sunflower.

### **Simsim Production**

The total area planted with simsim was 6,089 ha, equivalent to 4.3% of the total planted area or 64.6% of the 9,428 ha that were planted with oil seed and oil nut crops in the region. Simsim was planted in all districts except Mafia. Simsim was planted by the largest number of households in Bagamoyo district (8,309, 53.7%) whereas the number of growing households was lowest in Kibaha (451, 2.9%).

### **Fruits and Vegetables**

About 16,598 households planted one or more fruit and vegetable crop in the region. This was equivalent to 11.3% of the crops-only households). The three most dominant vegetable crops which covered about 71% of the area planted with fruits and vegetables, in order of decreasing acreage, were okra (874 ha, 27.5% of total area planted with fruits and vegetables in the region), tomatoes (726 ha, 22.8%) and water melon (648 ha, 20.4%). About two thirds (66.5%) of the total 15,399 tons harvested produce was from tomatoes (6,402 tons, 41.6%) and water melon (3,840 tons, 24.9%). Land areas planted with fruits and vegetables were generally small, the largest about 0.3 ha/household in Mafia and smallest about 0.18 ha/household in Mkuranga district.

### **Tomato**

The total area planted with tomato was 727 ha of which the major part (316 ha, 43.5% of total area planted with tomato) was in Kibaha, followed by Rufiji (150 ha, 20.6%) and Bagamoyo (123 ha, 16.9%). Mkuranga, Kisarawe and Mafia districts had very small areas planted with the crop (less than 100 ha in each district). However, in terms of land allocation, Kibaha was the only district. About 2,692 households planted tomatoes in the region mostly in Kibaha (1,083 households, 40.5%), Rufiji (524 households, 19.5%) and Mkuranga (434 households, 16.1%). A total of 6,401.4 tons were harvested contributed mainly by Kibaha district (2,331.9 tons, 36.4%) and Rufiji (2,304.4 tons, 36%). The two most productive districts were Kisarawe (17.8 t/ha) and Rufiji (15.3 t/ha).

### **Okra**

A total of 874 ha were planted with okra of which the largest planted area was in Kibaha district (476 ha, 54.5% of the total area planted with okra) and other districts were Mkuranga (173 ha, 19.8%) and Kisarawe (160 ha, 18.3%). Kibaha district also allocated the greatest proportion of the

planted area to okra (2.3%) compared to 0.5% or less in other districts. The highest yields were recorded in mafia (2.5 t/ha).

### **Water melon**

A total of 647 ha were planted with water melon in the region and Mkuranga was the major growing district with 637 ha planted, equivalent to 98.5% of the total area planted with the crop. Mkuranga district also had the largest number of growing households (976 households equivalent to 85.8% of the growing households) in the district. Water melons were not planted in Rufiji and Mafia districts. Mkuranga district had the largest planted area per household (0.65 ha) with much smaller areas planted in Kibaha (0.10 ha) and Kisarawe (0.05 ha). Yields were highest in Kibaha (20 t/ha) and lowest in Mkuranga district (5.8 t/ha). However, due to the large planted area, Mkuranga district accounted for 96.6% (3,708.8 tons) of the total 3,840.6 tons that were harvested in the region.

### **Production of Other Annual Crops**

Other annual crops were planted on a total of 332 ha mostly cotton (314 ha, 95% of the area planted with other annual crops) and jute (18 ha, 5%).

### **iv Perennial or Permanent Crops**

About two thirds of the total planted area was planted with annual crops (246,159 ha, 68%) and the remainder 116,312 ha, (32%) were planted with perennial or permanent crops. A wide range of perennial crops were planted including cashewnut (109,112 ha, 60.6 % of the area planted with permanent crops), coconut (43,215 ha, 24%), oranges (11,123 ha, 6.2%), mango (7,819 ha, 4.3%) and banana (4,479 ha, 2.5%). The area planted with pigeon peas, palm oil or sugarcane were negligible.

### **Cashewnut**

The total area planted with cashewnut in the region was 109,112 ha (83.4% of the total planted area in the region. Mkuranga was the single most important district for cashewnut production in the region with 73.3% of the planted area (79,988 ha) followed by Rufiji (14,378, 13.2%). The remaining 13.5% of the planted area (14,746 ha) was shared between Bagamoyo, Kibaha, Kisarawe and Mafia districts.

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**Coconut**

The area planted with coconut in the region was 43,215 ha equivalent to 30.3% of the total planted area in the region). Coconut was planted in all districts but predominantly in Mkuranga (19,362 ha, 44.8% of the total area planted with coconut in the region) but also in Rufiji (11,579ha, 26.8%), Mafia (6,389 ha, 14.8%) and Bagamoyo (2,532 ha, 5.9%). About 26.4% (38,707 households) of the crops-only households planted coconuts of which 17,248 households (44.6%) were in Mkuranga district. Rufiji district had the planted area per household (3.2 ha) followed by Mkuranga and Mafia (1.1 ha) with much smaller areas, in the range of 0.4 to 0.6 ha/household, in the remaining districts.

**Oranges**

Oranges were planted in all districts on a total of 11,123 ha (7.8% of the total planted area in the region). The largest planted area was in Mkuranga (3,906 ha, 35.1% of the total area planted with oranges in the region) and in other districts: Kisarawe (2,591 ha, 23.3%), Rufiji and Bagamoyo each had 15.3% with a much smaller area planted with oranges in Mafia district. Orange yields were highest in Kibaha district (6.5 t/ha) followed by Kisarawe (6.1 t/ha) and Rufiji (4.4 t/ha). The largest planted area per household was 0.5 ha in Rufiji district and the smallest was 0.3 ha in Mafia.

**Mango**

Mango was planted on a total of 7,819 ha (5.5% of the total planted area) predominantly in Mkuranga district (4,593 ha, 58.7% of the total areas planted with mango in the region) and also in Bagamoyo district (1,456 ha, 18.6%). Mango growing households were found predominantly in Mkuranga (8,895, 46.2%) but also in Bagamoyo (4,210, 21.9%), Kisarawe (2,422, 12.6%) and Kibaha (2,166, 11.2%). Mangoes were a minor crop in Rufiji and Mafia districts. Planted area per household was small, the lowest being 0.3 ha in Kibaha, Kisarawe and Mafia and the highest in Mkuranga at 0.5 ha.

**v Use of Inputs****Use of Un-mechanized Agricultural Equipment**

About 96-99.3% of all households in the region depend on the hand hoe for various farm operations while 93-98.8% also used the sword for various farm operations. Amongst other un-mechanized equipment, the hand sprayer was used in all districts but its use was limited to less than 5,000 households in any one district. The use of all other equipment was at very minimal levels in all districts

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**Use of Animal-drawn and Mechanized Agricultural Equipment**

Both the animal-drawn and mechanized equipment were used by relatively few agricultural households. The ox-cart was used the most in Rufiji district (262 households, 0.7% of total agricultural households in the district) while the use of tractor plough was highest in Bagamoyo and Kibaha districts

**Use of Agricultural Animals and Power Tillers**

The cow was the most widely used agricultural animal in the region which was used in all districts except Kisarawe. The cow was used most extensively in Mafia (9%, 785 households) followed by Kibaha district (903 households, 4.9%). The ox-ridger was used mostly in Rufiji and to a lesser extent in Kibaha. Donkeys were used mostly in Mafia (262 households, 3%) and the use of power tiller was recorded only in Kibaha district (181 households, 1% of agricultural households in the district). The use of any of the agricultural animals or the power tiller was not reported in Kisarawe district.

**Use of Improved seed**

The use of improved seed for planting in both seasons (Vuli and Masika) was limited to an average 13% of the total planted area (18,350 ha). Kibaha district had the largest proportion of land planted with improved seed in both seasons (24.9% during Masika and 42.1% during Vuli) followed by Mkuranga, Kisarawe and Bagamoyo districts, in that order. The use of improved seed in Rufiji and Mafia districts was the lowest in the district in both seasons.

**Use of Fertilizer**

Fertilizers, both organic and inorganic were applied onto to a total of 4,482 ha (3.1% of the total planted area in the region) implying that the bulk of the planted area did not receive any type of fertilizers. However, of the two types of fertilizers, organic fertilizers were applied on a slightly larger planted area (2,629 ha, 59%) compared to inorganic fertilizers (1,853 ha, 41%) However, there was a general preference for organic over inorganic fertilizers in all districts.

**Use of Pesticides**

Pesticides (insecticides, fungicides and herbicides) were applied on a total 6,511 ha, equivalent to 4.6% of the total planted area in the region. Insecticides were the most dominant pesticide used (69% of total area applied with pesticides) followed by fungicides (1,351 ha, 21%) and herbicides (666 ha, 10%).

## **vi Irrigation**

A total of 3,113 ha (2.2% of the total planted area in the region) was planted using irrigation. Most of the irrigated lands were in Rufiji district (1,137 ha, 36.5% of the irrigated land in the region) and Mkuranga district (972 ha, 31.2%). In other districts, irrigated planted areas were 11.4% in Bagamoyo, 10.8% in Kisarawe and 9.4% in Kibaha. Irrigation farming was negligible in Mafia (< 1%).

### **Sources of Water for Irrigation**

The river was the main source of water for irrigation used by 63% of the households applying irrigation. Other relatively important sources were canal (21%), well (7%) and dam (3%). Bore holes and tap water were hardly used.

### **Method of Obtaining Irrigation Water**

The majority applied water using the hand bucket (63.61%) and other methods used were by gravity flow (33%) and motor pump (2.3%). The hand pump, on the other hand, was used the least (1.0% of the households applying irrigation).

### **Access to Crop Extension Services**

An average 60% of the crops-only households received crop extension services but there were large variations between districts. Extension services were provided most extensively in Bagamoyo district (99% of households received extension services), down to 56.3% in Kisarawe district and was at the lowest level in mafia (25%).

## **vii Crop Storage and Marketing**

### **Methods of Storage**

The largest proportion of households reported storing crops was in Kibaha (16,607 households, 91% of total agricultural households in the district). In Bagamoyo and Rufiji districts, households that stored crops were equivalent to 89% in each district. In Mkuranga and Mafia districts, 82 and 69%, of the households, respectively, also reported storing crops. The storage structures used by the majority of households were locally made traditional structures (42% of the total households practicing crop storage) and sacks and open drums (55,780, 21%). However, an estimated 60,220 households (22%) in the region did not store crops for any period of time.



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**Crop Sales**

Sale of crops was conducted in all districts with varying proportions of the household participating. Rufiji had the highest proportion of households (67.7%) selling crops while Mafia had the lowest proportion (44.7%) of households participating in selling crops.

**Marketing Problems**

The challenges faced by households that participated in the sale of crops were varied. The single most challenging problem cited by the largest proportion of households (31.9%, 87,050 households) was the low price in the open market. All other marketing problems were considered minor (cited by 0.1 to 1.6% of the households selling crops). However, a relatively large proportions of households (123,925, 45.5%) indicated they were not facing any problems and another 38,886 households (14.3%) indicated that the marketing problems itemized did not apply to them.

**viii Agricultural Credits**

Access to credit was reported in all districts and generally family, friends or relatives were the main sources of credit accessed by 23% of the households. Other sources of credit were savings and credit societies (14%), Cooperatives (21%), Bank (17%) and private individuals (14%).

**ix. Soil Erosion Control and Rain Water Harvesting**

In all districts combined 1,428 households (0.81% of the total agricultural households in the region) applied some measure of soil erosion control and/or had rain water harvesting facilities which was as low as 0.2% in Rufiji and reached a maximum of 1.2% in Kibaha and Kisarawe districts. The most commonly used structures for erosion control and water harvesting were terraces (10,289) followed by tree belts (5,559) and gabions and sandbags (2,883).

**x) Livestock Production**

The livestock types found in the region comprised of cattle, goats, sheep, pigs and chicken.

**Cattle Population and Distribution**

A total of 12,269 households engaged in livestock production in coast region. Cattle were recorded in all districts with large variations. The total population was 255,258 herds comprising predominantly of indigenous cattle (225,610 herds, 88.4%), and small proportions of improved dairy (28,507 cows, 12.6%) and improved beef (1,141, 0.5%). Bagamoyo hosted the largest

proportion of cattle in the region (61.5 %) of which 90.1% were indigenous type. Most of the improved beef were found in Kibaha (39.5% of the total population of improved beef) and Mkuranga (38%). Most of the dairy cattle were in Bagamoyo district (54.4%). Mkuranga was the only district where the largest population of cattle was of the improved dairy type.

### **Goat**

The total goat population in the region was 172,769 distributed in all districts in varying proportions. The largest population of goats was found in Bagamoyo (64.7% of total goat population in the region) while Mafia had the lowest goat population in the region (0.5%).

### **Sheep**

The total number of sheep in the region, mostly indigenous type, was 2,403,132. Kibaha was the most important district for sheep production with 1,401,093 (58.3% of total sheep population in the region). The sheep population in Mafia district was the lowest (1.8%) and other districts were in between.

### **Pigs**

There were 14,458 pigs in the region found in two districts: Kibaha ( 9,251pigs, 64%) and Bagamoyo (5,207 pigs, 36.1%). The highest pig density was in Kibaha district.

### **Chicken**

The Coast region had a total chicken population of 1,875,732 (local and improved types) of which most (1,619,965, 86.4%) were indigenous types found in all districts with variations ranging from 61% in Kibaha to 96% in Mafia. A total of 106,367 households kept indigenous chicken. Mkuranga followed by Bagamoyo districts were the two leading districts in both chicken population and the number of households engaged in chicken production.

### **xi) Incidences of Ticks and Tsetse Flies and De-worming**

Comparatively, larger proportions of households keeping livestock reported having problems with ticks as opposed to tsetse flies in all districts. The highest level of tick-related problems were recorded in Mafia (35% of the livestock keeping households) followed by Bagamoyo (19%) and Kibaha (15%). Tick-related problems were reported by 5% or less of the livestock keeping households in Rufiji, Kisarawe and Mkuranga districts. De-worming of all livestock types was conducted in all districts but was mostly practiced in Mafia district (60%) and least prevalent in Mkuranga district (14%)

**xii) Fish Farming**

Fish farming was practiced to a very limited extent by an estimated 1,150 households (1% of the total agricultural households in the region) from the five districts which reported practicing fish farming. Mkuranga was the only district where fish farming was not practiced.

**xiii) Use of Organic Fertilizer**

The number of households using organic fertilizers was estimated combined total of 5,928 for both the short and long rain season, equivalent to about 3.4% of the total agricultural households in the region (Table 3.26). Organic manure was applied in all districts but generally on small areas with the largest at 6.2% of the planted area during the short rains in Kibaha district. The largest number of households using organic manure during the short rains was in Mkuranga district (45.8% of total households that used organic fertilizer in the region) and the lowest level of organic manure use was in Mafia (1.9%). During the long rains, organic fertilizers were used mostly in Kibaha district (36.2%) and Bagamoyo (23.2%).

**ix) Poverty Indicators****Toilet Facilities**

The majority of agricultural households use the traditional pit latrine (145,668, 84% of all households), with a low level of use of improved pit latrines (20,148 households, 7%) and flush toilets (1%). About 3% of the households sampled had no toilet and/or were using the bush.

**Access to Drinking Water**

The majority (45.3% of the total agricultural households) depended on unprotected well while others depended on piped water (20.2%); protected wells (13.2%) and surface water on lake, river or dams, by another (11.1%). The distance to the main source was in the range of less than 100m to 10 kilometers, with the majority (55%) accessing drinking water from a distance of up to a kilometre.

**Roofing Material**

Grass roofing was used in all districts by between 15 and 65% of the households. The highest proportion of households roofed with grass or leaves was in Mafia (65.2%) while Kibaha district had the lowest proportion of houses roofed using grasses or leaves (15.6%). In other districts,

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grasses or leaves were used for roofing by 53.7% of the households in Mkuranga, 48.3% in Rufiji, 43.4% in Kisarawe and 30.3% in Bagamoyo.

### **Number of Meals per Day**

The majority of households in the region take an average three meals per day (66%) while two thirds either take two meals per day (32%) or one meal per day (2%). There were variations between districts but in all cases, the number of households taking three meals per day was the largest followed by households that took two meals per day.

### **Meat and Fish Consumption Frequencies**

The number of households that ate meat once a week was higher than the households that ate fish at the same frequency. However, generally most households consumed fish more frequently than meat. Very few households consumed meat more than thrice a week or fish more than five times a week

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

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

### 2.1 The Rationale for Conducting the National Sample Census of Agriculture

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

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

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

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

## **2.2 Census Objectives**

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

The census was carried out in order to:

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

### **2.2.1 Census Scope and Coverage.**

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

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

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

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

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

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

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

### **2.3 Census Methodology**

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

- Census organization;
- Tabulation plan preparation;

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

### **2.3.1 Census Organization**

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

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



The Planning Group was responsible for all the census operations. Implementation of the census activities at the regional level was overseen by the Regional Statistical Managers of NBS and the Regional Agricultural Supervisors from the Prime Minister's Office, Regional Administration and Local Government. At the district level, the census activities were managed by two supervisors from the Prime Minister's Office, Regional Administration and Local Government (PMO-RALG). The supervisors managed the enumerators who also came from PMO-RALG. As for Zanzibar, implementation of the census activities at the regional level was overseen by the Regional Statistical Officers and Regional Agricultural Officers. At District level, 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 1.1 gives the sample size of households, villages and districts for the Mainland and Zanzibar.

**Table 2.1 Census Sample**

<b>Description</b>	<b>Mainland</b>	<b>Zanzibar</b>	<b>Total</b>
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.

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

**Batch Validation**

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

**Tabulation**

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

**Report Writing**

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

**Data Quality Control**

A great deal of emphasis was placed on data quality throughout the whole exercise, from planning; questionnaire design, training, supervision, data entry, validation and cleaning/editing. As a result of this, it is believed that the census is highly accurate and representative of what was experienced at the field level during the census year. With very few exceptions, the variables in the

questionnaire are within the norms for Tanzania and they follow the expected time series trends when compared to historical data.

## **2.4 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).

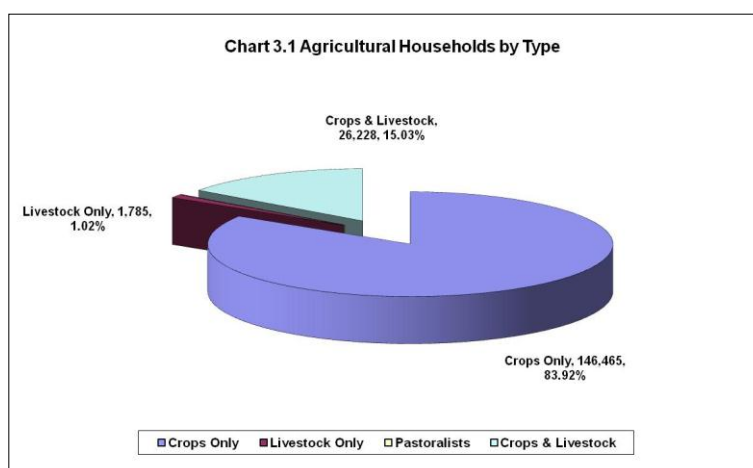
### 3 CENSUS RESULTS ANALYSIS

This report is a summary of results of the 2007/08 Agriculture Census data for Coast region. The data were collected from a sample households engaged in different agricultural activities and cover crop and livestock production, storage and marketing, livestock types, input availability and use, irrigation and extension services, to name a few. Where appropriate, comparisons with the past censuses and surveys data have been made so as to determine the nature and extent of changes that have taken place over the years. The census data which were collected from sample respondents drawn from all six districts are reported in the main body of the report through text, charts, graphs, maps and a few selected tables. The detailed Tables are presented in Appendix II.

#### 3.1 Household Characteristics

##### 3.1.1 Type of Household

The total number of agricultural households in Pwani region was 174,523. Bagamoyo district had the largest number of agricultural households (44,868 households, 25.7% of total agricultural households in the region), Kibaha (18,277, 10.5%), Kisarawe (23,356, 13.4%), Mkuranga (43,933 25.2%), Rufiji



(35,372, 20.3%) and Mafia, (8,717, 5%), (Table 3.1, Map 3.01). Majority of households in the region were involved in crops only (146,465, 83.9%), crop and livestock (26,228, 15%) and livestock only (1,785, 1%). There were very few pastoralist households (45, 0.25%) which were located in Kibaha district, (Table 3.1, Chart 3.1).

In general, there was an increase of 19% of the agricultural households as compared to 2002/03 census which was having a total of 141,530 agricultural households.

**Table 3.1 Agricultural Households by Type**

District	Crops Only	Livestock Only	Pastoralists	Crops & Livestock	District Total	%Contribution by District
Bagamoyo	34,565	1,219	0	9,084	44,868	25.7
Kibaha	14,757	451	45	3,024	18,277	10.5
Kisarawe	21,626	115	0	1,615	23,356	13.4
Mkuranga	38,293	0	0	5,641	43,933	25.2
Rufiji	31,878	0	0	3,493	35,372	20.3
Mafia	5,346	0	0	3,371	8,717	5.0
<b>Total</b>	<b>146,465</b>	<b>1,785</b>	<b>45</b>	<b>26,228</b>	<b>174,523</b>	

Furthermore, Kibaha had the highest density of agricultural households per km<sup>2</sup> (1,352), followed by Mafia (943 households/sq km), Kisarawe (627 households/sq km) and Bagamoyo (520 households/sq km). Mkuranga district was the most sparsely populated with agricultural households 421 households/sq km, (Maps 3.02, 3.03 and 3.04).

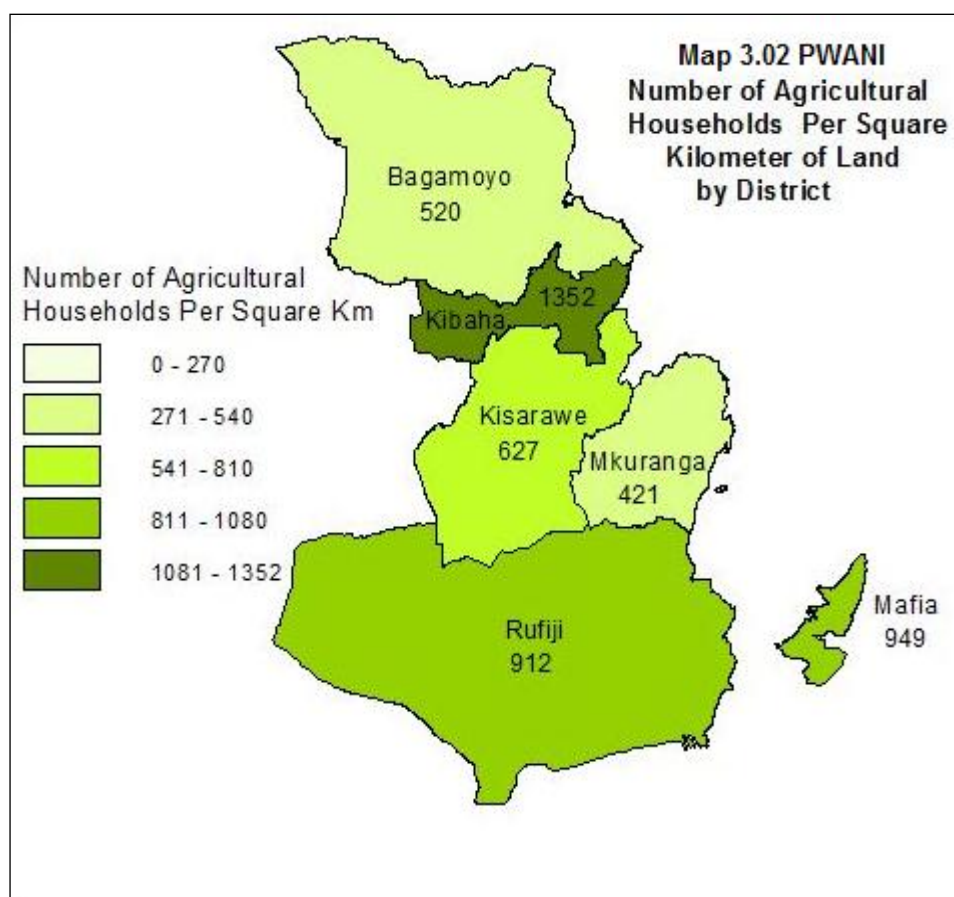
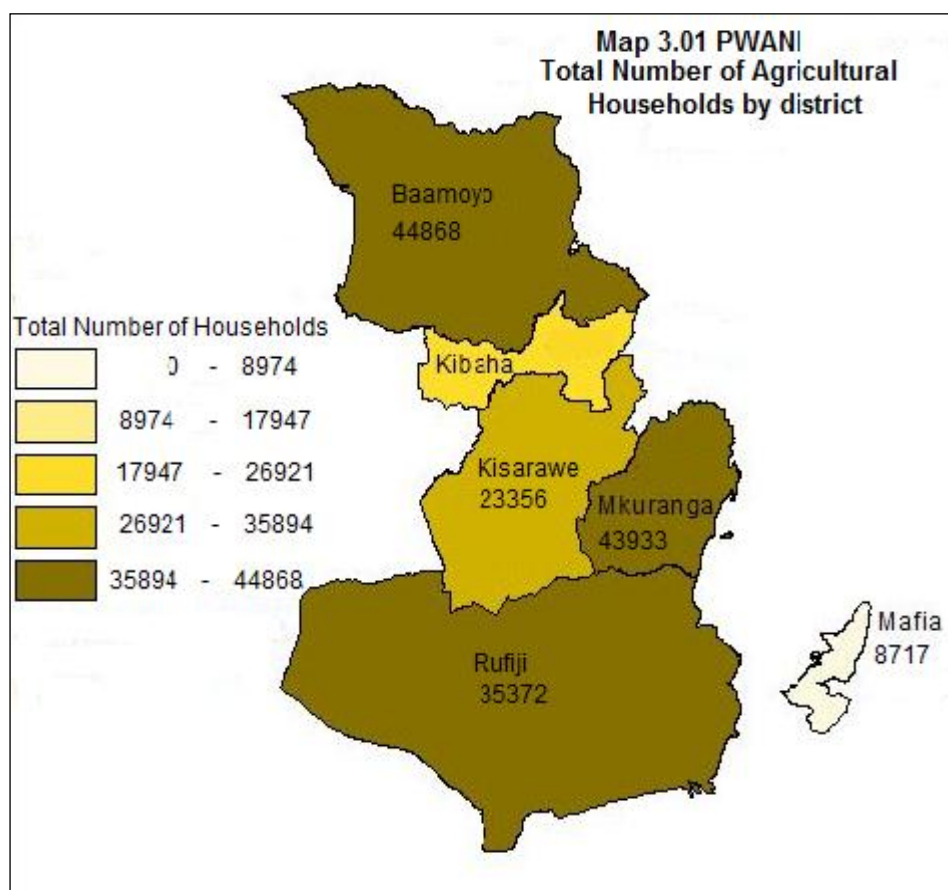
### 3.1.2 Livelihood Activities/Source of Income

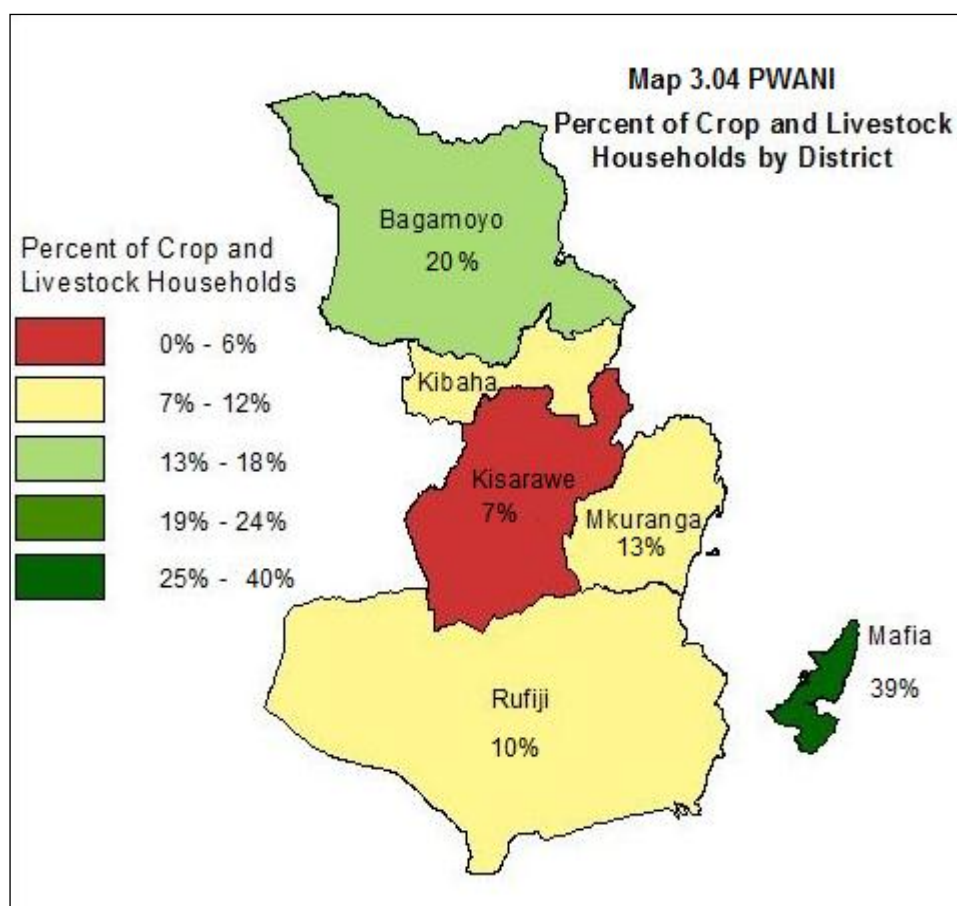
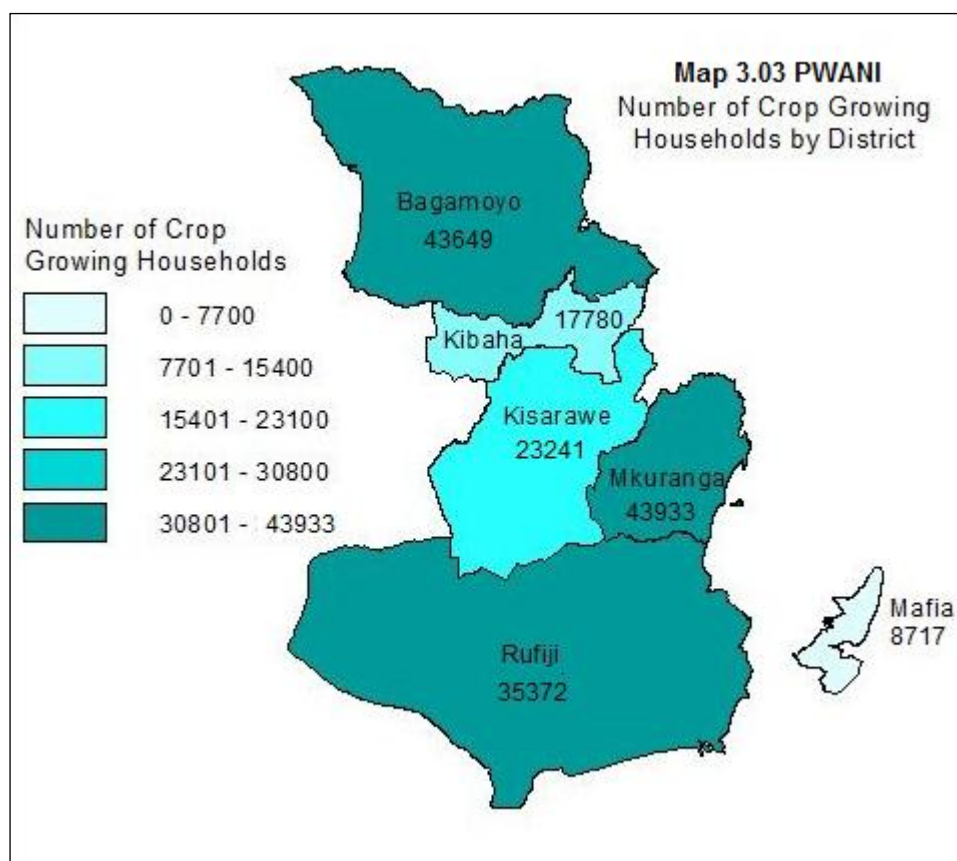
The main occupation of the households in all districts was crop farming (82%) and smaller proportions of the population engaged in livestock keeping and herding (2%) and fishing (4%). Others were employed in the government and non-governmental organizations (NGO) (10%) and other activities (2%), (Table 3.1a).

**Table 3.1a 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	%
Bagamoyo	37,224	83	2,659	6	1,108	2	3,545	8	332	1	44,868	100
Kibaha	13,809	76	587	3	0	0	3,339	18	542	3	18,277	100
Kisarawe	20,819	89	115	0	58	0	1,442	6	923	4	23,356	100
Mkuranga	36,448	83	0	0	1,844	4	4,881	11	759	2	43,933	100
Rufiji	28,909	82	175	0	2,795	8	2,620	7	873	2	35,372	100
Mafia	6,305	72	87	1	1,162	13	930	11	232	3	8,717	100
<b>Total</b>	<b>143,514</b>	<b>82</b>	<b>3,623</b>	<b>2</b>	<b>6,967</b>	<b>4</b>	<b>16,758</b>	<b>10</b>	<b>3,662</b>	<b>2</b>	<b>174,523</b>	<b>100</b>

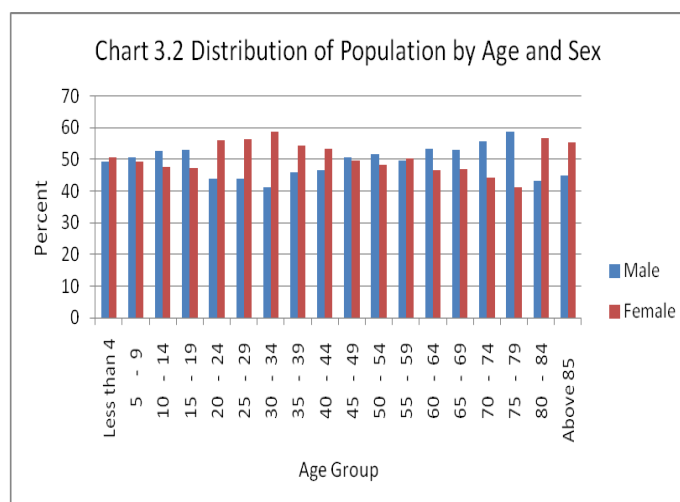






### Distribution by Age and Sex

Members of agricultural households were distributed over the entire range of age brackets in comparable proportions for most age brackets (Chart 3.2). However, the male population was more prevalent in the older age brackets (60-79 years) while the female population was more prevalent in the young age bracket (20-44 years) and the oldest age bracket of 80-84 and older. This implies that females are more likely to be the major workforce for agricultural activities in the region.



### Level of Education

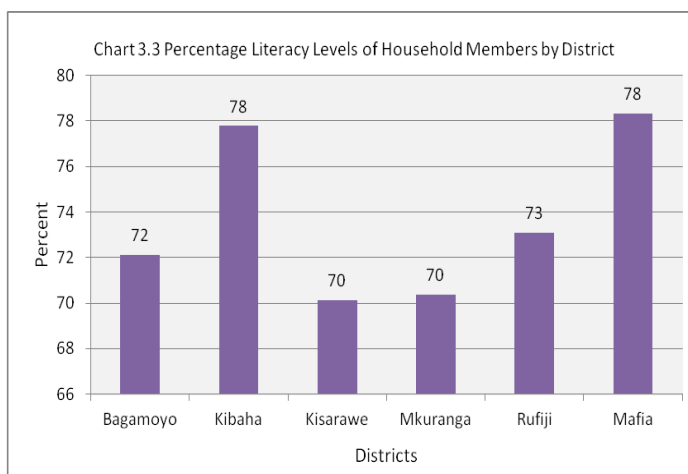
In order to obtain information on the level of education, information on literacy and education attainment were obtained for all persons aged five years and above in all households

#### 3.1.3 Literacy

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

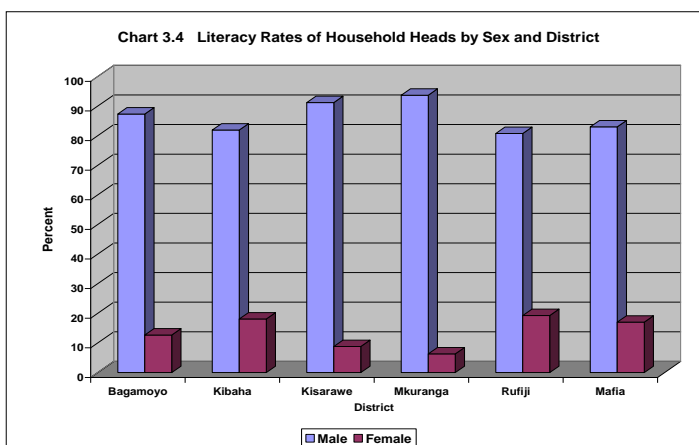
#### Literacy Level for Household Members

The literacy level of members of the agricultural households ranged from 70% to 78% in all districts, (Chart 3.3). As compared to the 2002/3 census, Mafia district maintained the highest literacy level (78.4%), followed by Kibaha (77.8%), Rufiji (73.2%), Bagamoyo (72.1%) and lowest in Kisarawe (70.2%). In all cases, there was a general increase in the literacy level.

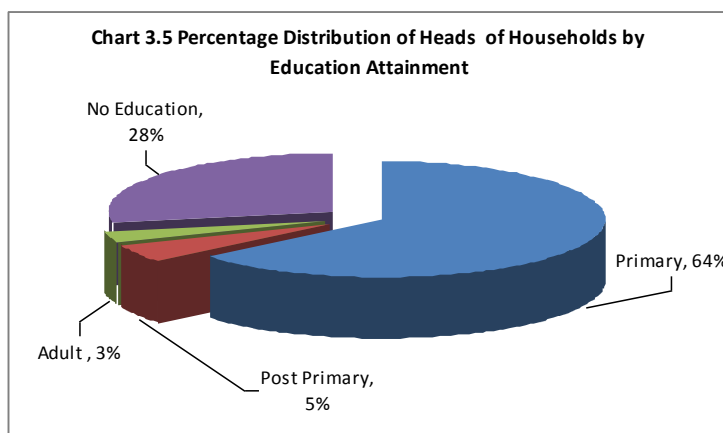


### Literacy Rates for Heads of Households

The literacy rate of male heads of households (hh) was much higher compared to that of female hh in all districts (Chart 3.4). Whereas the literacy rate of male hh was in the range of 81-94% and that of female hh was in the range of 6-19%. The highest literacy rates for female hh was recorded in Rufiji (19%) followed by Kibaha, Mafia, Bagamoyo and Mkuranga. This is in total contrast with the 2002/3 survey whereby Mkuranga was the third and Rufiji the last.

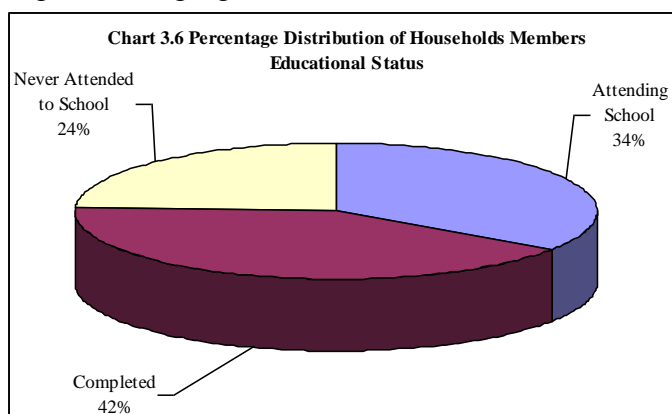


The highest level of education for the majority of the heads of households, was primary education (64%) followed by those without education (28%), post primary education (5%) and adult education (3%), (Chart 3.5). With regard to the heads of hh with primary education in Pwani region, Bagamoyo district had the highest percentage (26%) followed by Mkuranga (23%), Rufiji (21%), Kisarawe (13%), Kibaha (11%) and Mafia (6%). For post-primary education, Bagamoyo, Mkuranga and Kibaha districts were leading by having 24% followed by Rufiji (15%), Kisarawe (11%) and Mafia (2%). For adult education, Mkuranga was leading by having 47% followed by Bagamoyo (18%), Rufiji (15%), Kibaha and Kisarawe (8%) and Mafia (4%). Mkuranga district was leading in having agricultural hh with no education by having 27% followed by Bagamoyo (26%), Rufiji (20%), Kibaha (8%) and Mafia (4%).



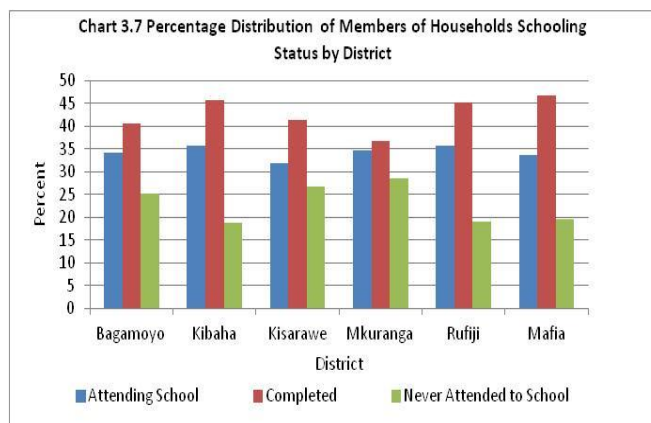
#### 3.1.4 Educational Status

Information on educational status was collected from individual agricultural households. The results show that 42



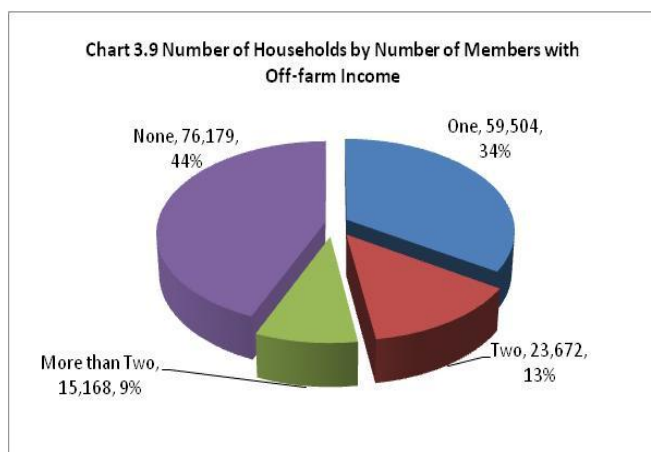
percent of members of agricultural households aged 5 years and above had completed different levels of education in the region and another 34 percent were still attending school. Those who had never attended school were 24 percent, (Chart 3.6)

The proportion of the population that completed school was highest for Mafia (47%) and lowest for Mkuranga (37%) while in the category of never attended school, the highest proportion was in Mkuranga (28%) and the lowest in Rufiji (19%). Differences between districts in the population attending school were minor in the range of 32-36%, (Chart 3.7)

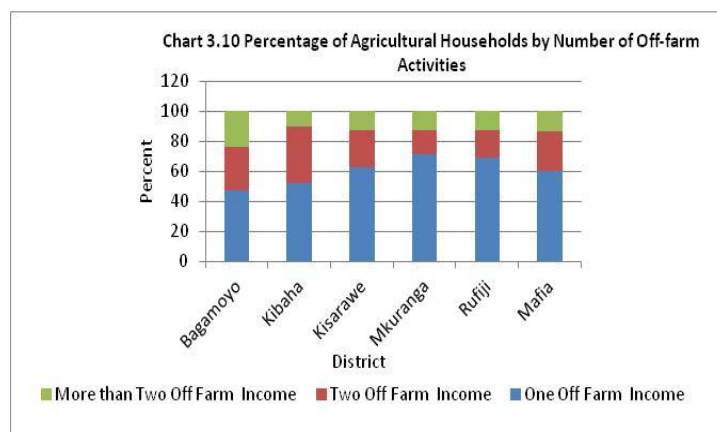


### 3.1.5 Off-farm income

*Off-farm income* refers to cash generated from non-agricultural activities. This can be either from permanent employment (i.e. government, private sector or other), temporary employment or labourers. It also included cash generated from working on farm belonging to other farmers. Off-farm income is important among agricultural households in Pwani with 56% of households having at least one member with



off-farm income. The households with at least one off-farm income have decreased by 31% as compared to 2002/3 census. In Pwani region, of the 98,344 households with at least one member engaged in off-farm income generating activities, 59,504 households (34%) had only one member aged 5 and above involved in only one off-farm income generating activity, 23,672 households (13%) had two members involved in off-farm income generating activities and 15,168 households (9%) had more than two members involved in off-farm income generating activities, (Chart 3.9).





Mafia district had the highest percentage of agricultural households with off-farm income (79% of total agricultural households in the district). Other districts with high percentage of agricultural households with off-farm income were Kibaha (64%), Bagamoyo (60%) and Mkuranga (55%). Districts with the lowest percentage of agriculture households with off-farm income were Rufiji (50%) and Kisarawe (48%), (Chart 3.10).

### 3.2 Land Use

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

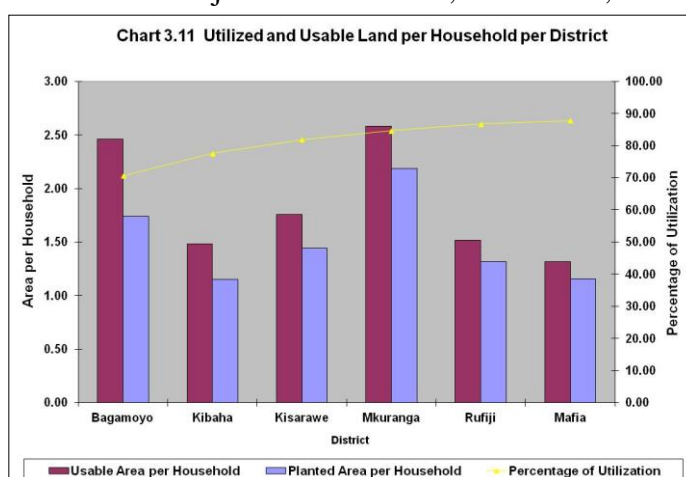
*Land available* refers to the area of land that has been allocated to smallholders through customary law, official title or other forms of ownership. Land available does not mean the total area of land that is designated as agriculture land in the country; but it is the land that is available to smallholders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

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

#### 3.2.1 Area of Land Utilized

The total usable land available to smallholders was 357,377 ha. This is an increase of 14.2% as compared to the available land during the census of 2002/3. The district with the largest usable land was Mkuranga (113,502 ha, 31.8% of total available usable land in the region) followed by Bagamoyo (110,538 ha, 30.9%). Kibaha, Kisarawe and Rufiji had between 27,000 and 54,000 ha usable land area and Mafia had the smallest usable land area (11,487 ha, 3.2%)

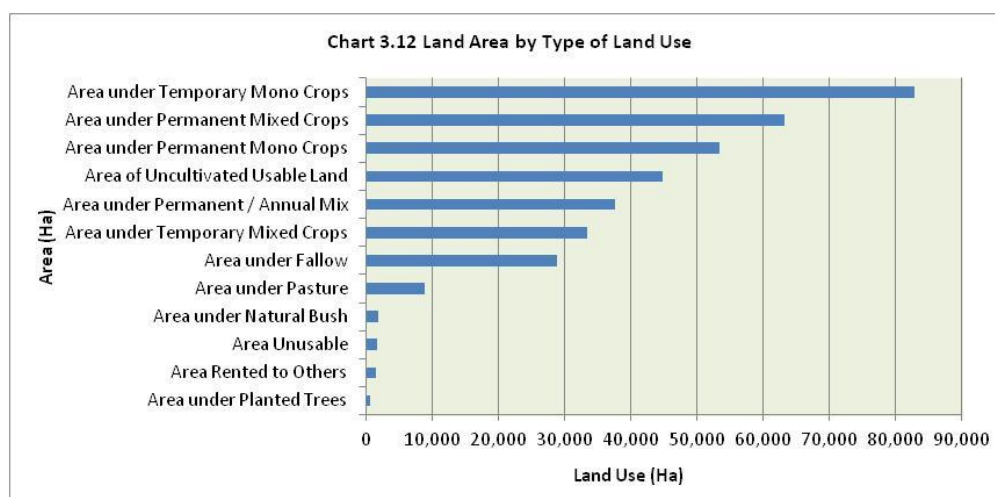
The usable land area per household was largest in Mkuranga (2.6 ha) closely followed by Bagamoyo (2.5 ha). The usable land per household for all other districts was smaller in the range of 1.3 -



1.5 ha. However, households in all districts planted less land than was available but generally maintained a land utilization rate above 70%. The percentage of land utilization was in the range of 70.6 to 87.8%, (Chart 3.11 and Map 3.05).

### 3.2.2 Types of Land Use

Crops, either temporary or permanent in monoculture or mixtures occupied the largest part of the usable land area (270,534 ha, 75.3% of the usable land area in the region). Very limited land was devoted to other land use types (Chart 3.12). Area left under fallow occupied 28,941 ha (8.1%) while smaller pieces of land were kept under pastures, natural bush, planted with trees, land area rented to others and some was unusable.



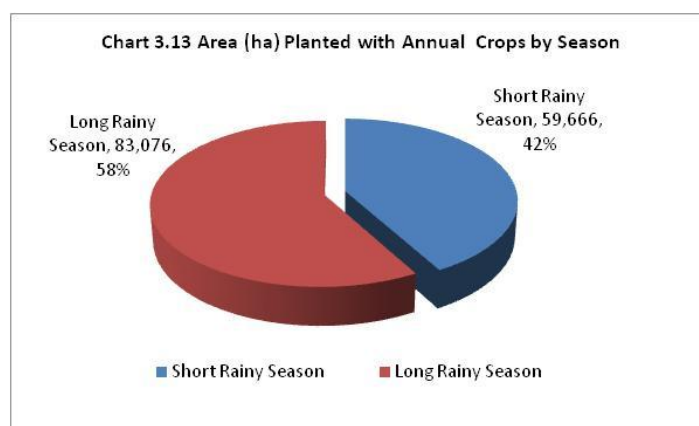
### 3.3 Annual Crops and Vegetable Production

Agricultural households in the region planted crops in two rainy seasons namely the long rainy (April to May) and short rainy (October to November) seasons. It has to be noted here that, the total area planted in both seasons is taken as the summation of the area planted in the short and long rainy seasons. Therefore it will be up to twice the total cultivated geographical area in any particular cropping year. This is because the farmer may use the same plot in planting annual crops in both seasons.

The quantity of crops produced in both seasons will be used as a base in comparing with results from the past surveys and census.

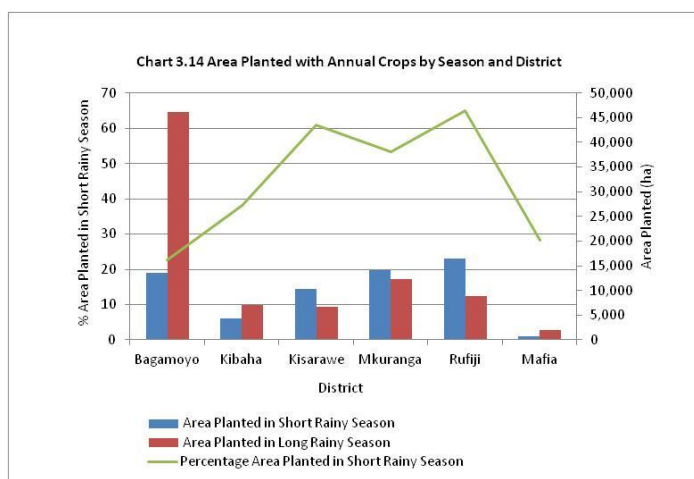
#### 3.3.1 Area Planted

The area planted with annual crops and vegetable was 142,742 ha, which is a 20% decrease as compared to the 2002/3 agriculture sample census results. Out of this total area, 59,666 ha (42%) was planted during the short rainy season and 83,076 ha (58%) was planted during the long rainy season (Chart 3.13). The average areas planted per household during



the short and long rainy season was 0.7 and 0.9 ha respectively while the average remained the same for the short rainy season, it decreased by 44% as compared to the reported figures in 2002/3 census.

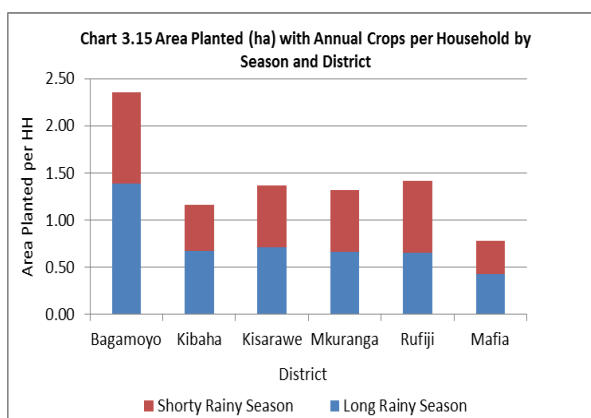
The district with the largest area planted per household (The average of the two seasons) was Bagamoyo (1.18 ha) followed by Rufiji (0.71 ha) and Kisarawe (0.68 ha). In Bagamoyo district, the land area planted during the long rainy season (46,159 ha) was more than three times the area planted during the short rainy (13,504 ha). In Kisarawe,



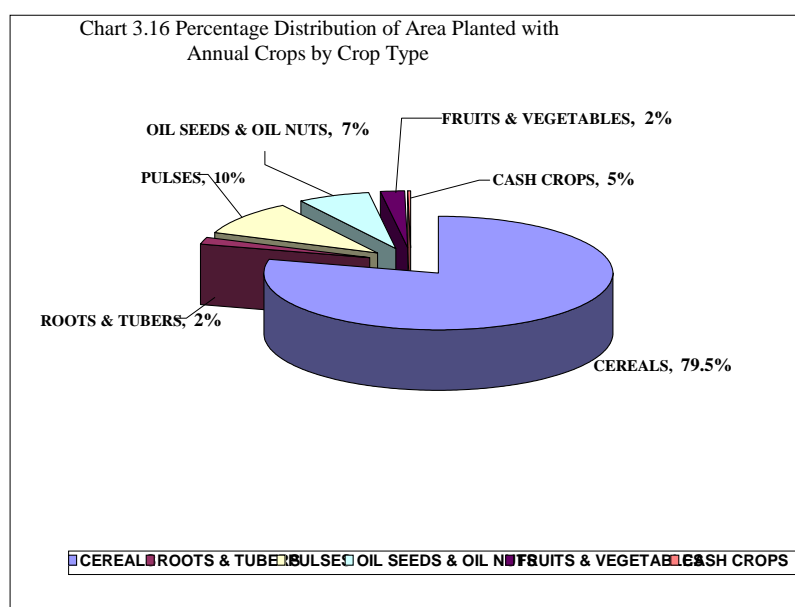


Mkuranga and Rufiji districts, relatively larger land areas were planted during the short rainy season compared to the long rainy season (Chart 3.14).

The district with the smallest average area planted per household was Mafia (0.39 ha) in all districts, the average area planted during the long rainy season (0.92 ha) was higher than that of the short rainy season (0.71 ha) except Mkuranga where it remained almost similar (Chart 3.15, map 3.18).



Annual crops were planted during the long rainy season in all districts, however; the planted area in Bagamoyo district was the largest in either season being close to 1.4 ha/household during the long rain season or slightly below one hectare during the short rainy season (Chart 3.15, Maps 3.06 and 3.07). In all other districts, the area planted during either season was between 0.4 and 0.8 ha/household



in all districts except Mafia where planted area/household were smaller than 0.4 ha/household.

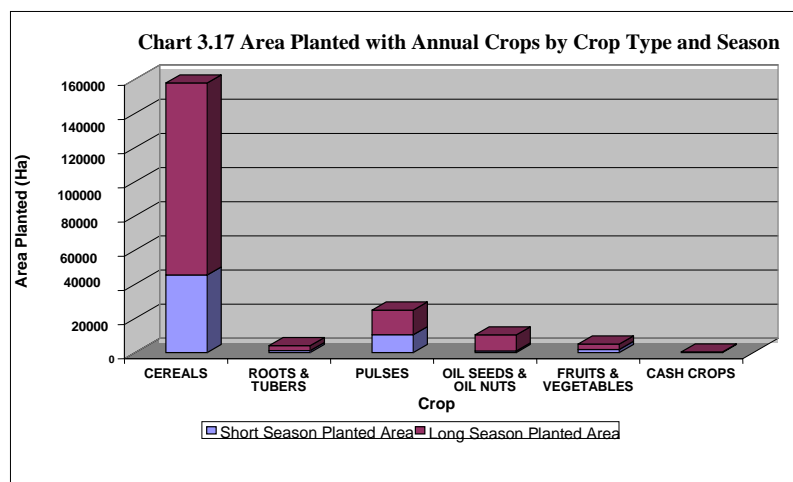
The planted area occupied by cereals was 93,869 ha (81% of the total planted area with annual crops). This was followed by pulses (10,140 ha, 9%), oil seeds and oil nuts (8,773 ha, 8%), roots and tubers, fruits and vegetables and cash crops constituting 2% of the total area covered by annual crops.

## Analysis of Main Crops

The main crops produced in the region have been categorized 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 types.

### 3.3.2 Crop Importance

The estimated area planted with main annual crops was 141,279 ha. Cereals were the main type of crops grown in the region (Chart 3.16) occupying 112,329 ha (79.5% of the planted area under annual crops) followed by pulses on 14,262 ha (10%) and oil seeds and oil nuts (9,088 ha, 7%). Root and tuber crops and fruits

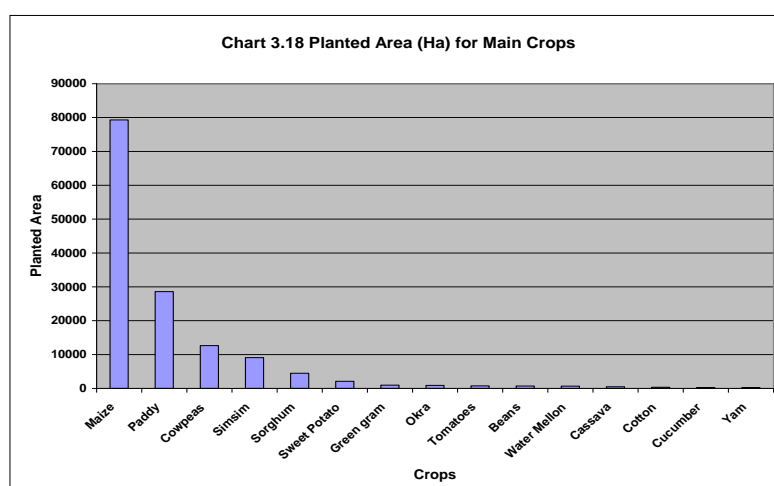


and vegetables were planted on much smaller land areas each constituting about 2% of the planted area. Unspecified cash crops were planted on about 10% of the planted (Chart 3.16). The main crops were planted in both seasons (short and long rainy seasons) but predominantly in the long rainy season, (Chart 3.17).

### 3.3.3 Planted Area for Main Crops

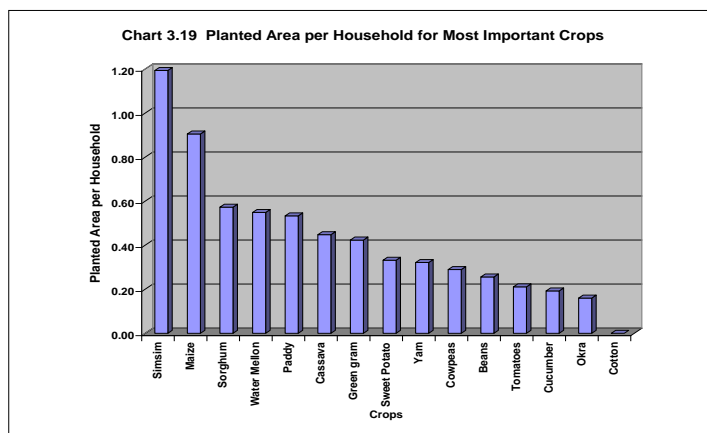
The total planted area was 142,740 ha. The planted area for the main crops (Chart 3.18) was largest for maize (79,295, 56% of the area planted with main crops), followed by paddy (28,583, 20.2%) and cowpeas (12,616 ha, 8.9%). Other main crops which were planted on land areas of at least 2,000 ha were simsim (9,088 ha, 6.4%, sorghum (4,452 ha, 3.2%) and sweet potato (2,086 ha, 1.5%).

There was a range of minor crops planted on much smaller land areas which included green grams, okra, tomato, beans, water melon and cassava (Chart 3.18).



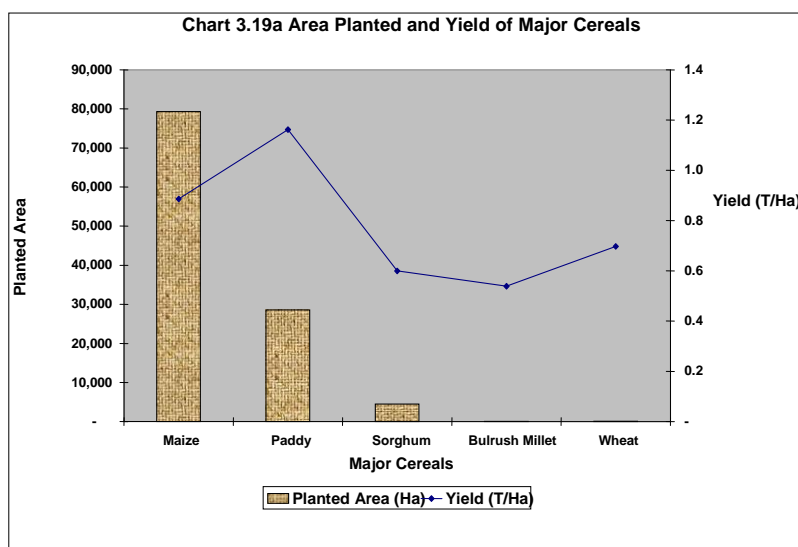
The preference of allocation of the major part of the planted area to maize is similar to the situation in 2002/03 agriculture sample census when the planted area occupied by cereals was 103,560 ha (58.3% of the total area planted with annuals).

On land allocation for the main crops, simsim (1.2 ha/household) was the only crop planted on slightly more than a hectare per household in the region, (Chart 3.19). Other crops planted on a minimum of 0.5 hectares were maize (0.9 ha/household), sorghum and water melon (each averaging 0.6 ha/household) and paddy and cassava (each 0.5 ha/household). All other crops were planted on smaller land areas, the smallest was for okra (0.16 ha/household)



### 3.3.4 Cereal Crop Production

The total area planted with cereals in the region was 48,390 ha (78.8% of the total planted area). The major cereals planted in the region were maize and paddy with sorghum planted on a smaller area. Bulrush millet and wheat were negligible (Chart 3.19a, Map 3.08). The planted area for cereals was largest for maize (79,294 ha, 70.5%), followed by paddy (28,583 ha, 25.4%) and sorghum (4,452 ha, 4%). Bulrush millet and wheat were minor cereals in the region with a combined planted area of only 92 ha.

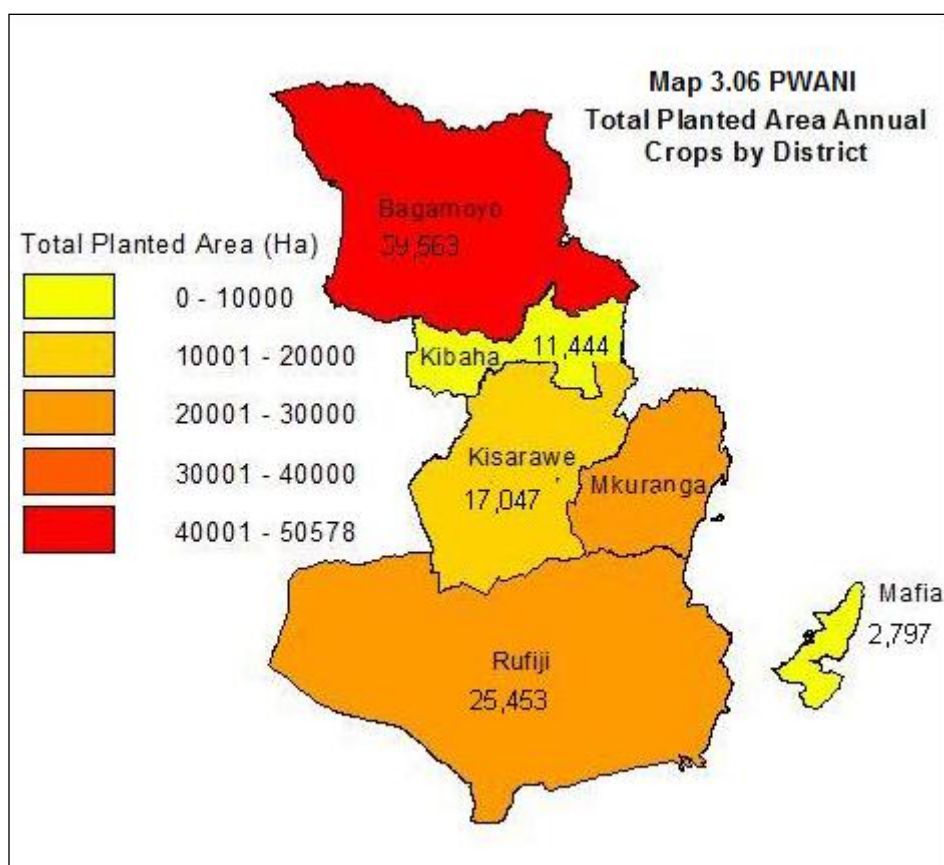
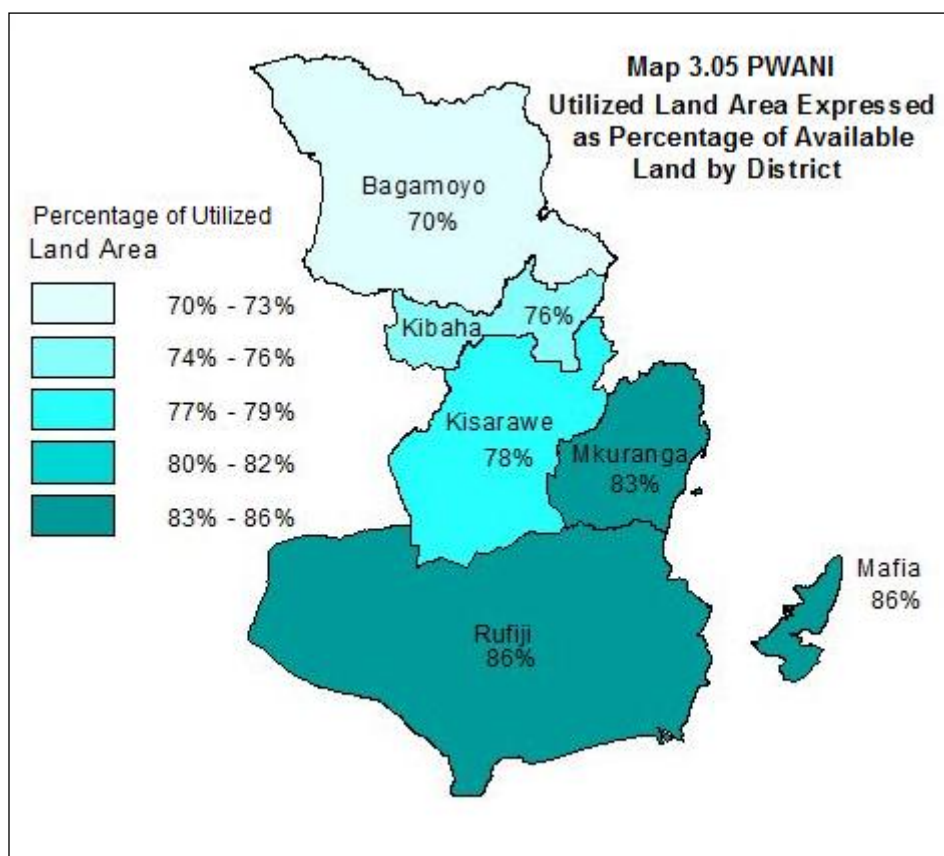


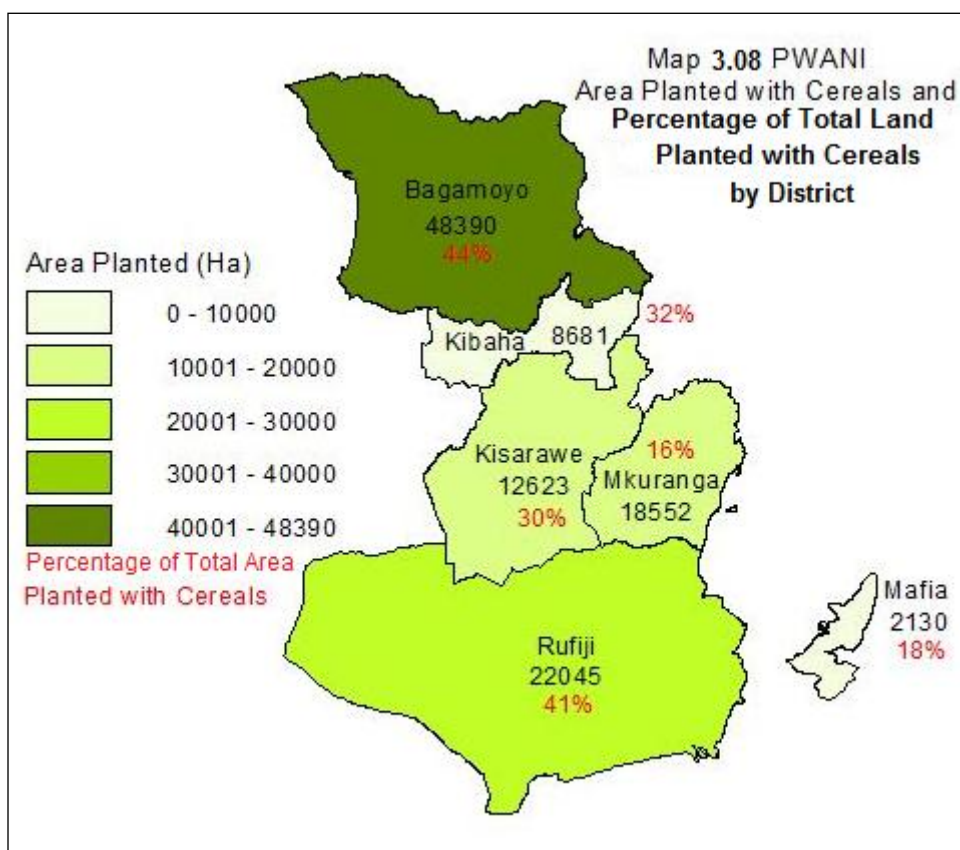
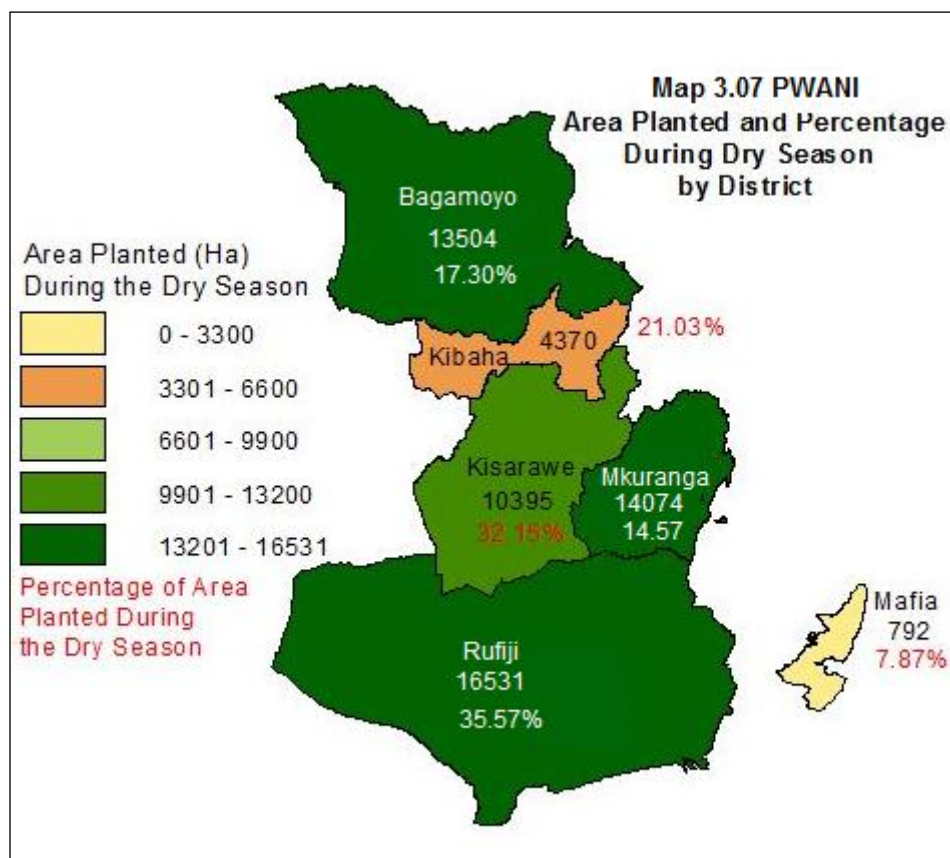
Yields for all cereals were generally below one ton/ha except paddy which gave the highest average yield of 1.2 t/ha. Maize was second with 0.9 t/ha and sorghum gave 0.6 t/ha (Table 3.2). Among the major cereals, maize was planted by the largest number of households (87,611, 39% of households that planted one of the main crops) followed by paddy (53,593 households, 23.9%) and sorghum

was planted by 7771 households (3.5%). The total production of cereals was 106,200 tons (Table 3.2) and maize contributed 66.2% (70,265 tons) of the total cereals harvested, paddy (33,207 tons, 31.3%) and sorghum made a small contribution of 2,669 tons (2.5%).

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

Crop	Short Rainy Season			Long Rainy Season			Short & Long Rainy Season		
	Area Planted (Ha)	Amount Harvested (T)	Yield (T/Ha)	Area Planted (Ha)	Amount Harvested (T)	Yield (T/Ha)	Area Planted (Ha)	Amount Harvested (T)	Yield (T/Ha)
Maize	35,572	30,979	0.87	43,722	39,284	0.9	79,294	70,265	0.89
Paddy	8,968	13,958	1.56	19,615	19,251	0.98	28,583	33,207	1.16
Sorghum	774	555	0.72	3,678	2,114	0.57	4,452	2,669	0.6
Bulrush									
Millet	-	-	0	26	14	0.54	26	14	0.54
Wheat	66	46	0.7	-	-	0	66	46	0.7
<b>TOTAL</b>	<b>45,380</b>	<b>45,536</b>	<b>1</b>	<b>67,041</b>	<b>60,661</b>	<b>0.9</b>	<b>112,421</b>	<b>106,200</b>	<b>0.94</b>

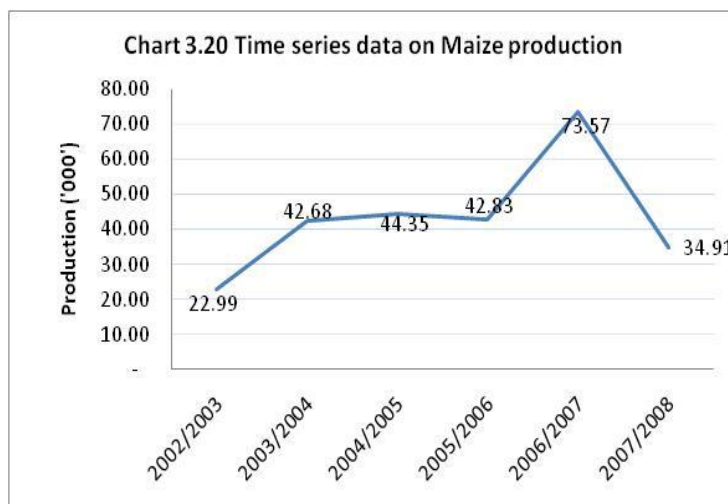






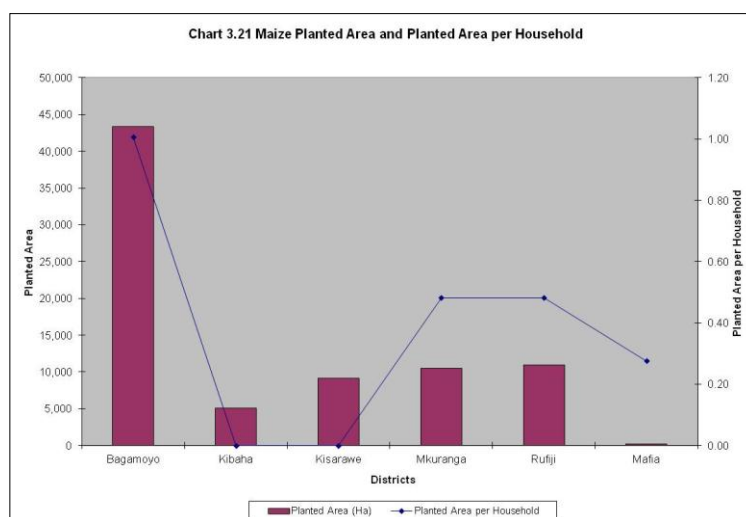
### 3.3.4.1 Maize

The maize production trend (in metric tons) for the combined short and long rainy seasons for the past six seasons is summarized on Chart 3.20. Production of maize increased over the period from 2002/3 to 2003/4; remained stable during the period 2003 – 2006; rose again in 2006/07 before falling in 2007/8 to levels below 2003/4. However, the current situation indicates that maize



popularity amongst crop growing households has been maintained when compared to 2002/03. In this census, the households growing maize represented 54% of the crop growing households which is only slightly below the 57% of the crop growing households that planted the crop as per 2002/03 census results.

Maize was planted in all districts on a total of 79,294 ha (70.5% of total area planted with cereal crops by 119,107 households). Bagamoyo district was leading in the area planted (43,404 ha, 54.7% of the total area planted with maize) and the number of households that planted the crop (43,095, 36.2% of households growing maize) in the region, (Chart 3.21, Map 3.09). Kisarawe, Mkuranga and Rufiji districts

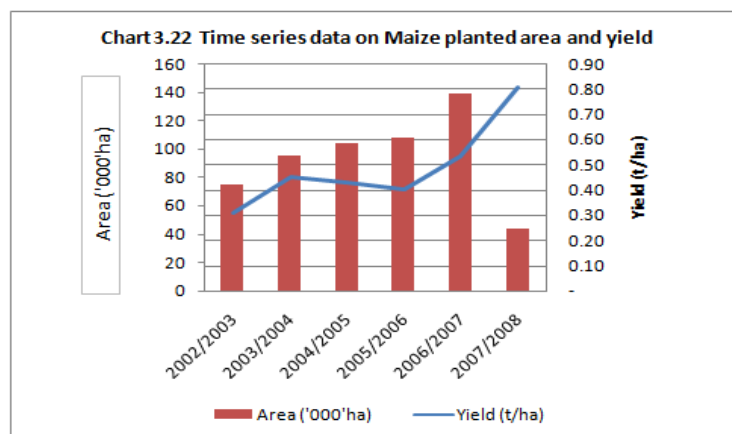


had maize planted areas about a quarter of the area planted in Bagamoyo (10,513 ha, 13.3% for Mkuranga, 9118 ha, 11.5% for Kisarawe and 10938 ha, 13.8% for Rufiji). In Kibaha district, maize was planted on a relatively much smaller area (5,097 ha, 6.4% of the planted area) and in Mafia the area planted with maize was negligible (224 ha).

Maize yield (Map 3.09) was highest in Kisarawe (1.4 t/ha), followed by Mafia (1.12 t/ha) and Rufiji (1.01 t/ha). In all other districts, yields were less than 1 t/ha, the lowest being 0.7 t/ha in Mkuranga district. The maize planted area/household was generally small except in Bagamoyo

district (Map 3.10) which was the highest (1.01 ha) compared to the average of 0.5 ha/household in Kisarawe, Mkuranga and Rufiji districts. Maize planted area per household was smallest in Mafia (0.3 ha)

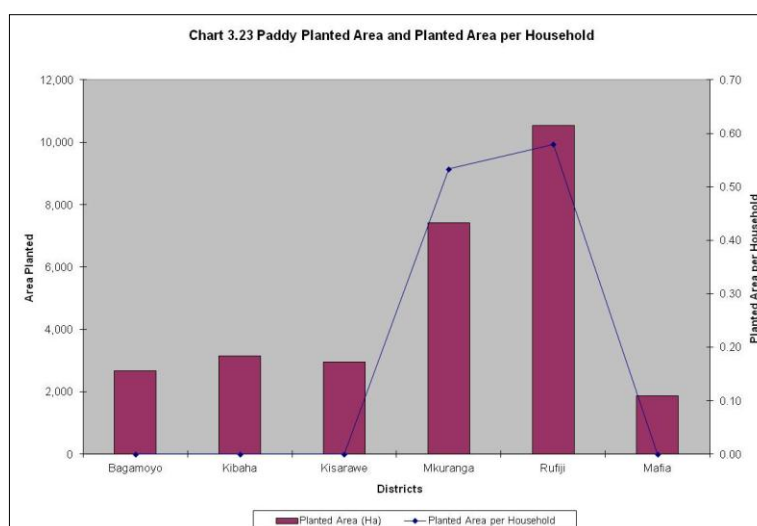
Chart 3.22 shows that, with the exception of year 2005/6 when maize planted area and yield slightly dropped, both the area and yield have progressively been increasing from 2002/3 to 2007/8. The production, area and yield were high in 2006/7 due to huge rain during the cropping season. The decline in 2007/8 was due to vagaries of weather.



### 3.3.4.2 Paddy

Paddy was planted in all districts of the region on a total of 28,583 ha (25.4% of the total ha planted with cereals) by a total of 52,203 households (35.6% of the total 146,465 crops-only households in the region). This trend is similar to 2002/03 when paddy was also the second most important cereal crop in the region in terms of planted area. However, the 2007/08 shows that the number of households that planted paddy in the region had increased compared to 30,542 households that planted the crop during 2002/03.

Rufiji was the leading district for paddy production with the largest area (Map 3.11) planted with paddy (10,532, 36.8% of the total area planted with paddy in the region), followed by Mkuranga (7,408 ha, 25.9%) and Kibaha (3,147, 11.2%). In Bagamoyo and Kisarawe districts, planted areas were 2680 ha and 2942 ha respectively while Mafia had the smallest area planted with paddy (1,874 ha, 6.6%).

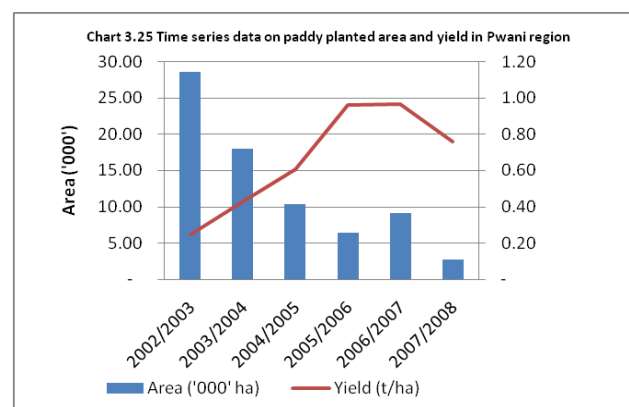
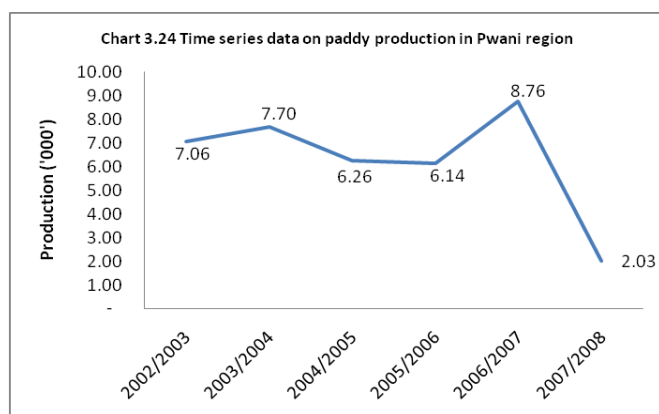




Rufiji district had the largest number of growing households (18,166 households, 34.8% of all growing households in the region) followed by Mkuranga (13,885 households, 26.6%). Paddy production was done by much fewer households in the other remaining districts with Bagamoyo having the smallest number of households engaged in paddy production (4,431, 8.5%).

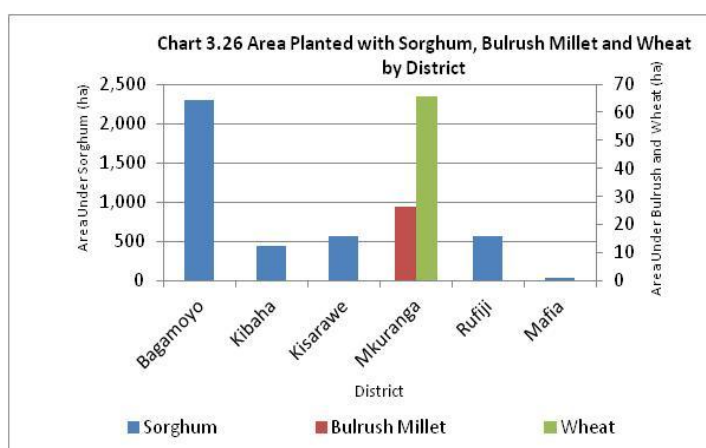
The average planted area per household was generally smaller than one hectare in all districts (Chart 3.19 and Map 3.12). The largest household paddy fields were Bagamoyo and Kisarawe (0.6 ha) while the smallest fields were in Mafia district (0.4 ha/household).

Paddy production has generally been fluctuating between 6,000 and 9,000 tons except in the year 2007/8 when there was a sharp decline. Maximum production was observed in 2006/7 whereby the production was 8,764 tons (chart 3.24). Whereas the area under paddy production constantly decreased between 2002/3 and 2007/8, the yield was increasing from 0.25 t/ha to a maximum of 0.97 t/ha in 2006/7 and then declined to 0.97 t/ha in 2007/8, (Chart 3.25).



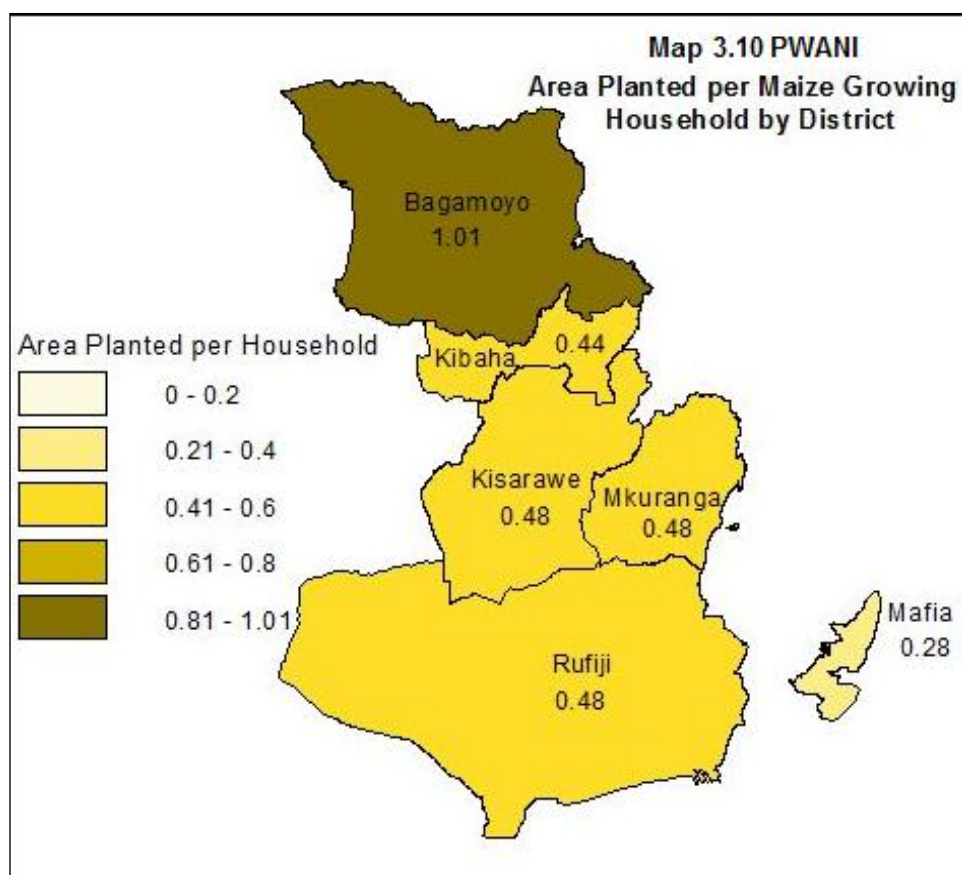
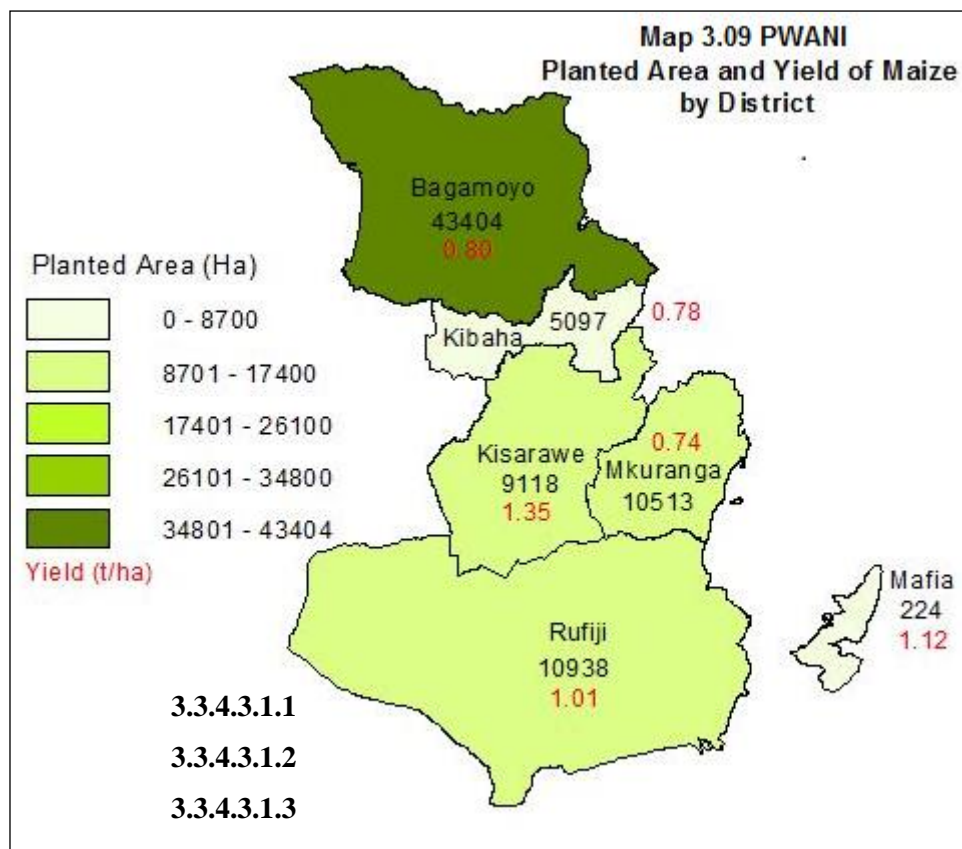
### 3.3.4.3 Production of Other Cereals

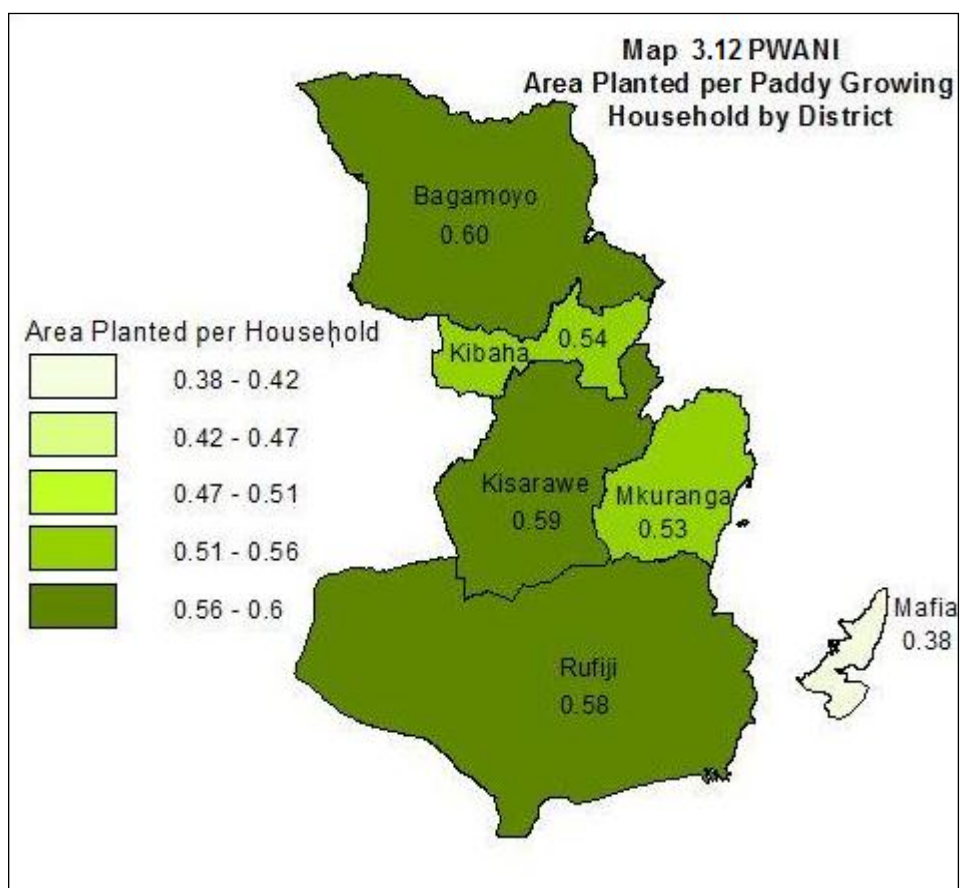
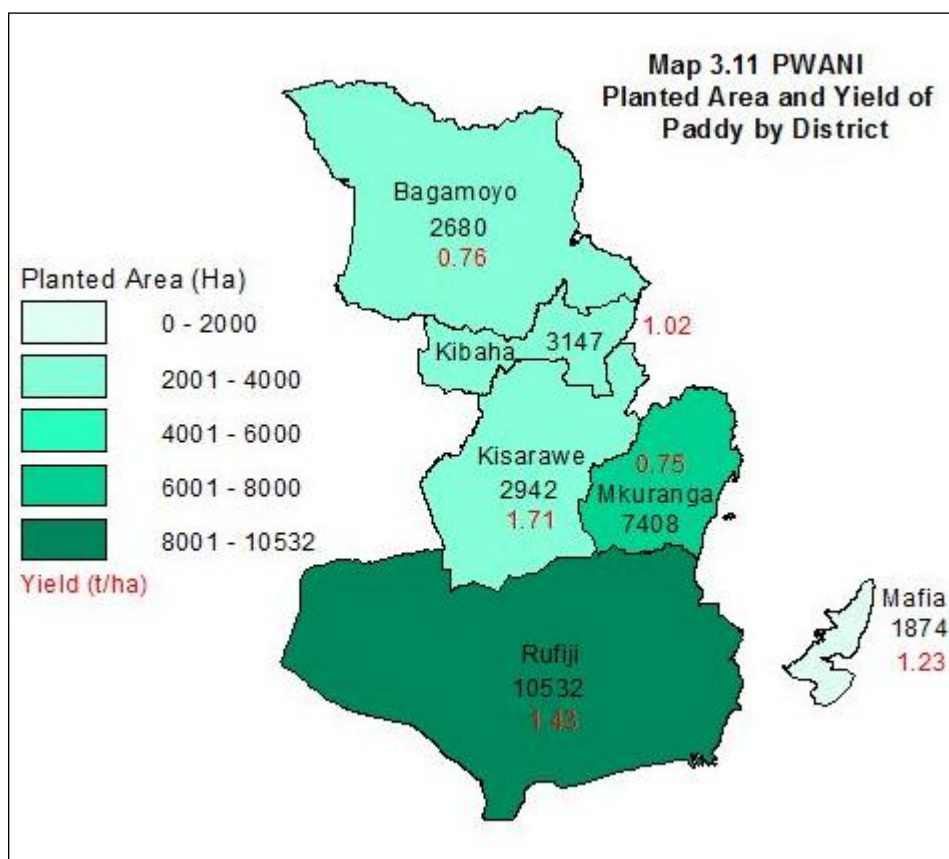
Other cereals including bulrush millet, sorghum and wheat were planted in all districts (Chart 3.26) on a total of 4,543 ha (4% of total area planted with cereals), most of which was planted with sorghum (4,452 ha, 98% of the area planted with other cereals). The other cereals were minor crops such as bulrush millet and wheat which planted on very small areas (26 and 66 hectares respectively as reported in Mkuranga district only).



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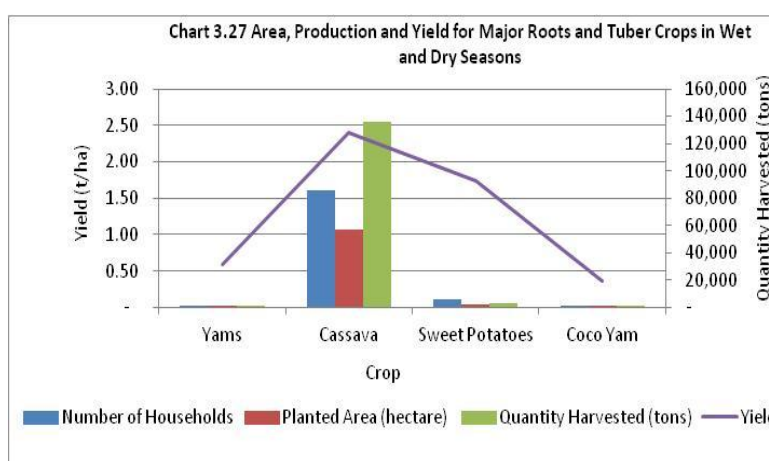
Other cereals were planted by 10,559 households (7.2% of crops-only households in the region) and Bagamoyo was the most important district for the production of other cereals. In this district, the number of households growing other cereals was the largest (3,988, 37.8% of total households growing other cereals in the region) and the area planted (Chart 3.26) was also the largest (2,305 ha, 50.7% of the total area planted with other cereals in the region). Bagamoyo district also gave the highest average yields of other cereals (0.6 t/ha) and made the largest contribution to the total harvested grains (2,669 tons, 97.8% of total harvested grains). Smaller areas were planted with other cereals in Kibaha, Kisarawe, Mkuranga, Rufiji and Mafia had the smallest area planted with other cereals (32 ha, 0.7%). Planted areas per households were generally below one hectare for all districts and ranged from 0.16 ha/household in Mafia to 0.6 ha/household in Bagamoyo.





### 3.3.5 Roots and Tuber Crop Production

Roots and tuber crops were planted during both short and long rainy seasons by 92,390 households in the region (Table 3.3). Large variations existed (Chart 3.27) whereby cassava was planted on the largest area (56,948 ha, 96% of total area planted with roots and tuber); by the largest number of households (85,834, 93% of all households that planted roots and tubers) and accounted for the largest proportion of the total harvested crops (136,087 tons, 97% of total harvested roots and tuber).



**Table 3.3: Area, Production and Yield for Major Roots and Tuber Crops**

Crop	Number of Household	Planted Area (Ha)	Quantity Harvested (Tons)	Yield (t/ha)
Yams	249	152	89	0.59
Cassava	85,834	56,948	136,087	2.4
Sweet Potato	6,278	2,086	3,599	1.73
Coco Yam	29	1	0	0.37
Total/average	92,390	59,187	139,776	1

Amongst the other root and tuber crops, sweet potatoes was planted on the second large land area (2,086 ha), (Table 3.3).

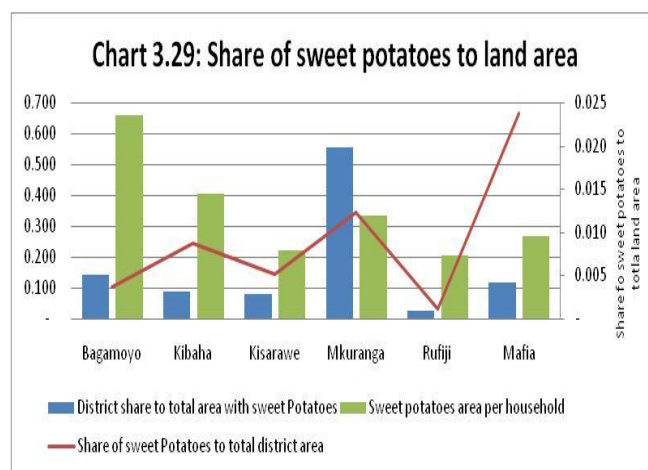
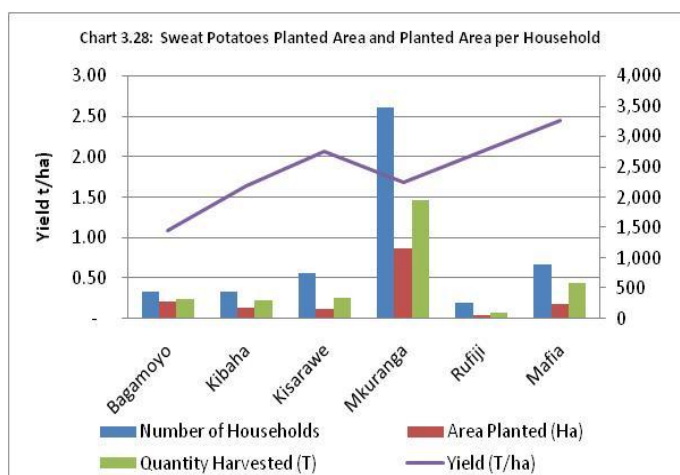
Productivity was also highest for cassava (2.4 t/ha), followed by sweet potatoes (1.73 t/ha) and yams yielded about 0.59 t/ha. Cocoyam was the crop that was grown by less than 0.5% of households that engage in roots & tuber production in small areas and consequently had the lowest production and yield.

#### 3.3.5.1 Sweet Potato

The total area planted with sweet potato in the region was 2,086 ha. The largest planted area (1,154 ha, 55.3% of total area planted with sweet potatoes in the region) was in Mkuranga district (Chart 3.28) which also had the largest number of growing households (3,471, 55.2% of growing households). Bagamoyo (292 ha, 14%) and Mafia (239 ha, 11.5%) were the districts with at least 10% of the planted area. Kibaha and Kisarawe had between 7% and 9% of the sweet potatoes

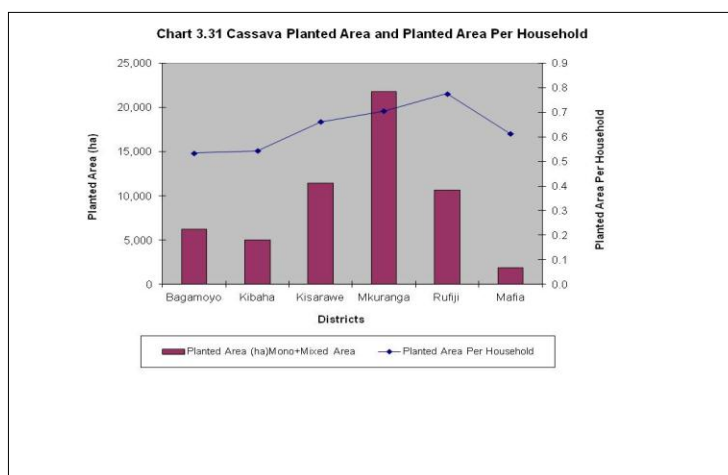
planted area while in Rufiji it was a minor crop accounting for about 2.5% of the planted area. Mafia district had the highest yield of 2.45 t/ha followed by Kisarawe (2.07 t/ha), Rufiji (2.06 t/ha), Mkuranga (1.69 t/ha), Kibaha (1.63 t/ha) and Bagamoyo (1.09 t/ha).

Generally, sweet potatoes were allocated small proportions of land for planting (Chart 3.29) which was the smallest (0.11) in Rufiji and largest in Mafia district (2.38).



### 3.3.5.2 Cassava

The total area planted with cassava in the region was 56,948 ha, and a total of 85,834 growing households planted the crop. The three most important districts for cassava production were Mkuranga (21,783 ha, 38.3% of the total area planted with cassava in the region), Kisarawe (11,430 ha, 20.1%) and Rufiji (10,637 ha, 18.7%). The three districts combined accounted for 77.1% of the total area planted with cassava in the region with the remaining 22.9% planted in Bagamoyo, Kibaha and Mafia districts.



Yields were highly variable between districts. Kisarawe gave the highest yield (4.2 t/ha) which was more than twice the yield recorded in Mafia, the district with the lowest cassava productivity at 1.2 t/ha. The total harvested cassava roots were 136,087 tons, (Table 3.3a).



**Table 3.3a Percentage of Cassava Planted Area and Planted Area per Household**

District	Number of Household	Total Area Planted (ha) Mono+Mixed Area	Quantity Harvested (tons)	Yield(t/ha)	Total Planted Area	Percent Cassava Planted Area	Proportion of Land Planted with Cassava	Planted Area per Household
Bagamoyo	11,632	6,218	12,190	2.0	78,052	14%	8%	0.53
Kibaha	9,251	5,028	10,825	2.2	20,777	11%	24%	0.54
Kisarawe	17,301	11,430	48,283	4.2	32,330	20%	35%	0.66
Mkuranga	30,916	21,783	38,494	1.8	94,014	36%	23%	0.70
Rufiji	13,712	10,637	24,153	2.3	46,470	16%	23%	0.78
Mafia	3,022	1,852	2,142	1.2	10,066	4%	18%	0.61
<b>Pwani Total</b>	<b>85,834</b>	<b>56,948</b>	<b>136,087</b>	<b>2.4</b>	<b>281,707</b>	<b>100%</b>	<b>20%</b>	<b>0.66</b>

The proportion of land planted with cassava was in the range of 35% in Kisarawe to 8% in Bagamoyo. Cassava fields were largest in Rufiji (0.78 ha/household) and smallest in Bagamoyo (0.53 ha/household), (Table 3.4).

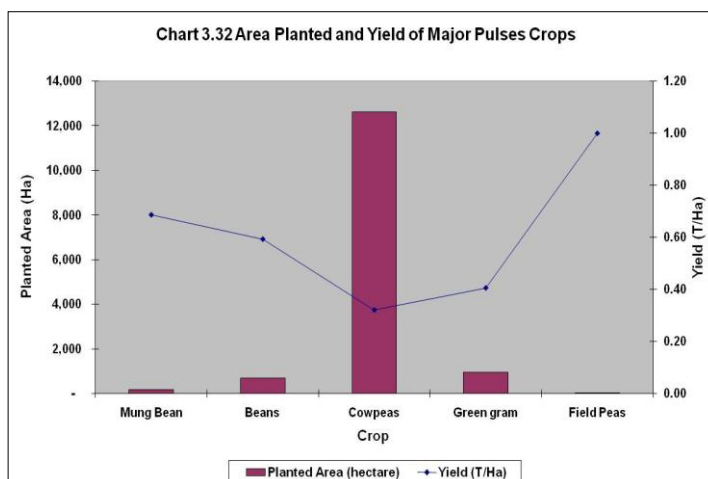
**Table 3.4 Area, production and yield of pulse crops by season in Pwani region**

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)
Beans	502.83	317.95	0.56	193.24	94.54	0.52	696.06	412.49	1.08
Cowpeas	9,043.93	2,670.17	0.34	3,571.69	1,368.49	0.50	12,615.62	4,038.67	0.84
Field peas	0	0	0	22.43	22.16	0.99	22.43	22.16	0.99
Green grams	715.49	234.90	0.50	235.31	149.31	1.84	950.80	384.21	2.34
Mung bean	153.26	105.28	0.47	0	0	0	153.26	105.28	0.47
<b>Total</b>	<b>10,415.50</b>	<b>3,328.30</b>	<b>0.37</b>	<b>4,022.66</b>	<b>1,634.51</b>	<b>0.77</b>	<b>14,438.16</b>	<b>4,962.81</b>	<b>1.14</b>

### 3.3.6 Pulse crops

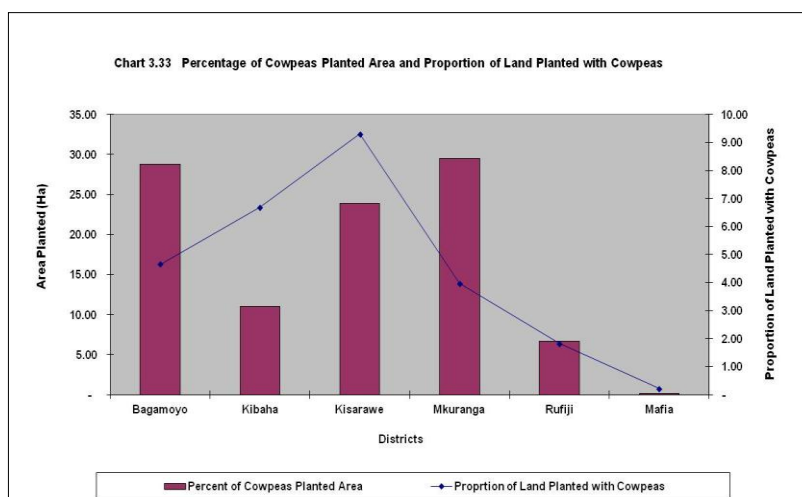
Pulses were planted on a total of 14,438.16 ha in Pwani region. The main pulse planted in the region was cowpeas planted on 12,616 ha (87% of the total area planted with pulses) and was planted by the largest number of growing households (43,612, 88.9% of all households that planted pulses). Other pulses planted in the region (Chart 3.32) but on comparatively much smaller areas were green grams (950 ha, 9%) planted by 2,245 households (4.6%) and beans (696 ha, 5%) planted by 2,717 households (5.5%). The land area planted with field peas was 22 ha.

Yields for cowpeas were an average 0.3 t/ha which was the lowest of all the pulses compared to the yield of 0.6 t/ha for beans and 0.4 t/ha for green grams. The total harvested quantities were 4,236 tons of which cowpeas alone contributed 81.4% (4,308 tons) of the total harvested pulses, with the remaining 19.6% from the other pulses combined.



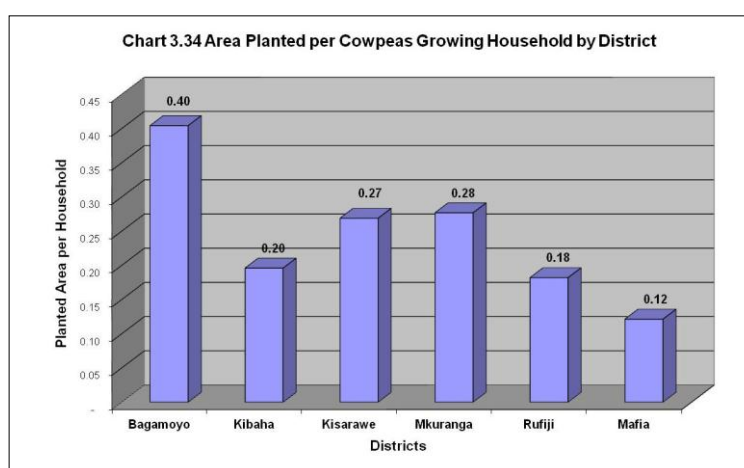
### 3.3.6.1 Cowpeas

Cowpeas were planted on a total area of 12,615 ha (87% of the total area planted with pulses), in the region, mainly in Bagamoyo, Mkuranga and Kisarawe districts (Chart 3.33). However, Kisarawe district had the largest proportion of land (9.3%) planted with cowpeas followed by Kibaha (6.7%) and Bagamoyo (4.7%).



The largest planted area was in Mkuranga district (3,725 ha, 29.5% of the total area planted with cowpeas) which was closely followed by Bagamoyo (3,629 ha, 28.8%) and Kisarawe (3,009, 23.9%). The remaining 17.8% of the planted area was mainly in Kibaha (11%) and Rufiji (6.6%). Cowpeas were least important in Mafia where the planted area accounted for a mere 0.2% of the area planted with cowpeas in the region. The number of households that planted the crop in each district followed a similar trend to that of area planted.

Cowpeas productivity in all districts was below half a ton per hectare. The highest yields were in Kibaha (0.43 t/ha) and lowest in Mkuranga (0.24 t/ha). Hence, despite the relatively large area planted with cowpeas, the total harvested grains were 4,038.7 tons of which nearly one third was from Bagamoyo (1,265.4 tons, 31.3)



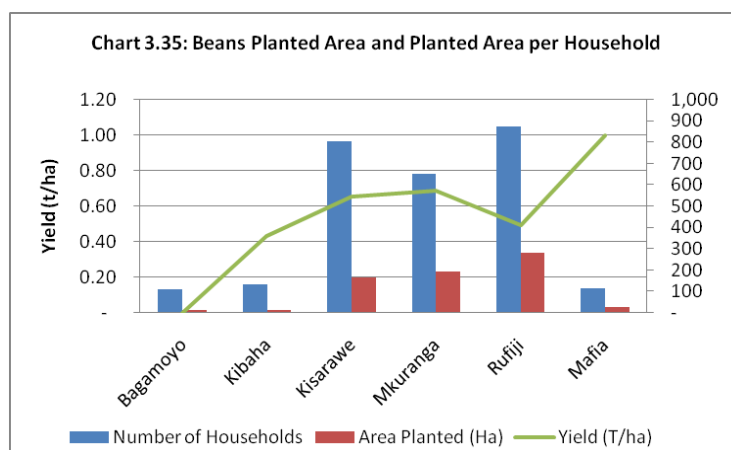
and other major contributors were Kisarawe (956.3 tons, 23.7%) and Mkuranga (900.2 tons, 22.3%). Cowpeas were generally planted on small holdings (Chart 3.34) the largest (0.32 ha/household) was recorded in Bagamoyo (0.4ha/hh) and the smallest in Kibaha (0.20 ha/hh).



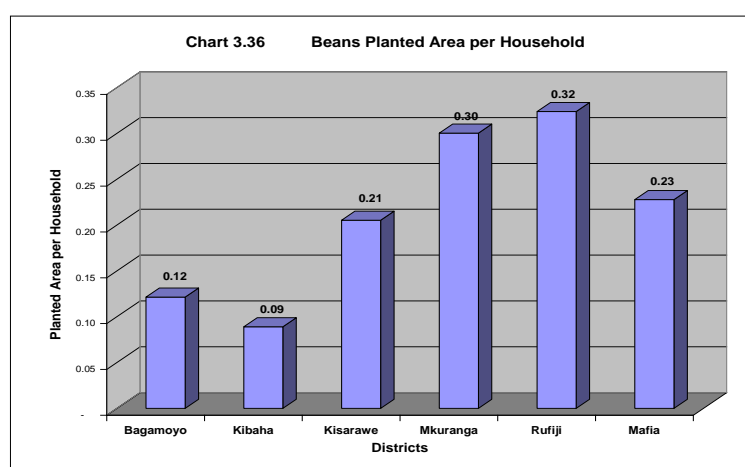
### 3.3.6.2 Beans Production

Beans were planted on a total of 696 ha (4.8% of total area planted with pulses) by about 5.5% (2,694 households) of households that planted pulses.

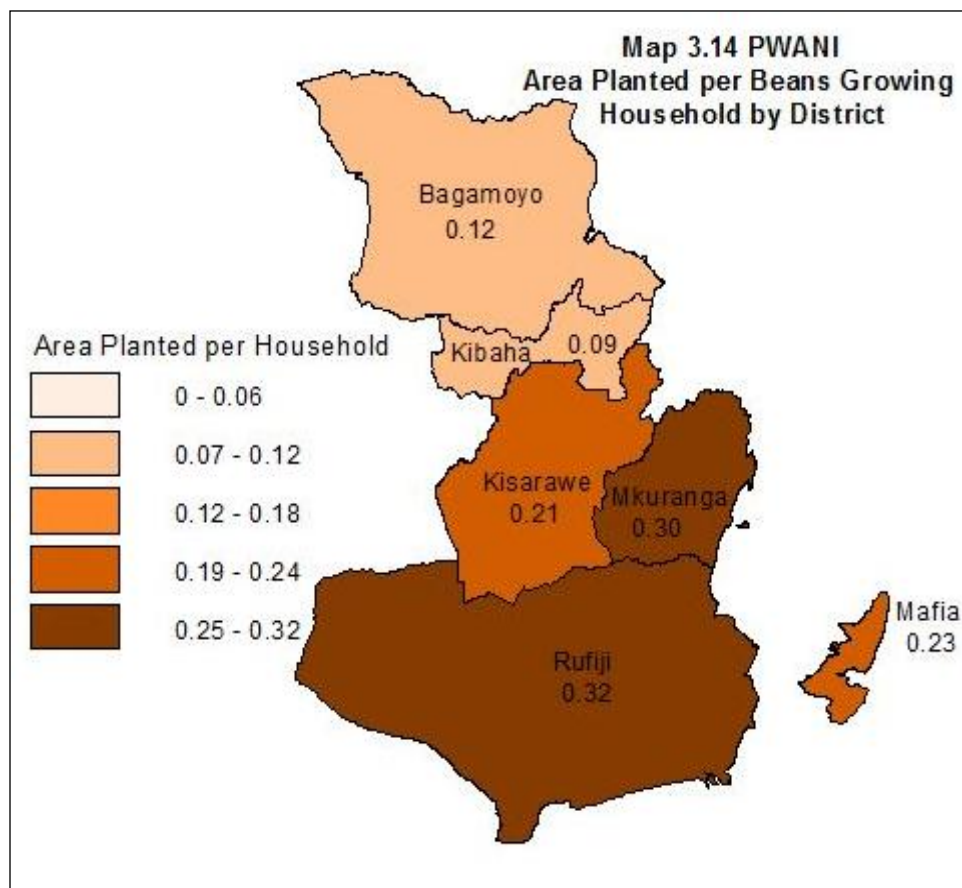
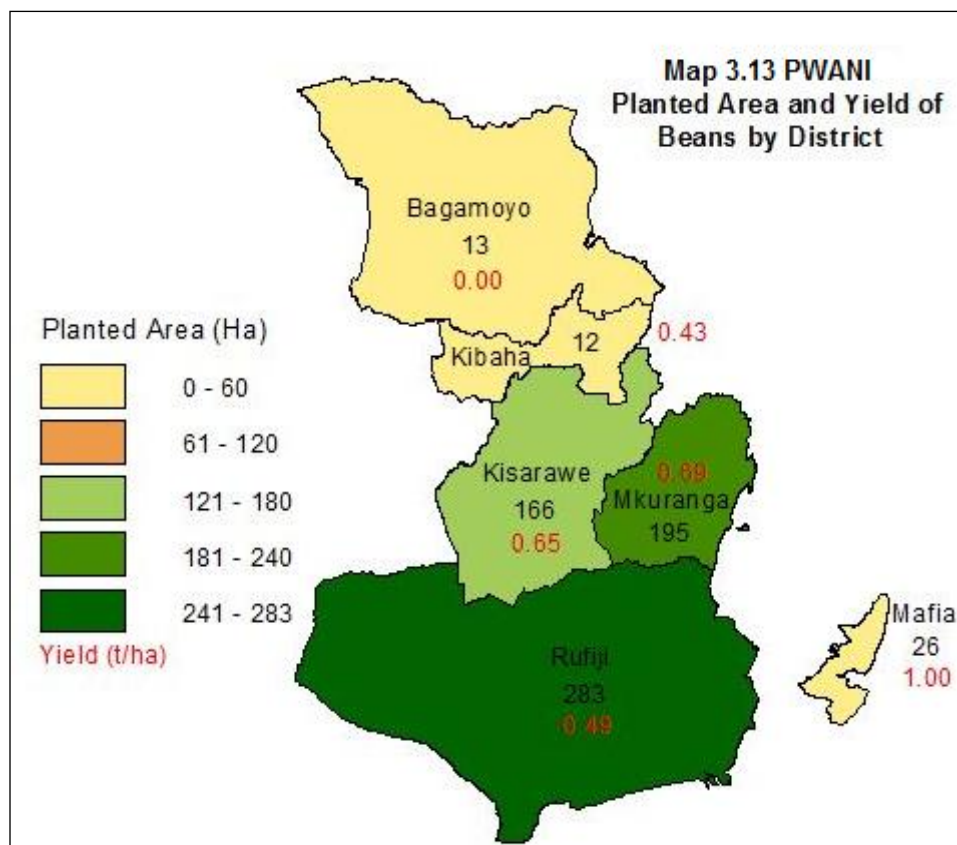
Beans were planted in all districts. Rufiji was the leading district for bean production with 283 ha planted (40.7%) out of the total 696 ha under beans, in the region and having the largest proportion of land planted with the crop (Chart 3.35, Map 3.13). Other districts where beans were an important crop were Mkuranga (195 ha, 28%) and Kisarawe (166 ha, 23.9%).



Planted area per household were small in all districts (Chart 3.36 and Map 3.14) and hardly exceeded 0.5 ha/household. The largest planted area was in Rufiji district (0.32 ha) and the smallest land planted area per household was in Kibaha district (0.09 ha/household).

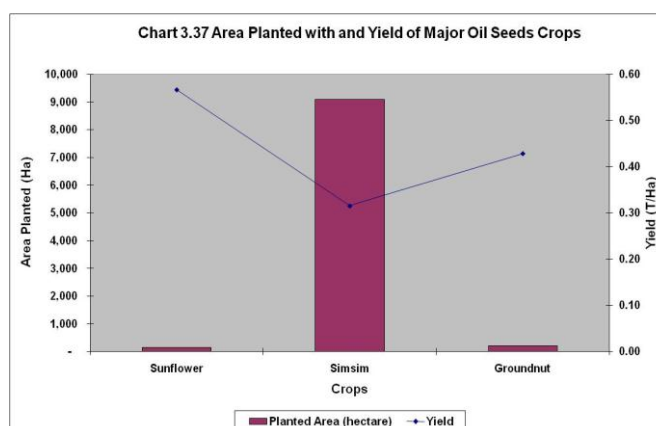


A total of 412.5 tons of beans were harvested. Significant proportions of the harvested grains were from Rufiji (32.9% of total harvest grains), Mkuranga (32.6%) and Kisarawe (26.1%). Much smaller volumes were harvested from the other districts.



### 3.3.7 Oil Seeds and Oil Nuts Production

Oil seed and oil nut crops were planted on a total of 9,428 ha (equivalent to about 6.6% of the total planted area in the region). The largest part of the area planted with oil seed crops was planted with simsim comprising of 9,088 ha equivalent to 96.4% of the total area planted with this category of crops (Table 3.5 and Chart 3.30). Other oil seed crops planted included groundnut and sunflower but both were minor crops each planted on less than 200 ha. About 7,615 households (89.8% of the total 8,477 that planted oil seed crops), planted simsim, while groundnut and sunflower combined were planted by a total of 860 households (10.1%).



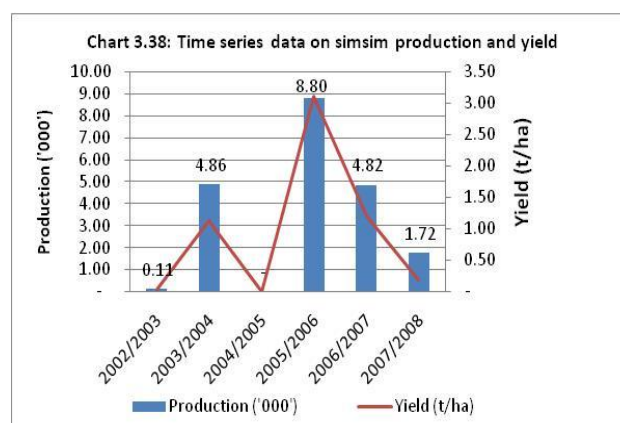
**Table 3.5: Area, Quantity Harvested and Yield of Oil seed Crops by Season in Pwani region**

Crop	Long rainy season			Short rainy season			TOTAL		
	Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Groundnut	61.24	36.36	0.59	134.58	47.80	0.45	195.82	84.17	0.51
Simsim	8,340.69	2,598.87	0.35	748.22	267.18	0.33	9,088.91	2,866.04	0.34
Sunflower	131.03	80.13	0.71	11.67	0.58	0.05	142.70	80.71	0.49
TOTAL	8,532.96	2,715.36	0.48	894.47	315.56	0.34	9,427.43	3,030.92	0.41

Compared to 2002/03, simsim has continued to be the most important oil seed crop and production seems to have expanded in the area planted and number of households involved. In 2002/03 Simsim was the most important oilseed crop with 2,552 ha planted (87.4% of the total area planted with oil seeds), followed by groundnuts 11.7%), sunflower (0.7%) and soya beans (0.2%), the latter was not recorded in this census. However, productivity was highest for groundnuts with a yield average of (0.51 t/ha) followed by sunflower (0.49 t/ha) and lastly simsim (0.34 t/ha). The harvested quantities for oil seeds and oil nut crops were 3,031 tons, of which simsim was the single largest contributor (2,866 tons, 94.6%).

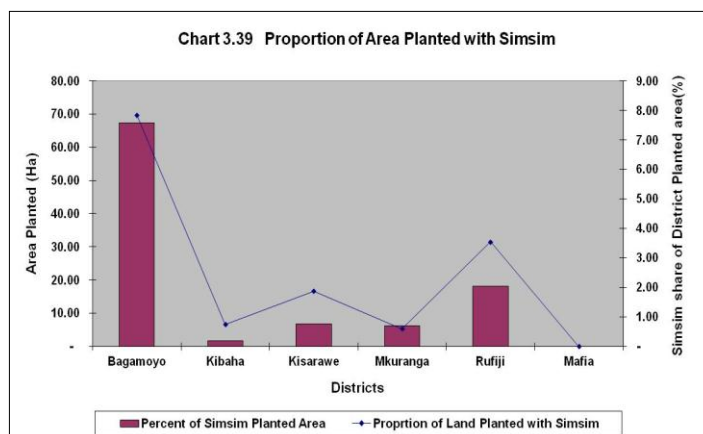
#### 3.3.7.1 Simsim Production

Simsim production and yield in Pwani region has been of an undulating trend with minimum production observed in 2002/3, 2004/5 and 2007/8 cropping seasons. Increases in production were observed in 2003/4 with the highest recorded amounts (8,800tons) in 2005/6 cropping seasons (Chart 3.38).

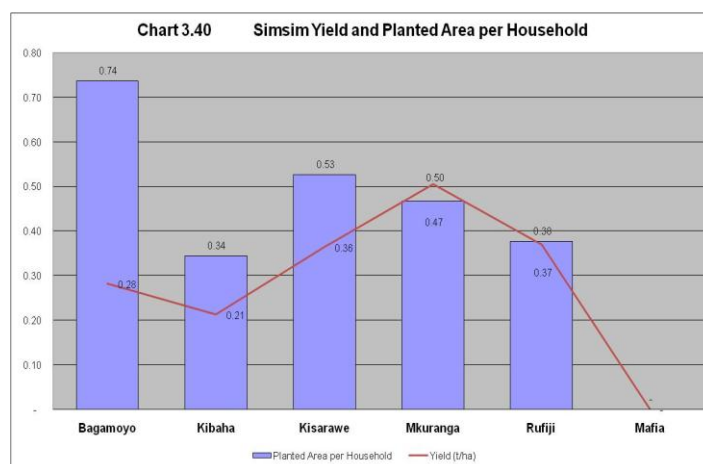


The total area planted with simsim was 6,089 ha, equivalent to 4.3% of the total planted area or 64.6% of the 9,428 ha that were planted with oil seed and oil nut crops in the region. Simsim was planted in all districts except Mafia by a total of 15,474 households.

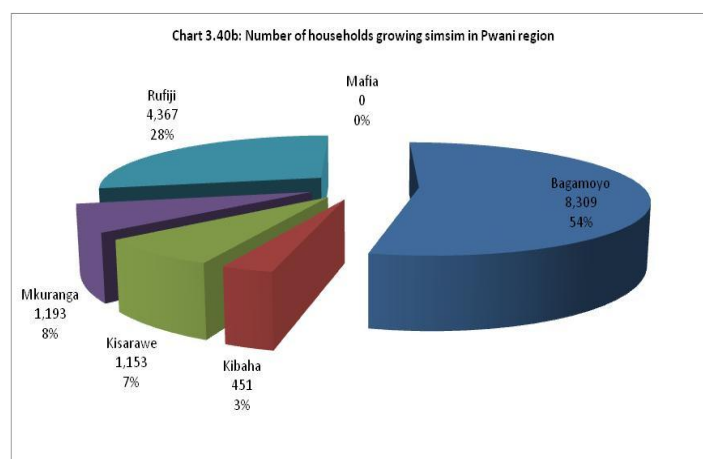
Bagamoyo district had the largest planted area (6,121 ha, 67.3% of the total area planted with simsim) and the largest proportion of land planted with the crop (7.84). In the other districts, 1,647 ha (18.1%) were planted in Rufiji, 607 ha (6.7%) were planted in Kisarawe and 556ha (6.1%) were planted in Mkuranga. The area planted with simsim in Kibaha district was the smallest (155 ha) which accounted for a mere 1.7% of the planted area (Chart 3.39).



As can be seen from (Chart 3.40, Chart 3.40b, yields were highest in Mkuranga (0.5 t/ha) and lowest in Kibaha (0.21 t/ha). Simsim was planted by the largest number of households in Bagamoyo district (8,309, 53.7%) compared to the other districts. In Rufiji the crop was planted by 4,367 households (28.2%), followed by Mkuranga (1,193 households, 7.7%) and Kisarawe (1,153 households, 7.5%). The number of growing households was lowest in Kibaha (451, 2.9%).



The planted area per household was largest in Bagamoyo (0.74 ha), and smallest in Kibaha (0.34 ha). In Mkuranga and Kisarawe districts, the planted areas per household were in between the two extremes.



### 3.3.8 Fruits and Vegetables

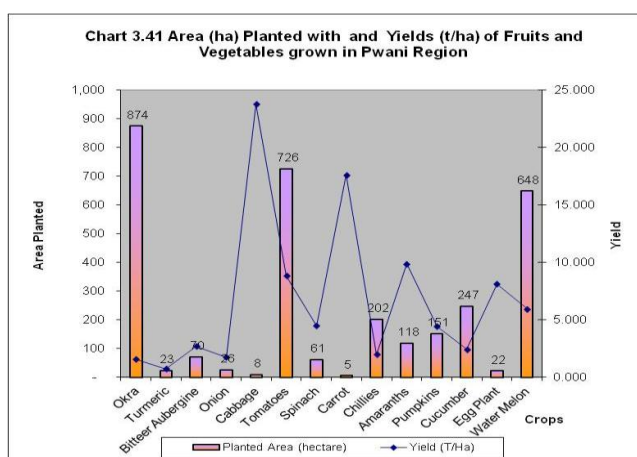
A wide range of fruits and vegetables were recorded in Pwani region, most of which were the annual or temporary crops on about 3,179 ha (Table 3.6).

**Table 3.6 Area, production and yield of fruits and vegetables by season in Pwani region**

Crop	Long Rainy Season			Short Rainy Season			TOTAL		
	Planted Area (ha)	Quantity Harvested	Yield (tons/ha)	Planted Area (ha)	Quantity Harvested	Yield (tons/ha)	Planted Area (ha)	Quantity Harvested	Yield (tons/ha)
Amaranth	41.29	388.78	7.84	77.65	774.72	9.54	118.94	1,163.50	8.90
Bitter Aubergine	53.05	25.73	1.17	17.57	162.72	9.26	70.62	188.45	3.87
Cabbage	7.37	190.16	21.02	-	-	-	7.37	190.16	21.02
Carrot	4.57	88.27	19.33	-	-	-	4.57	88.27	19.33
Chillies	32.70	83.39	2.60	168.54	316.98	1.83	201.24	400.36	2.21
Cucumber	101.19	205.13	5.82	144.93	391.60	2.70	246.12	596.73	4.78
Egg Plant	18.27	176.00	9.63	3.53	1.89	0.54	21.80	177.89	5.08
Okra	439.28	802.52	1.38	435.06	546.36	1.46	874.34	1,348.88	1.42
Onion	16.24	43.48	3.99	8.84	0.70	0.08	25.08	44.18	2.69
Pumpkins	39.95	313.58	4.11	110.78	355.47	7.48	150.74	669.04	6.22
Spinach	12.17	27.65	1.58	49.01	244.73	6.01	61.18	272.39	3.79
Tomatoes	389.53	4,410.69	11.24	337.56	1,990.69	5.88	727.09	6,401.38	8.32
Turmeric	23.35	17.30	0.74	-	-	-	23.35	17.30	0.74
Water Mellon	158.28	742.20	12.12	488.94	3,098.35	6.62	647.22	3,840.55	9.37
<b>TOTAL</b>	<b>1,337.25</b>	<b>7,514.88</b>	<b>6.86</b>	<b>1,842.40</b>	<b>7,884.21</b>	<b>5.47</b>	<b>3,179.65</b>	<b>15,399.09</b>	<b>6.19</b>

The three most dominant vegetable crops which covered about 71% of the area planted with fruits and vegetables, in order of decreasing acreage, were okra (874 ha, 27.5% of total area planted with fruits and vegetables in the region), tomatoes (726 ha, 22.8%) and water melon (648 ha, 20.4%).

The remaining 29% of the planted area (921.9 ha) were planted with a wide range of other



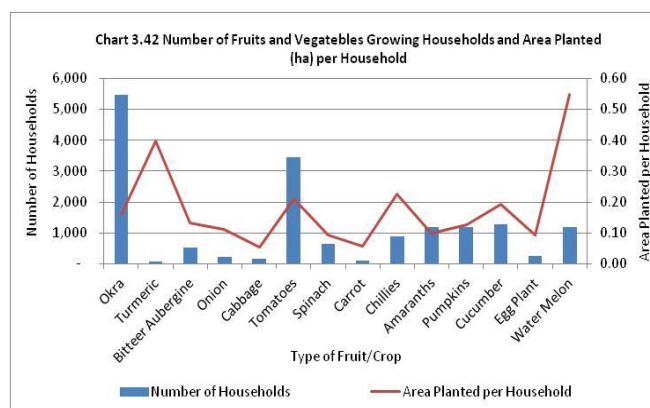
fruit and vegetable crops of which cucumber, chillies, pumpkins and amaranths were each planted on at least 100 ha. Other minor fruit and vegetable crops were on land areas less than 100 ha thus considered to be insignificant, (Chart 3.41).

Yields were variable but most of the fruit and vegetable crops gave less than 5 t/ha (Chart 3.41, Table 3.6). The five most productive vegetable crops were cabbage (23.8 t/ha), carrot (17.6 t/ha), amaranths (9.9 t/ha), tomatoes (8.8 t/ha) and egg plant (5.1 t/ha). Okra was the second least productive (1.5 t/ha) despite its area coverage and popularity amongst growers.

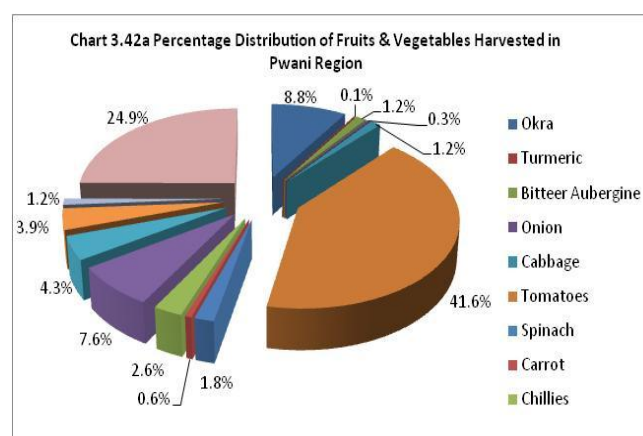


While the range of fruits and vegetables in this census is similar to the situation in 2002/03, tomato which was the most important crop in this category and planted on the largest area in 2002/03, has been surpassed by okra and likewise, water melon has dropped down to third most important crop in this category.

About 16,598 households planted one or more fruit and vegetable crop in the region (Chart 3.42). This was equivalent to 11.3% of the crops-only households of which the largest number (5,462 households, 32.9%) planted okra (Table 3.10) followed by tomato (3,442 households, 20.7%). Other fruit and vegetable crops planted by at least 5% of the households were cucumber (1,283, 7.7%), amaranths (1,197 households, 7.2%), pumpkins (1,185 households, 7.1%), water melon (1,181 households, 7.1%) and chilies (895 households, 5.4%). Land areas planted with fruits and vegetables were generally small. Households that planted the largest plots were in Mafia (0.3 ha/household) and smallest in Mkuranga (0.18 ha/household).

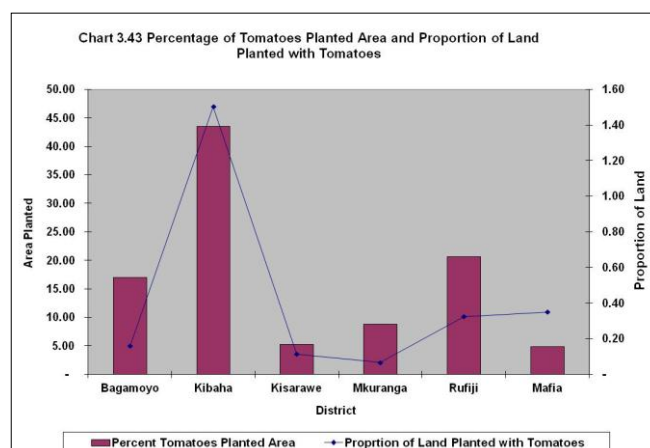


About two thirds (66.5%) of the total 15,399 tons harvested produce (Chart 3.42a) was from tomatoes (6,402 tons, 41.6%) and water melon (3,840 tons, 24.9%). Other crops that contributed at least 5% of the total harvested produce were okra (1,349 tons, 8.8%) and amaranths (1,164 tons, 7.5%). All other crops contributed minor quantities to the total harvested produce.



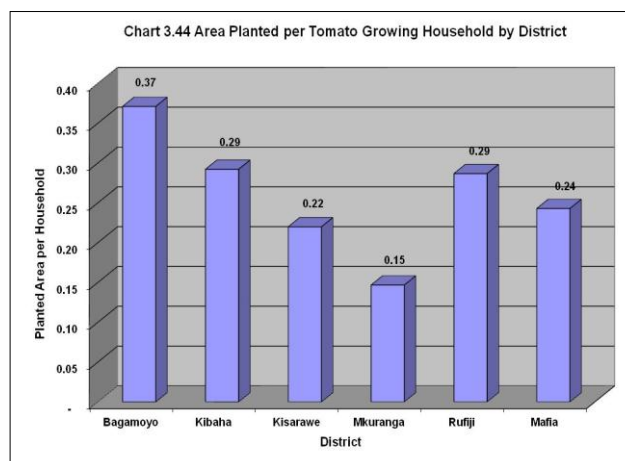
### 3.3.8.1 Tomato

The total area planted with tomato was 726 ha of which the major part (316 ha, 43.5% of total area planted with tomato) was in Kibaha (Chart 3.43 and Map 3.15), followed by Rufiji (150 ha, 20.6%) and Bagamoyo (123 ha,



16.9%). Mkuranga, Kisarawe and Mafia districts had very small areas planted with the crop (less than 100 ha in each district). However, in terms of land allocation (Chart 3.44) Kibaha was the only district in the region where tomatoes occupied a relatively large proportion of land (1.5%) relative to the total planted area.

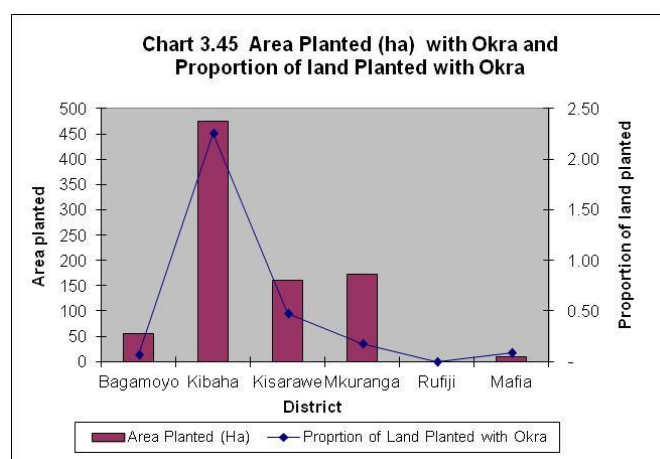
About 2,692 households planted tomatoes in the region. The number of households that planted tomato was also highest in Kibaha (1,083 households, 40.5%) followed by Rufiji (524 households, 19.5%) and Mkuranga (434 households, 16.1%). In Bagamoyo, 332 households (12.3%) planted tomatoes while in Kisarawe and Mafia, the crop was planted by less than 10% of the total number of households, (Chart 3.44).



A total of 6,401.4 tons were harvested contributed mainly by Kibaha district (2,331.9 tons, 36.4%) and Rufiji (2,304.4 tons, 36%). The remaining 27.6% of the total harvested tomatoes were contributed by the other four districts combined. The productivity of tomatoes was highly variable between districts (Map 3.15). The two most productive districts were Kisarawe (17.8 t/ha) and Rufiji (15.3 t/ha). Yields in Kibaha and Bagamoyo districts were less than half that of Kisarawe at 7.4 and 7.1 t/ha for Kibaha and Bagamoyo, respectively. Mkuranga district had the lowest tomato yields (1.9 t/ha). Planted area per household was generally small in the range of 0.2 ha/household in Mkuranga to 0.4 ha/household in Bagamoyo, (Chart 3.44 and Map 16).

### 3.3.8.2 Okra

In the region, a total of 874 ha were planted with okra (Chart 3.45) of which the largest planted area was in Kibaha district (476 ha, 54.5% of the total area planted with okra), followed by Mkuranga (173 ha, 19.8%) and Kisarawe (160 ha, 18.3%). Okra was planted on relatively smaller land areas in Bagamoyo and Mafia and not at all in Rufiji. Comparatively, Kibaha district also allocated the greatest



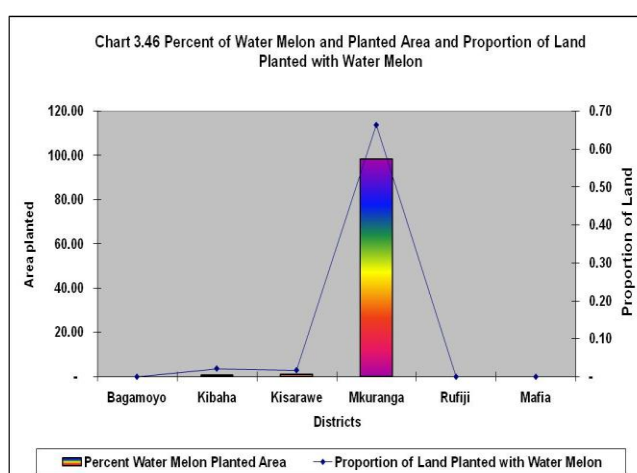
proportion of the planted area to okra (2.3%) while all other growing districts had 0.5% or less of the planted area allocated for okra production.

Yields were highly variable between districts ranging from less than half ton to more than 2 tons per hectare (Map 3.22). The highest yields were recorded in mafia (2.5 t/ha) followed by Kibaha (2.1 t/ha), Bagamoyo (1.3 t/ha) and Mkuranga (1 t/ha). Yields were lowest in Kisarawe (0.4 t/ha). However, Kibaha district alone accounted for 75.5% (1,019 tons) of the total harvested produce in the region and Mkuranga contributed another 12.4% (166.6 tons). Minor quantities were produced in Bagamoyo and Kisarawe districts.

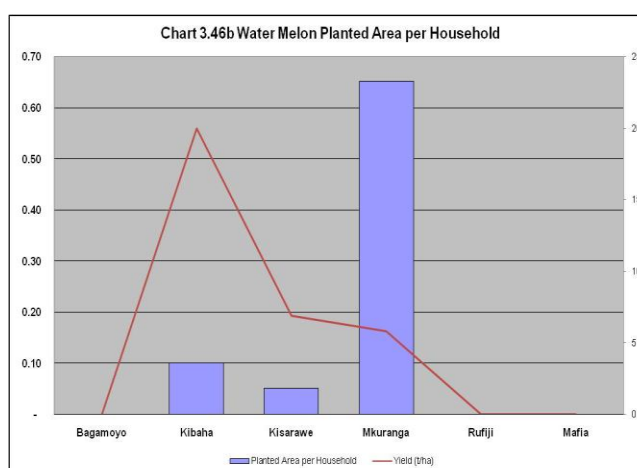
Okra was generally planted on small plots. The area planted with okra per household was in the range of 0.19 ha in Kisarawe and 0.30 ha in Mafia.

### 3.3.8.3 Watermelon

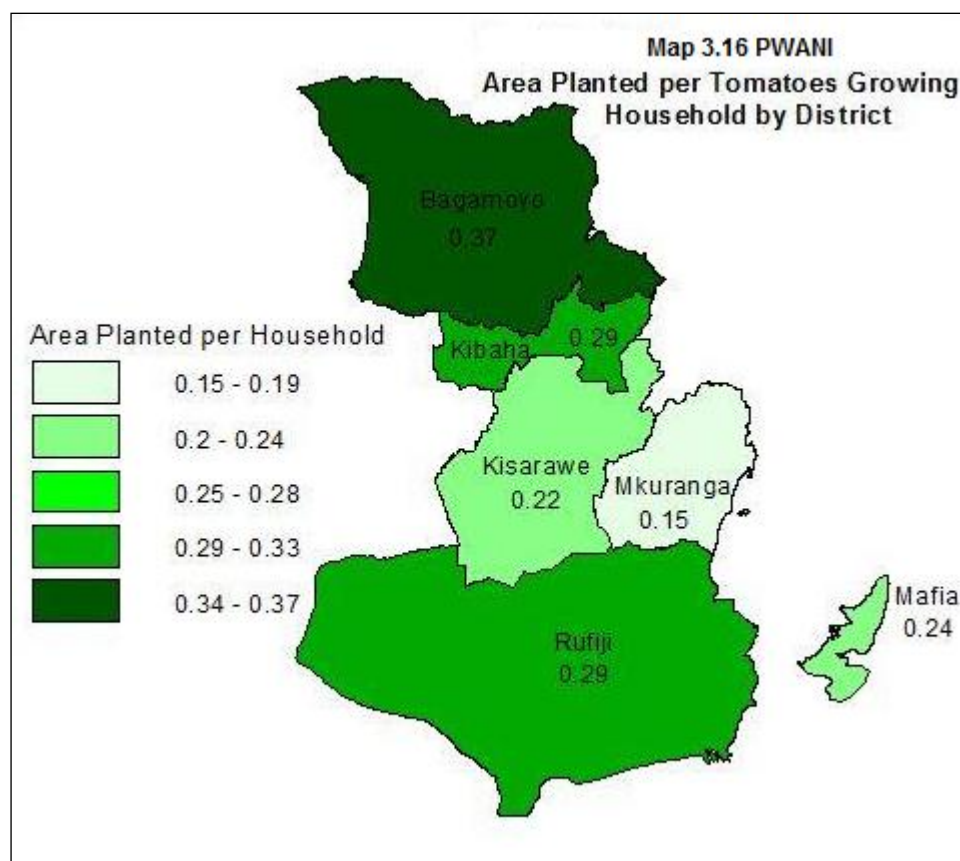
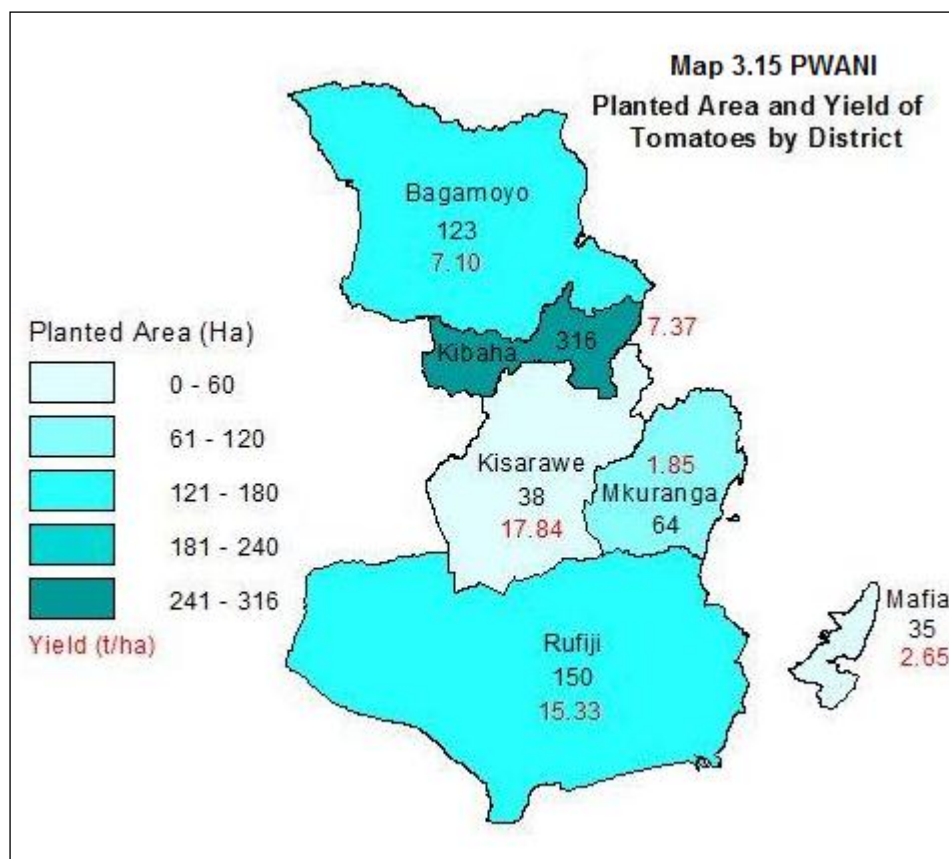
A total of 647 ha were planted with water melon in the region. Mkuranga was the major growing district with 637 ha planted, equivalent to 98.5% of the total area planted with water melon (Chart 3.46). In the district, 976 households that planted water melon were equivalent to 85.8% of the growing households in the region. Water melons were not planted in Bagamoyo, Rufiji and Mafia districts.



Yields were highest in Kibaha (20 t/ha) followed by Kisarawe (6.9 t/ha) while Mkuranga district had the lowest yields (5.8 t/ha). However, due to the large planted area, Mkuranga district accounted for 96.6% (3,708.8 tons) of the total 3,840.6 tons that were harvested in the regionharvested produce. Generally, water melons were planted in small holdings (Chart 3.46b). Mkuranga district had the largest planted area per household (0.65 ha) with much smaller areas planted in Kibaha (0.10 ha) and Kisarawe (0.05 ha)







### 3.3.9 Production of Other Annual Crops

Other annual crops were planted on a total of 332 ha (Chart 3.47). The crops which were used primarily as cash crops were cotton (314 ha, 95% of the area planted with other annual crops) and jute (18 ha, 5%)

Chart 3.47 Annual Crops Planted Area (hectare)

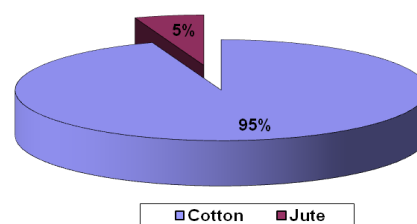


Table 3.7 Area, Production, Yield and Number of Main Perennial Crops Growing Households

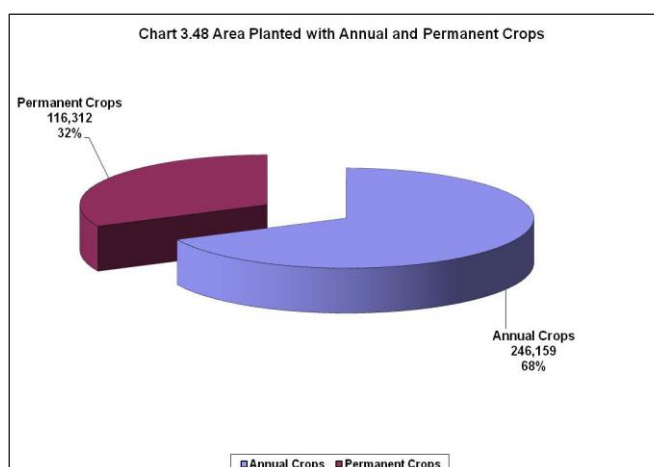
Crop	Total Area Planted (ha) Mono+Mixed Area		Area Harvested (ha)	Quantity Harvested (tons)	Yield (tons/Ha)	Area per Household
	Number of Households	Area				
Cashewnut	56,037	109,112	23,987	21,549	0.90	1.95
Banana	18,958	4,479	3,490	14,935	4.28	0.24
Mango	19,264	7,819	4,525	9,116	2.01	0.41
Pigeon pea	8,053	3,435	2,699	757	0.28	0.43
Coconut	38,707	43,215	20,459	30,598	1.50	1.12
Orange	27,099	11,123	7,915	44,856	5.67	0.41
Sugarcane	723	188	162	1,201	7.41	0.26
Palm Oil	3,655	640	485	774	1.59	0.18
Other	112,304	66,147.93	53,513.36	168,448.54	3.15	0.59
<b>TOTAL</b>	<b>284,800</b>	<b>246,159</b>	<b>117,237</b>	<b>292,234</b>	<b>2.49</b>	<b>0.86</b>

### 3.4 Permanent/Perrenial Crops

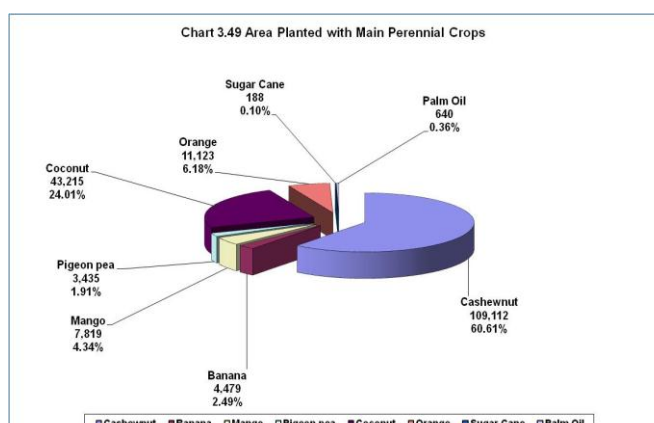
Permanent crops, are the type of crops that normally take over a year to produce harvestable parts and continue to produce harvestable parts for a number of years. For most crops, it is easy to determine if they are annual or perennial. However, for crops like cassava and bananas, the distinction is not so clear. Cassava has varieties that mature within a year and produce only once. There are other varieties that survive for more than one year and are harvested for more than one year. In this census therefore, cassava is treated as an annual crop. Conversely, bananas take more than a year to mature but survive for more than one year and therefore they are treated as perennial crops.

In this report, the agricultural census results are presented for the most important permanent crops in terms of production, area planted and yield. The crops covered are cashenuts, banana, mango, pigeon peas, coconut, sugar, palm oil and others, (Table 3.7).

The allocation of land between annual and perennial crops (Chart 3.48) was about two thirds for annual crops (246,159 ha, 68%) and one third for perennial crops (116,312 ha, 32%). Perennial crops, also referred to as permanent crops, 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. In this report, crops that would normally mature and produce within one growing season or one year but they are able to remain in the field and continue producing over several seasons have been discussed under this section. Examples of crops of this nature include pigeon peas and bananas.

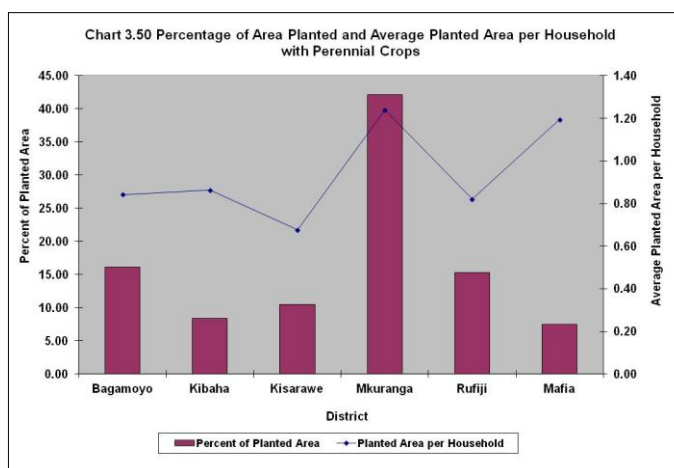


A wide range of perennial crops were planted, (Chart 3.49) of which cashewnut was planted on the largest area (109,112 ha, 60.6 % of the area planted with permanent crops). Other perennial crops that occupied at least 5% of the planted area were coconut (43,215 ha, 24%)



and oranges (11,123 ha, 6.2%). This trend is similar to the situation in 2002/03. In this census, perennial crops planted on much smaller areas were mango (7,819 ha, 4.3%) and banana (4,479 ha, 2.5%) while the area planted with pigeon peas, palm oil or sugarcane were negligible.

Mkuranga district, (Chart 3.50) had the largest area planted with perennial crops (26,764 ha, 42.1% of the total area planted with perennial crops in the region) followed by Bagamoyo (10,261 ha, 16.2%) and thirdly Rufiji (9,740 ha, 15.3%). All other remaining districts had between 7.5 and 10.5% of the total area planted with perennial crops in the region.

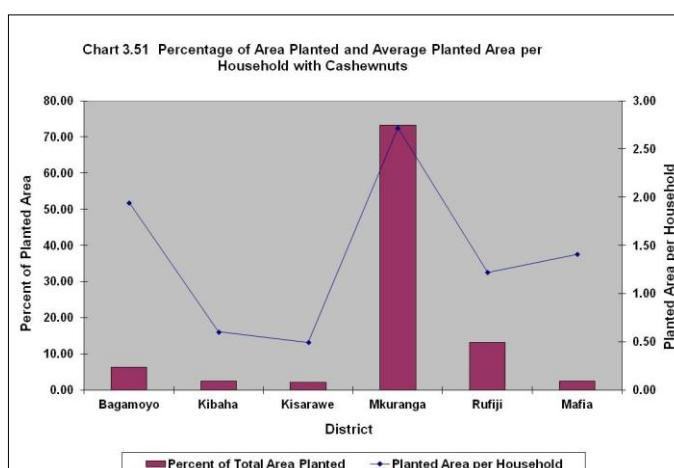


Within the region, a total of 65,676 households planted one or more perennial crops with Mkuranga district having the largest number of households growing perennial crops (21,587, 32.9%) and Mafia having the smallest number of households (3,981, 6.1%) undertaking perennial crop production.

The average planted area per household, (Chart 3.50) was less than a hectare in all except Mkuranga (1.24 ha – also the largest) and Mafia (1.19 ha). There were small variations in the planted area per household in all other districts but generally remained in the range of 0.68 to 0.86 ha.

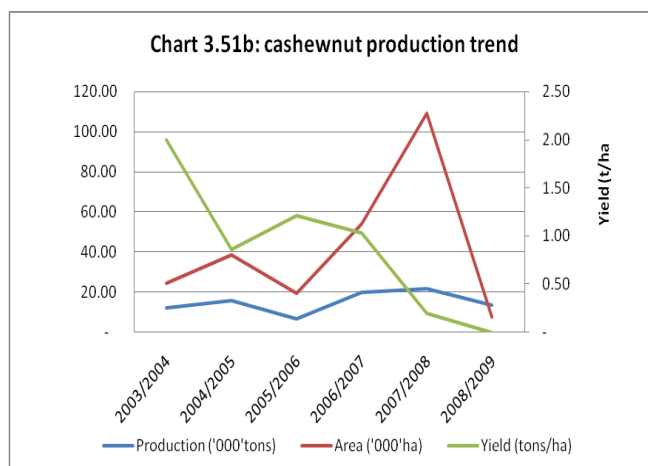
### 3.4.1 Cashewnut

The total area planted with cashewnut in the region was 109,112 ha (83.4% of the total planted area in the region). Mkuranga was the single most important district for cashewnut production in the region (Chart 3.51, Map 3.17). The total area planted with cashewnut in Mkuranga was 79,988 ha (73.3% of the total area planted with the crop) followed by



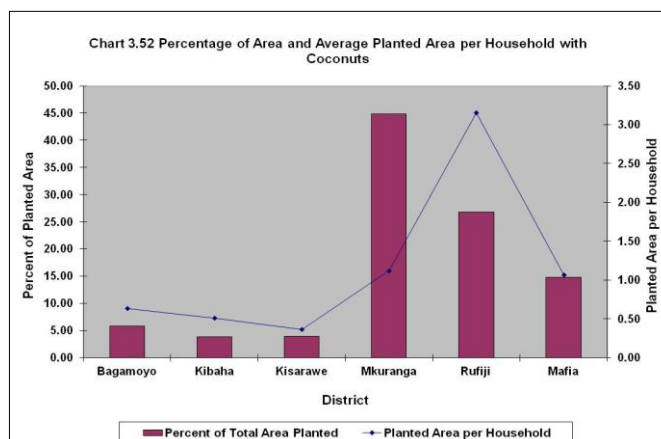
Rufiji (14,378, 13.2%). The remaining 13.5% of the planted area (14,746 ha) was the combined planted area for Bagamoyo, Kibaha, Kisarawe and Mafia districts.

Planted area per household (Map 3.18) was largest in Mkuranga district (2.7 ha/household) followed by Bagamoyo (1.9 ha) and mafia (1.4 ha). Farmers planted smaller areas in the remaining districts, the smallest was in Kisarawe (0.5 ha/household). As compared to the last census, cashew production has experienced an undulating trend in area, production and yield (Chart 3.51b). Production and area has had its maximum in year 2007/8 and minimum in 2005/6. In the same years, yield was experiencing inverse proportion to production and area under production. It was increasing whenever area under production and decreased whenever area under production increased.



### 3.4.2 Coconuts

The area planted with coconut in the region was 43,215 ha equivalent to 30.3% of the total planted area in the region). Coconut was planted in all districts in variable proportions (Chart 3.52, Table 3.12). Mkuranga district had the largest planted area (19,362 ha, 44.8% of the total area planted with coconut in the region).



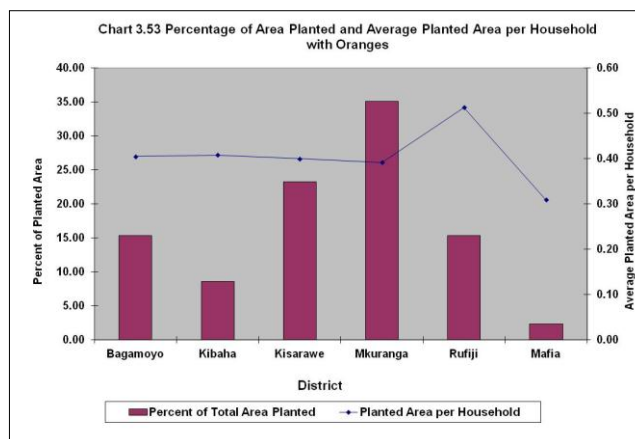
Other districts in which coconut was planted on an area equivalent to 5% or more of the total planted area were Rufiji (11,579ha, 26.8%), Mafia (6,389 ha, 14.8%) and Bagamoyo (2,532 ha, 5.9%). Kibaha and Kisarawe districts accounted for the remaining 7.7% (3,353 ha) of the planted area distributed in almost equal proportions (Map 3.19).

About 26.4% (38,707 households) of the crops-only households planted coconuts of which 17,248 households (44.6%) were in Mkuranga district. The planted area per household was generally small except in Rufiji where coconut holdings per household were the largest at 3.2 ha followed by Mkuranga and Mafia where planted areas per household were an average 1.1 ha, (Chart 3.52 and

map 3.20). In the other remaining districts districts, planted areas were smaller in the range of 0.4 to 0.6 ha/household.

### 3.4.3 Oranges

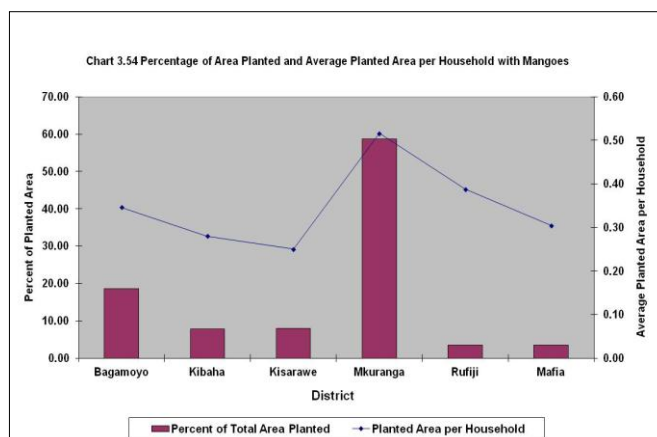
Oranges were planted in all districts (Table 3.13 and Chart 3.53) and the total planted area in the region was 11,123 ha (7.8% of the total planted area in the region). The largest planted area was in Mkuranga (3,906 ha, 35.1% of the total area planted with oranges in the region) followed by Kisarawe (2,591 ha, 23.3%). Rufiji and Bagamoyo each had 15.3% of the coconut planted area while a much smaller land area was planted with oranges in Mafia district.



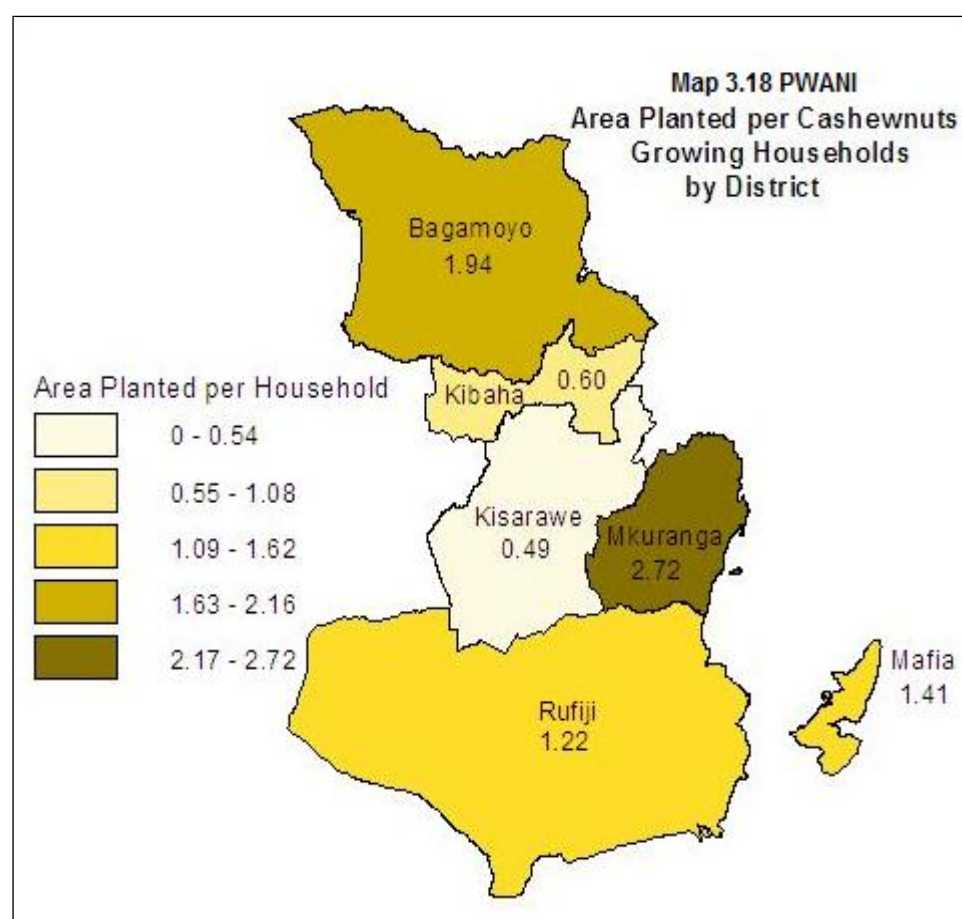
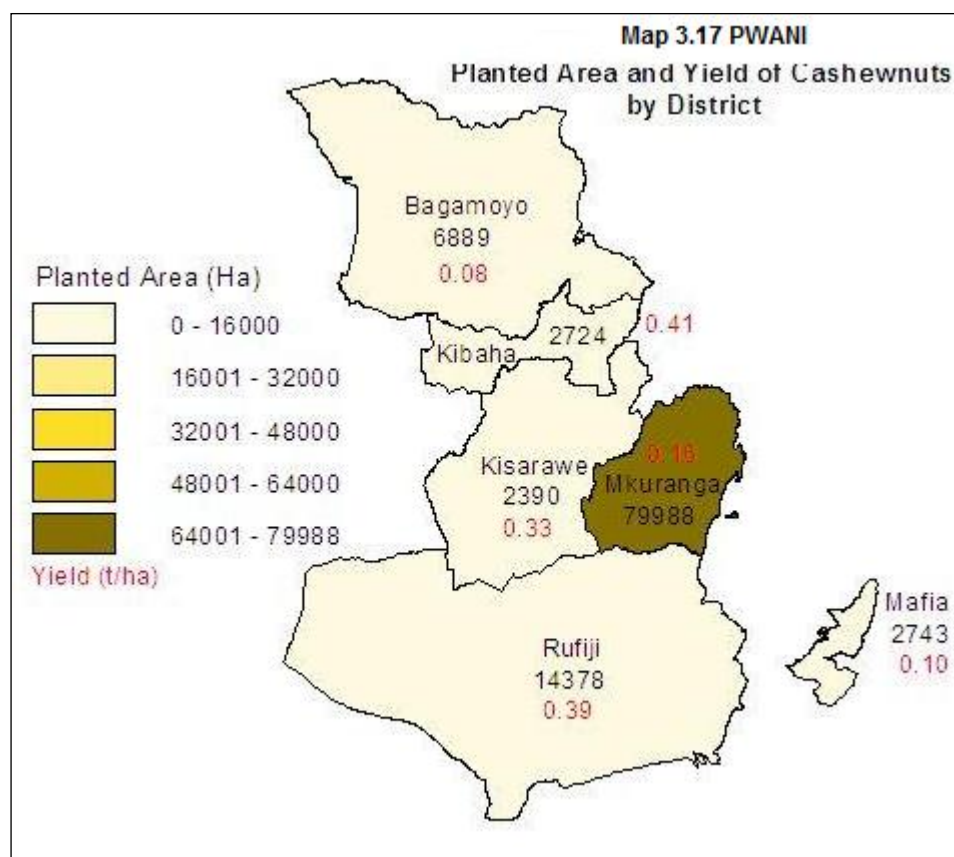
Orange yields were highest in Kibaha district (6.5 t/ha) followed by Kisarawe (6.1 t/ha) and Rufiji (4.4 t/ha). Orange yields were less than half that of Kibaha in all other districts and was lowest in Bagamoyo (1.2 t/ha). Orange growing households were mostly in Mkuranga (9,980, 36.8%) as well as in Kisarawe (6,401, 23.6%), Bagamoyo (4,210, 15.5%) and Rufiji (3,319, 12.2%) districts. However, the planted area per household in all districts was within a narrow range; the largest planted area per household was 0.5 ha in Rufiji district and the smallest was 0.3 ha in Mafia, (Map 3.28)

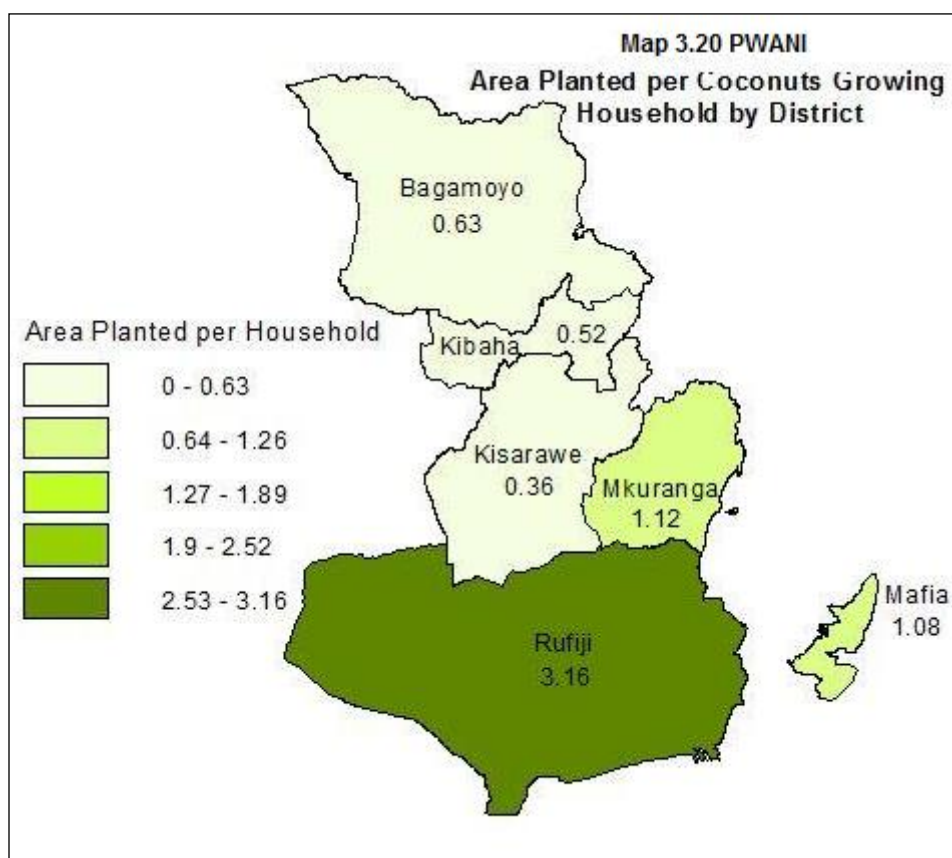
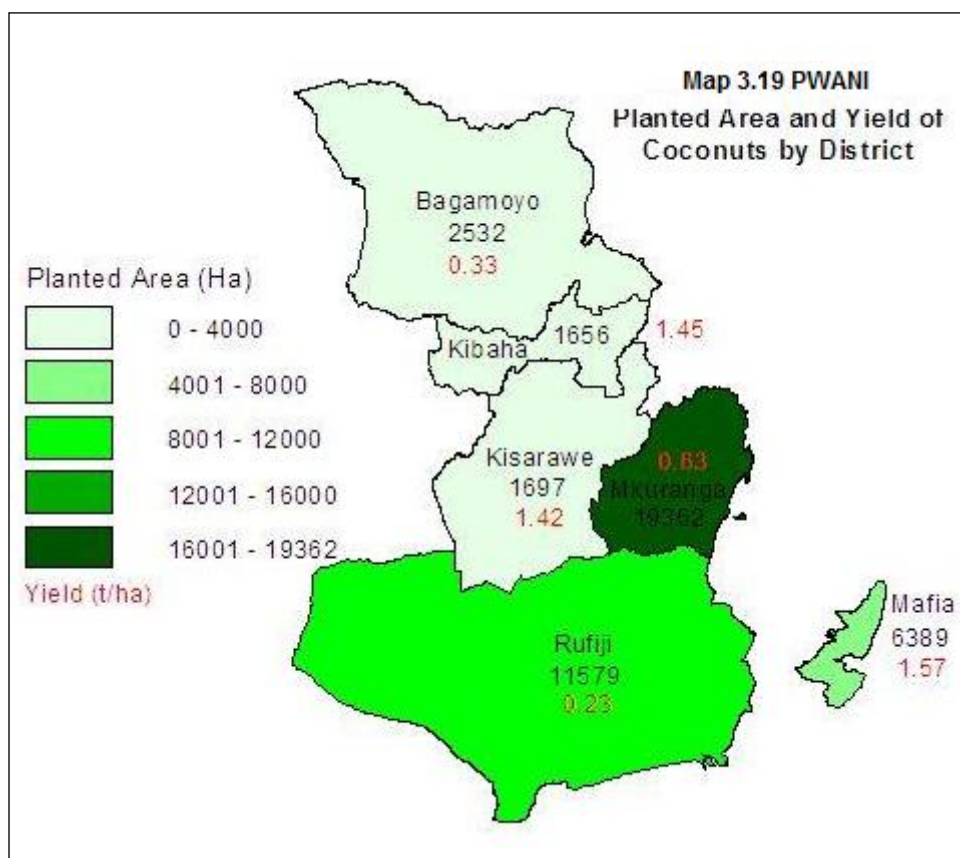
### 3.4.4 Mangoes

Mango was planted on a total of 7,819 ha (5.5% of the total planted area) of which 4,593 ha, (58.7% of the total areas planted with mango in the region) was in Mkuranga (Table 3.14, Chart 3.54) and another 1,456 ha (18.6%) was planted in Bagamoyo district. Mango growing households (Table 3.14) were found predominantly in in Mkuranga (8,895, 46.2%) and Bagamoyo (4,210, 21.9%), Kisarawe (2,422, 12.6%) and Kibaha (2,166, 11.2%) and were a minor crop in Rufiji and Mafia districts. Planted area per household was small in the range of 0.3 ha in Kibaha, Kisarawe and Mafia to 0.5 ha in Mkuranga.







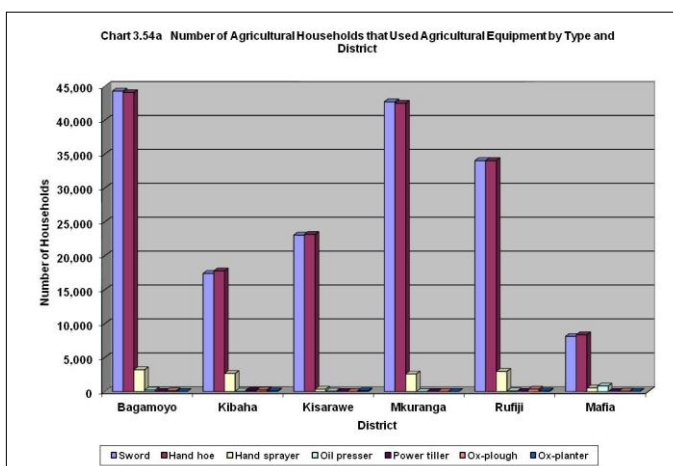




### 3.5 Use of Inputs, Implements and Access to Crop production Services

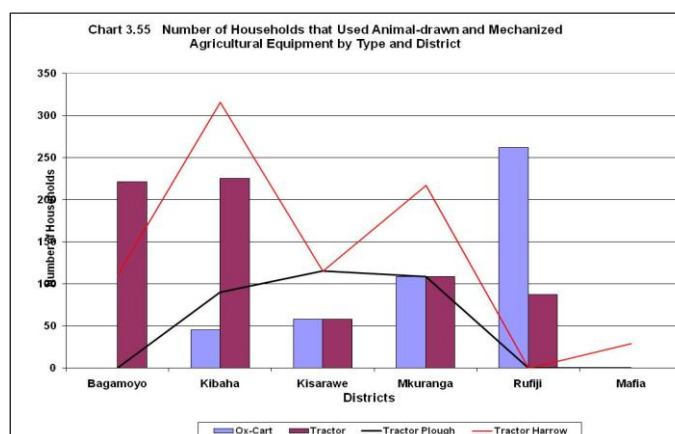
#### 3.5.1 Use of Un-mechanized Agricultural Equipment

At the household level, about 96-99.3% of all households in the region used the hand hoe while 93-98.8% used the sword for various farm operations (Chart 3.54a). Amongst other un-mechanized equipment, the hand sprayer was used in all districts but its use was limited to less than 5,000 households in any one district. Relatively more households used the hand sprayer in Bagamoyo, Kibaha, Mkuranga and Rufiji compared to Mafia and Kisarawe, (Chart 3.54a). The use of all other equipment was at very minimal levels in all districts.



#### 3.5.2 Use of Animal-drawn and Mechanized Agricultural Equipment

Both the animal-drawn and mechanized equipment were used by relatively few agricultural households but the choices differed between districts. The ox-cart was used the most in Rufiji district (262 households, 0.7% of total agricultural households in the district) while the number of households that used the tractor plough was highest in Bagamoyo and Kibaha districts, (Chart 3.55). Tractor harrows are used most followed by tractors, tractor ploughs and ox carts.

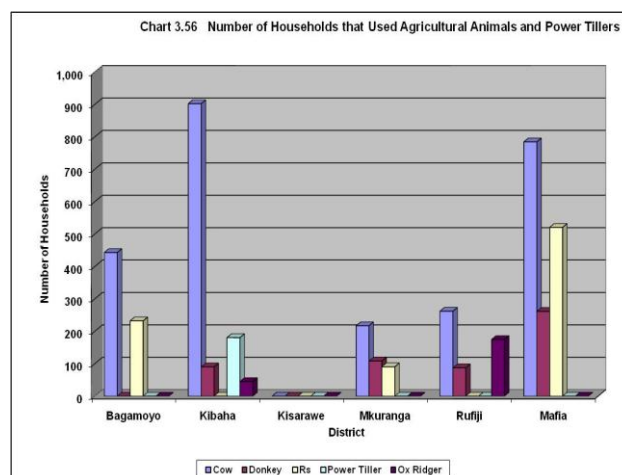


Tractor harrows were used predominantly in Kibaha districts followed by Mkuranga and Bagamoyo. In the latter district, the use of the four different type of equipment was maintained at the same level. However, the use of ox-cart was not recorded in Bagamoyo and Mafia; the use of tractor was not recorded in Mafia; the use of tractor plough was not recorded in Rufiji and Mafia and the use of tractor harrow was not recorded in Kisarawe and Rufiji, (Chart 3.55). Generally,

Mafia district maintained the lowest levels of use of equipment in all categories and could be described as being the least mechanized in the region.

### 3.5.3 Use of Agricultural Animals and Power Tillers

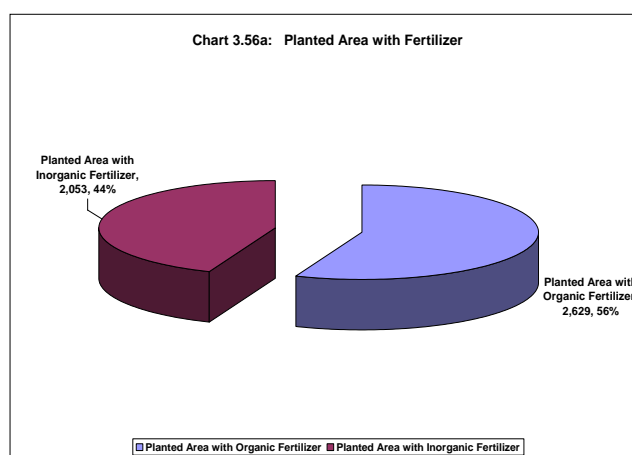
The cow was the most widely used agricultural animal in the region which was used in all districts except Kisarawe, (Chart 3.56). On the basis of number of households that used the animal, the cow was used most extensively in Kibaha district (903 households, 4.9%). However, the highest proportion of agricultural households that used the cow were in Mafia (9%, 785 households). In other districts, one percent of the agricultural households in Bagamoyo (443 households) also used the cow more than any other agricultural animal.



The ox-ridger was used mostly in Rufiji and to a lesser extent in Kibaha, donkeys were used mostly in Mafia (262 households, 3%) and at lower levels in Mkuranga, Kibaha and Rufiji districts. The use of power tiller was recorded only in Kibaha district (Chart 3.56) where 181 households (1% of agricultural households in the district) reported using the equipment. The use of any of the agricultural animals or the power tiller was not reported in Kisarawe district.

### 3.5.4 Use of Fertilizer

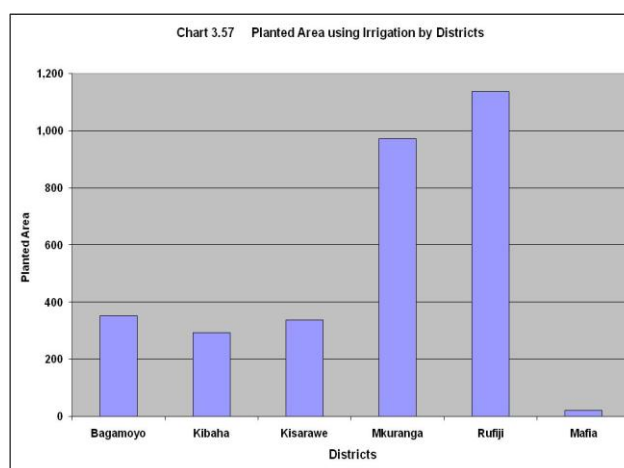
Fertilizers, both organic and inorganic were applied onto to a total of 4,482 ha (3.1% of the total planted area in the region) implying that the bulk of the planted area did not receive any type of fertilizers. This depicts a downward trend in the use of fertilizer compared to 2002/03 when 8% of the planted area was applied with fertilizers. However, of the two types of fertilizers, organic fertilizers were applied on a slightly larger planted area (2,629 ha, 59% compared to inorganic fertilizers (1,853 ha, 41%) However, there was a general preference for organic over inorganic fertilizers in all districts, (Chart 3.56a and Map 3.21).



The largest area planted with organic fertilizers (628 ha, 23.9% of the total planted area applied with organic fertilizers in the region) was in Kibaha followed by Mkuranga (616 ha, 23.4%) and the smallest planted area applied with organic fertilizers (222 ha, 8.4%) was in Mafia. The largest planted area applied with inorganic fertilizers (Table 3.16) was in Bagamoyo and Rufiji districts (each 482 ha, 26%) followed by Kibaha (422 ha, 22.8%), while the smallest planted area applied with inorganic fertilizers was in Mafia (21 ha, 1.1%). Inorganic fertilizers were not applied during masika rains in Kisarawe district.

### 3.5.5 Area Planted with Irrigation

A total of 3,113 ha (2.2% of the total planted area in the region) was planted using irrigation, (Chart 3.57). Most of the irrigated land was in Rufiji district (1,137 ha, 36.5% of the irrigated land in the region) and Mkuranga district (972 ha, 31.2%). This represents a decline in the planted area under irrigation. In 2002/03 the area of annual crops under irrigation in the region was 58,870 ha represented 33.1 percent of the total area planted in the region.

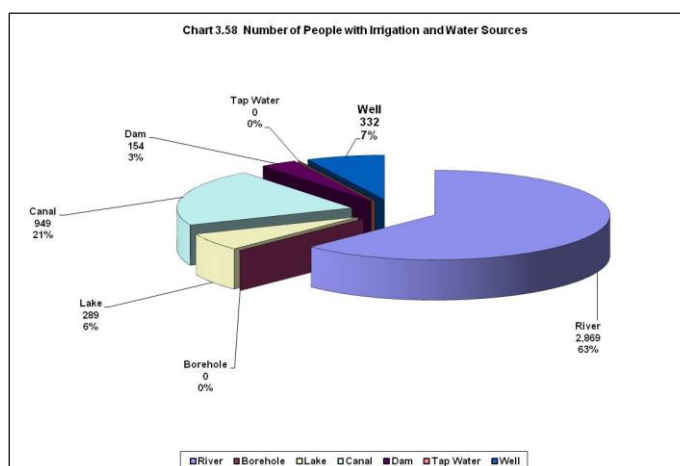


In other districts, the planted area under irrigation was equivalent to 11.4% in Bagamoyo, 10.8% in Kisarawe and 9.4% in Kibaha, (Chart 3.57 and Map 3.22). Irrigation farming was negligible in Mafia where the land applied was less than 1% of the total irrigated land in the region.

#### 3.5.5.1 Sources of Water for Irrigation

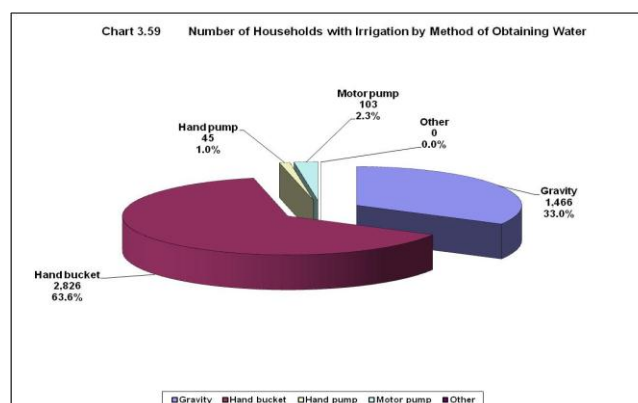
The river was the main source of water for irrigation (Chart 3.58) used by 63% of the households applying irrigation (2,869 households).

Other relatively important sources were canal (949 households, 21%), well (332 households, 7%) and dam (154 households, 3%). Bore holes and tap water were hardly used



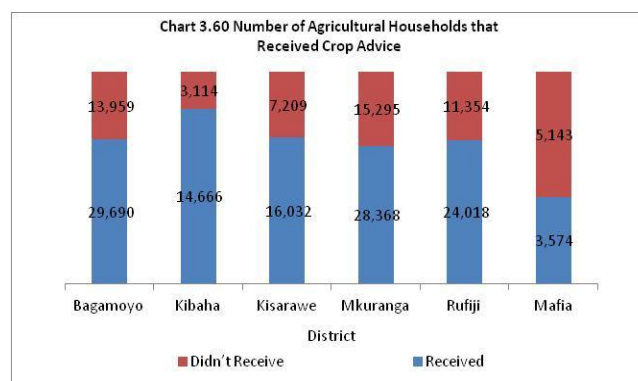
### 3.5.5.2 Method of Obtaining Irrigation Water

Of the total 5,034 households that planted with irrigation, the majority (Chart 3.59) applied water using the hand bucket (2,826 households, 63.61%). Other methods for obtaining irrigation water were by gravity flow (1,466 households, 33%) and using a motor pump (103 households, 2.3%). The hand pump was also used but, by the least number of households (45, 1.0%)

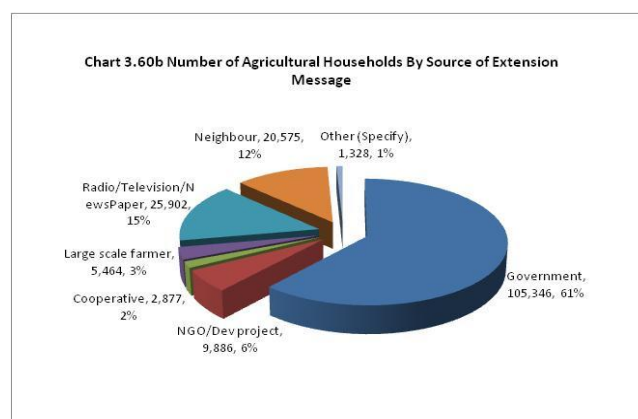


### 3.5.6 Access to Crop Extension Services

Within the region, the households that received extension service in the form of expert advice and technical backup were an average 60% of the crops-only households (Chart 3.60) but there were large variations between districts (Map 3.23). Extension services were provided most extensively in Bagamoyo district (99% received extension services), down to 56.3% in Kisarawe district and was at the lowest level in mafia where an average 25% of the households were reached.

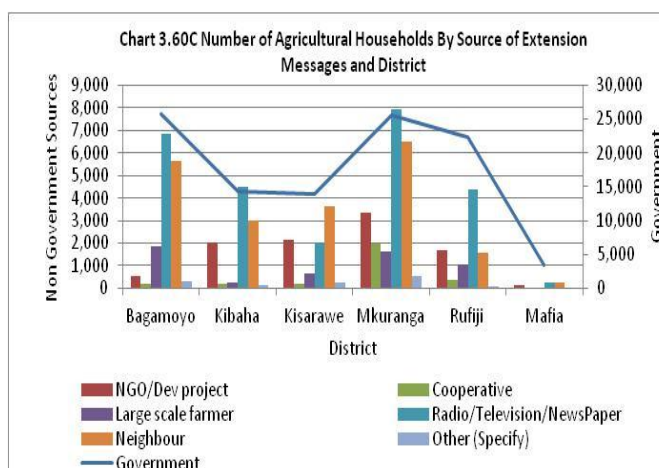


The main source of extension messages (Chart 3.60b) was the government which provided messages to 105,346 respondents; equivalent to 61% of all households interviewed. This is a 35% drop as compared to the figure reported in 2002/3 census. This was followed by the mass media (radio, television and newspapers - 25,902, 15%), neighbours (20,575, 12%), NGOs and development projects (9,886, 6%), large scale farms (5,464, 3%), co-operatives (2,877, 2%) and other sources (1%).



District differences exist with the proportion of the households receiving advice from the government services ranging from 59 to 84% in Kibaha and Mafia districts, respectively.

However, it is also interesting to note that there is a wide range of other sources providing extension services alongside the government (Table 3.8 and Chart 3.60c). Generally, much of the extension services were available in easily accessible districts (Mkuranga, Kibaha, Bagamoyo and Kisarawe) as compared to the ones that are accessible with difficulties (Rufiji and Mafia)

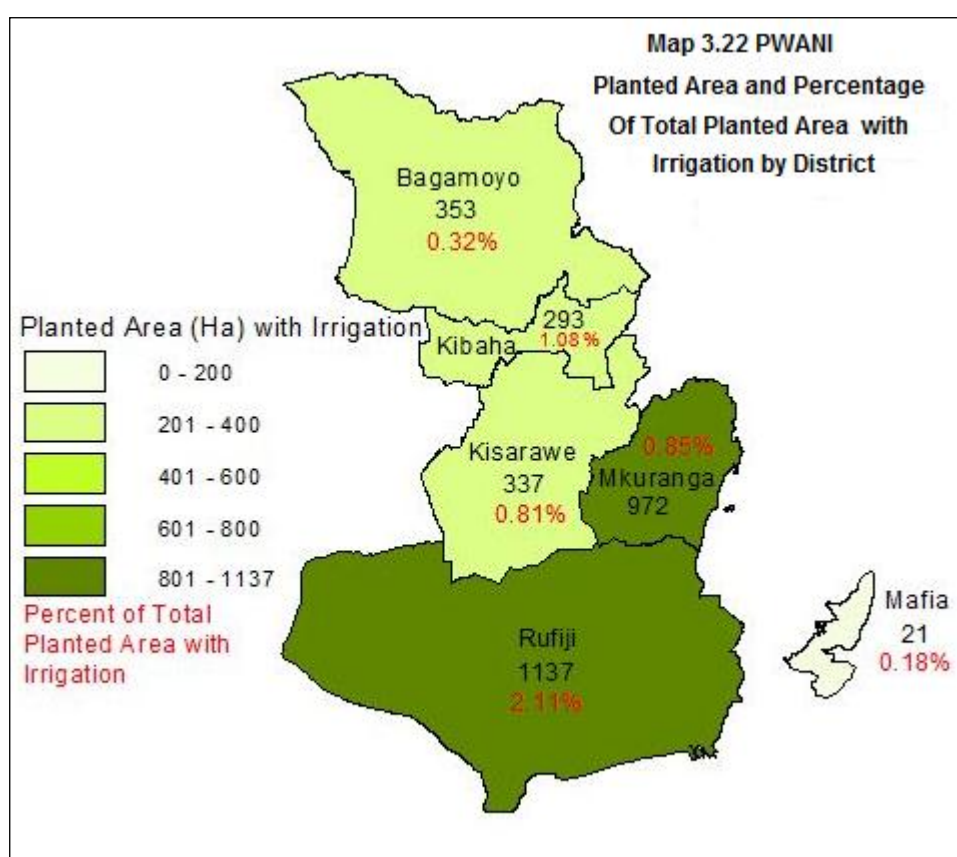
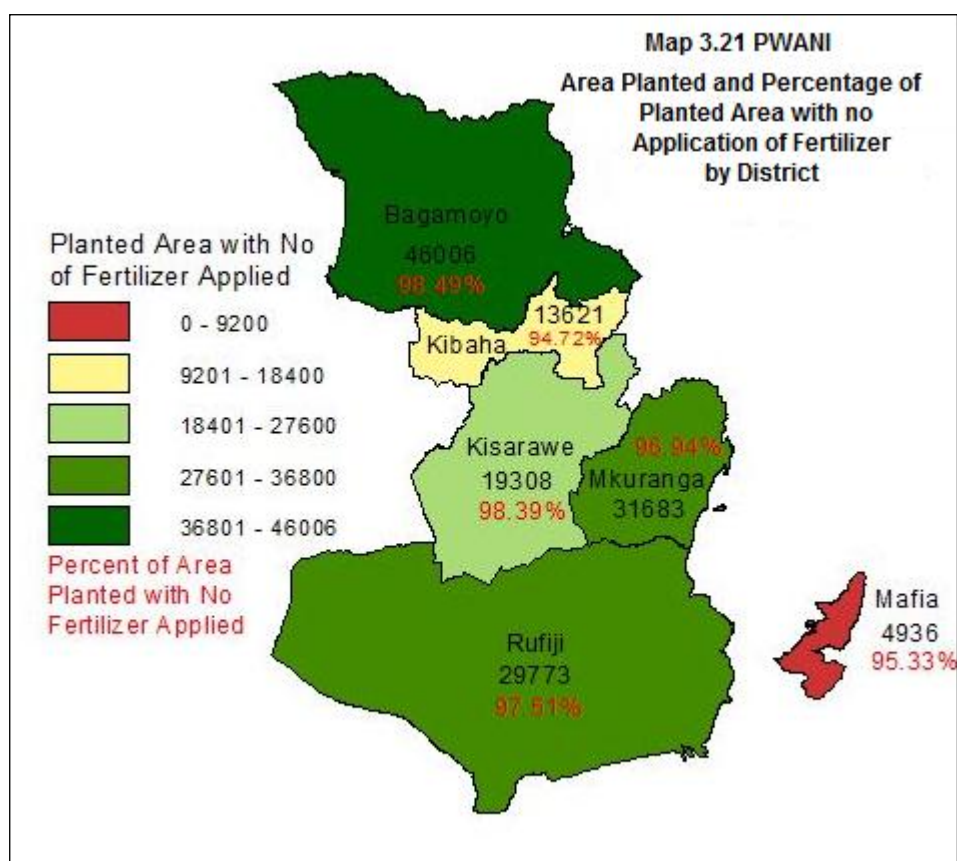


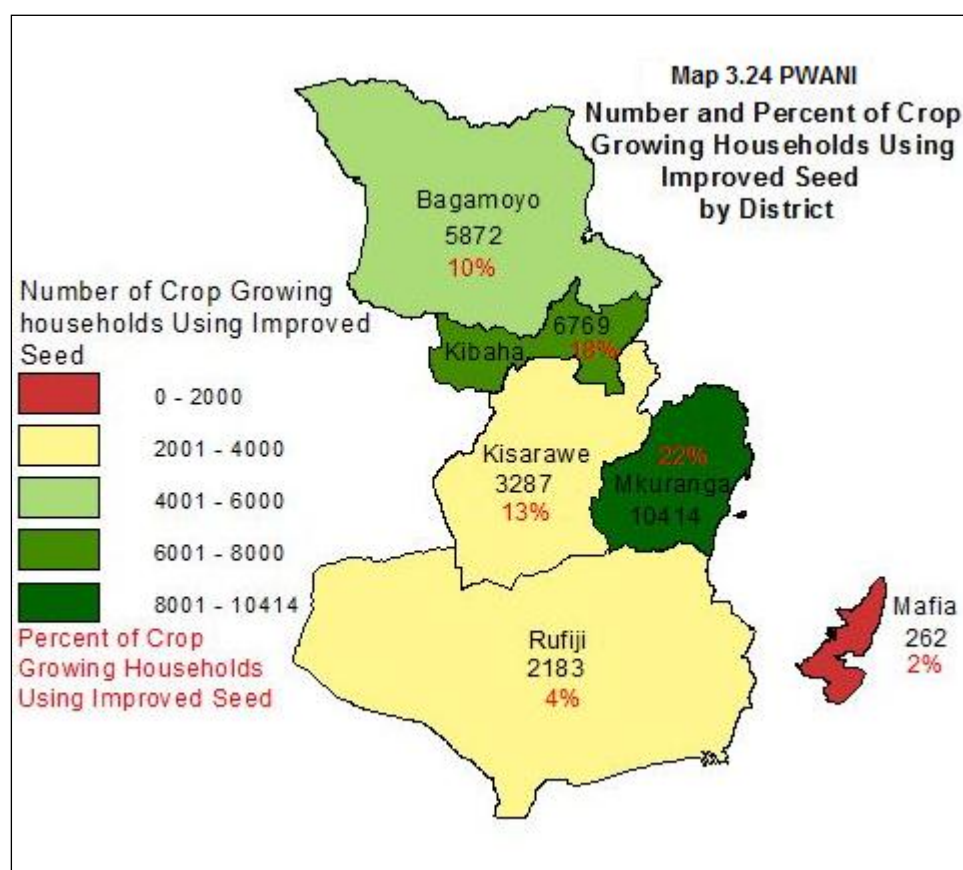
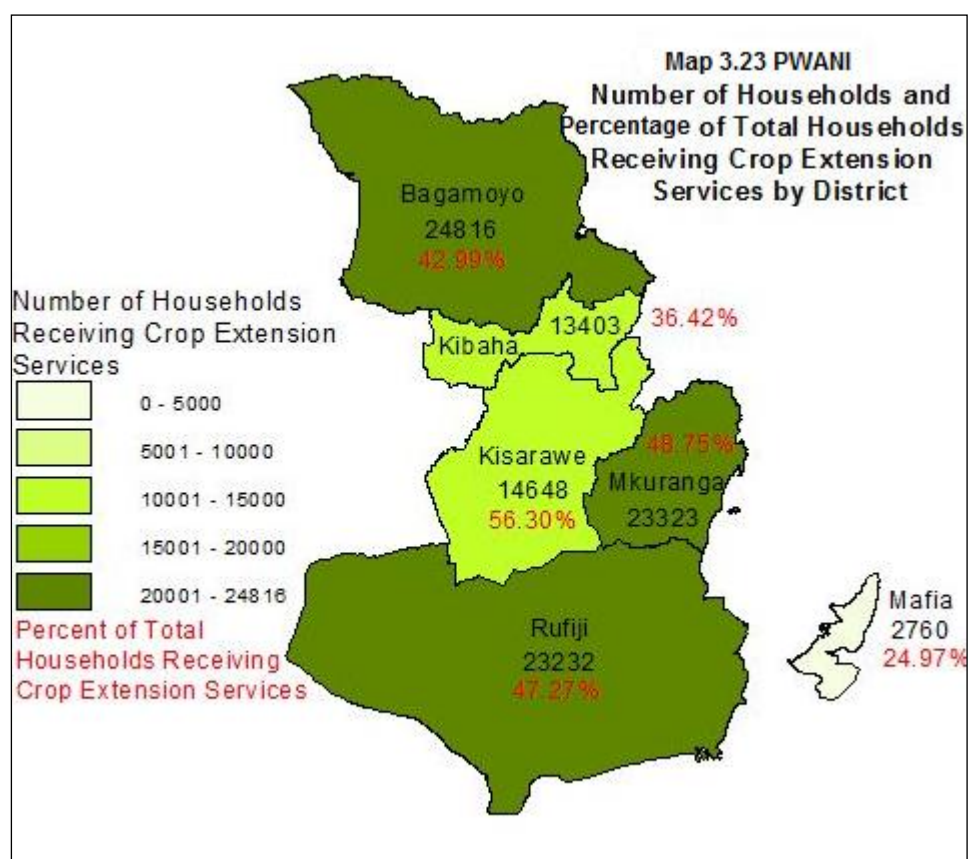
The message that was received by the largest number of households was on crop spacing (16%) followed by use of improved seeds (13%), (Chart 3.60c)

**Table 3.8 Number of Agriculture Households by Source of Extension Messages and District**

District	Government	NGO/Dev projects	Cooperative	Large scale farmer	Radio/Television/News paper	Neighbour	Other (Specify)	Total
Bagamoyo	25,813	554	222	1,883	6,869	5,650	332	41,323
Kibaha	14,305	2,031	181	271	4,468	2,978	135	24,369
Kisarawe	13,956	2,134	173	634	2,018	3,633	231	22,779
Mkuranga	25,601	3,363	1,953	1,627	7,919	6,509	542	47,514
Rufiji	22,271	1,659	349	1,048	4,367	1,574	87	31,355
Mafia	3,400	145	-	-	262	232	-	4,039
<b>Total</b>	<b>105,346</b>	<b>9,886</b>	<b>2,878</b>	<b>5,463</b>	<b>25,903</b>	<b>20,576</b>	<b>1,327</b>	<b>171,379</b>



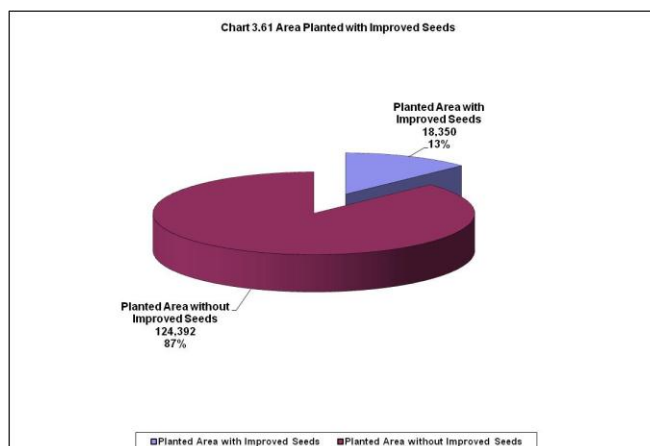




### 3.5.7 Use of Improved Seeds

The use of improved seeds for planting in both seasons (Vuli and Masika) was limited to an average 13% (Chart 3.61, Map 3.24), equivalent to 18,350 ha out of the total planted area of 142,740 ha. This implies that most of the planted area is planted using either local landraces and/or seed of unknown quality.

The variation in the use or non-use of improved seed between seasons was small.

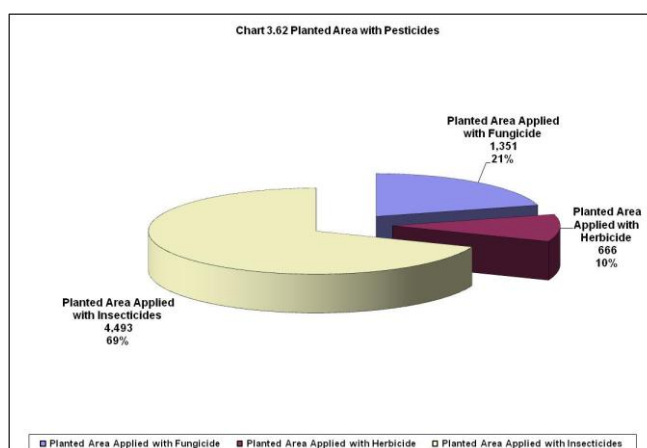


However, there were variations in the extent of use of improved seed between districts and the general trends were maintained in both seasons. Kibaha district had the largest proportion of land planted with improved seed in both seasons (24.9% during Masika and 42.1% during Vuli) followed by Mkuranga, Kisarawe and Bagamoyo districts, in that order. The use of improved seed in Rufiji and Mafia districts was consistently low in both seasons.

The situation with regard to use of improved seed by 2007/08 indicates that the proportion of crop producing households using improved seeds had increased slightly compared to 2002/03 (Agriculture Census data) but there were large variations between districts. In 2002/03, the planted area using improved seeds was estimated at an average 12% of the total planted with the annual crops and vegetables area and cereals had the largest planted area with improved seeds (14,868 ha, 70% of the planted area with improved seeds) compared to other crop types.

### 3.6 Use of Pesticides

Pesticides, in this context, comprising of chemical substances used for the control of insects (insecticides), diseases (fungicides) and weeds (herbicides) were applied on a total 6,511 ha, equivalent to 4.6% of the total planted area in the region. Insecticides were the most dominant pesticide used (Chart 3.62) on 69% (4,490 ha) of the planted area

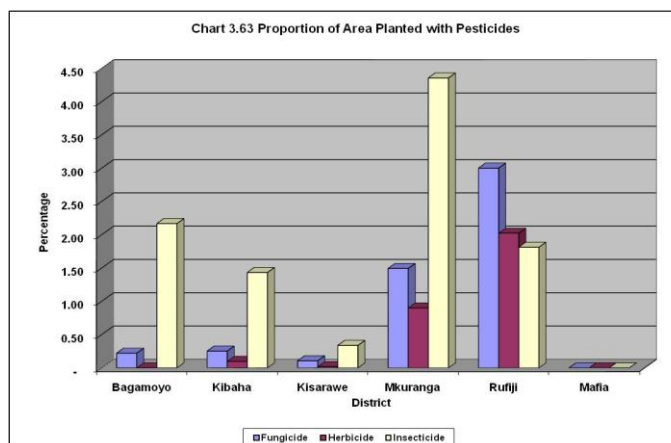


applied with pesticides followed by fungicides (1,351, 21%) and herbicides were the least used



(666 ha, 10%). This is similar to the situation in 2002/03 when Pesticides were applied to a planted area of 11,840 ha of annual crops and vegetables and insecticides were the most common pesticides used in the region, applied on 44% of the total area applied with pesticides, followed by fungicides (33%) and herbicides (23%). The level of use of pesticides in all districts was generally low. Overall, however, Bagamoyo district had the largest area applied with pesticides (2,176 ha, 33.4% of the total area applied with pesticides in the region) followed by Kibaha, Rufiji and Mkuranga with between 1,236 and 1,481 ha applied with pesticides. Kisarawe had the smallest planted area applied with pesticides (304 ha, 4.7%).

In all applying districts except Rufiji, the planted area applied with insecticides (Chart 3.63) was larger than any other pesticide. The planted area applied with insecticides was largest in Bagamoyo (1,974 ha, 43.9% of the total area applied with insecticides in the region) followed by Kibaha (993ha, 22.1%) and Mkuranga (956 ha, 21.3%). Insecticides were applied on smaller planted areas in Rufiji and Kisarawe districts (Chart 3.63).

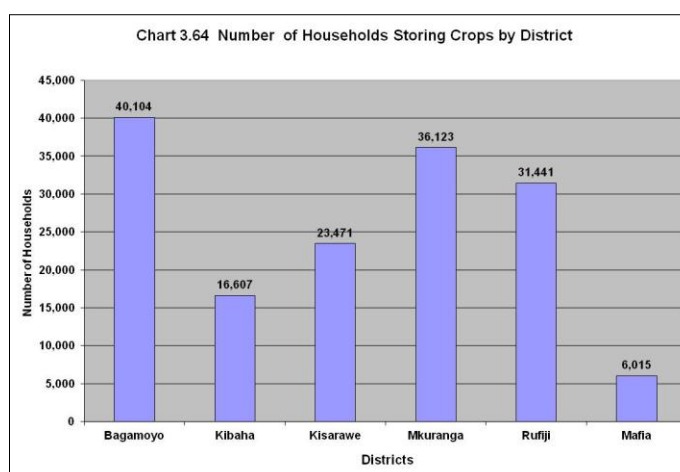


The largest planted area applied with fungicides was in Rufiji (42.7% of the total area applied with fungicides) followed by Mkuranga district (328 ha, 24.3%). Fungicides were not applied in Mafia district. Herbicides were used predominantly in Rufiji (389 ha, 58% of the total area applied with herbicides in the region) followed by Mkuranga (198 ha, 29.7%). Smaller areas were applied with the pesticide in Kibaha and the smallest was in Kisarawe (12 ha, 1.8%). Herbicides were not applied in Bagamoyo and Mafia districts.

### 3.7 Crop Storage and Marketing

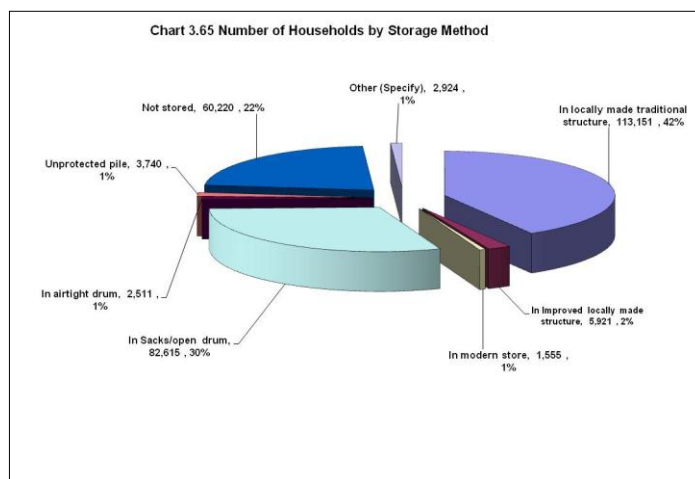
#### 3.7.1 Crop Storage Methods

Crop storage was practiced in all districts using various methods but not all households participated in this activity. The reported proportion of households that stored crops was in the range of 69% of the



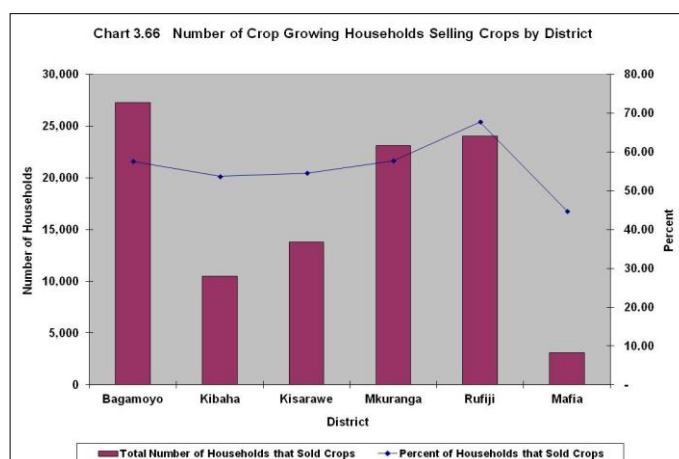
total agricultural households in Mafia to 91% of the agricultural households in Kibaha. The number of households storing crops (Chart 3.64). The largest proportion of households reported storing crops was in Kibaha (16,607 households, 91% of total agricultural households in the district). In Bagamoyo and Rufiji districts, households that stored crops were equivalent to 89% in each district and in Mkuranga it with 82% of the total agricultural households.

The storage structures used by the majority of households (Chart 3.65) were locally made traditional structure (42% of the total households practicing crop storage) and sacks and open drums (55,780, 21%). A wide range of other structures were used including the use of improved locally made structures (2%), airtight drums, modern store, unprotected pile and other unspecified structures, were each practiced by 1% of the households in the region. However, an estimated 60,220 households (22%) did not store crops for any period of time.



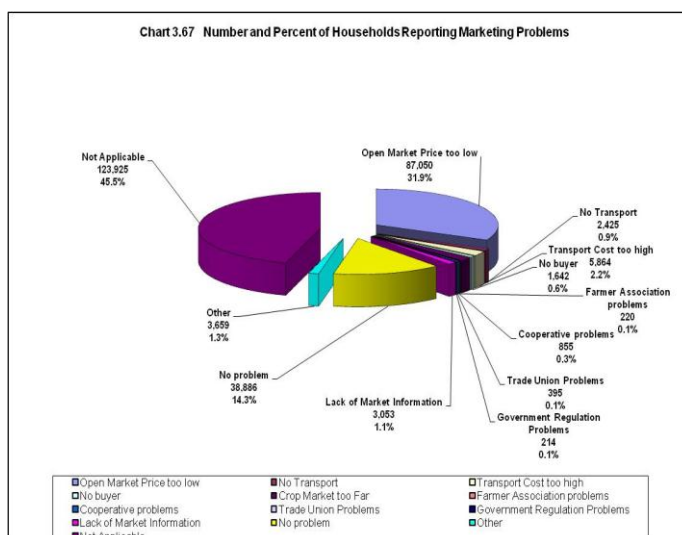
### 3.7.2 Crop Marketing

Sale of crops was conducted in all districts with varying proportions of the household participating. Rufiji had the highest proportion of households (67.7%) selling crops (Chart 3.66) while Mafia had the lowest proportion (44.7%) of households participating in selling crops. In the other remaining districts, household participation in the sale of crops was in the range of 54 to 58%, (Chart 3.66).



### 3.7.2.1 Crop Marketing Challenges

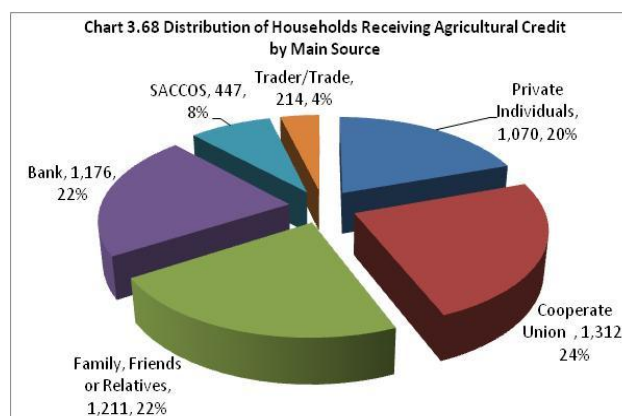
The challenges faced by households that participated in the sale of crops were varied. The single most challenging problem cited by the largest proportion of households (31.9%, 87,050 households) was the low price in the open market. All other marketing problems, which included government regulation problems, trade union problems, the crop market being too far, high transport costs, lack of transport, lack of market information, and lack of buyers, were cited by between 0.1 to 1.6% of the households selling crops, hence considered minor (Chart 3.67).



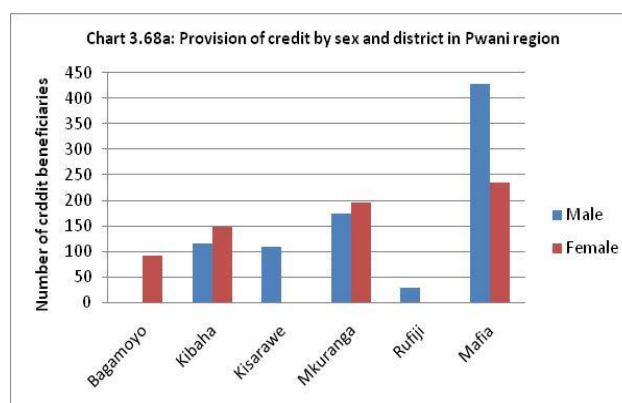
However, there was also a relatively large proportions of households (123,925, 45.5%) who indicated they were not facing any problems and another 38,886 households (14.3%) who indicated that the marketing problems itemized did not apply to them (Chart 3.67).

### 3.8 Credit Sources

A total of 1,524 households were provided with agricultural credit. Access to credit was reported in all districts and generally Cooperative unions (24%) like CORECU\* were the main sources of credit accessed by 24% of the households (Chart 3.68). This is a 41% drop as compared to the figures in the 2002/3 census.



Other sources of credit were family, friends or relatives (22%), Bank (22%, increase by 16%), private individuals (20%), SACCOS† (8%) and traders (4%, drop by 6%). This is a clear



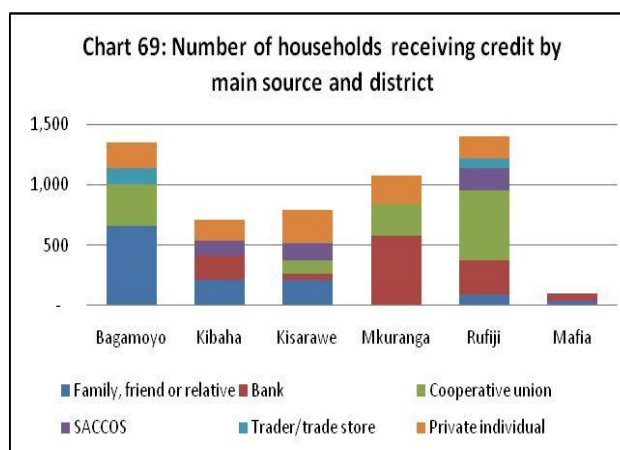
\* CORECU = Coast Region Co-operative Union

† SACCOS = Savings and Credit Co-operative Society

indication that Pwani region farmers are shifting from private credits to commercial bank credits. It is also worth noting that, whereas religious and non-government organizations ranked the second in providing credits to farmers in 2002/03, they did completely feature in this survey (Chart 3.68).

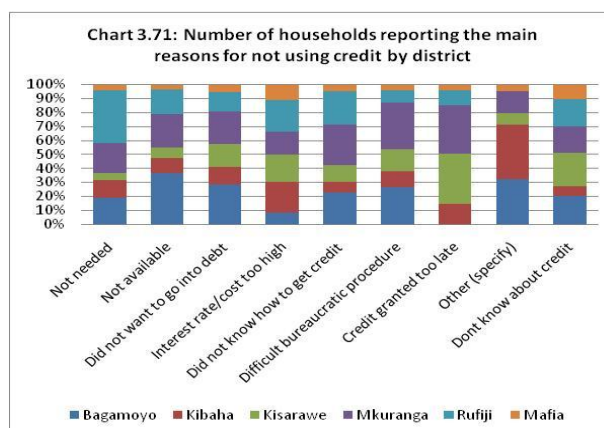
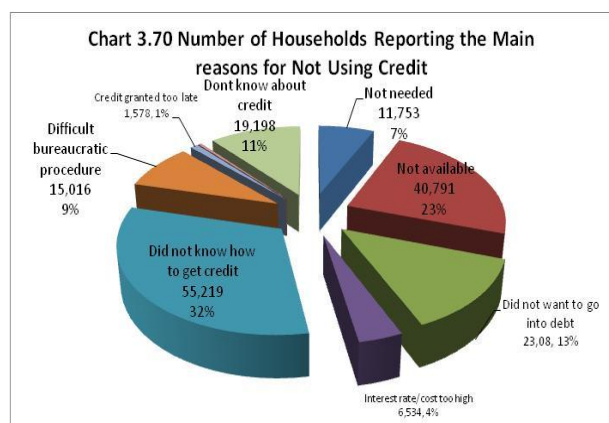
Sex wise, Mafia district had the biggest number of beneficiaries by having 663 (35% women) followed by Kibaha (263, 56%), Mkuranga (370, 53%), Kisarawe (108, 0%) and Rufiji (29, 0%), (Chart 3.68a).

With regard to the geographical distribution of agricultural credits (Chart 3.69), Rufiji was leading by 26% of all households who received credits in the region followed by Bagamoyo (25%), Mkuranga (20%), Kisarawe (14%), Kibaha (13%) and Mafia (2%). The main sources of credits were the family/friends/relatives and traders (Bagamoyo, 54% and 59% respectively), Banks and private individuals (Mkuranga, 49% and 22% respectively), co-operative unions and SACCOS (Rufiji, 45% and 39% respectively).



### 3.8.1 Reasons for Not Using Agricultural Credit

As reported in the 2002/3 census, the main reason of not using agricultural credit was lack of awareness on how to get loan (Charts 3.70 and 3.71). However, the lack of awareness has decreased by 29% from 61% in 2002/3 to 32% in 2007/8. Other reasons reported include unavailability of credit (23%), reluctance to get in credit (13%), ignorance about credit (11%), difficult bureaucratic procedures (9%), not needing credit (7%) high interest rate (4%) and other reasons accounting for 1% of all reasons, (Charts 3.70 and 3.71).

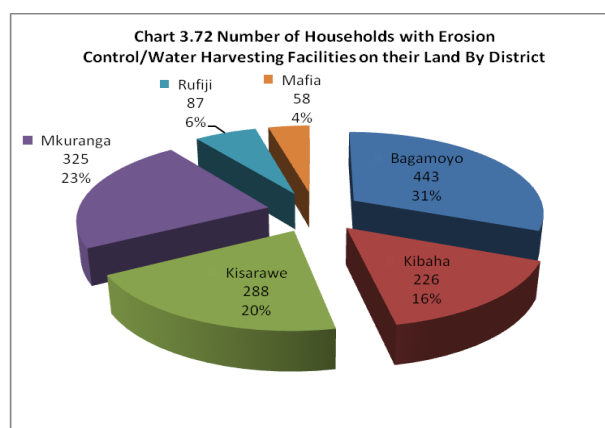


### 3.9 Soil Erosion and Water Harvesting Structures

#### 3.9.1 Soil Erosion Control

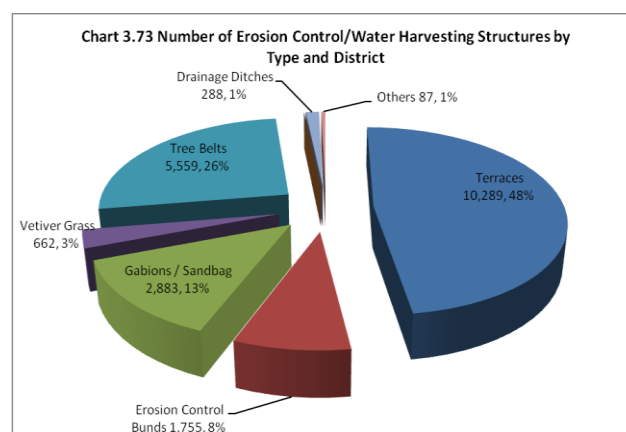
Erosion control and water harvesting, also referred to as soil and water conservation measures (SWCM), are grouped together as they normally have dual purpose of reducing erosion and increasing the amount of water available for crop nourishment.

Of all 174,523 respondents interviewed, only 3,803 (2%) reported to have any erosion challenge. The census data indicated that in all districts combined 1,428 households (0.81% of the total agricultural households in the region) applied some SWCM (Chart 3.72). Bagamoyo was the leading district in applying WCM (31%) followed by Mkuranga (23%), Kisarawe (20%), Rufiji (6%) and Mafia (4%).

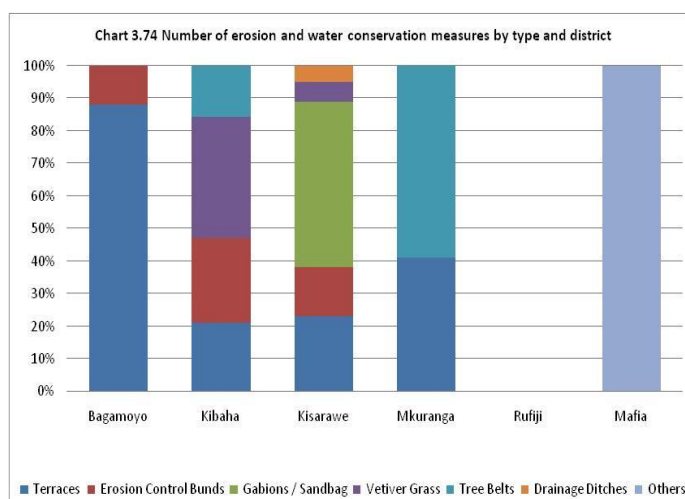


#### 3.9.2 Erosion Control/Water Harvesting Structures

The most commonly used structures (Chart 3.73) for erosion control and water harvesting were terraces used by 48% of respondents followed by tree belts (26%), and gabions and sandbags (13%), erosion control bunds (8%), drainage ditches and others (2%).



Each district had its own distinct SWCM used more than others. Gabions and sandbags were used in Kisarawe district only. Vetiver grass was used in Bagamoyo and Kibaha districts and tree belts were used in Mkuranga and Kibaha districts. Mafia district used drainage ditches only (Chart 3.74). Bagamoyo was leading in the number of terraces followed by Mkuranga while Kisarawe was leading in erosion control bunds followed by 3.74).



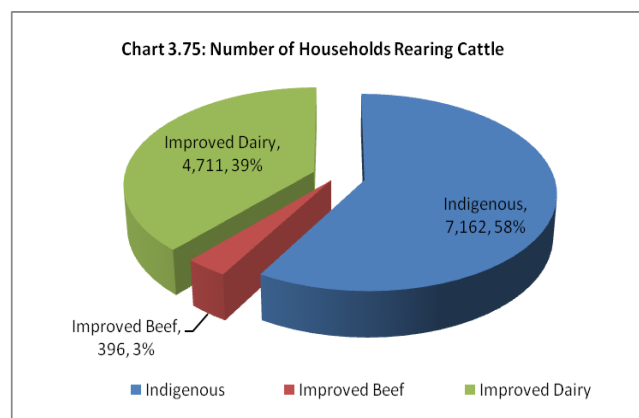


### 3.10 Livestock Results

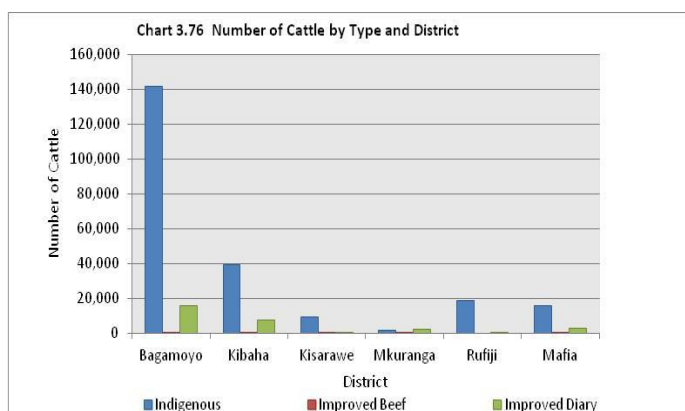
This section presents results on livestock comprising of both indigenous and improved animals domesticated for the purpose of providing milk, meat, hides and other products, including the provision of farm power. The livestock types found in the region comprised of the large stock: cattle, goats, sheep and pigs and the small stock were mostly chicken.

#### 3.10.1 Cattle Population

A total of 12,269 households engaged in the production of 255,258 cattle in coast region with an average of 16 cattle per household. Majority of households (7,162 or 58% of all households) kept indigenous cattle (Chart 3.75), followed by improved dairy cattle (4,711 or 39%) and improved beef cattle (396 or 3%)



The distribution of cattle in the districts was uneven with Bagamoyo hosting 61.5% (157,203 heads) of the total cattle population in the region (Chart 3.76, map 3.25) of which 90.1% were indigenous type. Most of the improved beef were found in two districts; Bagamoyo (111 herds, 28% of the total population of improved beef) and Mkuranga (27.3%).



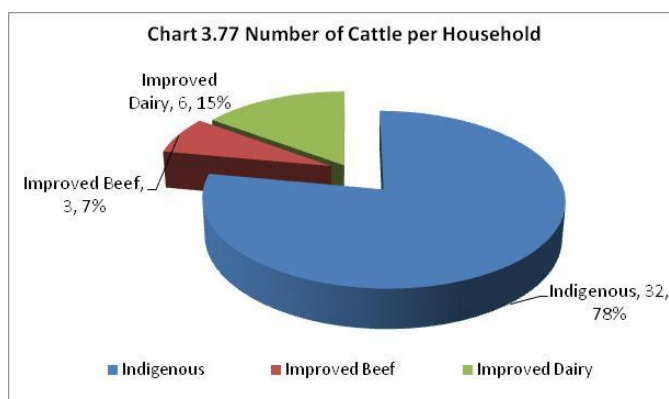
Over half of the dairy cattle were in Bagamoyo district (15,510 cows, 54.4%) and another 26.8% (7,627 cows) were located in Kibaha district. Mkuranga was the only district where the largest proportion (52.8%) of the cattle population in the district was of the improved dairy type (Table 3.9) even though this was only 7.2% (2,061 cows) of the total improved dairy cattle population in the region.

**Table 3.9 Number of Cattle by Type and District**

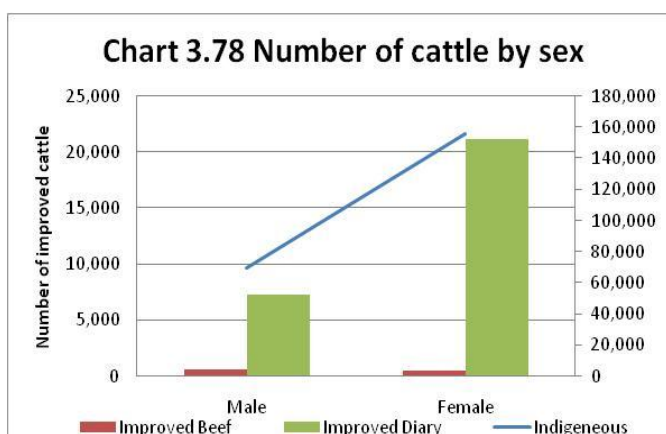
District	Number of households with Cattle				Number of Cattle by Type				Number of cattle per household			
	Indigen ous	Improved Beef	Improved dairy	Total	Indigen ous	Improved Beef	Improved dairy	Total	Indigen ous	Improved Beef	Improved dairy	Total
Bagamoyo	2,991	111	1,883	4,985	141,583	111	15,510	157,204	47	1	8	19
Kibaha	542	90	1,805	2,437	39,532	451	7,627	47,610	73	5	4	27
Kisarawe	231	58	115	404	9,169	58	404	9,631	40	1	4	15
Mkuranga	434	108	325	867	1,410	434	2,061	3,905	3	4	6	5
Rufiji	349	0	175	524	18,428	0	175	18,603	053	0	1	27
Mafia	2,615	29	407	3,051	15,487	87	2,731	18,305	6	3	7	5
Total	7,162	396	4,710	12,268	225,609	1,141	28,508	255,258	37	3	5	16

### 3.10.2 Cattle Herd Characteristics (Density, Size, Sex, Age and Status)

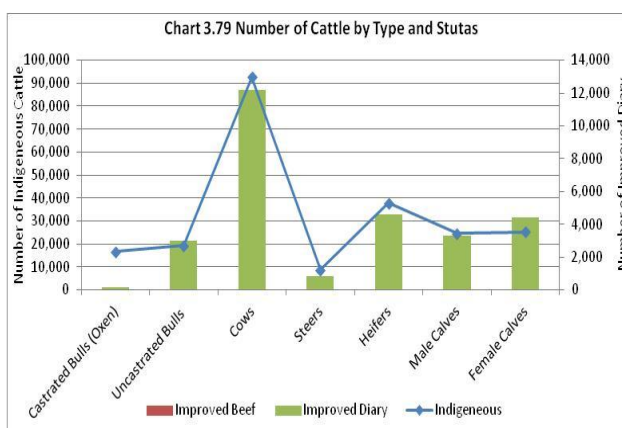
Cattle density was variable between districts (Map 3.27). The largest concentration of cattle was in Mafia 88 animals/km<sup>2</sup> followed by Kibaha district (54 cattle/km<sup>2</sup>) and Bagamoyo (51 cattle/km<sup>2</sup>). Comparatively, Cattle density in the other districts was much less and the lowest density was in Mkuranga and Rufiji District (4 cattle/km<sup>2</sup>). Overall, cattle ownership by the majority of the households (83%) was dominated by indigenous cattle (37 animals per household), followed by improved dairy (11% of households) an average 5 cows per households and improved beef was at the bottom of the scale with 3 animals per households owned by 6% of the cattle keeping households (Chart 3.77).



Pwani region has a total of 77,802 herds of male cattle (30%) and 177,456 (70% female cattle (Chart 3.78) of the female cattle, 155,776 (88%) are indigenous, 501 (0.3%) are improved beef and 21,179 (12%) are improved dairy cattle. In terms of age, bulls, cows and steers constitute a total of 154,350 (60%) herds of cattle while heifers and calves constitute 100,908 (40%) herds of cattle.



Of all the 255,258 cattle in Pwani region, a total of 104,982 (41% of all cattle) are cows followed by heifers (42,588 or 17%), female calves (29,886 or 12%), male calves (28,434 or 11%), uncastrated bulls (22,642 or 9%), castrated bulls (17,127 or 7%) and steers (9,599 or 4%), (Charts 3.78 and 3.79).



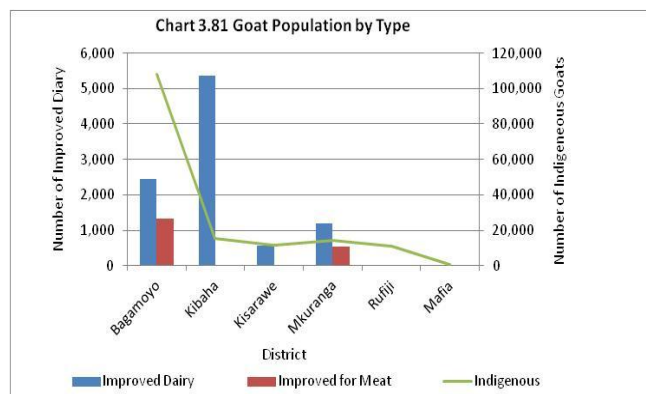
#### 3.10.2.1 Cattle Population Trend

Cattle population in Pwani region increased during the five year period from 122,308 in 2002/3 to 255,258; which is equivalent to 109% increase. The indigenous cattle population increase was

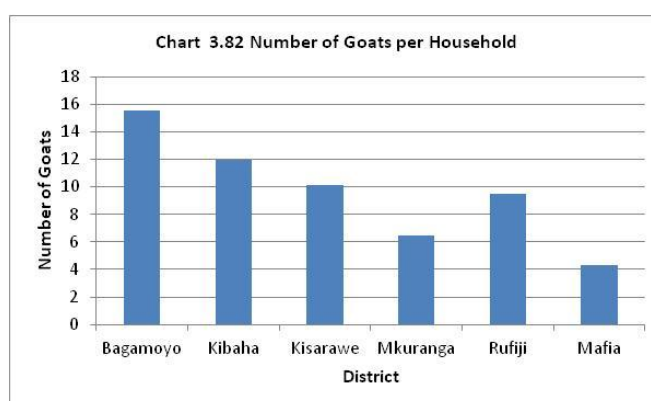
leading by having 110,360 heads of cattle (90.2% of the total number of cattle in the region), 10,809 cattle (8.8%) were dairy breeds and 1,140 cattle (0.9%) were beef breeds.

### 3.10.3 Goat Population

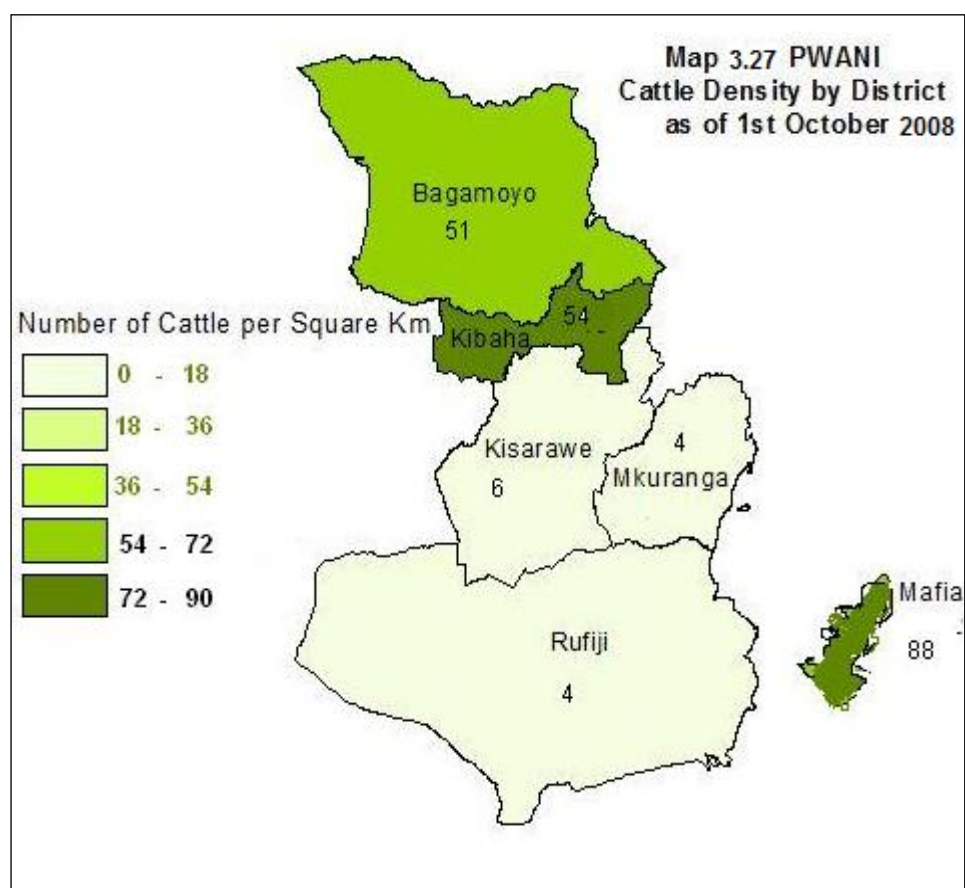
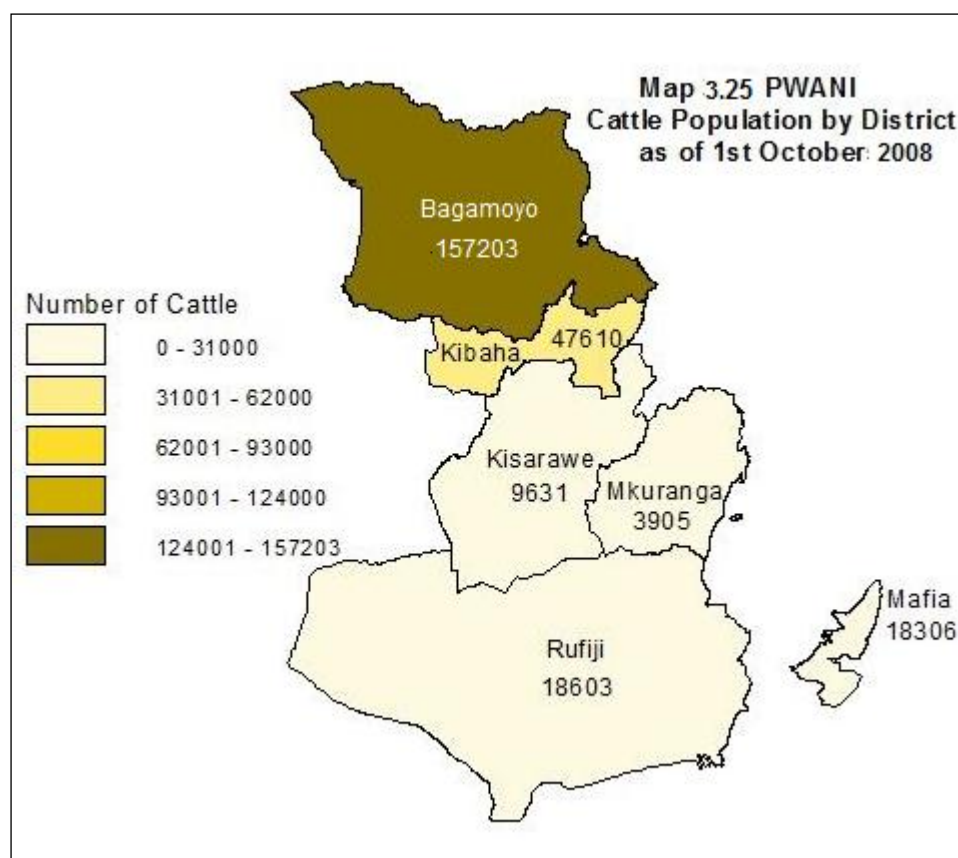
The total goat population in the region was 172,769 distributed in all districts in varying proportions and the largest proportion is the indigenous type (Chart 3.81, Map 3.28 and 3.29). An exceptionally large goat population was found in Bagamoyo (111,782, 64.7% of total goat population in the region) compared to all other districts, (Chart 3.81).

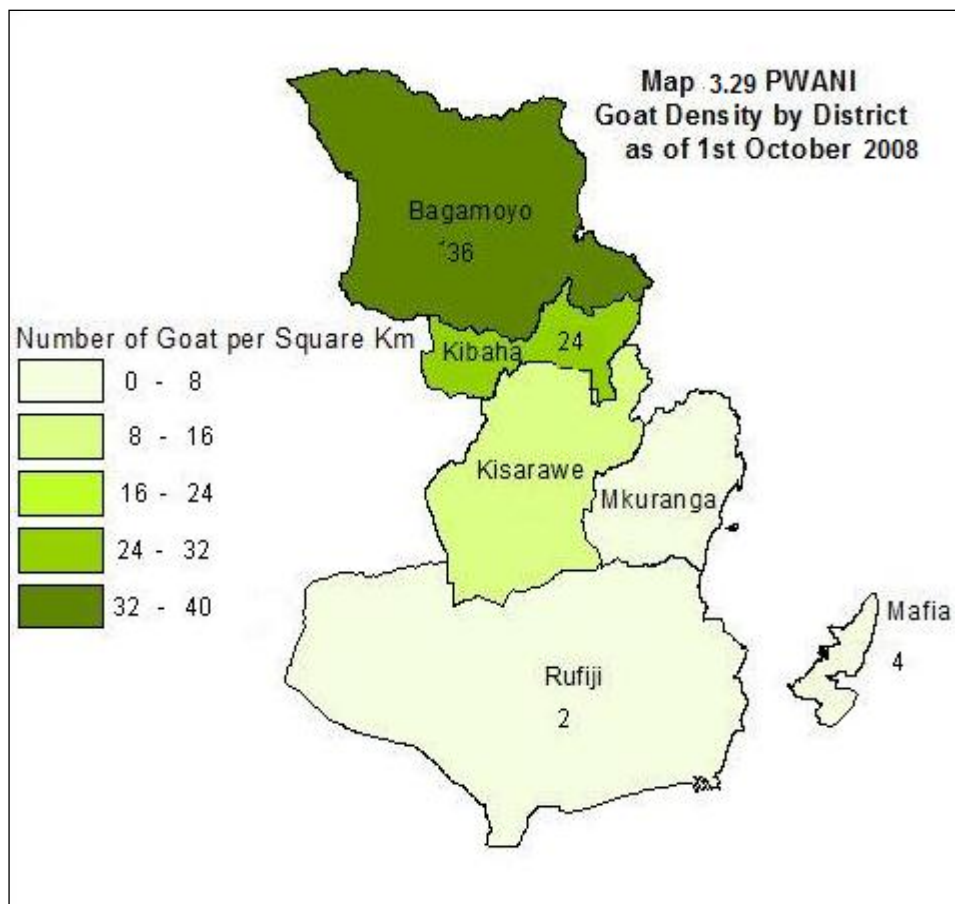
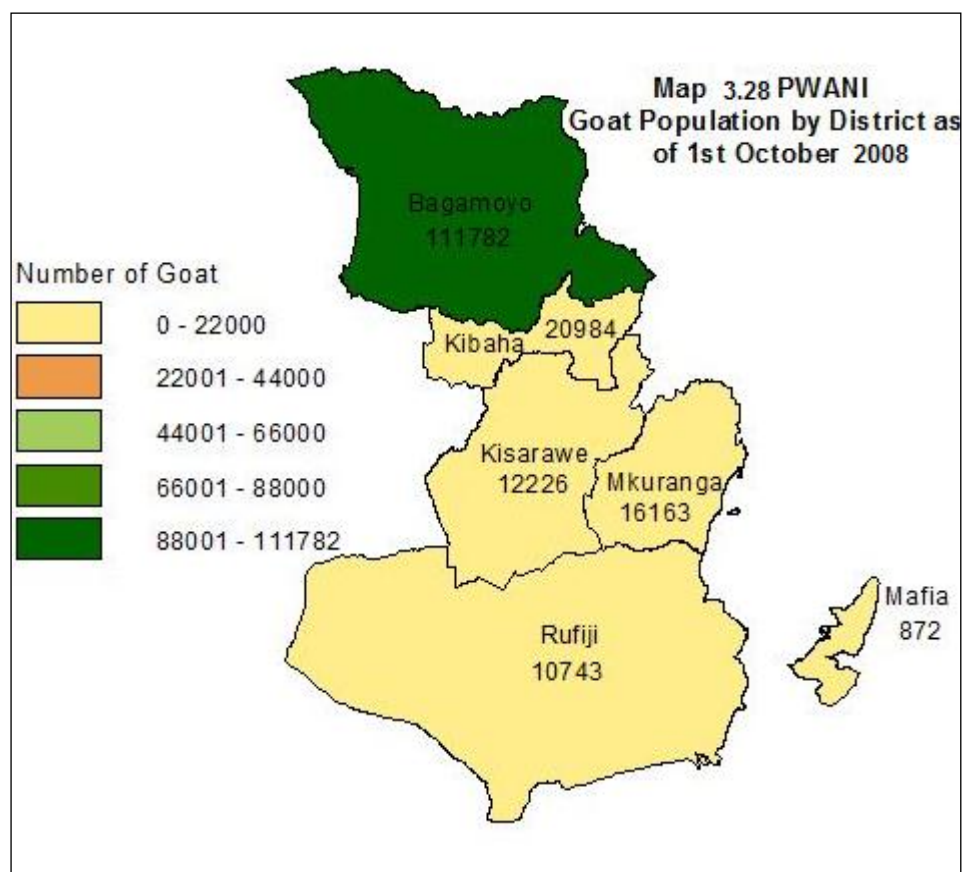


The district with the second largest population was Kibaha (20,984, 12.1%) while Mafia had the lowest goat population in the region (872 goats, 0.5%). The average number of goats per household was 12 with Bagamoyo having the largest herd size of 15 goats per household and Mafia having the lowest number of 4 goats per household (Chart 3.82).



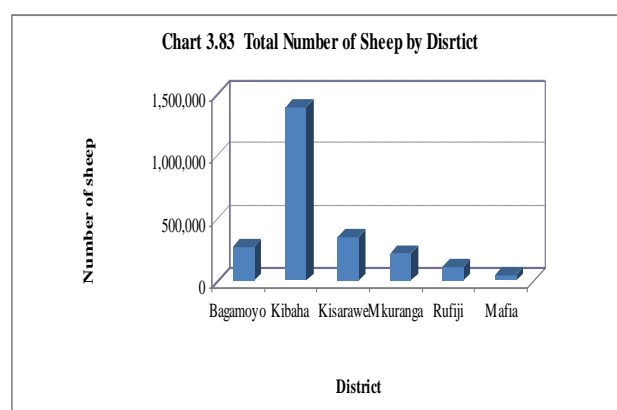






### 3.10.4 Sheep Population

The total number of sheep in the region was 2,403,132. Kibaha was the most important district for sheep production (Chart 3.83, Map 3.30 and 3.31) with a sheep population of 1,401,093 (58.3% of total sheep population in the region). In the other districts Kisarawe had 352,824 sheep (14.7%), Bagamoyo had 270,299 sheep (11.2), Mkuranga had 216,983 sheep (9%) and Rufiji had 118,792 sheep (4.9%). The sheep population in Mafia district was the lowest (43,141) which accounted for 1.8% of the sheep population in the region, (Chart 3.83).



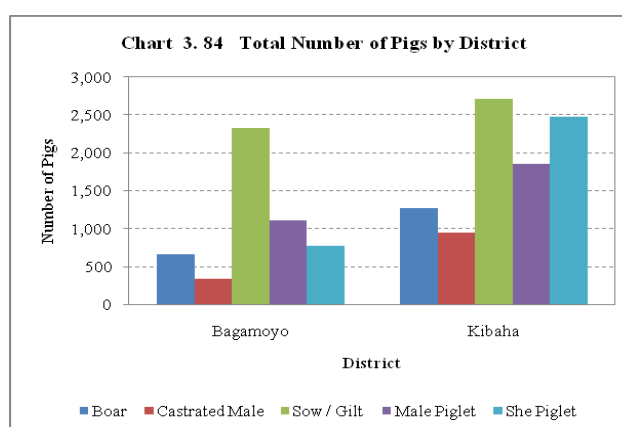
The sheep kept in the region was mostly indigenous type of different category as summarized on Table 3.10

**Table 3.10 Total Number of Indigenous Sheep by Category of Sheep and District**

District	Number of Indigenous					Total
	Ram	Castrated Sheep	She Sheep	Male Lamb	She Lamb	
Bagamoyo	47,195	23,111	132,125	31,716	36,152	270,299
Kibaha	196,613	152,449	660,082	170,813	221,137	1,401,093
Kisarawe	107,581	12,706	167,514	24,696	40,328	352,824
Mkuranga	35,022	8,592	122,498	25,547	25,323	216,983
Rufiji	14,554	4,535	63,898	14,423	21,382	118,792
Mafia	5,607	2,509	21,971	5,765	7,289	43,141
Total	726	466	19,099	280	317	20,888

### 3.10.5 Pig Production

There were 14,458 pigs in the region found in two districts (Chart 3.84, Map 3.32): Kibaha (9,251 pigs, 64%) and Bagamoyo (5,207 pigs, 36.1%). The highest pig density (Map 3.33) was in Kibaha district (340 pigs per sq km) which was followed by Bagamoyo (47 pigs per sq km). The distribution of the pigs kept in the region, by type, is summarized on Table 3.11



**Table 3.11 Total Number of Pigs by Type of Pigs and District**

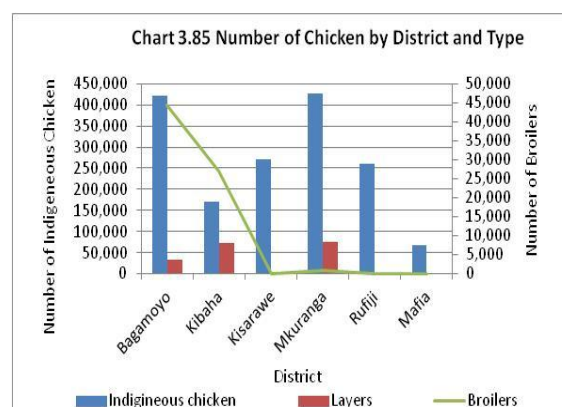
District	Pig Type					
	Boar	Castrated Male	Sow / Gilt	Male Piglet	She Piglet	Total
Bagamoyo	665	332	2,326	1,108	775	5,207
Kibaha	1,264	948	2,708	1,850	2,482	9,251
<b>Total</b>	<b>1,928</b>	<b>1,280</b>	<b>5,034</b>	<b>2,958</b>	<b>3,258</b>	<b>14,458</b>

### 3.10.6 Chicken Production

Chicken production was an important contributor to livestock production in the region. On the basis of absolute stock populations, chicken production dominated the livestock production sector in the region.

#### 3.10.6.1 Chicken Population

The Coast region had a total chicken population of 1,875,732 (local and improved types) of which most (1,619,965, 86.4%) were indigenous types found in all districts with variations ranging from 61% in Kibaha to 96% in Mafia (Table 3.12, Chart 3.85, Map 3.34). A total of 106,367 households kept indigenous chicken. Mkuranga followed by Bagamoyo districts were the two leading districts in both chicken population and the number of households engaged in the activity.



Considering both the indigenous and improved chicken types, Mkuranga district had the highest chicken population (Chart 3.85); 503,444 chicken (26.8% of the total chicken population in the region), which was comparable to the chicken population in Bagamoyo district (500,414 chicken, 26.7%). Likewise, the chicken populations in Kibaha, Kisarawe and Rufiji districts were comparable (Chart 3.70) and each accounted for between 14 and 14.5% of the chicken population in

**Table 3.12 Indigenous Population by District**

District	Indigenous Chicken		
	Number of H/holds	No. of Indigenous Chicken	% of Total Chicken Population
Bagamoyo	26,699	422,200	80
Kibaha	11,237	170,717	61
Kisarawe	16,666	271,854	98
Mkuranga	27,553	426,642	81
Rufiji	19,040	261,488	98
Mafia	5,172	67,064	96
<b>Total</b>	<b>106,367*</b>	1,619,965	

the region. Mafia district had the lowest chicken population (67,122) equivalent to 3.6% of the total chicken population in the region.

### 3.10.6.2 Improved Chicken Types

Improved chicken, normally raised in-door, and were of two types: layers for egg production and broiler for meat. Across the production districts, a total of 894 households kept layer chicken, (Table 3.23).

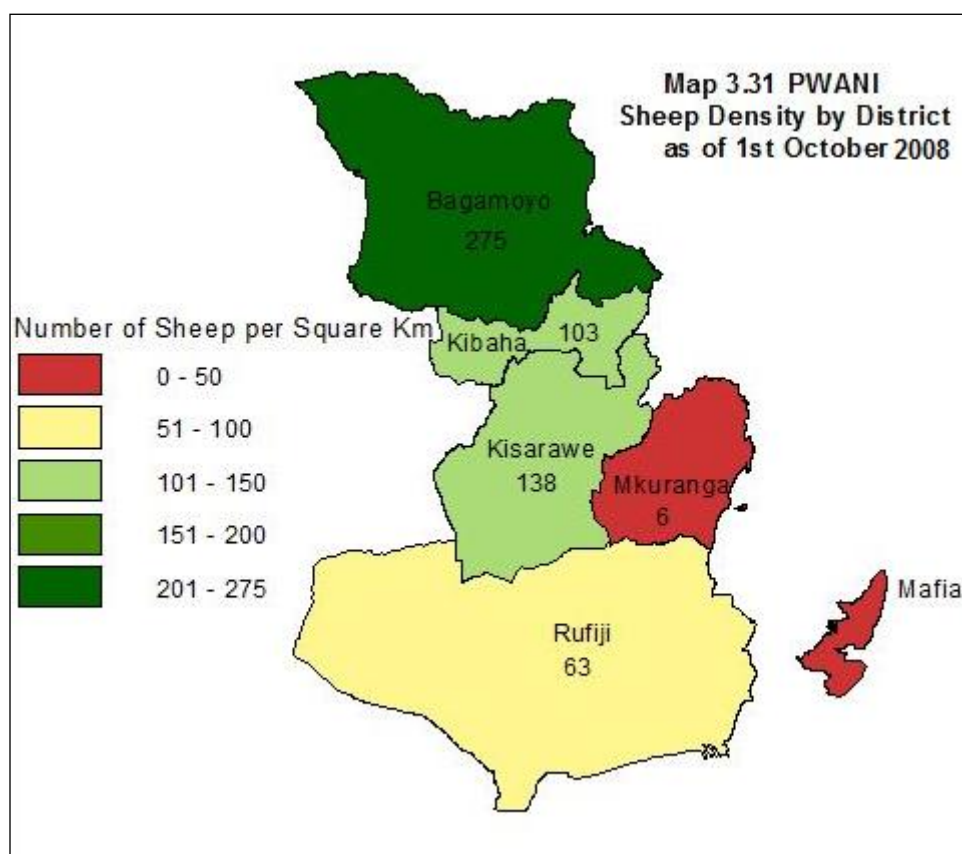
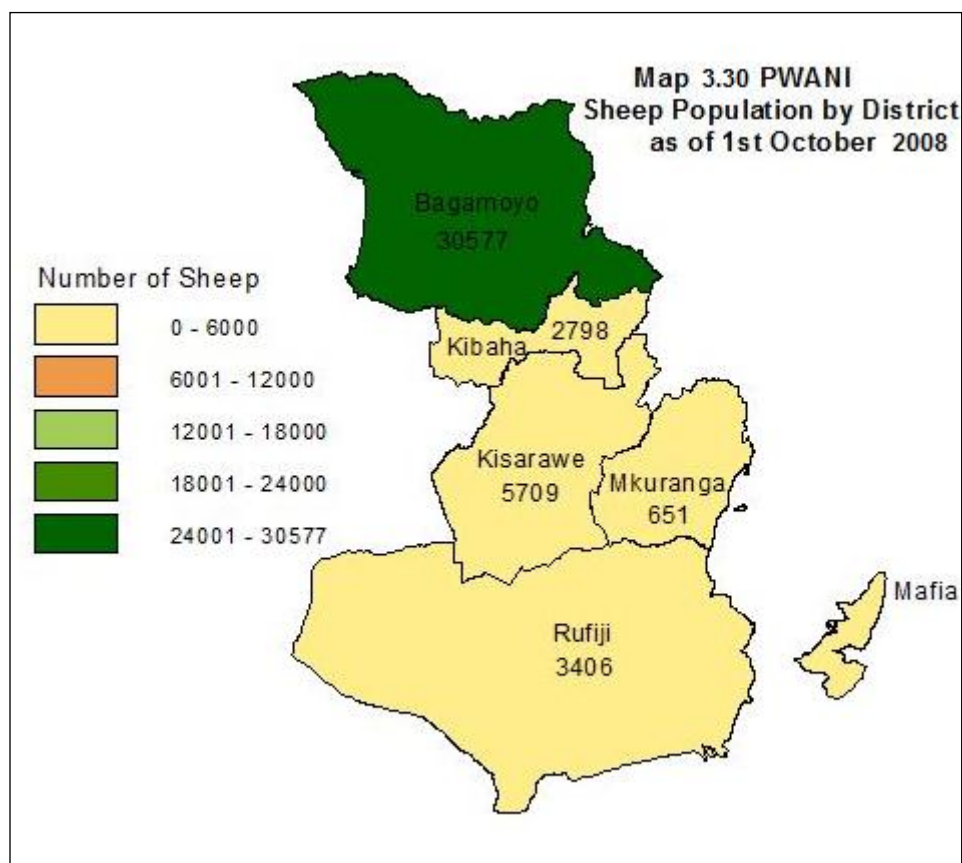
Improved layer chicken (183,508 birds, 71.7% of the total improved chicken in the region) were recorded (Chart 3.85) mostly in Mkuranga (75,934 birds, 29.7%) and Kibaha (72,655 birds, 28.4%) followed by Bagamoyo (33,900 birds, 13.3%). In Kisarawe and Rufiji districts, the layer chicken population was very low, in either case accounting for 0.4% or less. Layer chicken was not kept in Kisarawe district.

A total of 553 households kept layer chicken (Table 3.13). Bagamoyo was the most important district for Broiler chicken production with a population of 44,314 birds (61.3% of the total broiler population) followed by Kibaha with a broiler population of 27,077 (37.5%). The broiler population in Mkuranga district was negligible while in Kisarawe, Rufiji and Mafia districts, broiler chicken were not absent.

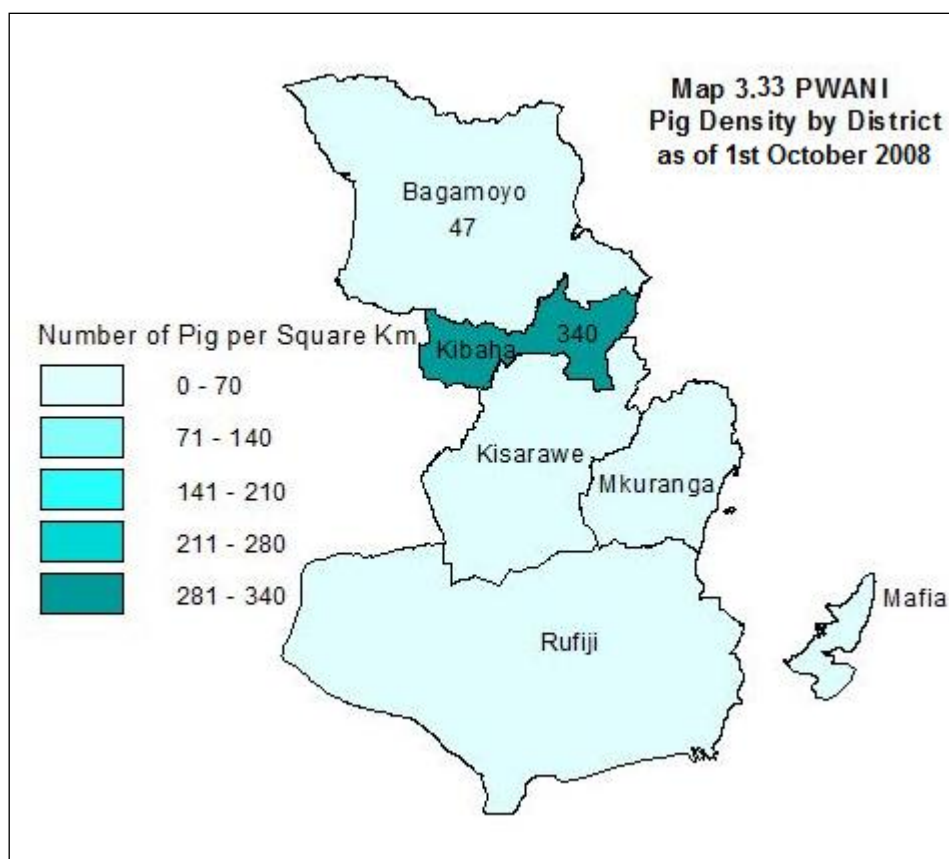
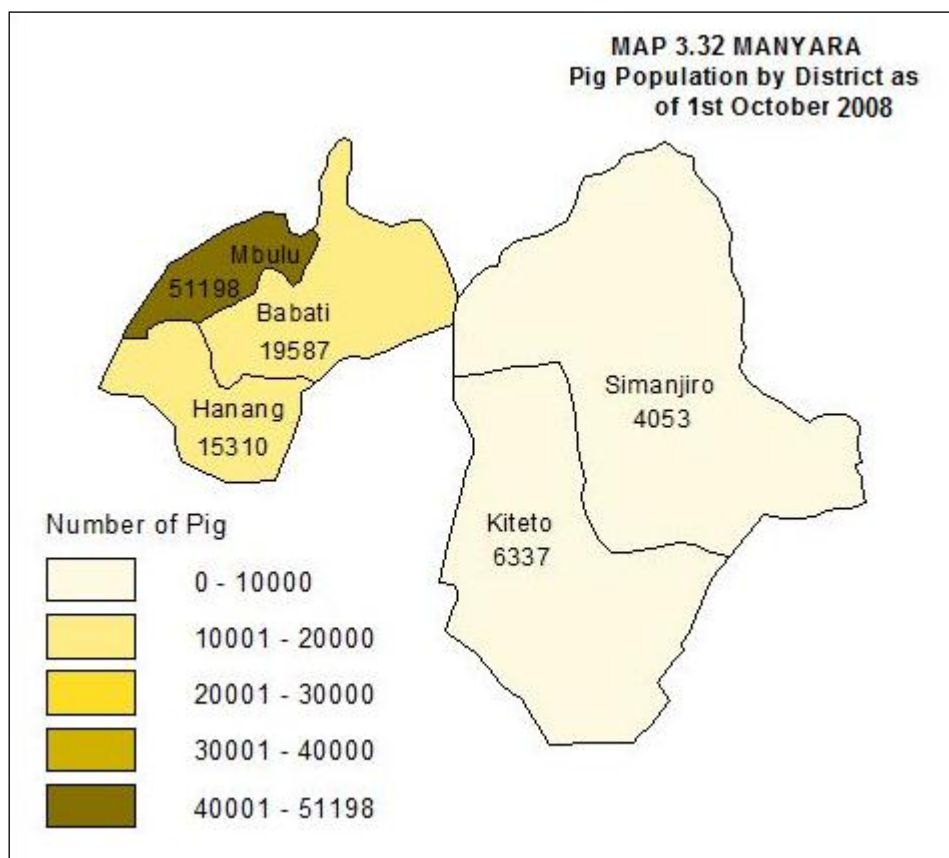
The chicken density (Map 3.35) was fairly high in all districts in the range of 4,500 to just under 10,000/sq km. The highest chicken density was in Kibaha (9,938 chicken/sq km) and the lowest was in Bagamoyo (4,506 chicken/sq km).

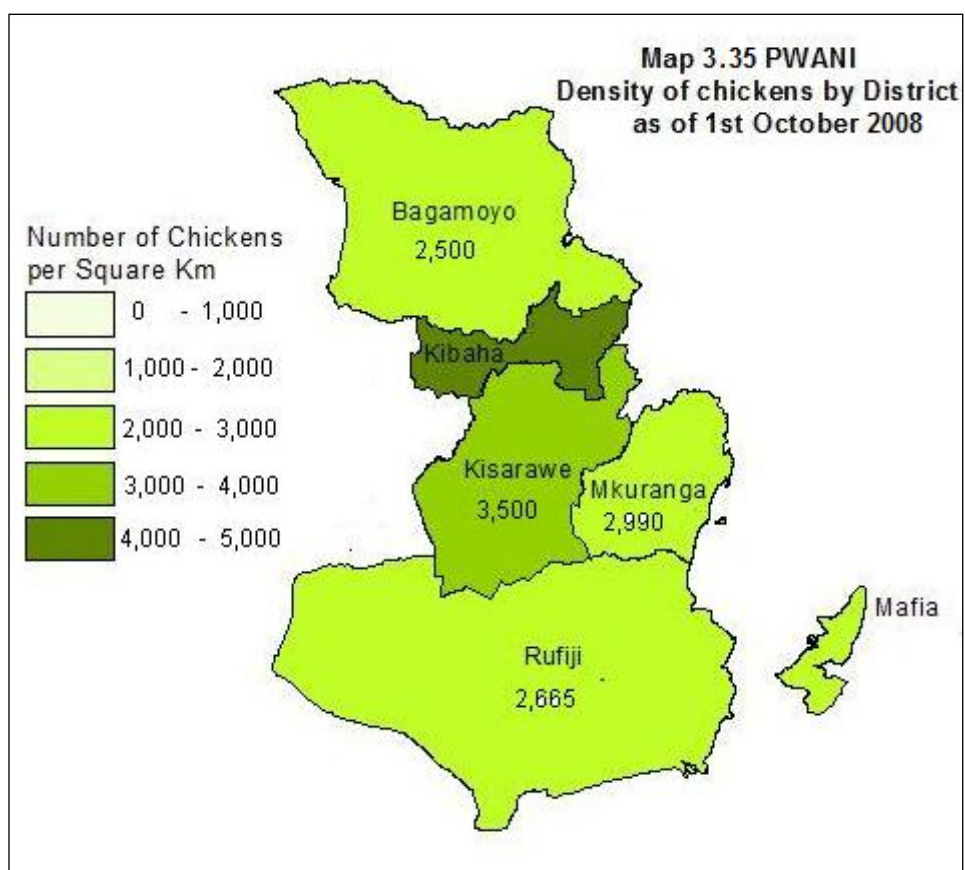
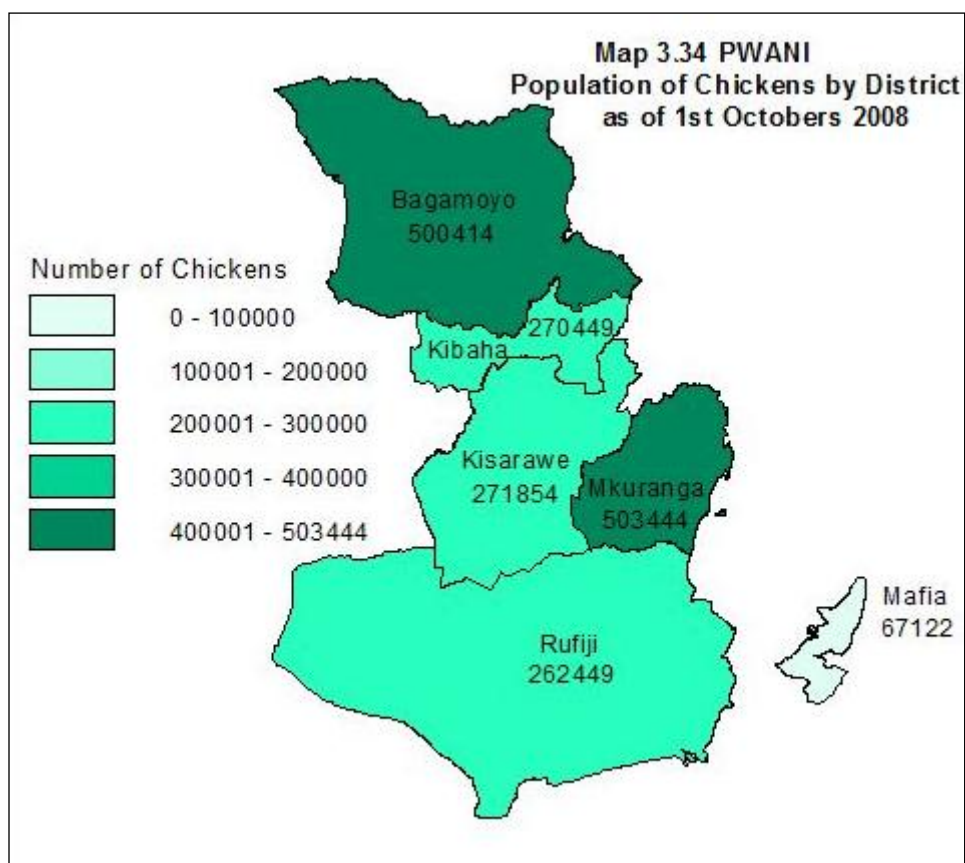
**Table 3.13 Number of Chicken by Type and District as of 1st October 2008**

District	Indigenous Chicken			Layers			Broilers			Total	
	Number of H/holds	No. of Indigenous Chicken	%	No. of H/holds	No. of Layers	%	No. of H/holds	No. of Broilers	%	No. of H/holds	Number of Chicken
Bagamoyo	26,699	422,200	80	443	33,900	6	111	44,314	8	27,253	500,414
Kibaha	11,237	170,717	61	226	72,655	26	226	27,077	10	11,688	270,449
Kisarawe	16,666	271,854	98	0	0	0	0	0	0	16,666	271,854
Mkuranga	27,553	426,642	81	108	75,934	14	217	868	0	27,879	503,444
Rufiji	19,040	261,488	98	87	961	0	0	0	0	19,127	262,449
Mafia	5,172	67,064	96	29	58	0	0	0	0	5,201	67,122
<b>Total</b>	<b>106,367</b>	<b>1,619,965</b>	<b>83</b>	<b>894</b>	<b>183,508</b>	<b>9</b>	<b>553</b>	<b>72,258</b>	<b>4</b>	<b>107,814</b>	<b>1,875,732</b>









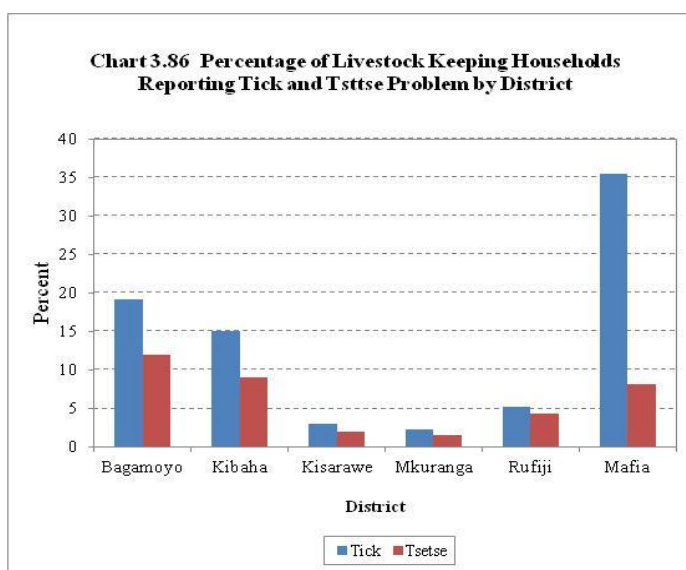


### 3.11 Livestock Pests

#### 3.11.1 Incidences of Ticks and Tsetse Flies

Ticks are carriers of protozoa that cause various tick-borne diseases and the tsetse flies are the causal organisms of trypanosomiasis. 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 (Chart 3.86).

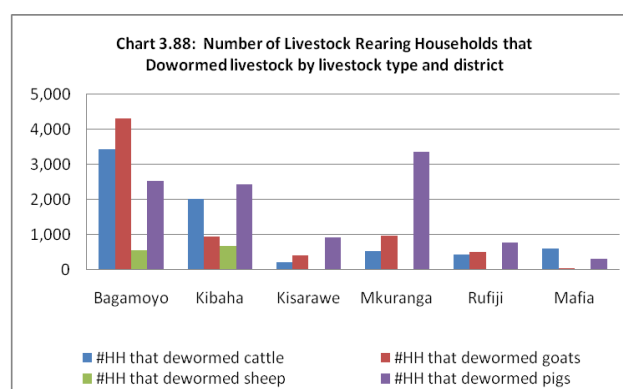
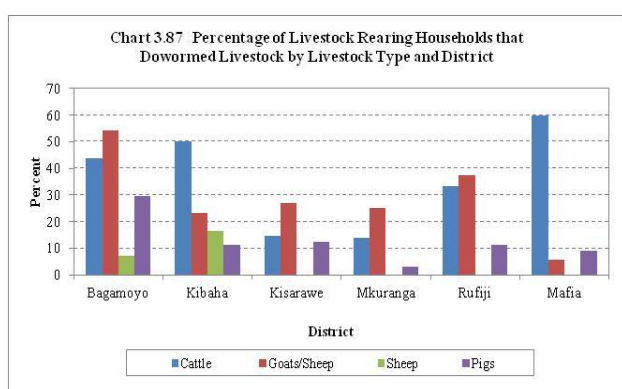
The highest level of tick-related prevalence was recorded in Mafia (35%



of the livestock keeping households) followed by Bagamoyo (19%) and Kibaha (15%). Tick-related problems were reported by 5% or less of the livestock keeping households in Rufiji, Kisarawe and Mkuranga districts, (Chart 3.86 and Map 3.36). Tsetse-related livestock diseases were relatively less prevalent compared to tick-related problems, with the highest recorded average of 12% in Bagamoyo which declined to the lowest level of 2% in Kisarawe and Mkuranga districts, (Chart 3.86).

#### 3.11.2 Livestock Deworming

Deworming of all livestock types was conducted in all districts (Chart 3.87, 3.88 and Table 3.14). Deworming of cattle was least prevalent in Mkuranga district (14%) and most practiced in Mafia district (60%).



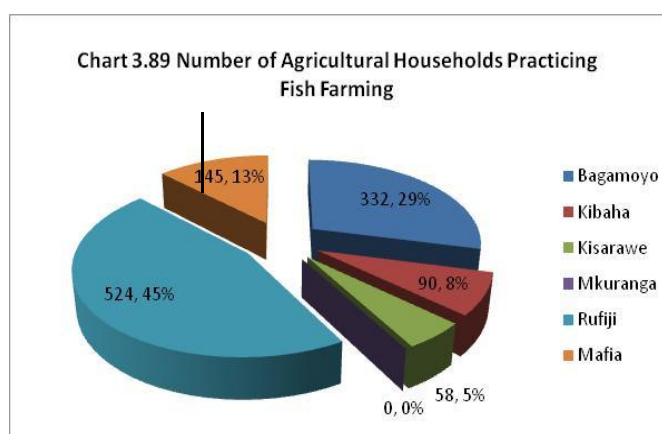
On the other hand, deworming of livestock, by livestock types was at the lowest level for goats and sheep in Mafia (6%) and at the highest level in Bagamoyo district (54%) for goats and cattle. Overall, deworming of pigs was practiced by the least proportion of households (Table 3.14) with the highest (29%) in Bagamoyo and the lowest (3%) in Mkuranga.

**Table 3.14 Number and Percentage of Livestock Rearing Households that Dewormed Livestock by Type of Livestock and District: 2007/08**

District	%Cattle	%Goats	%Sheep	%Pigs	HH that Dewormed Cattle	HH that dewormed Goats	HH that Dewormed Sheep	HH that Dewormed Pigs
Bagamoyo	44%	54%	7%	29%	3,434	4,321	554	2,548
Kibaha	50%	23%	17%	39%	2,031	948	677	2,437
Kisarawe	15%	27%	0%	31%	231	404	-	923
Mkuranga	14%	25%	0%	53%	542	976	-	3,363
Rufiji	33%	38%	0%	24%	437	524	-	786
Mafia	60%	6%	0%	31%	610	58	-	320
<b>TOTALS</b>	<b>37%</b>	<b>36%</b>	<b>6%</b>	<b>36%</b>	<b>7,285</b>	<b>7,230</b>	<b>1,231</b>	<b>10,376</b>

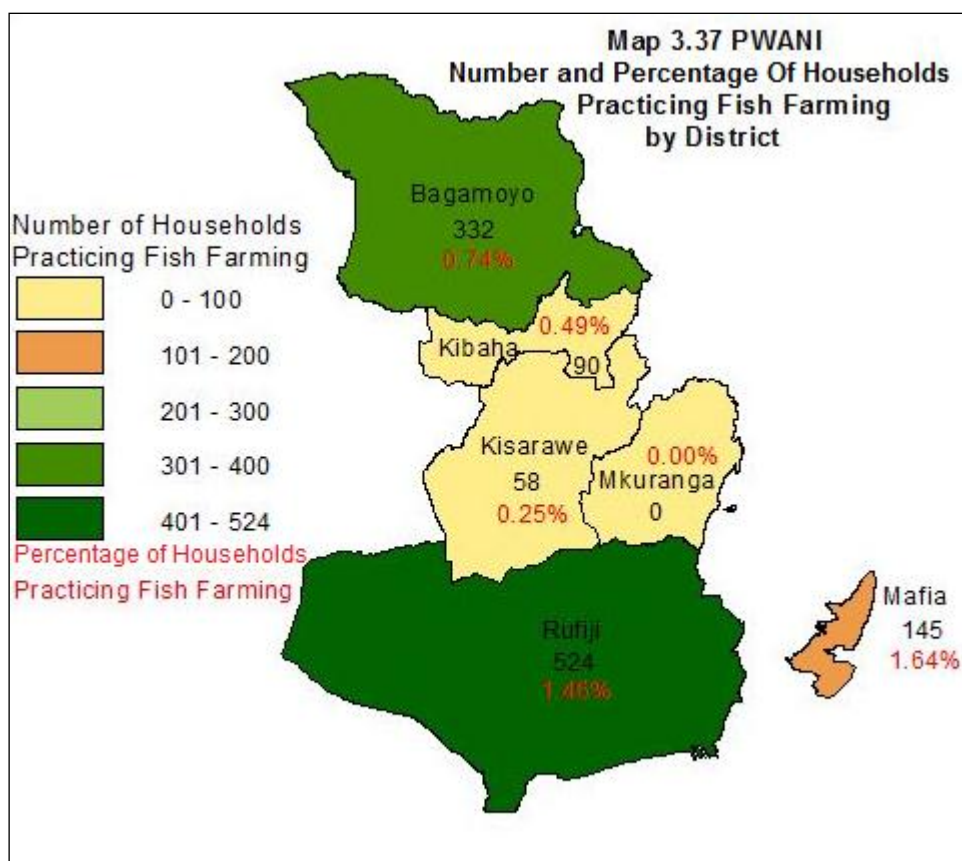
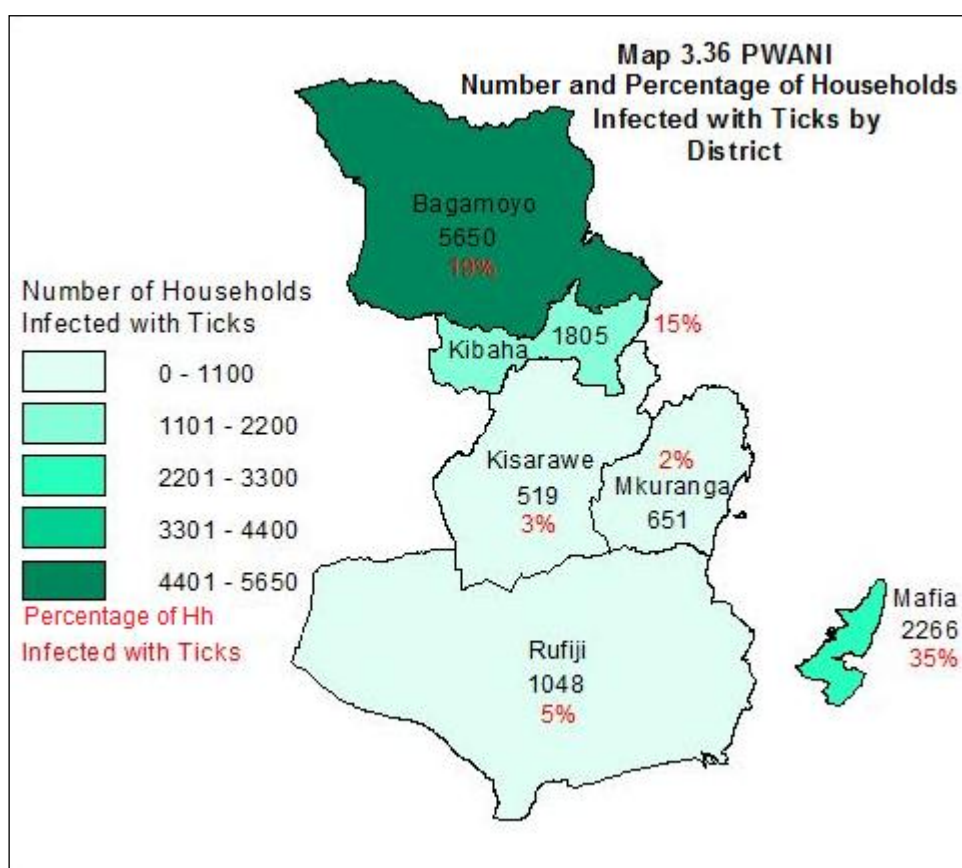
### 3.12 Fish Farming

Fish farming was practiced to a very limited extent (Chart 3.89). An estimated 1,150 households (1% of the total agricultural households in the region) from five districts reported practicing fish farming (Table 3.15 and Map 3.37). Mkuranga was the only district where fish farming was not practiced. However, in the districts where fish farming was practiced, the proportion of households involved was between 0.2 and 1.6%, (Table 3.15).



**Table 3.15: Number of Agricultural Households Practicing Fish Farming by District: 2007/08**

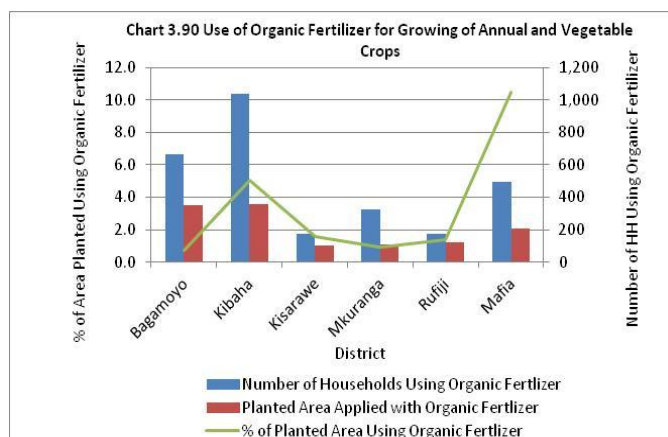
District	Number of households practicing fish farming	%	Number of households not practicing fish farming	%	Total
Bagamoyo	332	0.7	44,868	99	45,200
Kibaha	90	0.5	18,277	100	18,367
Kisarawe	58	0.2	23,356	100	23,414
Mkuranga	0	0.0	43,933	100	43,933
Rufiji	524	1.5	35,372	99	35,896
Mafia	145	1.6	8,717	98	8,862
Total	1,150	0.7	174,523	99	175,672



### 3.13 Contribution of Animals to Crop Production

#### 3.13.1 Use of Organic Fertilizer

The number of households using organic fertilizers in both, which was mostly in the form of animal wastes, was estimated combined total of 5,928 for both the short and long rain season, equivalent to about 3.4% of the total agricultural households in the region (Table 3.16 and Chart 3.90). This implies that the use of organic manure for soil fertility improvement is at a very level.



**Table 3.16** Number of Households and Planted Area by Organic Fertilizer Use and District on Annual and Vegetable Crops During Short and Long Rainy Seasons

Districts	Short Rain Season			Long Rain Season		
	Number of Households using Organic Fertilizer	Planted Area (ha) Applied with Organic Fertilizer	% of Planted area Applied with Organic Fertilizer	Number of Households using Organic Fertilizer	Planted Area (ha) Applied with Organic Fertilizer	% of Planted area using Organic Fertilizer
Bagamoyo	332	179	1.3	665	348	0.8
Kibaha	677	270	6.2	1,038	358	5.1
<b>Kisarawe</b>	<b>231</b>	<b>198</b>	<b>1.9</b>	<b>173</b>	<b>105</b>	<b>1.6</b>
Mkuranga	1,410	507	3.6	325	110	0.9
Rufiji	349	209	1.3	175	124	1.4
Mafia	58	12	1.5	494	210	10.5
<b>Total</b>	<b>3,058</b>	<b>1,375</b>	<b>-</b>	<b>2,870</b>	<b>1,253</b>	<b>-</b>

#### 3.13.2 Area Applied With Organic Manure

Organic manure was applied in all districts but generally applied on very small proportions of the planted area the largest of which was about 6.2% of the planted area during the short rains in Kibaha district (Table 3.16 and Chart 3.90). There was a minor difference in the number of households that used organic fertilizers during the short rains (3,058 households, 51.6% of total number of households that applied organic fertilizers) compared to the long rains (2,870 households 48.4%).

The largest number of households using organic manure (Table 3.16) during the short rains was in Mkuranga district (1,410, households, 45.8% of total households that used organic fertilizer in the region) which was much higher compared to other districts that followed: Kibaha (677 households, 22.1%), Rufiji (349 households, 11.4%), Bagamoyo (332 households, 10.9%), Kisarawe (231 households, 7.6%) and Mafia (58 households, 1.9%). During the long rains, organic fertilizers were used mostly in Kibaha district (1,038 households, 36.2%) followed by Bagamoyo (665 households, 23.2%), Mafia (494 households, 17.2%) and Mkuranga (325 households, 11.3%). Kisarawe and Rufiji each had about 6% of the households using organic fertilizers

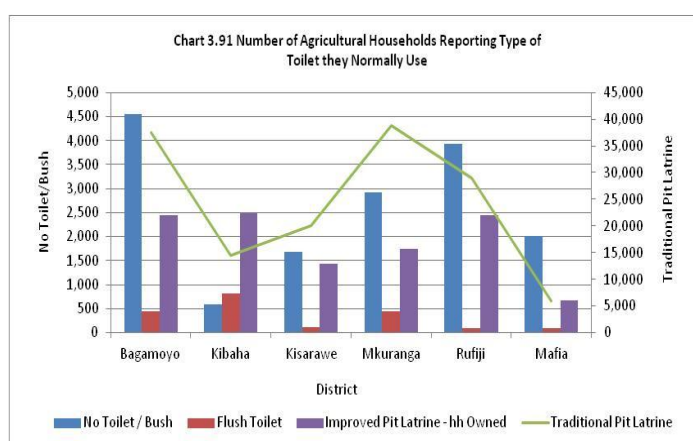
Organic fertilizers were used on 2% of the total planted area in the region (2,630 ha). In all districts except mafia, organic fertilizers were used on between 10 and 25% of the planted area. The largest planted area with organic fertilizers (Table 3.16 and Chart 3.90) was in Kibaha district (628 ha, 23.9% of the total area applied with organic fertilizers) which was comparable to Mkuranga (617 ha, 23.5%) followed by Bagamoyo (527 ha, 20%). The planted areas applied with organic fertilizers in Kisarawe and Rufiji districts were equivalent to 11.5 and 12.7%, respectively, of the total area applied with organic fertilizers in the region. Mafia district had the smallest planted areas with organic fertilizers (222 ha, 8.4%).

### 3.14 Poverty Indicators

The analysis provided in this report relates to poverty indicators for agricultural households as captured in 2007/08 using proxies to help assist the process of tracking poverty levels as per MKUKUTA.

#### 3.14.1 Toilet Facilities

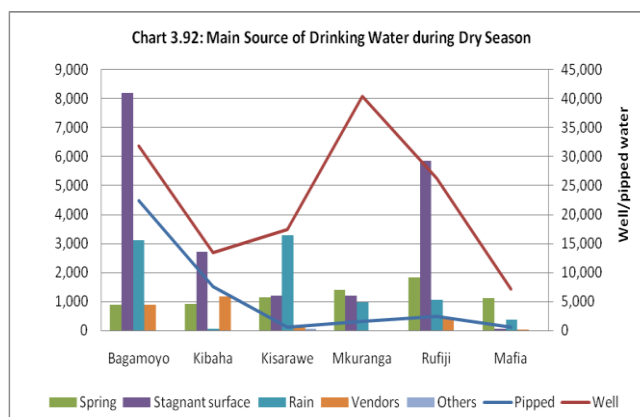
The majority of agricultural households use the traditional pit latrine (145,668, 84% of all sampled households) with a low level of use of improved pit latrines (20,148 households, 7%). Only 1,979 households (1%) reported using flush toilets while about 3% of the households sampled (15,665 households) had no toilet and/or were using the bush, (Chart 3.91 and Map 3.38).



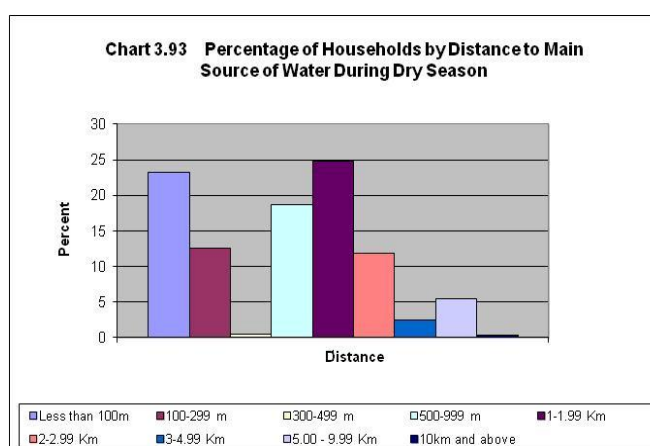


### 3.14.2 Access to Drinking Water

The results on the status of the main sources of drinking water during the dry season (Chart 3.92) indicate that the majority (78,547 households, 45.3% of the total agricultural households) depended on unprotected while others depended on piped water (35,008 households, 20.2%); protected wells (13.2%) and surface water on lake, river or dams, by another (19,220, 11.1%). The other sources of water were used by relatively few households



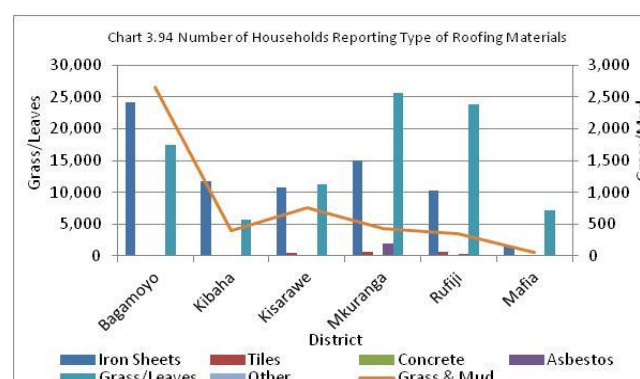
The distance to the main source of drinking water was variable but was in the range of less than 100m to 10 kilometres, (Chart 3.93). The majority (55% of the households) accessed drinking water from a distance of up to a kilometre of which 23% accessed water from within 100 m of their dwellings.



Another 25% of the households accessed water from a distance of between one and two kilometers while 12% covered a distance of 2-3 km to access drinking water. This implies that the remaining 8% of the households were the most affected having to travel 3 to 10 km to access drinking water during the dry season, (Chart 3.93).

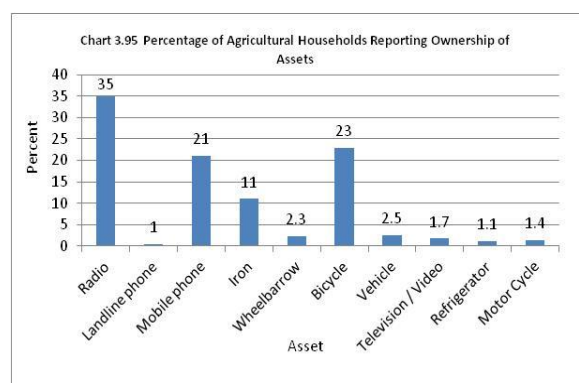
### 3.14.3 Roofing Material

Grass roofing was used in all districts (Chart 3.94 and Map 3.39) by between 15 and 65% of the households. Kibaha district had the lowest proportion of houses roofed using grasses or leaves (6.3%). The highest proportion of households roofed with grass or leaves was in Mafia (82.7% of all houses in the district). In other districts, grasses or leaves were used for roofing by 58.5% of the households in Mkuranga, 67.2% in Rufiji, 48.4% in Kisarawe and 39.0% in Bagamoyo.



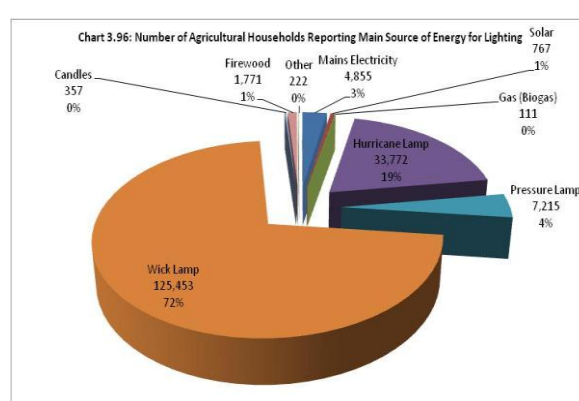
### 3.14.4 Household Assets

Radios were owned by most of agricultural households in Pwani region (Chart 3.95) with 135,340 households (35% of the agricultural households) owning the asset, followed by bicycles (88,665 agricultural households, 23%), mobile phones (82,333, 21%), iron (43,500, 11%), wheel barrow (8,962, 0.2%), television/video (6,760, 0.02%), motorcycle, refrigerator and landline phones (9.78%).



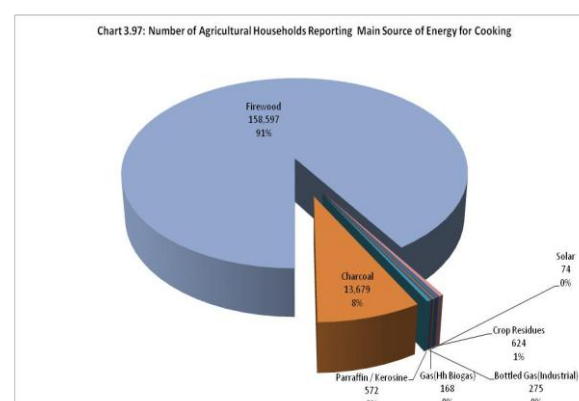
### 3.14.5 Source of lighting energy

Wick lamp was the most common source of lighting energy in the region with 125,453 (72% of agricultural households) using this source of lighting energy (Chart 3.96). This was followed by hurricane lamps (33,772, 19%), mains electricity (4,855, 3%) and other sources (6%).



### 3.14.6 Sources of energy for cooking

The most prevalent source of energy for cooking was fuelwood (Chart 3.97) that was used by 158,567 or 91% of all agricultural households in Pwani region followed by charcoal (13,679, 8%) and solar, crop residues, bottled gas, biogas and paraffin (1%).

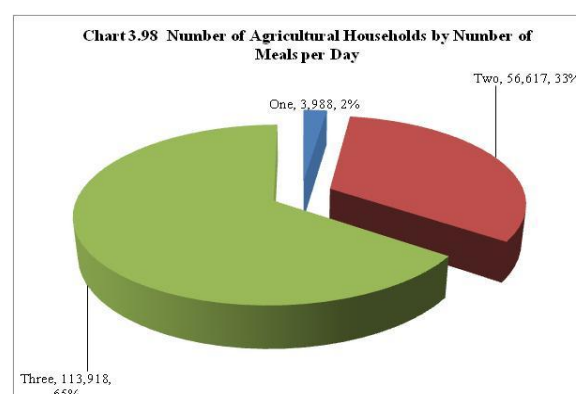


### 3.14.7 Food Consumption Pattern

In this part, we analyse number of meals per day, meat and fish consumption frequencies.

#### 3.14.7.1 Number of meals per day

The majority of households in the region (Chart 3.98) take an average three meals per day (113,918 or 65%)



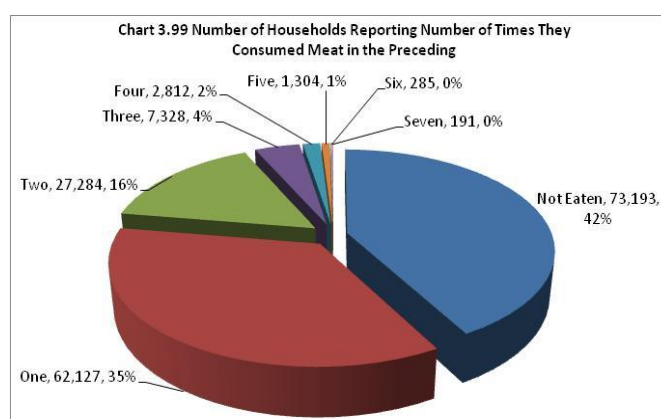
while two thirds either take two meals per day (32%) or one meal per day (2%). There were variations between districts but in all cases, the number of households taking three meals per day was the largest followed by households that took two meals per day. The number of households taking one meal per day was the smallest in all districts and was particularly low in Mafia district with 87 households in this category, (Table 3.17 and Map 3.40)

**Table 3.17 Number of Agricultural Households Reporting Number of Meals the Households Normally has per Day by District, 2007/08**

District	One	Two	Three	Total
Bagamoyo	332	11,743	32,792	44,868
Kibaha	1,038	6,814	10,424	18,277
Kisarawe	750	7,785	14,821	23,356
Mkuranga	1,519	17,790	24,624	43,933
Rufiji	262	9,782	25,328	35,372
Mafia	87	2,702	5,928	8,717
<b>Total</b>	<b>3,988</b>	<b>56,617</b>	<b>113,918</b>	<b>174,523</b>

### 3.14.7.2 Meat Consumption Frequencies

Responses on the meat consumption status during the week preceding the census (Chart 3.99, Map 3.41) indicated that the number of households which had not eaten meat (73,193, 41.9% of total number of agricultural households in the region) was about three times the number of households that had not eaten fish (24,506 households, 14%).



The number of households that ate meat once a week was higher than the households that ate fish at the same frequency. However, generally most households consumed fish more frequently than meat (Tables 3.18 and 3.19 and Chart 3.99). Very few households consumed meat more than thrice a week or fish more than five times a week



**Table 3.18 Number of Agricultural Households Reporting Number of Days the Households Consumed Fish during the Preceding Week by District, 2007/08 Agricultural Year**

District	Not Eaten	One	Two	Three	Four	Five	Six	Seven	Total
Bagamoyo	12,186	10,303	10,081	3,988	3,213	3,656	1,108	332	44,868
Kibaha	4,693	4,648	4,919	2,166	1,083	406	271	90	18,277
Kisarawe	2,941	9,169	4,844	3,345	2,249	461	288	58	23,356
Mkuranga	3,580	5,858	8,027	6,726	5,749	4,881	3,688	5,424	43,933
Rufiji	961	2,096	5,852	5,415	6,987	6,201	3,581	4,280	35,372
Mafia	145	145	349	494	872	1,017	1,511	4,184	8,717
<b>Total</b>	<b>24,506</b>	<b>32,220</b>	<b>34,072</b>	<b>22,134</b>	<b>20,153</b>	<b>16,623</b>	<b>10,447</b>	<b>14,368</b>	<b>174,523</b>

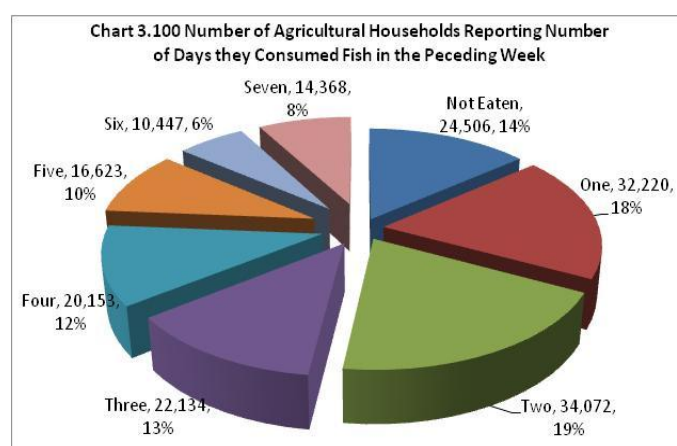
**Table 3.19 Number of Agricultural Households Reporting Number of days the Households Consumed Meat during the Preceding Week by District, 2007/08 Agricultural Year**

District	Not Eaten	One	Two	Three	Four	Five	Six	Seven	Total
Bagamoyo	17,504	13,737	8,974	2,770	775	997	111	0	44,868
Kibaha	7,491	6,589	2,572	1,264	271	45	0	45	18,277
Kisarawe	5,882	10,554	5,017	1,038	807	58	0	0	23,356
Mkuranga	21,045	16,055	5,424	976	434	0	0	0	43,933
Rufiji	15,633	13,013	4,716	1,048	524	175	175	87	35,372
Mafia	5,637	2,179	581	232	0	29	0	58	8,717
<b>Total</b>	<b>73,193</b>	<b>62,127</b>	<b>27,284</b>	<b>7,328</b>	<b>2,812</b>	<b>1,304</b>	<b>285</b>	<b>191</b>	<b>174,523</b>

The number of households that ate meat once a week was higher than the households that ate fish at the same frequency. However, generally most households consumed fish more frequently than meat (Tables 3.18 and 3.19). Very few households consumed meat more than thrice a week or fish more than five times a week

### 3.14.7.3 Fish Consumption Frequencies

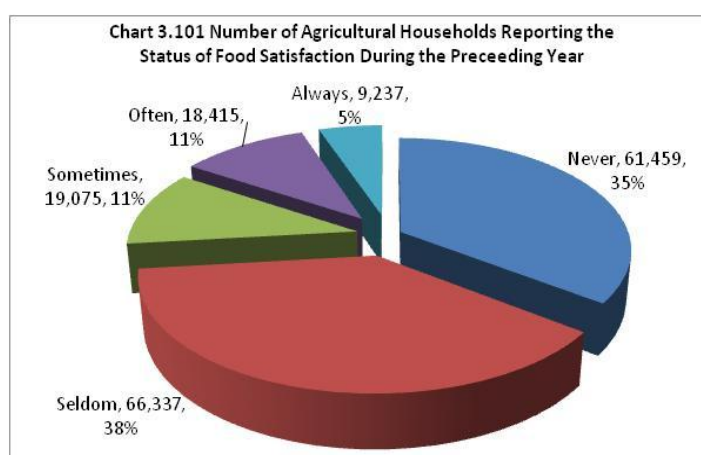
The number of agricultural households that consumed fish during the week preceding the census was 150,016 (66% of all agricultural households in the region). A total of 32,220 or 18% households were eating only once per week. Others were eating twice per week (34,072 19%) thrice (22,134 or 13%), four (20,153 or 12%), five (16,623 or 10%), seven (14,368 or 8%), six (16,623 or 10%). 24,506 or 14% of all agricultural households never ate any meat for the whole week, (Chart 3.100).



### 3.14.8 Food Security

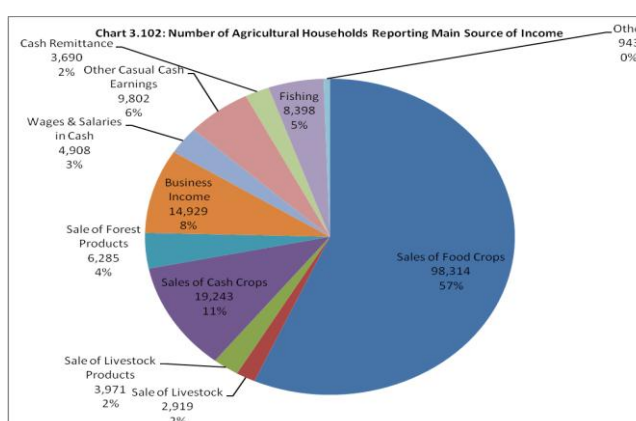
The number of households reporting situations of food insufficiency was used as a proxy for food security status. The food security status was compiled using indications of comparative status of household food sufficiency at different times of the year. All districts experienced periods of food insufficiency of variable magnitude. On the basis of data, the most food secure district was Mafia which had the highest proportion of the households reporting that they have never experienced food insufficiency (43%) and the most food insecure district in the region was Kisarawe where about 8% of the households reported that they always experience food insufficiency.

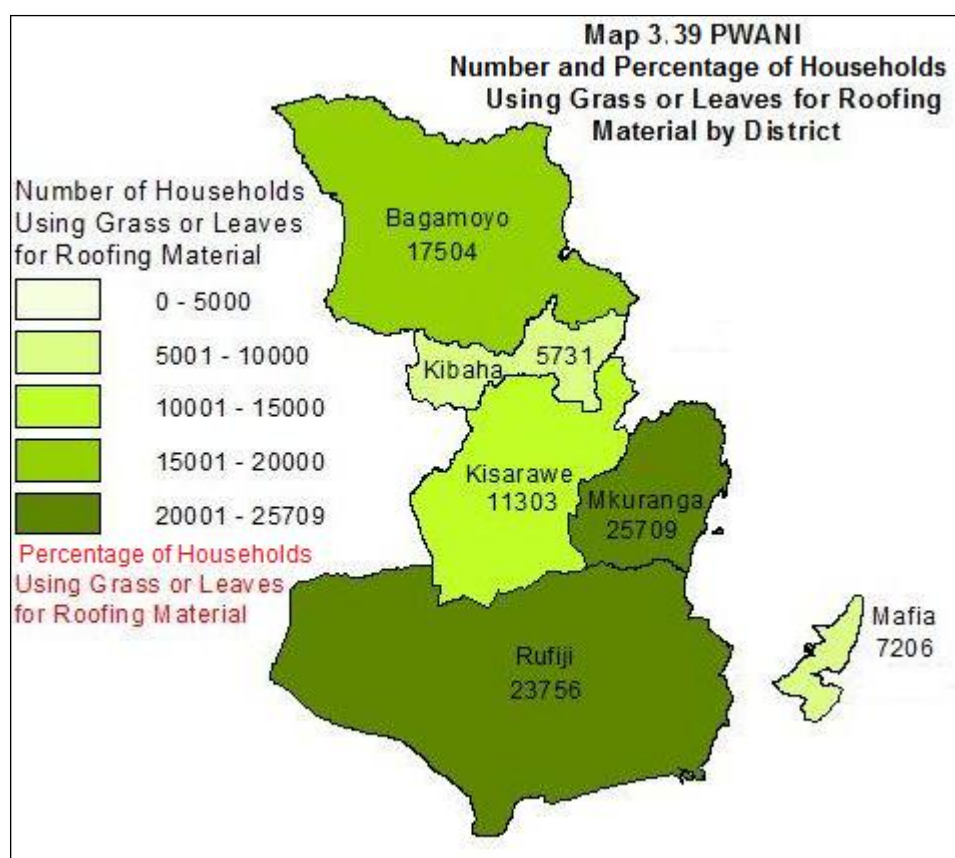
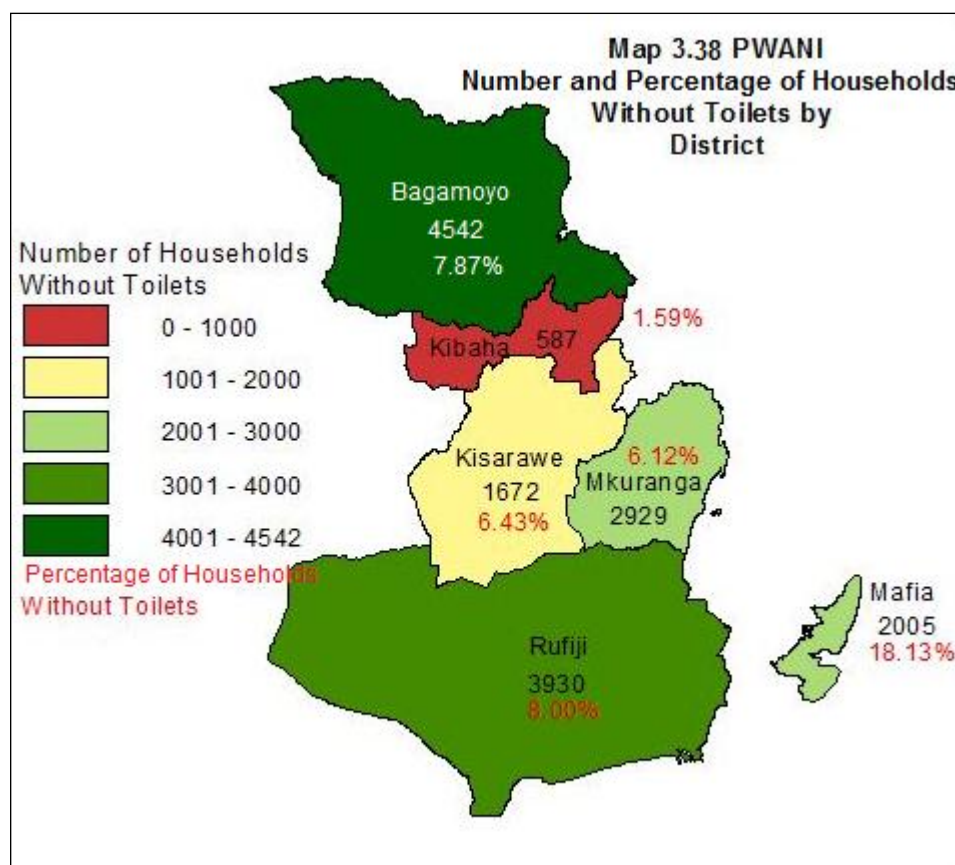
In Pwani region, 66,337 or 38% of all agricultural households seldom have problem of food satisfaction, 61,459 households or 35% have never experience the problem of food. 19,075 households said they sometimes get food problem. It is only 27,652 or 16% of the agricultural households reported that always have the problem, (Chart 3.101).

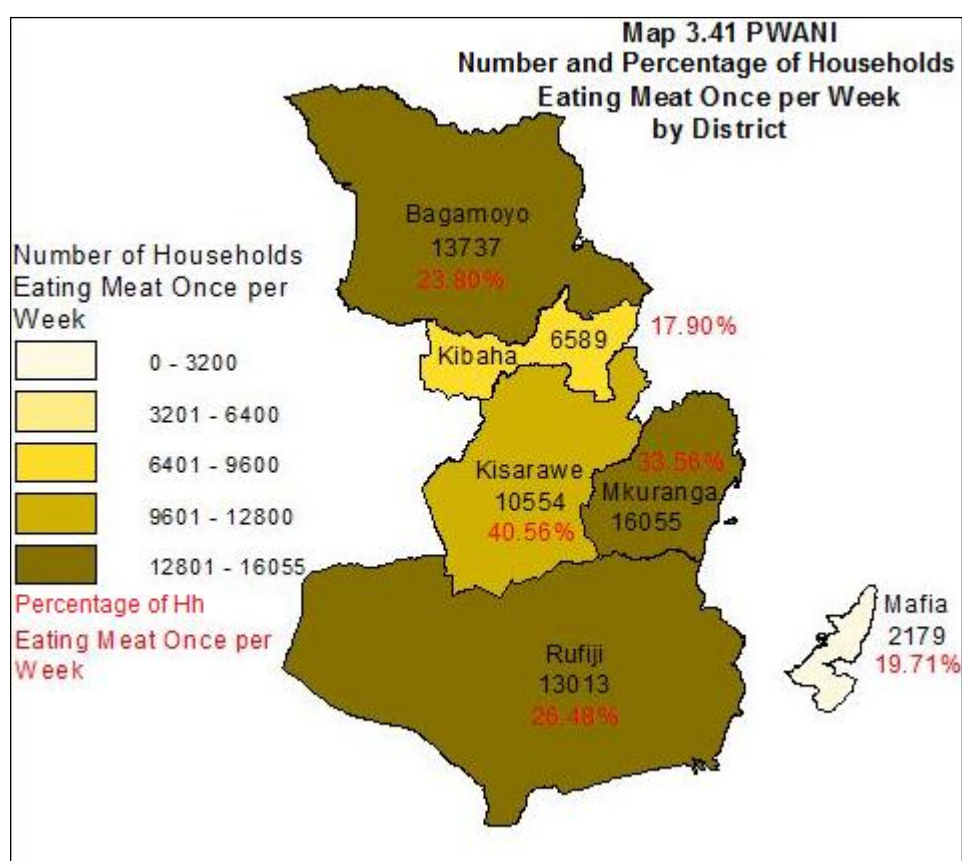
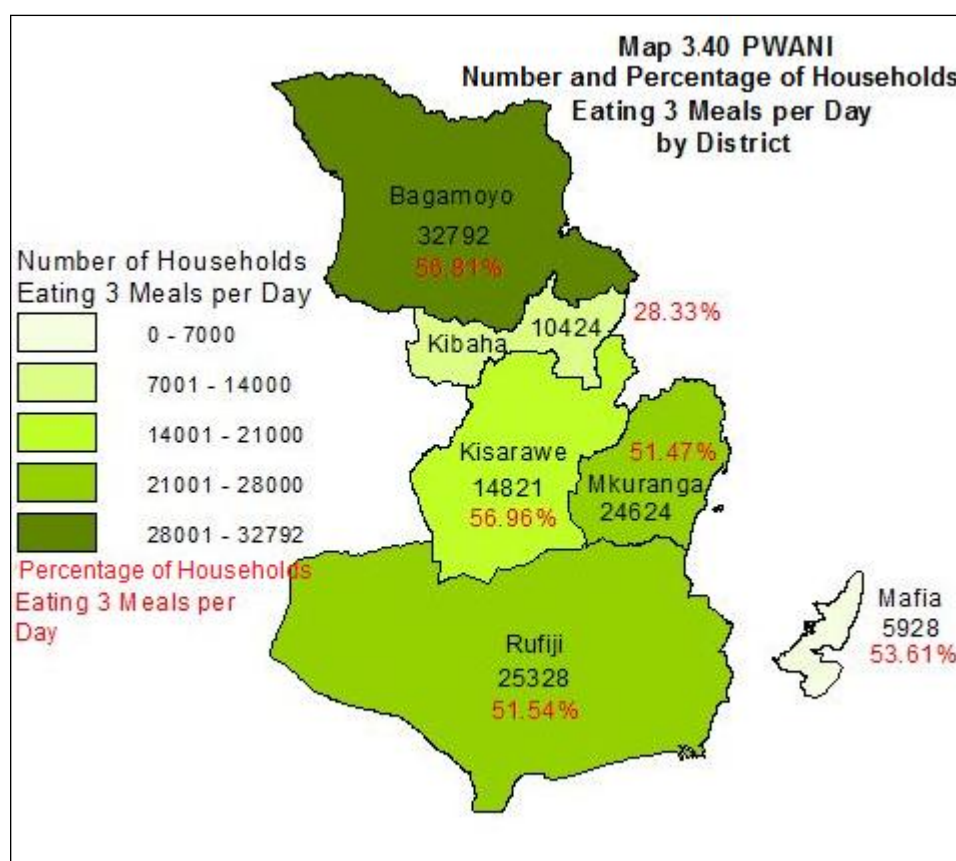


### 3.14.9 Main Source of Cash Income

The main source of cash income of the agricultural households in Pwani region is sales of food as reported by 98,314 or 57% of all agricultural households (Chart 3.102). Other sources of income are sales of cash crops (19,243 or 11%), business income (14,929 or 8%), other casual cash earnings (9,802 or 6%), sale of forest products (6,285 or 4%), wage & salaries (4,908 or 3%), sale of livestock products (3,971 or 2%) and other sources (943 or 5%).







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## PWANI DISTRICT PROFILES

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

### 3.15 Bagamoyo

Bagamoyo district had a total of 44,868 agricultural households; equivalent to 26% of all agricultural households. The second largest number of agricultural households in the region was Mkuranga (25%). The district had a total of 44,868 heads of households; of which 36,670 (82%) were male headed.

These households were involved in various activities including crop/sea weed farming (83%), employment (8%), livestock keeping (6%) and fishing (2%). Bagamoyo ranked the first in the entire region for having the biggest number of agricultural households involved in crop/seaweed farming and livestock keeping.

This district had 60 percent of its agricultural households involved in off-farm income generating activities; of which 48% had one off-farm income, 29% had two and 23% had more than two. Bagamoyo was the last in the region after Kibaha for having agricultural households having one off farm income. It was the first in having its agricultural households in the region involved in more than two off-farm income activities.

The district had the third highest literacy rate among smallholder households. Out of 44,868 heads of households interviewed, 1,930 (1.1%) reported to attend school, 123,959 (71%) completed and 48,634 (28%) never attended school. In terms of education level, The district had the highest number of household members who had primary education (92%). About 5% of the household members had post-primary education and 3% had adult education.

Bagamoyo had the lowest percentage of utilized land area (78,052 ha or 70.6% of all usable agricultural land area) indicating that the available or usable land for agricultural activities was not fully utilized like that of Mafia which was highest (87.6%). Bagamoyo district had an average of 2 ha per household of utilized land which ranks second after Mkuranga. The total planted area was the second largest in the region.



The planted area for cereals crops (maize, paddy, sorghum, finger millet and bulrush millet) ranked first in the region. Bagamoyo ranked first in planted area for maize with a planted area of 43,404 ha. Bagamoyo was also the leading district in regard to the size of planted area per maize-growing households in the region. Paddy production ranked 5<sup>th</sup> with a planted area of only 2,680 ha and the production of sorghum though on a planted area of 2,305 ha was highest in the region. Area planted with cassava was the 4th largest and the production was 12,190 tons. Among the six grouped categories of annual crops, the production of pulses in Bagamoyo was the highest in the region with a planted area of 4,215 ha (29%). In terms of planted area for oilseeds and oil nuts, Bagamoyo ranked first in the region accounting for 66% of the total planted area. However the district no farmer reported to grow groundnuts. Bagamoyo district produced 75% of all sunflower in Pwani region. Fruits and vegetable production was of moderate importance in the district from Mafia as it was second lowest in terms of planted area (179 ha) and production (947 tons). It ranked third in the area planted with tomatoes (123 ha.). No farmer in the sample reported to produce water melon, chillies, eggplant, cucumber, onions, pumpkins or spinach. Total traditional cash crops grown in Pwani were contributed by cotton in Bagamoyo (314 ha.). Compared to other districts in the region, Bagamoyo had the third largest planted area after Mkuranga and Rufiji for permanent crops (16,456ha or 14%) and it was dominated by Cashewnuts (3,509 ha), coconuts (2,244 ha), oranges (1,417 ha), mango (997 ha), bananas (463 ha) and pigeon peas (305ha). Other permanent crops were either not grown or were grown in very small quantities.

As with other districts in the region, cultivation was mainly done using the traditional handhoe (99% of agricultural households). The use of inputs in the region was very small, however district differences existed. Bagamoyo had the largest planted area applied with improved seeds in the region and this was due to the highest planted area of cereals followed by pulses and had the largest number of households using improved seeds.

The district had the second largest area after Kibaha planted with fertilizers (farm yard manure, compost and inorganic fertilizers), however most of this was organic fertilizers (875 ha). Compared to other districts in the region, Bagamoyo district ranked second after Mafia in the level of insecticides, fungicides and insecticide use (91,021 ha). It had the third largest area under irrigation (353ha) after Rufiji and Mkuranga. The most common sources of water for irrigation were rivers and wells used by 111 and 332 agricultural households respectively. Hand bucket/watering cans and gravity were the most common means of irrigation water application.

Bagamoyo was the second district after Kibaha for having agricultural households store crops. The most common method of crop storage was in sacks/open drums and locally made traditional cribs. However the proportion of households not storing crops in the district was 28%; which was the highest in the region. The district had the largest number of households selling crops (27,253 households). Regarding those who did not sell, the main reason for not selling was insufficient production followed by prices being too low. 6,175 agricultural households received agricultural credit of which 78% were men and 22% were women.

Bagamoyo is the second from Rufiji district for receiving extension services from the government. 147,122 agricultural households received this service. The quality of extension services was rated between good and very good by the majority of the households.

The district has an area of 12,186ha which is equivalent to 19% of the total area planted with trees only in the region. It ranks the second after Mkuranga in tree planting. The households that planted trees ranked fourth or 8% of those involved with tree planting in Pwani region.

Bagamoyo district ranks the first in soil erosion prevalence by having 1,773 (4%) agricultural households reporting. Of these, 443 (25%) have erosion control/water harvesting facilities. These structures were mostly terraces (4,985) and erosion control bunds (665). The district had the second largest number of households (4,210, 9%) rearing cattle after Kibaha. It had largest number of cattle in the region (141,583) and 90% of them were indigenous followed by improved dairy (9.9%) and improved beef (0.1%). The district also ranked first in the production of goats, sheep and chicken but had the least number of pigs. Although small, the district had the largest number of layers in the region but no broilers. It ranked first in number of ducks, rabbits and other unspecified livestock; but no turkeys or donkeys were found in the district.

The largest number of households reporting tsetse and tick problems were recorded in Bagamoyo district and it had the largest number of households deworming livestock (3,434 or 47% of the region's households reporting on this). The use of draft animals in the district was absent; fish farming was not only absent in the district but also in the region.

It also had a better access to tarmac roads, all weather roads and the regional capital. Bagamoyo district had the highest percent of households with no toilet facilities (29%). It had the highest percent or second highest percent of households after Kibaha or Mkuranga for owning a radio,

bicycle, iron, mobile phones, wheelbarrow, vehicle and TV/video. It ranked second after Kibaha in percentage (39%) of households using mains electricity. The most common source of energy for lighting was the wick lamp (ranked first though constituted a quarter of all households in the region using this lighting facility) and practically the district ranked first in households using firewood for cooking accounting for 31% of total households in the region who reported using this source of energy. The district had the smallest number of households with grass roofs, ranking 6th although 53% of its households confirmed of grass roofs and 34% confirmed about iron sheet roofs ranking second in the region.

The most common source of drinking water in the region in the wet season was from piped water and surface water (lake/dam/river/stream). Bagamoyo ranked first in households using piped water (20,274 households or 62%) of all responds in the region and also ranked first in use of surface water (lakes/dams/rivers/streams) accounting for 45% in the region. It had the highest percent of households in the district having three meals per day compared to other districts and one 26% of its households had two meals per day, ranking 4th in the region. The district had the second highest percent of households after Mkuranga who that did not eat meat (17,504 or 39%) and highest percent (50%) who did not eat fish during the week prior to enumeration. However 35% of households never had problems with food satisfaction, ranking second in the region.

### **3.16 Kibaha**

Kibaha district had 10% of agriculture households in Pwani region ranked 2<sup>nd</sup> smallest in number of agriculture households in the region. Most smallholders were involved in crops only (81%), followed by crops and livestock (17%). It had a very small number of livestock only (2%) households and no pastoralists. Pastoralists were not captured by this Census in Pwani region.

The most important source of income for smallholder households in Kibaha district was sales of food crops, followed by other casual cash income then sales of cash crops. The district had the second number of households with two off farm income and the second least with smallholder households with one off farm income and more than two off farm income. Compared to other districts in the region, Kibaha had the fourth highest percent of female headed households (14%). Its average household size of 4.6 members per household was the second lowest in the region. It had the second least utilized land area per household (1.47 ha). The district ranked fifth in maize production in the region with a planted area of 5,097 ha, but the planted area per maize growing household came first in the region. The district had the third lowest planted area of paddy in the



region. The area planted per sorghum growing households came first. Bulrush millet, finger millet, wheat and barley were not grown in the district. Cassava production was second lowest, accounting for 8 percent of the quantity harvested in the region as compared to 2002/03 agricultural census the district had 7 percent and it was second lowest. The production of beans in Kibaha district was the second lowest with a planted area of 12 ha. and also ranked lowest in area planted per household (0.1ha.) Kibaha district had the second smallest oilseeds crops planted area in Pwani region with a planted area of 170ha. The district was among the two districts which did not grow groundnuts. The district ranked third in sunflower production with 23 hectares. Vegetable production was of great importance in the district and had the largest planted area for tomatoes (912 ha) in the region but came second in production of water melon. No planted area was recorded for chillies while radish, onions, cabbage, spinach and bitter aubergine were grown in the district. Okra was grown on 476ha and 1,019tons were harvested. Traditional cash crops (e.g. tobacco and cotton) were not grown in Kibaha district. Compared to other districts in the region, Kibaha had the second smallest planted area for permanent crops which was dominated by cashewnuts (1,724 ha), coconuts 1,565 ha), oranges (869 ha), mango (503 ha), and bananas (457 ha) and pigeon peas (946 ha). Other permanent crops were either not grown or were grown in very small quantities. As with other districts in the region, most land clearing and preparation were done by hand slashing, however a very small amount of land preparation was done by bush clearance followed by the option of no land clearing. Ploughing was by hand hoe followed by oxen then tractor ploughing. The use of inputs in the region was very small, however district differences existed. Kibaha had the fourth largest area planted with improved seeds. It had the fourth highest proportion of households using improved seeds. The district had the fourth largest planted area applied with fertilizers (farm yard manure, compost and inorganic fertilisers), most of which was farm yard manure. Compared to other districts in the region, Kibaha district had the highest level of insecticides use (8.1%). The use of fungicides was the highest but it had the fourth application of herbicides in the region. The most common source of water for irrigation were rivers using gravity as well as wells. Bucket/watering cans and water hose were the two most common means of irrigation water application in the district. The most common method of crop storage in Kibaha district was sacks/open drums followed by locally made cribs. Of the households storing crops in the district, it ranked fourth in the number of households storing crops. Kibaha district had the second least number of households selling crops. The district had the second least number of households that received extension services and all of these were from the government (97.5%) and radio/television/news paper. The 3rd highest proportion of households with erosion control structures was found in Kibaha district and these were mostly erosion control bunds and vetiver grass. Also terraces and tree belts were

used in Kibaha district. The district had the second largest number of cattle as well as goat and sheep for pigs the district ranked third in the region and about 90% of cattle were indigenous, followed by dairy cattle. It ranked fourth in the number of chicken in the region and most of those were indigineous, layers and broilers. Ducks, turkeys, rabbits and other livestock in the district were insignificant in number.

It ranked second in the number of households that reported tsetse and tick problems had the third highest percent of households that reported the incidence. Fish farming was practiced in the district and it ranked fourth. The percentage of households without toilet facility in Kibaha district was 4 percent and this was the lowest in the region. The 2007/08 agricultural census reported that the district had 6 percent which was also the lowest in the region. The district ranked first in percentage of house holds that owned television and refridgerator; and it was second for those that owned wheelbarrows and motorcycles. Moreover the district ranked fourth in the region for those that owned vehicles. However, it ranked fifth in percentage of households that owned various household assets and these were radios, bicycles and mobile phones. The most common source of energy for lighting was the wick lamp followed by the hurricane lamp and mains electricity. Practically all the agricultural households used firewood for cooking followed by charcoal. Within the district, roofing materials were ironsheets (64%) and grass/leaves (31%), The most common source of drinking water in the wet season was from piped water followed by unprotected wells and surface water. Though it ranked second last, over half of its households reported having three meals per day. However it ranked fifth in households having two meals compared to other districts. The district had the third lowest percent of households that did not eat meat but a higher percent (19%) of those that did not eat fish during the week prior to enumeration. A low number of households always had problems with food satisfaction and ranked fifth accounting for 15% in the region regarding this aspect.

### **3.17 Kisarawe**

Kisarawe district had the second least number of households in the region and it had the fourth highest percent of households involved in smallholder agriculture in the region. Most smallholders were involved in crops only, followed by crops and livestock. It had a very small number of livestock only households. The district was the second highest with households planting permanent crops in the region. However, the district had the second lowest percent of households with no off-farm activities and third lowest percent of households with more than one member with off-farm income. Compared to other districts in the region, Kisarawe had the second lowest percent of female headed households (13%). Kisarawe had a comparatively moderate literacy rate among

smallholder households and this was reflected by the relatively moderate level of school attendance in the region.

The literacy rate for the heads of household was the fourth in the region. It had the third least utilized land area per household (1.5 ha) and lower than the regional average of 1.8 ha. Eighty six percent of the allocated area was currently being utilized. The district came second in maize production in the region with a planted area of over 9,118 ha. The planted area per household was 0.5 ha which the third was lowest in the region. In paddy production it came third in the region with a planted area of 2,942 hectares. Bulrush millet, finger millet, wheat and barley were not produced in the district. The district had the second largest planted area for cassava accounting for 20 percent of the cassava planted area in the region but first in quantity harvested (35%). The production of beans in Kisarawe was important as it ranked third in planted area. Groundnuts were not that important as the district ranked fourth in the region. Sunflower was grown in a very small land of 12ha in the district. Vegetable production was fairly important in the district and it had the second largest planted area for chillies and the second largest for water melon. Traditional cash crops (e.g. tobacco and cotton) were not grown in Kisarawe district. Permanent crops were fairly important in Kisarawe district as 10.4% of the total permanent crop planted area in Pwani region was found in the district. The most prominent permanent crops in the district were cashew nuts (4,844 ha), oranges (6,401 ha), coconuts (1,153 ha), bananas (537 ha), pigeon peas (804 ha) and mango (627 ha.). Other permanent crops were either not grown or were grown in very small quantities. As with other districts in the region, most land clearing and preparation was done by hand, however a very small amount of land preparation was also done by bush clearance followed by no land clearing. Ploughing was mainly by hand hoe. The use of inputs in the region was very small, however district differences existed. Kisarawe had the second largest planted with improved seeds and this was due to the dominance of cereals, roots and tubers crops. However, it had the third highest percentage of households using improved seeds. The district had the fourth largest area applied with fertilizers (farm yard manure, compost and inorganic fertilizers), and most of this was compost. Compared to other districts in the region, Kisarawe district had the least application of insecticides and fungicides, and it ranked second last in the use of herbicides. It had the second least of households practicing irrigation. The most common source of water for irrigation was the dam, river and canal. Bucket/watering cans and motor pump were the most common means of irrigation water application. The most common method of crop storage in Kisarawe was locally made traditional crib followed by sacks/open drum. However the proportion of households storing crops in the district was the highest in the region. The district had the second least percent of households selling

crops, however for those that did not sell, the main reason for not selling was open market price too low followed by transport price too high.

Kisarawe had the second least number of households receiving crop extension services most of which were from the government. The third highest proportion of households with water harvesting bunds and erosion control bunds were found in Kisarawe district. It also had the only recorded gabions/sandbags and drainage ditches in the region as a measure against erosion in the region. The district had 4% of the total cattle in the region and ranked fifth. The cattle were almost all indigenous followed by the dairy breed. In regard to the number of goats it came fourth while the number of sheep came second in the region. There was no pig production recorded in the district and as for the number of chicken the district ranked third. Most of the chickens were of the indigenous breed, layers and broilers breeds were not recorded. However, the district had around 17% of all the indigenous chicken in the region. The district had the third largest number of ducks and dogs however; other livestock such as rabbits, turkeys, donkey's horses were not recorded.

All other unspecified types of other livestock category in the region were not recorded in Kisarawe. It had the least number of households reporting tsetse and tick problems. Though small, deworming of livestock was moderately practiced as it ranked fourth. Kisarawe did not use draft animals to cultivate the land; although few households reported to practice fish farming and the district ranked second last. Kisarawe district had the least percent (4%) of households with no toilet facilities and it was among the high percentages of households owning household facilities. It ranked third for households that owned landline also it was the fourth district for assets such as radio, bicycles, television/videos, and mobile phones. As for refrigerator and motorcycles the district ranked fifth in the region. The use of mains electricity in cooking was not recorded in the district. The most common source of energy for lighting was the wick lamp followed by hurricane lamp, pressure lamp and firewood. Practically all households used firewood for cooking. The district had the fourth highest percent of households with grass roofs (48%) and 46 percent of households having iron sheets roofing. The most common source of drinking water was the unprotected well followed by protected well. Fourteen percent of the households in the district reported having one or two meals per day and it ranked fourth in households which reported having three meals per day at most. The district had eight and twelve percent of households that did not eat meat and fish respectively during the week prior to enumeration, however the district had the highest percentage (70%) of its households that seldom or never had problems with food satisfaction than the other categories.

### 3.18 Mkuranga

Mkuranga district had the second largest number of agricultural households (43,933) in the region after Bagamoyo and it had about one quarter of households involved in smallholder agriculture in the region. Compared to other districts in the region, Mkuranga had the second highest percent of female headed households (19%) after Rufiji. With an average household size of 5.1 members per household it had the highest for the region.

Mkuranga had a second highest literacy rate among smallholder households and this was reflected by the concomitant high level of school attendance (28%) and completion (25%) in the region. 89% of the households had completed primary education, 3% secondary education, 5% adult education and the rest 3% were under standard one, had post-primary non-secondary education and post-secondary education.

Most smallholders were involved in crops only (87%), followed by crops and livestock (13%). It had neither livestock only households nor pastoralists. The main activities for agricultural households in Mkuranga district were crop/seaweed farming that was practiced by 43% of agricultural households followed by students (34%), fishing (3%), housewifery (1%) and employment in the government/parastatals (1%). 11% of the agricultural households were unable to work because they were too old, retired, sick or disabled. The main sources of income were sale of crops which was practiced by 74% of all agricultural households followed by sale of livestock and their products (1%), forest products (5%), business income and other casual earnings (10%), salaries, wages and remittances (6%) and fishing (1%). The district had the second highest percent (24%) after Bagamoyo for having households with off-farm activities. 71% of the households had one off-income generating activities, 16% had two and 13% had more than two.

Mkuranga district had a total land area of 101,545 ha. This is equivalent to 89% of agricultural land and this ranks the fourth in the region percentagewise. This area was used for crops (82%), fallow, natural bush or planted with trees (7%) or rented to others (1%). It had the third highest unusable area (16%) after Bagamoyo and Kisarawe and the second uncultivated usable area (27%) after Kibaha. The total planted area with the most common annual crops (Cassava, groundnuts, maize, paddy and sorghum) was 19,556ha which was the third largest in the region (17%) after Kibaha and Rufiji.

The district ranked third in area planted with maize (10,513ha or 13%) in the region. Paddy production was very important with a planted area of (7,408ha or 26% of the total area planted with paddy in the region). The area planted with sorghum was (539ha or 12%).

Cassava production in Pwani region was very important and a total of 136,087 tons were produced; of which Mkuranga ranked the second after Kisarawe contributed 21% of total production. Oilseed crops were not important in Mkuranga and accounted for 7.1% of all oilseed crops planted area in the region. However it ranked first in the production of groundnuts (36%). Vegetable production was very important, ranking first in the region by producing 35% of all fruits and vegetables in the region. It had the third lowest area planted with tomatoes and the first in area planted with water Melon. However, it ranked first district planted area for chillies and accounted for 71% of the chillies production in the region. Traditional cash crops (e.g. tobacco and cotton) were not grown in Mkuranga district.

Pwani region had a total harvested area of 117,237 ha planted with perennial crops. Compared to other districts in the region, Mkuranga ranked second after Bagamoyo in planted area with permanent crops (43%). Mkuranga area under perennial crops dominated by cashewnuts (28%), coconuts (18%), oranges (4%), Bananas (2%), mangoes (5%), oranges (4%), palm oil (1%), pigeon peas (1%), and others but grown in relatively smaller quantities summed up to 40% of all perennial crops grown in Mkuranga. In terms of production, Cashewnuts contributed 61% of all regional production followed by pigeon peas (48%), palm oil (48%), coconut (40%), banana (19%), and others but grown in relatively smaller quantities summed up to 30%

The use of inputs in the region was very small, however district differences existed. Mkuranga had the second largest area planted with improved seeds in Pwani region after Bagamoyo and this was due to the high planted area of vegetables and ranked second in the number of households using improved seeds. The district had the second largest planted area applied with fertilizers (farm yard manure, compost and inorganic fertilizers), most of which was compost. Compared to other districts in the region, Mkuranga district ranked third in the level of insecticides use (956ha). In the use of fungicides although small, it ranked second after Rufiji in the region and in the use of herbicides.

It had the second largest area under irrigation after Rufiji compared to other districts with 1,137ha of irrigated land. The most common sources of water for irrigation were canals (50%), rivers (43%)

and lakes (7%). Bucket/watering cans and flood water were the most common means of irrigation water application.

The most common method of crop storage was locally made traditional cribs (38% households). Another method of crop storage was sacks/open drums (32%), improved locally made structures and modern stores (6%), unprotected pile (2%) or in airtight drums (1%). 20% of households did not store crops.

The district had the third largest proportion of households selling crops (57.72%), however for those who did not sell; the main reason for not selling was insufficient production. The main sources of credits were savings and credit, NGO's traders/trade stores and lastly, family friends and relatives. Mkuranga had the third largest number of households receiving extension services and most of these were from the government (95%). The quality of extension services was rated between good and very good by the majority of the households.

The highest proportion of households with erosion control and water harvesting structures were found in Mkuranga district and these were mostly tree belts and erosion control bunds. It had the highest number of vetiver grass, unlike other districts which had none.

The district had the least number of cattle in the region and they were almost all improved dairy followed by indigenous. Goats and also sheep were among lowest. Pigs production ranked second compared to other districts in the region. It had a large number of chicken (all indigenous) and ranked second in turkeys, but no ducks, rabbits or donkeys were recorded. It had the least number of households reporting tsetse and tick problems and it also had the least number of households deworming livestock. It had a better access to health clinics, hospitals and primary and secondary markets compared to other districts. It also had a better access to feeder roads and tarmac roads.

Mkuranga district had 19% of households in the region with no toilet facilities and in this it ranked third in the region. It also ranked fourth in the percentage of households owning radios, bicycles, irons, wheelbarrows and tv/videos but the lowest in mobile phones, and vehicles. It had a low number of households (9%) using mains electricity in the region. The most common source of energy for lighting was the wick lamp followed by hurricane lamp and practically all households used firewood for cooking having a quarter of total households that used firewood in the region.

The district had the second highest percent (9%) of households with grass roofs and 20 percent of households having iron sheets. The most common source of drinking water in the wet season was

the unprotected well followed by unprotected springs. It had the highest percent of households having one meal per day compared to other districts and two thirds of its households have 3 meals per day. The district had the second highest percent of households that did not eat meat and second lowest percent (4%) who did not eat fish during the week prior to enumeration. However, most households never had problems with food satisfaction, ranking first in the region.

### **3.19 Rufiji**

Rufiji district had a total of 35,372 agriculture households; of which 25% are female headed. This number of households is equivalent to 20% of all agricultural households in Pwani region and is the third highest percent of households involved in smallholder agriculture in the region. It has a total of 166,989 members; of which 50% are women. This number of household members is equivalent to 20% of all members in Pwani region. With a household size of 4.6 members per household it ranked the third for having the highest average members per household in the region.

As compared to other districts, Rufiji had relatively low literacy rate among smallholder households members and this was reflected by the district having a school attendance (9%, second lowest), completion (21%, third highest), and third highest percentage of those who never attended school (19%). The literacy rate of heads of households also reflected the same pattern by having a school attendance (9%, second lowest), completion (21%, third highest), and third highest percentage of those who never attended school (19%). 95% of household members had primary education while the rest had secondary education (2.68%), adult education (1.61%) and post-secondary education (0.27%).

Most smallholders were involved in crops only (90%), followed by crops and livestock (10%). It had neither pure pastoralists nor livestock only households. It ranked the third regionally by having agricultural households engaged in crops only (22%) and crops & livestock (13%). The main activities for agricultural households in Rufiji district was crop/seaweed farming that was practiced by 48% of households, followed by fishing (4%), employment in the private sector, NGOs, mission etc (2%), non-farm self employment without employees (2%) and housewifery or unpaid family helpers (2%). No respondent reported to practice fish farming or pure pastoralism. Employment in the government/parastatals, herding, joblessness and non-farm self employment with employees was negligible and was reported by a total of only 1% of the respondents. The rest were not working while jobs were available (1%), students (35%), unable to work, too old, retired, sick or disabled (5%). As compared to other districts in Pwani region, Rufiji ranked the second in fishing



and the third in crop/seaweed farming and having people who are unable to work for different reasons.

The main source of income for the Rufiji district was sale of food and cash crops (71% of all agricultural households) followed by fishing (13%), business income (9%), sale of forest products (2%), wage, salaries and other casual cash earnings (2.6%) and cash remittances (2.4%). As compared to other districts in the region, Rufiji was ranking the first in earning cash from sale of fish products (53%), the second in cash remittances (26%), business income (20%), and sale of cash crops (20%). 69% of Rufiji district agricultural households are involved in one off-farm income, 18% have two and 13% have three. As compared to other districts, Rufiji ranks the third by having 20% of all agricultural households having one off-farm income, the fourth in having two (14%) and third in having more than two (15%) off-farm income source in the region.

Rufiji district had 10,722 ha or 92 percent of agricultural land that was currently being utilized. This percent is second highest from Mafia. The district had the third highest planted area in the region. Maize was the most important annual crop and it was planted on 10,938 ha which was equivalent to 49% of the area under annual crops. This was followed by paddy (47%) and sorghum (3%). Other crops contributed 1%. The district was second in importance for maize production in the region with a planted area of 10,938 ha. Rufiji district had the second largest planted area for oilseeds crops with a planted area of 1,683 ha. In Rufiji district, vegetable production ranked third in importance and it had the smallest planted area for tomatoes (25 ha.) and no water melon. No planted area was recorded for chillies, cucumbers, eggplants, onions and cabbages although they were grown elsewhere in the region. Traditional cash crops (e.g. tobacco and cotton) were not grown in Rufiji district. Compared to other districts in the region, Rufiji had third largest area planted with permanent crops (15%) which were dominated by cashewnuts (10,591 ha, 12% to regional total), coconuts (2,291 ha or 11%), oranges (1,379 ha or 17%), banana (709 ha or 20%), pigeon peas (172ha or 6%), and mangoes (139 ha or 3%). Other permanent crops contributed 10,117ha or 19% of the area planted with permanent crops. In terms of production of permanent crops, Rufiji district ranked the second in the region for production of banana (3,477 tons or 23% of regional total), (tons or %), Cashewnuts (5,617tons or 26%), palm oil (202tons or 26%). It ranked the third for production of coconut (2,713 tons or 9%), oranges (7,558 tons or 17%) and others (29,800 tons or 18%). It ranked the fourth for production of pigeon peas (65 tons or 9%). It ranked the fifth for production of mangoes (441 tons or 17%).

Rufiji had second least area after Mafia planted with improved seeds in the region and this was due to the moderate planted area of cereals and cassava. However, it had the second least proportion of households using improved seeds. The district had the third least planted area applied with fertilizers (farm yard manure, compost and inorganic fertilisers) and most of this was compost. Compared to other districts in the region, Rufiji district ranked fourth in the level of insecticides and fungicides use. It had the first largest area under irrigation compared to other districts with 1,137 ha of irrigated land. The most common sources of water for irrigation were rivers (82%) and dams (4%). Gravity and hand bucket were the two means of irrigation water application in Rufiji district.

The most common method of crop storage in Rufiji district was locally made traditional structure followed by sacks/open drums; however the quantity in tons of stored crops in the district ranked second. Rufiji district was second in the number of households selling crops in the region. Although very small, access to credit in the district was to male headed households only and the source was religious organisations/NGO's/projects only. A moderately large number of households received extension services in Rufiji district and these were from the government (100%).

The district had the fourth largest number of cattle in the region and they were mostly indigenous followed by improved beef. In goats and sheep production it ranked second but had no pigs. It had the third largest number of chicken mostly indigenous and layers but no broilers. In ducks and rabbits production it ranked third but no turkeys and donkeys were found in the district. It had the least number of households reporting tsetse and tick problems and the lowest percent of households de-worming livestock. The district had no households using draft animals or involved in fish farming.

The percentage of households without toilet facility in Rufiji district was highest in the region (32 percent). It was among the districts with moderately high percent of households owning radios, tv/video and mobile phones and a moderate number owning bicycles but ranked first in wheelbarrows. Next to Bagamoyo, it ranked third highest from Kibaha and Bagamoyo in the number of households using mains electricity in the region. The most common source of energy for lighting was the wick lamp. Rufiji ranked third 93% of all households used firewood for cooking accounting for 21% of total households that used firewood in the region. The district had the third highest percent (67%) of its households with grass roofs and ranked fifth with 29 percent of its households having iron sheets. The common source of drinking water in the wet season was from

unprotected wells and unprotected springs. It had moderate to low percent of households having one to two meals per day compared to other districts and two thirds of its households have 3 meals per day. The district had one of the highest percentages of households that did not eat meat but among lowest percentages of who did not eat fish during the week prior to enumeration. However most households never experienced problems with food satisfaction, ranking third in the region.

### **3.20 Mafia**

Mafia district had the smallest number of households in the region as well as the lowest percent of households involved in smallholder agriculture in the region. Most smallholders were involved in crops only, followed by crops and livestock. The livestock only households were not recorded in the district. The most important livelihood activity for smallholder households in Mafia district was annual crop farming, followed by permanent crop farming and off farm income. However, the district had the second lowest percent of households with no off-farm activities and the lowest percent of households with more than one member with off-farm income. Compared to other districts in the region Mafia had the lowest percent of female headed households (6%).

With an average household size of 4.6 members per household it almost had the average for the region. Mafia had the highest literacy rate among smallholder households' members but this was not reflected by the low level of school attendance in the region. It also had the highest percentage of heads of agricultural households with primary education and lowest percentage with secondary education. It had the least utilized land area per household (1.2ha) far below the regional average of 1.8ha but ranked first in percentage of the allocated area currently being utilized (92%).

The district was not important for maize production in the region with a planted area of about 224ha and the planted area per household was 0.3ha which was the lowest in the region. Paddy production an annual crop which ranked second least in the region as for cassava production the district ranked last with a planted area of 1,852 ha. Bulrush millet, finger millet, wheat and barley were not produced in the district. Beans were produced in small quantities only 26 tons. Oilseed crops were of less importance in Mafia with 15 percent of the groundnuts grown in the district. Sunflower was not grown in the district.

Vegetable production was less important in the district. It had the highest planted area under pumpkins (35ha), the least planted area for tomatoes (35ha), while amaranthans, chillies and egg plant the district had less than 5ha each. Other hotcultural crops were not recorded in the district (cabbage, spinach, carrot, cucumber and water melon). The traditional cash crops were not grown in the district.

Permanent crops were of least importance in Mafia district and planted area with permanent crops were dominated by coconuts (3,910 ha), bananas (296 ha), cashewnuts (802 ha), mangoes (97 ha) and oranges (116 ha). Other permanent crops were either not grown or were grown in very small quantities. As with other districts in the region, most land clearing and preparation were done by hand, however a very small area of land preparation was done by bush clearance followed by no land clearing. Ploughing was by hand hoe followed by oxen but no tractor ploughing. The use of inputs in the region was very small, however district differences existed.

Mafia had the least area planted with improved seeds in Pwani region and this was due to limited agricultural activity. It also had the least percentage of households using improved seeds. The district had the second least planted area applied with inorganic fertilizers; however it ranked third in the use of organic fertilizers. Compared to other districts in the region, Mafia district did not use insecticides, fungicides and herbicide. It had the least number of households that practice irrigation compared to other districts with 58 households. The most common sources of water for irrigation were rivers using hand bucket. The most common method of crop storage in Mafia was in local made traditional structures. The proportion of households storing crops in the district was the least in the region. The district had the least percent of households selling crops (3%), however for those that did not sell, the main reason for not selling was open market price too low followed transport cost too high. There was no incidence of access to credit in the district. Mafia had the least number of households receiving crop extension services (3%) and most of these were from the government. The district had the second least proportion of households with water harvesting bunds and erosion control bunds. The district had the fourth largest number of cattle in the region and these were 85% indigenous followed by dairy and beef. The district had few goats about .5% of the total indigenous in the region and sheeps production were not recorded. Mafia had no pigs and had the least number of chickens most of which were indigenous (4%) followed by layers and no broilers. The district had few ducks which was the least in the region, as for donkeys the district ranked highest. The rest of the other livestock were not found in the district ( turkeys, rabbits and horses). It had the second highest number of households reporting tick problems and fourth tsetse problems. Although small, de-worming of livestock was moderately practiced. Mafia was among the three districts that use draft animals to cultivate land, it ranked second highest in the region. Fish farming was practiced in almost all the districts in Pwani region. The district ranked third highest though only 13 percent of households that carried fish farming.

The percentage of households without toilet facility in Mafia district was the least in the region (4 percent). The district ranked last in all assets ownership. It ranked last in the percentage (5%) of

households using mains electricity in the region. The most common source of energy for lighting was the wick lamp but Mafia was the least user of wick lamps and the hurricane lamps. Firewood was used in Mafia for cooking accounting for 10% of total households that used firewood in the region which is higher than the 2002/03 agricultural census results (4.2%). The district had the highest percent 82.7% (2002/03 was 91%) of its households with grass roofs and lowest percent (15.7%) with iron Sheets. The common source of drinking water in the wet season was from unprotected wells followed by protected wells and piped water. It had moderate to low percent of households having two meals per day compared to other districts but among the highest with its households having 3 meals per day. The district had the least percentages of households that neither ate meat nor fish during the week prior to enumeration. Although less than a half of the households (42%) within the district never experienced problems with food satisfaction, the district came last compared to other districts as it accounted for 4% of total households that never had such problems in the region.

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## APPENDIX II: TABLES

## TYPES OF AGRICULTURAL HOUSEHOLDS

## 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	Rural Households NOT involved in Agriculture	% of Total Rural Households	Total Rural Households	% of Total Households	Number of Urban Households	% of Total Households	Total Number of Households
Bagamoyo	44,868	99	3,102	1	47,970	93	9,756	6.7	57,725
Kibaha	18,277	98	6,375	2	24,652	96	12,150	3.7	36,801
Kisarawe	23,356	99	799	1	24,155	95	1,864	5.4	26,019
Mkuranga	43,933	98	1,361	2.3	45,294	98	2551	2.1	47,845
Rufiji	35,372	99	1,375	0.7	36,747	94	12,395	6.2	49,142
Mafia	8,717	96	2,990	3.9	11,707	24	-651	75.7	11,056
<b>Total</b>	<b>174,523</b>	<b>99</b>	<b>16,002</b>	<b>1.5</b>	<b>190,525</b>	<b>96</b>	<b>38,064</b>	<b>4.4</b>	<b>228,589</b>

## 2.1.2 Number of Agricultural Households by Type of Holding and 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	%			
Bagamoyo	34,565	77	1,219	3	0	0	9,084	20	44,868	43,649	10,303
Kibaha	14,757	81	451	2	45	0	3,024	17	18,277	17,780	3,520
Kisarawe	21,626	93	115	0	0	0	1,615	7	23,356	23,241	1,730
Mkuranga	38,293	87	0	0	0	0	5,641	13	43,933	43,933	5,641
Rufiji	31,878	90	0	0	0	0	3,493	10	35,372	35,372	3,493
Mafia	5,346	61	0	0	0	0	3,371	39	8,717	8,717	3,371
<b>Total</b>	<b>146,465</b>	<b>84</b>	<b>1,785</b>	<b>1</b>	<b>45</b>	<b>0</b>	<b>26,228</b>	<b>15</b>	<b>174,523</b>	<b>172,692</b>	<b>28,058</b>

**2.1.3 Number of Households By Type and Size of Holding, 2007/08 Agricultural Year**

Size of Holding	2.1 Type of Agriculture Household									
	Crops only		Livestock only		Pastoralist		Crops and Livestock		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0.01 - 0.50	23,807	16	1,227	69	45	100	4,871	19	29,950	17
0.51 - 1.00	29,636	20	222	12	0	0	4,458	17	34,316	20
1.01 - 1.50	23,756	16	0	0	0	0	3,082	12	26,838	15
1.51 - 2.00	16,987	12	111	6	0	0	2,276	9	19,374	11
2.01 - 2.50	20,762	14	111	6	0	0	3,442	13	24,315	14
2.51 - 3.00	6,298	4	58	3	0	0	1,007	4	7,362	4
3.01 - 3.50	5,618	4	0	0	0	0	1,600	6	7,219	4
3.51 - 4.00	2,358	2	0	0	0	0	665	3	3,023	2
4.01 - 4.50	5,539	4	58	3	0	0	1,517	6	7,114	4
4.51 - 5.00	2,292	2	0	0	0	0	422	2	2,715	2
Above 5	9,411	6	0	0	0	0	2,887	11	12,298	7
Total	146,465	100	1,785	100	45	100	26,228	100	174,523	100

## **HOUSEHOLD DEMOGRAPH**

### 3.1 Number of Heads of Agricultural Households by Sex of Head and District, 2007/08 Agricultural Year

District	Male		Female		Total
	Number	Percent	Number	Percent	
Bagamoyo	36,670	84	8,198	16	44,868
Kibaha	13,629	74	4,648	26	18,277
Kisarawe	18,973	80	4,383	20	23,356
Mkuranga	37,750	90	6,183	10	43,933
Rufiji	27,424	75	7,948	25	35,372
Mafia	6,770	69	1,947	31	8,717
<b>Total</b>	<b>141,216</b>	<b>70</b>	<b>33,307</b>	<b>30</b>	<b>174,523</b>

### 3.2 Number of Household Members by District and Sex, 2007/08 Agricultural Year

District	Male		Female		Total	%
	Number	Percent	Number	Percent		
Bagamoyo	105,135	49	109,012	51	214,147	100
Kibaha	41,066	49	42,375	51	83,441	100
Kisarawe	49,423	50	49,596	50	99,018	100
Mkuranga	109,779	49	116,179	51	225,959	100
Rufiji	83,931	50	83,058	50	166,989	100
Mafia	19,759	49	20,427	51	40,186	100
<b>Total</b>	<b>409,093</b>	<b>49</b>	<b>420,647</b>	<b>51</b>	<b>829,740</b>	<b>100</b>

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

Age Group	Sex					
	Male		Female		Total	
	Number	%	Number	%	Number	%
Less than 4	49,741	49	51,149	51	100,889	100
5 - 9	56,915	51	55,451	49	112,365	100
10 - 14	63,487	53	57,433	47	120,920	100
15 - 19	50,468	53	45,105	47	95,573	100
20 - 24	26,532	44	33,769	56	60,300	100
25 - 29	24,231	44	31,077	56	55,309	100
30 - 34	18,599	41	26,586	59	45,185	100
35 - 39	20,295	46	23,974	54	44,269	100
40 - 44	16,402	47	18,798	53	35,200	100
45 - 49	17,755	51	17,373	49	35,128	100
50 - 54	13,212	52	12,305	48	25,517	100
55 - 59	10,629	50	10,774	50	21,403	100
60 - 64	10,655	53	9,307	47	19,961	100
65 - 69	8,955	53	7,935	47	16,890	100
70 - 74	8,965	56	7,117	44	16,081	100
75 - 79	5,364	59	3,777	41	9,141	100
80 - 84	2,866	43	3,757	57	6,623	100
Above 85	4,022	45	4,961	55	8,983	100
<b>Total</b>	<b>409,093</b>	<b>49</b>	<b>420,647</b>	<b>51</b>	<b>829,740</b>	<b>100</b>

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

District	Married						Not Married					
	Male		Female		Total		Male		Female		Total	
Bagamoyo	33,014	94	1,994	6	35,008	100	1,440	59	997	41	2,437	100
Kibaha	10,740	96	496	4	11,237	100	857	53	767	47	1,625	100
Kisarawe	15,686	96	634	4	16,320	100	1,672	60	1,096	40	2,768	100
Mkuranga	34,821	95	1,736	5	36,557	100	542	71	217	29	759	100
Rufiji	24,979	89	3,144	11	28,123	100	1,572	62	961	38	2,533	100
Mafia	6,276	91	639	9	6,916	100	232	89	29	11	262	100
<b>Total</b>	<b>125,516</b>	<b>94</b>	<b>8,644</b>	<b>6</b>	<b>134,160</b>	<b>100</b>	<b>6,317</b>	<b>61</b>	<b>4,067</b>	<b>39</b>	<b>10,384</b>	<b>100</b>



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

District	Living together						Separated					
	Male		Female		Total		Male		Female		Total	
Bagamoyo	665	75	222	25	886	100	1,108	36	1,994	64	3,102	100
Kibaha	857	79	226	21	1,083	100	812	39	1,264	61	2,076	100
Kisarawe	865	88	115	12	980	100	577	40	865	60	1,442	100
Mkuranga	542	50	542	50	1,085	100	1,627	52	1,519	48	3,146	100
Rufiji	87	25	262	75	349	100	611	20	2,445	80	3,057	100
Mafia	0	0	174	100	174	100	174	30	407	70	581	100
<b>Total</b>	<b>3,017</b>	<b>66</b>	<b>1,541</b>	<b>34</b>	<b>4,558</b>	<b>100</b>	<b>4,910</b>	<b>37</b>	<b>8,494</b>	<b>63</b>	<b>13,403</b>	<b>100</b>

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

District	Widowed						Total					
	Male		Female		Total		Male		Female		Total	
Bagamoyo	443	13	2,991	87	3,434	100	36,670	82	8,198	18	44,868	100
Kibaha	361	16	1,895	84	2,256	100	13,629	75	4,648	25	18,277	100
Kisarawe	173	9	1,672	91	1,845	100	18,973	81	4,383	19	23,356	100
Mkuranga	217	9	2,170	91	2,387	100	37,750	86	6,183	14	43,933	100
Rufiji	175	13	1,135	87	1,310	100	27,424	78	7,948	22	35,372	100
Mafia	87	11	697	89	785	100	6,770	78	1,947	22	8,717	100
<b>Total</b>	<b>1,456</b>	<b>12</b>	<b>10,561</b>	<b>88</b>	<b>12,017</b>	<b>100</b>	<b>141,216</b>	<b>81</b>	<b>33,307</b>	<b>19</b>	<b>174,523</b>	<b>100</b>

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

District	Yes						No					
	Male		Female		Total		Male		Female		Total	
Bagamoyo	13,848	86	2,326	14	16,175	100	22,822	80	5,761	20	28,582	100
Kibaha	4,287	85	767	15	5,054	100	9,341	71	3,881	29	13,222	100
Kisarawe	6,228	89	807	11	7,036	100	12,687	78	3,576	22	16,263	100
Mkuranga	11,824	92	976	8	12,800	100	25,818	83	5,207	17	31,025	100
Rufiji	11,616	76	3,668	24	15,284	100	15,808	79	4,280	21	20,088	100
Mafia	2,237	79	610	21	2,848	100	4,533	77	1,337	23	5,870	100
<b>Total</b>	<b>50,041</b>	<b>85</b>	<b>9,156</b>	<b>15</b>	<b>59,196</b>	<b>100</b>	<b>91,009</b>	<b>79</b>	<b>24,040</b>	<b>21</b>	<b>115,049</b>	<b>100</b>

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

District	Don't know						Total					
	Male		Female		Total		Male		Female		Total	
Bagamoyo	0	0	111	100	111	100	36,670	82	8,198	18	44,868	100
Kibaha	0	0	0	0	0	0	13,629	75	4,648	25	18,277	100
Kisarawe	58	100	0	0	58	100	18,973	81	4,383	19	23,356	100
Mkuranga	108	100	0	0	108	100	37,750	86	6,183	14	43,933	100
Rufiji	0	0	0	0	0	0	27,424	78	7,948	22	35,372	100
Mafia	0	0	0	0	0	0	6,770	78	1,947	22	8,717	100
<b>Total</b>	<b>166</b>	<b>60</b>	<b>111</b>	<b>40</b>	<b>277</b>	<b>100</b>	<b>141,216</b>	<b>81</b>	<b>33,307</b>	<b>19</b>	<b>174,523</b>	<b>100</b>

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

District	Yes							No				
	Male	%	Female	%	Total	%	Male	%	Female	%	Total	%
Bagamoyo	21,935	83	4,542	17	26,478	100	14,734	81	3,545	19	18,279	100
Kibaha	6,047	80	1,534	20	7,581	100	7,581	71	3,114	29	10,695	100
Kisarawe	10,034	87	1,442	13	11,476	100	8,881	75	2,941	25	11,822	100
Mkuranga	17,465	91	1,736	9	19,201	100	20,177	82	4,448	18	24,624	100
Rufiji	15,895	74	5,590	26	21,485	100	11,529	83	2,358	17	13,887	100
Mafia	4,300	80	1,075	20	5,376	100	2,470	74	872	26	3,342	100
<b>Total</b>	<b>75,678</b>	<b>83</b>	<b>15,919</b>	<b>17</b>	<b>91,596</b>	<b>100</b>	<b>65,372</b>	<b>79</b>	<b>17,277</b>	<b>21</b>	<b>82,650</b>	<b>100</b>

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

District	Don't know						Total					
	Male	%	Female	%	Total	%	Male	%	Female	%	Total	%
Bagamoyo	0	0	111	100	111	100	36,670	82	8,198	18	44,868	100
Kibaha	0	0	0	0	0	0	13,629	75	4,648	25	18,277	100
Kisarawe	58	100	0	0	58	100	18,973	81	4,383	19	23,356	100
Mkuranga	108	100	0	0	108	100	37,750	86	6,183	14	43,933	100
Rufiji	0	0	0	0	0	0	27,424	78	7,948	22	35,372	100
Mafia	0	0	0	0	0	0	6,770	78	1,947	22	8,717	100
<b>Total</b>	<b>166</b>	<b>60</b>	<b>111</b>	<b>40</b>	<b>277</b>	<b>100</b>	<b>141,216</b>	<b>81</b>	<b>33,307</b>	<b>19</b>	<b>174,523</b>	<b>100</b>

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

District	Swahili		Swahili & English		Any Other Language		Don't Read / Write		Total
	Number	%	Number	%	Number	%	Number	%	
Bagamoyo	133,606	70	6,647	3.5	0	0.0	49,853	26.2	190,107
Kibaha	54,153	70	7,627	9.9	0	0.0	15,569	20.1	77,349
Kisarawe	58,650	67	4,037	4.6	58	0.1	24,510	28.1	87,254
Mkuranga	127,027	65	9,980	5.1	868	0.4	57,059	29.3	194,934
Rufiji	100,962	70	11,092	7.7	262	0.2	31,703	22.0	144,019
Mafia	25,832	73	2,179	6.2	29	0.1	7,148	20.3	35,188
<b>Total</b>	<b>500,230</b>	<b>69</b>	<b>41,562</b>	<b>5.7</b>	<b>1,217</b>	<b>0.2</b>	<b>185,842</b>	<b>25.5</b>	<b>728,850</b>

**3.8 Number of Heads of Agricultural Households By Status of writing and reading Languages, Sex of Head and District, 2007/08 Agricultural Year**

District	Swahili						Swahili & English					
	Male	%	Female	%	Total	%	Male	%	Female	%	Total	%
Bagamoyo	27,142	88	3,767	12	30,909	100	1,108	100	332	0	1,440	100
Kibaha	9,973	81	2,347	19	12,320	100	1,670	89	226	11	1,895	100
Kisarawe	13,841	91	1,326	9	15,167	100	1,038	94	115	6	1,153	100
Mkuranga	26,469	93	1,844	7	28,313	100	2,170	100	108	0	2,278	100
Rufiji	18,428	80	4,716	20	23,144	100	2,358	93	262	7	2,620	100
Mafia	5,463	84	1,075	16	6,538	100	174	67	87	33	262	100
<b>Total</b>	<b>101,316</b>	<b>87</b>	<b>15,075</b>	<b>13</b>	<b>116,391</b>	<b>100</b>	<b>8,518</b>	<b>95</b>	<b>1,131</b>	<b>5</b>	<b>9,649</b>	<b>100</b>

**Cont. 3.8 Number of Heads of Agricultural Households By Status of Writing and Reading Languages, Sex of Head and District, 2007/08 Agricultural Year**

District	Any Other Language						Don't Read / Write					
	Male	%	Female	%	Total	%	Male	%	Female	%	Total	%
Bagamoyo	0	100	0	0	503	100	8,420	67	4,099	33	12,519	100
Kibaha	0	100	0	0	119	100	1,986	49	2,076	51	4,061	100
Kisarawe	58	0	0	0	0	0	4,037	58	2,941	42	6,978	100
Mkuranga	325	40	344	60	577	100	8,787	68	4,231	33	13,017	100
Rufiji	87	100	0	0	232	100	6,550	69	2,969	31	9,520	100
Mafia	29	100	0	0	499	100	1,104	58	785	42	1,889	100
<b>Total</b>	<b>499</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>30,883</b>	<b>64</b>	<b>17,101</b>	<b>36</b>	<b>47,984</b>	<b>100</b>

**Cont. 3.8 Number of Heads of Agricultural Households By Status of Writing and Reading Languages, Sex of Head and District, 2007/08 Agricultural Year**

District	Total					
	Male	%	Female	%	Total	%
Bagamoyo	36,670	82	8,198	18	44,868	100
Kibaha	13,629	75	4,648	25	18,277	100
Kisarawe	18,973	81	4,383	19	23,356	100
Mkuranga	37,750	86	6,183	14	43,933	100
Rufiji	27,424	78	7,948	22	35,372	100
Mafia	6,770	78	1,947	22	8,717	100
<b>Total</b>	<b>141,216</b>	<b>81</b>	<b>33,307</b>	<b>19</b>	<b>174,523</b>	<b>100</b>

**3.9 Number of Household Members by Education Status and District**

District	Attending School	%	Completed	%	Never Attended to School	%	Total
Bagamoyo	554	34	31,574	41	12,740	25	44,868
Kibaha	226	36	14,080	46	3,971	19	18,277
Kisarawe	346	32	15,513	41	7,497	27	23,356
Mkuranga	542	35	30,374	37	13,017	28	43,933
Rufiji	175	36	25,765	45	9,432	19	35,372
Mafia	87	34	6,654	47	1,976	20	8,717
<b>Total</b>	<b>1,930</b>	<b>34</b>	<b>123,959</b>	<b>41</b>	<b>48,634</b>	<b>24</b>	<b>174,523</b>

**3.10 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	
Bagamoyo	554	100	0	0	554	100	27,585	87	3,988	13	31,574	100
Kibaha	226	100	0	0	226	100	11,462	81	2,617	19	14,080	100
Kisarawe	346	100	0	0	346	100	14,129	91	1,384	9	15,513	100
Mkuranga	434	80	108	20	542	100	28,530	94	1,844	6	30,374	100
Rufiji	87	50	87	50	175	100	20,786	81	4,978	19	25,765	100
Mafia	58	67	29	33	87	100	5,608	84	1,046	16	6,654	100
<b>Total</b>	<b>1,705</b>	<b>88</b>	<b>225</b>	<b>12</b>	<b>1,930</b>	<b>100</b>	<b>108,101</b>	<b>87</b>	<b>15,858</b>	<b>13</b>	<b>123,959</b>	<b>100</b>

**Cont. 3.10 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	
Bagamoyo	8,530	67	4,210	33	12,740	100	36,670	82	8,198	18	44,868	100
Kibaha	1,940	49	2,031	51	3,971	100	13,629	75	4,648	25	18,277	100
Kisarawe	4,498	60	2,999	40	7,497	100	18,973	81	4,383	19	23,356	100
Mkuranga	8,787	68	4,231	33	13,017	100	37,750	86	6,183	14	43,933	100
Rufiji	6,550	69	2,882	31	9,432	100	27,424	78	7,948	22	35,372	100
Mafia	1,104	56	872	44	1,976	100	6,770	78	1,947	22	8,717	100
<b>Total</b>	<b>31,410</b>	<b>65</b>	<b>17,224</b>	<b>35</b>	<b>48,634</b>	<b>100</b>	<b>141,216</b>	<b>81</b>	<b>33,307</b>	<b>19</b>	<b>174,523</b>	<b>100</b>

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

	Male						Female						Total					
	Can Read and Write		Can not Read and Write		Total		Can Read and Write		Can not Read and Write		Total		Can Read and Write		Can not Read and Write	Total		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Bagamoyo	72,564	77	19,166	23	91,730	100	67,689	50	30,687	50	98,377	100	98,377	72	49,853	28	190,107	100
Kibaha	31,860	85	5,641	15	37,501	100	29,920	55	9,928	45	39,848	100	39,848	78	15,569	22	77,349	100
Kisarawe	35,005	79	9,054	21	44,059	100	27,739	33	15,455	67	43,194	100	43,194	70	24,510	30	87,254	100
Mkuranga	73,114	77	22,238	23	95,352	100	64,761	32	34,821	68	99,582	100	99,582	70	57,059	30	194,934	100
Rufiji	59,564	76	13,712	24	73,276	100	52,752	63	17,992	37	70,743	100	70,743	73	31,703	27	144,019	100
Mafia	14,296	84	3,138	16	17,434	100	13,744	60	4,010	40	17,754	100	17,754	78	7,148	22	35,188	100
<b>Total</b>	<b>286,403</b>	<b>78</b>	<b>72,949</b>	<b>22</b>	<b>359,352</b>	<b>100</b>	<b>256,605</b>	<b>49</b>	<b>112,893</b>	<b>51</b>	<b>369,498</b>	<b>100</b>	<b>369,498</b>	<b>73</b>	<b>185,842</b>	<b>27</b>	<b>728,850</b>	<b>100</b>

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

	Male						Female						Total					
	Can Read and Write		Can not Read and Write		Total		Can Read and Write		Can not Read and Write		Total		Can Read and Write		Can not Read and Write		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Bagamoyo	28,250	77	8,420	23	36,670	100	4,099	50	4,099	50	8,198	100	32,349	72	12,519	28	44,868	100
Kibaha	11,643	85	1,986	15	13,629	100	2,572	55	2,076	45	4,648	100	14,215	78	4,061	22	18,277	100
Kisarawe	14,936	79	4,037	21	18,973	100	1,442	33	2,941	67	4,383	100	16,378	70	6,978	30	23,356	100
Mkuranga	28,963	77	8,787	23	37,750	100	1,953	32	4,231	68	6,183	100	30,916	70	13,017	30	43,933	100
Rufiji	20,874	76	6,550	24	27,424	100	4,978	63	2,969	37	7,948	100	25,852	73	9,520	27	35,372	100
Mafia	5,666	84	1,104	16	6,770	100	1,162	60	785	40	1,947	100	6,828	78	1,889	22	8,717	100
<b>Total</b>	<b>110,333</b>	<b>78</b>	<b>30,883</b>	<b>22</b>	<b>141,216</b>	<b>100</b>	<b>16,206</b>	<b>49</b>	<b>17,101</b>	<b>51</b>	<b>33,307</b>	<b>100</b>	<b>126,539</b>	<b>73</b>	<b>47,984</b>	<b>27</b>	<b>174,523</b>	<b>100</b>

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

District	Education Level											
	Under Standard One		Standard One		Standard Two		Standard Three		Standard Four		Standard Five	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Bagamoyo	0	0	332	0	997	1	1,219	2	7,312	9	1,994	3
Kibaha	0	0	181	1	316	1	677	2	2,663	8	451	1
Kisarawe	0	0	288	1	577	2	807	2	3,749	10	519	1
Mkuranga	108	0	542	1	976	1	1,953	3	5,641	8	868	1
Rufiji	0	0	175	0	349	1	961	1	4,105	6	1,135	2
Mafia	0	0	203	1	145	1	174	1	552	3	262	2
Total	108	0	1,722	1	3,361	1	5,791	2	24,021	8	5,229	2

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

District	Education Level											
	Standard Six		Standard Seven		Standard Eight		Training After Primary Education		Pre Form One		Form One	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Bagamoyo	332	0	57,940	75	886	1	0	0	111	0	332	0
Kibaha	677	2	23,647	67	903	3	181	1	45	0	135	0
Kisarawe	750	2	26,182	73	461	1	58	0	0	0	58	0
Mkuranga	1,519	2	51,961	72	651	1	434	1	0	0	108	0
Rufiji	1,310	2	54,062	83	87	0	87	0	0	0	175	0
Mafia	58	0	13,657	83	29	0	116	1	0	0	116	1
Total	4,646	2	227,448	75	3,017	1	876	0	156	0	925	0

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

District	Education Level											
	Form Two		Form Three		Form Four		Form Five		Form Six		Training After Secondary Education	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Bagamoyo	1,108	1	443	1	1,773	2	0	0	111	0	0	0
Kibaha	496	1	361	1	2,256	6	45	0	451	1	677	2
Kisarawe	404	1	173	0	577	2	0	0	58	0	288	1
Mkuranga	217	0	108	0	1,519	2	0	0	108	0	759	1
Rufiji	873	1	0	0	524	1	87	0	0	0	0	0
Mafia	174	1	0	0	291	2	0	0	0	0	29	0
Total	3,273	1	1,086	0	6,939	2	132	0	728	0	1,754	1

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

District	Education Level							
	University & Other Tertiary Education		Adult Education		Not applicable		Total	
	Number	%	Number	%	Number	%	Number	%
Bagamoyo	111	0	1,773	2	332	0	77,106	100
Kibaha	361	1	632	2	90	0	35,245	100
Kisarawe	58	0	807	2	231	1	36,043	100
Mkuranga	108	0	3,905	5	325	0	71,812	100
Rufiji	175	0	1,048	2	0	0	65,154	100
Mafia	0	0	494	3	116	1	16,417	100
Total	813	0	8,659	3	1,095	0	301,777	100

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

District	Involvement in Farming									
	Works Full-time on Farm		Works Part-time on Farm		Rarely Works on Farm		Never Works on Farm		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%
Bagamoyo	84,861	45	7,755	4	36,781	19	60,710	32	190,107	100
Kibaha	32,717	42	5,686	7	13,177	17	25,768	33	77,349	100
Kisarawe	42,272	48	4,037	5	13,264	15	27,681	32	87,254	100
Mkuranga	78,212	40	11,173	6	32,435	17	73,114	38	194,934	100
Rufiji	64,455	45	10,568	7	30,917	21	38,079	26	144,019	100
Mafia	14,877	42	2,063	6	7,758	22	10,490	30	35,188	100
Total	317,395	44	41,282	6	134,332	18	235,842	32	728,850	100

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

District	Main Activity													
	Crop/Seaweed Farming		Livestock Keeping / Herding		Livestock Pastoralist		Fishing		Fish Farming		Government / Parastatal		Private - NGO / Mission / etc	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Bagamoyo	89,514	47	6,979	4	222	0	1,883	1	0	0	665	0	2,437	1
Kibaha	32,943	43	1,805	2	406	1	181	0	45	0	1,399	2	1,399	2
Kisarawe	46,712	54	461	1	0	0	231	0	0	0	577	1	173	0
Mkuranga	84,721	43	434	0	0	0	5,424	3	0	0	1,519	1	2,170	1
Rufiji	68,647	48	699	0	0	0	6,026	4	0	0	349	0	2,358	2
Mafia	14,964	43	116	0	0	0	2,092	6	0	0	203	1	843	2
Total	337,502	46	10,495	1	628	0	15,837	2	45	0	4,712	1	9,380	1

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

District	Main Activity													
	Self Employed (Non Farming) with Employees		Self Employed (Non Farming) without Employees		Unpaid Family Helper (Non Agriculture)		Not Working & Available		Not Working & Unavailable		Housemaker / Housewife		Student	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Bagamoyo	1,662	1	2,437	1	1,440	1	665	0	775	0	3,545	2	63,590	33
Kibaha	2,302	3	1,444	2	993	1	451	1	181	0	1,805	2	27,753	36
Kisarawe	1,442	2	461	1	577	1	1,153	1	58	0	519	1	26,874	31
Mkuranga	2,712	1	2,603	1	868	0	1,844	1	325	0	3,580	2	67,148	34
Rufiji	437	0	2,183	2	873	1	1,397	1	437	0	2,009	1	50,830	35
Mafia	262	1	494	1	174	0	232	1	87	0	1,046	3	11,274	32
<b>Total</b>	<b>8,815</b>	<b>1</b>	<b>9,624</b>	<b>1</b>	<b>4,925</b>	<b>1</b>	<b>5,743</b>	<b>1</b>	<b>1,863</b>	<b>0</b>	<b>12,504</b>	<b>2</b>	<b>247,470</b>	<b>34</b>

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

District	Main Activity					
	Unable to Work / Too Old / Retired / Sick / Disabled		Other		Total	
	Number	%	Number	%	Number	%
Bagamoyo	13,737	7	554	0	190,107	100
Kibaha	4,242	5	0	0	77,349	100
Kisarawe	7,958	9	58	0	87,254	100
Mkuranga	21,587	11	0	0	194,934	100
Rufiji	7,686	5	87	0	144,019	100
Mafia	3,400	10	0	0	35,188	100
<b>Total</b>	<b>58,610</b>	<b>8</b>	<b>699</b>	<b>0</b>	<b>728,850</b>	<b>100</b>



## **LAND OWNERSHIP AND LAND USE**

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

District	Land ownership/tenure														
	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 Household
	No of Households	%	No of Households	%	No of Households	%	No of Households	%	No of Households	%	No of Households	%	No of Households	%	
Bagamoyo	1,994	4.4	39,218	87.4	3,434	7.7	111	0.2	3,213	7.2	0	0.0	0	0.0	44,868
Kibaha	1,128	6.2	10,921	59.8	6,273	34.3	361	2.0	1,579	8.6	542	3.0	993	5.4	18,277
Kisarawe	231	1.0	19,781	84.7	3,806	16.3	231	1.0	1,730	7.4	0	0.0	692	3.0	23,356
Mkuranga	4,339	9.9	29,180	66.4	13,343	30.4	759	1.7	3,905	8.9	0	0.0	2,170	4.9	43,933
Rufiji	87	0.2	34,062	96.3	2,795	7.9	87	0.2	349	1.0	0	0.0	87	0.2	35,372
Mafia	174	2.0	6,422	73.7	2,237	25.7	232	2.7	1,133	13.0	29	0.3	436	5.0	8,717
<b>Total</b>	<b>7,954</b>	<b>4.6</b>	<b>139,583</b>	<b>80.0</b>	<b>31,888</b>	<b>18.3</b>	<b>1,782</b>	<b>1.0</b>	<b>11,910</b>	<b>6.8</b>	<b>571</b>	<b>0.3</b>	<b>4,378</b>	<b>2.5</b>	<b>174,523</b>

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

District	Land Ownership/Tenure							
	Area leased / Certificate of Ownership	Area owned under Customary Law	Area Bought	Area rented	Area Borrowed	Area Share - cropped	Area under Other forms of Tenure	Total area
Bagamoyo	6,649	94,447	6,156	45	3,756	.	.	111,054
Kibaha	2,147	14,333	8,144	151	982	402	1,055	27,214
Kisarawe	467	29,938	8,493	210	1,360	.	954	41,423
Mkuranga	10,299	65,818	33,037	670	2,361	.	1,581	113,766
Rufiji	71	49,471	3,950	71	283	.	35	53,880
Mafia	274	7,358	2,813	56	871	47	229	11,647
<b>Total</b>	<b>19,906</b>	<b>261,366</b>	<b>62,593</b>	<b>1,202</b>	<b>9,612</b>	<b>449</b>	<b>3,855</b>	<b>358,983</b>

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

District	Was all Land Available to the Hh Used During 2007/08?				
	Yes	%	No	%	Total
Bagamoyo	23,265	52	21,603	48	44,868
Kibaha	12,184	67	6,092	33	18,277
Kisarawe	16,147	69	7,209	31	23,356
Mkuranga	28,204	64	15,729	36	43,933
Rufiji	24,542	69	10,830	31	35,372
Mafia	6,916	79	1,802	21	8,717
Total	111,258	64	63,265	36	174,523

**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
Bagamoyo	20,828	46	24,040	54	44,868
Kibaha	10,650	58	7,627	42	18,277
Kisarawe	13,033	56	10,323	44	23,356
Mkuranga	24,407	56	19,526	44	43,933
Rufiji	18,778	53	16,594	47	35,372
Mafia	3,690	42	5,027	58	8,717
Total	91,386	52	83,137	48	174,523

**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
Bagamoyo	20,495	46	24,373	54	44,868
Kibaha	6,273	34	12,004	66	18,277
Kisarawe	5,767	25	17,589	75	23,356
Mkuranga	14,970	34	28,963	66	43,933
Rufiji	4,192	12	31,179	88	35,372
Mafia	2,296	26	6,422	74	8,717
Total	53,992	31	120,530	69	174,523

**4.6 Number of Agricultural Households By Type of Land Use and District , 2007/08 Agricultural Year**

District	Type of land use												
	Household s with Area under Temporary Mono Crops	Household s with Area under Temporary Mixed Crops	Household s with Area under Permanent Mono Crops	Household s with Area under Permanent Mixed Crops	Household s with Area under Permanent / Annual Mix	Household s with Area under Pasture	Household s with Area under Fallow	Household s with Area under Natural Bush	Household s with Area under Planted Trees	Household s with Area Rented to Others	Household s with Area Unusable	Households with Area of Uncultivate d Usable Land	Total number of household s
Bagamoyo	30,133	7,755	11,078	4,985	3,102	1,994	5,982	0	332	111	554	10,746	40880
Kibaha	9,793	4,332	5,686	3,881	3,475	361	2,663	90	45	45	406	2,076	11869
Kisarawe	8,189	5,190	8,766	5,594	8,535	231	2,710	231	115	288	807	4,095	12284
Mkuranga	19,851	9,980	17,790	19,851	10,522	651	6,075	651	217	434	217	7,702	27553
Rufiji	18,778	9,694	10,480	5,764	5,415	262	3,231	87	0	87	437	3,668	22446
Mafia	5,230	726	2,441	3,458	726	58	697	29	29	87	174	726	5957
Total	91,974	37,678	56,242	43,534	31,776	3,557	21,359	1,088	739	1,053	2,595	29,013	120987

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

Districts	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)
Bagamoyo	40,552	10,027	8,864	8,091	3,454	6,481	12,215	.	314	269	516	20,271	111,054
Kibaha	7,076	2,585	4,070	3,487	2,882	640	3,892	137	18	18	78	2,329	27,214
Kisarawe	5,507	4,530	6,866	5,710	9,092	467	2,917	648	29	128	435	5,186	41,516
Mkuranga	13,273	7,903	22,600	33,718	14,467	802	6,511	1,021	285	966	264	11,957	113,766
Rufiji	14,001	7,958	8,998	8,428	6,591	389	2,761	35	.	106	248	4,367	53,880
Mafia	2,493	409	2,027	3,784	1,094	118	645	12	3	139	160	765	11,647
Total	82,901	33,410	53,425	63,218	37,580	8,897	28,941	1,853	650	1,627	1,700	44,875	359,077

**CROP OWNERSHIP**

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

Crop	SHORT RAINY SEASON						LONG RAINY SEASON					
	Male		Female		Total		Male		Female		Total	
	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %
Maize	9,084	73.2	3,324	26.8	12,408	100.0	23,043	75.1	7,644	24.9	30,687	100.0
Paddy	443	80.0	111	20.0	554	100.0	2,437	62.9	1,440	37.1	3,877	100.0
Sorghum	111	100.0	0	.0	111	100.0	2,991	77.1	886	22.9	3,877	100.0
Bulrush Millet	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Wheat	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>CEREALS</b>	<b>9,638</b>	<b>73.7</b>	<b>3,434</b>	<b>26.3</b>	<b>13,073</b>	<b>100.0</b>	<b>28,472</b>	<b>74.1</b>	<b>9,971</b>	<b>25.9</b>	<b>38,442</b>	<b>100.0</b>
Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cassava	111	100.0	0	.0	111	100.0	0	.0	0	.0	0	.0
Sweet Potato	0	.0	0	.0	0	.0	332	75.0	111	25.0	443	100.0
Yams	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Coco Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>ROOTS &amp; TUBERS</b>	<b>111</b>	<b>100.0</b>	<b>0</b>	<b>.0</b>	<b>111</b>	<b>100.0</b>	<b>332</b>	<b>75.0</b>	<b>111</b>	<b>25.0</b>	<b>443</b>	<b>100.0</b>
Mung Bean	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Beans	0	.0	0	.0	0	.0	0	.0	111	100.0	111	100.0
Cowpeas	2,326	56.8	1,773	43.2	4,099	100.0	2,659	54.5	2,216	45.5	4,875	100.0
Green gram	775	100.0	0	.0	775	100.0	222	66.7	111	33.3	332	100.0
Field Peas	0	.0	0	.0	0	.0	111	100.0	0	.0	111	100.0
<b>PULSES</b>	<b>3,102</b>	<b>63.6</b>	<b>1,773</b>	<b>36.4</b>	<b>4,875</b>	<b>100.0</b>	<b>2,991</b>	<b>55.1</b>	<b>2,437</b>	<b>44.9</b>	<b>5,428</b>	<b>100.0</b>
Sunflower	0	.0	0	.0	0	.0	332	100.0	0	.0	332	100.0
Simsim	111	100.0	0	.0	111	100.0	6,315	77.0	1,883	23.0	8,198	100.0
Groundnut	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>111</b>	<b>100.0</b>	<b>0</b>	<b>.0</b>	<b>111</b>	<b>100.0</b>	<b>6,647</b>	<b>77.9</b>	<b>1,883</b>	<b>22.1</b>	<b>8,530</b>	<b>100.0</b>
Okra	0	.0	0	.0	0	.0	111	50.0	111	50.0	222	100.0
Turmeric	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bitteer	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Aubergine	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Onion	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cabbage	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Tomatoes	0	.0	111	100.0	111	100.0	0	.0	222	100.0	222	100.0
Spinach	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Amaranths	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Pumpkins	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cucumber	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Egg Plant	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>FRUITS &amp; VEGETABLES</b>	<b>0</b>	<b>.0</b>	<b>111</b>	<b>100.0</b>	<b>111</b>	<b>100.0</b>	<b>111</b>	<b>25.0</b>	<b>332</b>	<b>75.0</b>	<b>443</b>	<b>100.0</b>
Cotton	0	.0	0	.0	0	.0	332	100.0	0	.0	332	100.0
Jute	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>CASH CROPS</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>332</b>	<b>100.0</b>	<b>0</b>	<b>.0</b>	<b>332</b>	<b>100.0</b>
<b>Total</b>	<b>12,962</b>	<b>70.9</b>	<b>5,318</b>	<b>29.1</b>	<b>18,279</b>	<b>100.0</b>	<b>38,885</b>	<b>72.5</b>	<b>14,734</b>	<b>27.5</b>	<b>53,620</b>	<b>100.0</b>

**5.2 Number of Household members owning most of the crop by Sex of the Main Owner and Crop for the agriculture year 2007/08 Short and Long Season- Kibaha District**

Crop	SHORT RAINY SEASON						LONG RAINY SEASON					
	Male		Female		Total		Male		Female		Total	
	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %
Maize	4,422	76.0	1,399	24.0	5,821	100.0	4,332	75.0	1,444	25.0	5,776	100.0
Paddy	542	66.7	271	33.3	812	100.0	3,430	68.5	1,579	31.5	5,009	100.0
Sorghum	0	.0	45	100.0	45	100.0	857	67.9	406	32.1	1,264	100.0
Bulrush Millet	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Wheat	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>CEREALS</b>	<b>4,964</b>	<b>74.3</b>	<b>1,715</b>	<b>25.7</b>	<b>6,679</b>	<b>100.0</b>	<b>8,619</b>	<b>71.5</b>	<b>3,430</b>	<b>28.5</b>	<b>12,049</b>	<b>100.0</b>
Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cassava	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Sweet Potato	0	.0	0	.0	0	.0	316	70.0	135	30.0	451	100.0
Yams	0	.0	0	.0	0	.0	45	100.0	0	.0	45	100.0
Coco Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>ROOTS &amp; TUBERS</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>361</b>	<b>72.7</b>	<b>135</b>	<b>27.3</b>	<b>496</b>	<b>100.0</b>
Mung Bean	45	100.0	0	.0	45	100.0	0	.0	0	.0	0	.0
Beans	90	100.0	0	.0	90	100.0	0	.0	45	100.0	45	100.0
Cowpeas	3,700	68.3	1,715	31.7	5,415	100.0	1,038	62.2	632	37.8	1,670	100.0
Green gram	45	25.0	135	75.0	181	100.0	0	.0	45	100.0	45	100.0
Field Peas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>PULSES</b>	<b>3,881</b>	<b>67.7</b>	<b>1,850</b>	<b>32.3</b>	<b>5,731</b>	<b>100.0</b>	<b>1,038</b>	<b>59.0</b>	<b>722</b>	<b>41.0</b>	<b>1,760</b>	<b>100.0</b>
Sunflower	0	.0	0	.0	0	.0	90	100.0	0	.0	90	100.0
Simsim	0	.0	45	100.0	45	100.0	316	77.8	90	22.2	406	100.0
Groundnut	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>0</b>	<b>.0</b>	<b>45</b>	<b>100.0</b>	<b>45</b>	<b>100.0</b>	<b>406</b>	<b>81.8</b>	<b>90</b>	<b>18.2</b>	<b>496</b>	<b>100.0</b>
Okra	406	69.2	181	30.8	587	100.0	1,083	85.7	181	14.3	1,264	100.0
Turmeric	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bitteer	0	.0	0	.0	0	.0	45	100.0	0	.0	45	100.0
Aubergine	0	.0	0	.0	0	.0	45	100.0	0	.0	45	100.0
Onion	0	.0	0	.0	0	.0	45	100.0	0	.0	45	100.0
Cabbage	0	.0	0	.0	0	.0	45	100.0	0	.0	45	100.0
Tomatoes	226	83.3	45	16.7	271	100.0	722	88.9	90	11.1	812	100.0
Spinach	45	50.0	45	50.0	90	100.0	45	100.0	0	.0	45	100.0
Carrot	0	.0	0	.0	0	.0	45	100.0	0	.0	45	100.0
Chillies	0	.0	0	.0	0	.0	90	100.0	0	.0	90	100.0
Amaranths	45	50.0	45	50.0	90	100.0	45	100.0	0	.0	45	100.0
Pumpkins	0	.0	45	100.0	45	100.0	45	100.0	0	.0	45	100.0
Cucumber	0	.0	0	.0	0	.0	45	100.0	0	.0	45	100.0
Egg Plant	0	.0	0	.0	0	.0	90	100.0	0	.0	90	100.0
Water Mellon	0	.0	0	.0	0	.0	45	100.0	0	.0	45	100.0
<b>FRUITS &amp; VEGETABLES</b>	<b>722</b>	<b>66.7</b>	<b>361</b>	<b>33.3</b>	<b>1,083</b>	<b>100.0</b>	<b>2,392</b>	<b>89.8</b>	<b>271</b>	<b>10.2</b>	<b>2,663</b>	<b>100.0</b>
Cotton	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Jute	0	.0	0	.0	0	.0	45	100.0	0	.0	45	100.0
<b>CASH CROPS</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>45</b>	<b>100.0</b>	<b>0</b>	<b>.0</b>	<b>45</b>	<b>100.0</b>
<b>Total</b>	<b>9,567</b>	<b>70.7</b>	<b>3,971</b>	<b>29.3</b>	<b>13,538</b>	<b>100.0</b>	<b>12,861</b>	<b>73.5</b>	<b>4,648</b>	<b>26.5</b>	<b>17,509</b>	<b>100.0</b>

### 5.3 Number of Household members owning most of the crop by Sex of the Main Owner and Crop for the agriculture year 2007/08 Short and Long Season- Kisarawe District

Crop	SHORT RAINY SEASON						LONG RAINY SEASON					
	Male		Female		Total		Male		Female		Total	
	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %
Maize	10,265	77.1	3,056	22.9	13,322	100.0	4,441	77.0	1,326	23.0	5,767	100.0
Paddy	1,499	74.3	519	25.7	2,018	100.0	2,480	84.3	461	15.7	2,941	100.0
Sorghum	865	71.4	346	28.6	1,211	100.0	577	66.7	288	33.3	865	100.0
Bulrush Millet	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Wheat	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>CEREALS</b>	<b>12,630</b>	<b>76.3</b>	<b>3,922</b>	<b>23.7</b>	<b>16,551</b>	<b>100.0</b>	<b>7,497</b>	<b>78.3</b>	<b>2,076</b>	<b>21.7</b>	<b>9,573</b>	<b>100.0</b>
Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cassava	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Sweet Potato	115	50.0	115	50.0	231	100.0	346	66.7	173	33.3	519	100.0
Yams	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Coco Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>ROOTS &amp; TUBERS</b>	<b>115</b>	<b>50.0</b>	<b>115</b>	<b>50.0</b>	<b>231</b>	<b>100.0</b>	<b>346</b>	<b>66.7</b>	<b>173</b>	<b>33.3</b>	<b>519</b>	<b>100.0</b>
Mung Bean	0	.0	58	100.0	58	100.0	0	.0	0	.0	0	.0
Beans	461	66.7	231	33.3	692	100.0	115	100.0	0	.0	115	100.0
Cowpeas	5,998	73.8	2,134	26.2	8,131	100.0	2,364	77.4	692	22.6	3,056	100.0
Green gram	231	66.7	115	33.3	346	100.0	58	100.0	0	.0	58	100.0
Field Peas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>PULSES</b>	<b>6,690</b>	<b>72.5</b>	<b>2,537</b>	<b>27.5</b>	<b>9,227</b>	<b>100.0</b>	<b>2,537</b>	<b>78.6</b>	<b>692</b>	<b>21.4</b>	<b>3,229</b>	<b>100.0</b>
Sunflower	0	.0	58	100.0	58	100.0	0	.0	0	.0	0	.0
Simsim	173	60.0	115	40.0	288	100.0	577	66.7	288	33.3	865	100.0
Groundnut	173	100.0	0	.0	173	100.0	0	.0	0	.0	0	.0
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>346</b>	<b>66.7</b>	<b>173</b>	<b>33.3</b>	<b>519</b>	<b>100.0</b>	<b>577</b>	<b>66.7</b>	<b>288</b>	<b>33.3</b>	<b>865</b>	<b>100.0</b>
Okra	288	55.6	231	44.4	519	100.0	288	83.3	58	16.7	346	100.0
Turmeric	0	.0	0	.0	0	.0	58	100.0	0	.0	58	100.0
Bitteer	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Aubergine	0	.0	0	.0	0	.0	58	100.0	0	.0	58	100.0
Onion	0	.0	0	.0	0	.0	58	100.0	0	.0	58	100.0
Cabbage	0	.0	0	.0	0	.0	58	100.0	0	.0	58	100.0
Tomatoes	115	100.0	0	.0	115	100.0	58	100.0	0	.0	58	100.0
Spinach	0	.0	0	.0	0	.0	58	100.0	0	.0	58	100.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Chillies	58	100.0	0	.0	58	100.0	58	100.0	0	.0	58	100.0
Amaranths	58	100.0	0	.0	58	100.0	115	66.7	58	33.3	173	100.0
Pumpkins	115	100.0	0	.0	115	100.0	0	.0	58	100.0	58	100.0
Cucumber	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Egg Plant	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Water Mellon	115	100.0	0	.0	115	100.0	0	.0	0	.0	0	.0
<b>FRUITS &amp; VEGETABLES</b>	<b>750</b>	<b>76.5</b>	<b>231</b>	<b>23.5</b>	<b>980</b>	<b>100.0</b>	<b>750</b>	<b>81.3</b>	<b>173</b>	<b>18.8</b>	<b>923</b>	<b>100.0</b>
Cotton	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Jute	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>CASH CROPS</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>
<b>Total</b>	<b>20,530</b>	<b>74.6</b>	<b>6,978</b>	<b>25.4</b>	<b>27,508</b>	<b>100.0</b>	<b>11,707</b>	<b>77.5</b>	<b>3,402</b>	<b>22.5</b>	<b>15,109</b>	<b>100.0</b>



**5.4 Number of Household members owning most of the crop by Sex of the Main Owner and Crop for the agriculture year 2007/08 Short and Long Season- Mkuranga District**

Crop	SHORT RAINY SEASON						LONG RAINY SEASON					
	Male		Female		Total		Male		Female		Total	
	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %
Maize	14,319	87.4	2,061	12.6	16,380	100.0	5,098	94.0	325	6.0	5,424	100.0
Paddy	1,193	57.9	868	42.1	2,061	100.0	7,268	61.5	4,556	38.5	11,824	100.0
Sorghum	759	100.0	0	.0	759	100.0	542	100.0	0	.0	542	100.0
Bulrush Millet	0	.0	0	.0	0	.0	108	100.0	0	.0	108	100.0
Wheat	108	100.0	0	.0	108	100.0	0	.0	0	.0	0	.0
<b>CEREALS</b>	<b>16,380</b>	<b>84.8</b>	<b>2,929</b>	<b>15.2</b>	<b>19,309</b>	<b>100.0</b>	<b>13,017</b>	<b>72.7</b>	<b>4,881</b>	<b>27.3</b>	<b>17,899</b>	<b>100.0</b>
Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cassava	217	66.7	108	33.3	325	100.0	108	100.0	0	.0	108	100.0
Sweet Potato	542	71.4	217	28.6	759	100.0	2,495	92.0	217	8.0	2,712	100.0
Yams	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Coco Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>ROOTS &amp; TUBERS</b>	<b>759</b>	<b>70.0</b>	<b>325</b>	<b>30.0</b>	<b>1,085</b>	<b>100.0</b>	<b>2,603</b>	<b>92.3</b>	<b>217</b>	<b>7.7</b>	<b>2,820</b>	<b>100.0</b>
Mung Bean	325	100.0	0	.0	325	100.0	0	.0	0	.0	0	.0
Beans	434	80.0	108	20.0	542	100.0	108	100.0	0	.0	108	100.0
Cowpeas	8,136	73.5	2,929	26.5	11,065	100.0	2,061	86.4	325	13.6	2,387	100.0
Green gram	868	80.0	217	20.0	1,085	100.0	217	100.0	0	.0	217	100.0
Field Peas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>PULSES</b>	<b>9,763</b>	<b>75.0</b>	<b>3,254</b>	<b>25.0</b>	<b>13,017</b>	<b>100.0</b>	<b>2,387</b>	<b>88.0</b>	<b>325</b>	<b>12.0</b>	<b>2,712</b>	<b>100.0</b>
Sunflower	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Simsim	108	100.0	0	.0	108	100.0	1,085	100.0	0	.0	1,085	100.0
Groundnut	217	100.0	0	.0	217	100.0	0	.0	0	.0	0	.0
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>325</b>	<b>100.0</b>	<b>0</b>	<b>.0</b>	<b>325</b>	<b>100.0</b>	<b>1,085</b>	<b>100.0</b>	<b>0</b>	<b>.0</b>	<b>1,085</b>	<b>100.0</b>
Okra	651	85.7	108	14.3	759	100.0	108	100.0	0	.0	108	100.0
Turmeric	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bitteer Aubergine	325	100.0	0	.0	325	100.0	108	100.0	0	.0	108	100.0
Onion	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
Tomatoes	217	50.0	217	50.0	434	100.0	0	.0	0	.0	0	.0
Spinach	325	100.0	0	.0	325	100.0	0	.0	0	.0	0	.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Chillies	434	100.0	0	.0	434	100.0	108	100.0	0	.0	108	100.0
Amaranth	434	100.0	0	.0	434	100.0	0	.0	0	.0	0	.0
Pumpkins	434	80.0	108	20.0	542	100.0	0	.0	0	.0	0	.0
Cucumber	868	88.9	108	11.1	976	100.0	108	50.0	108	50.0	217	100.0
Egg Plant	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Water Mellon	542	71.4	217	28.6	759	100.0	217	100.0	0	.0	217	100.0
<b>FRUITS &amp; VEGETABLES</b>	<b>4,231</b>	<b>84.8</b>	<b>759</b>	<b>15.2</b>	<b>4,990</b>	<b>100.0</b>	<b>651</b>	<b>85.7</b>	<b>108</b>	<b>14.3</b>	<b>759</b>	<b>100.0</b>
Cotton	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Jute	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>CASH CROPS</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>
<b>Total</b>	<b>31,458</b>	<b>81.2</b>	<b>7,268</b>	<b>18.8</b>	<b>38,726</b>	<b>100.0</b>	<b>19,743</b>	<b>78.1</b>	<b>5,532</b>	<b>21.9</b>	<b>25,275</b>	<b>100.0</b>

**5.5 Number of Household members owning most of the crop by Sex of the Main Owner and Crop for the agriculture year 2007/08 Short and Long Season- Rufiji District**

Crop	SHORT RAINY SEASON						LONG RAINY SEASON					
	Male		Female		Total		Male		Female		Total	
	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %
Maize	13,101	75.0	4,367	25.0	17,467	100.0	3,231	61.7	2,009	38.3	5,240	100.0
Paddy	6,201	61.7	3,843	38.3	10,044	100.0	5,153	63.4	2,969	36.6	8,122	100.0
Sorghum	175	66.7	87	33.3	262	100.0	873	66.7	437	33.3	1,310	100.0
Bulrush Millet	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Wheat	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>CEREALS</b>	<b>19,476</b>	<b>70.1</b>	<b>8,297</b>	<b>29.9</b>	<b>27,773</b>	<b>100.0</b>	<b>9,258</b>	<b>63.1</b>	<b>5,415</b>	<b>36.9</b>	<b>14,673</b>	<b>100.0</b>
Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cassava	349	66.7	175	33.3	524	100.0	0	.0	0	.0	0	.0
Sweet Potato	0	.0	0	.0	0	.0	175	66.7	87	33.3	262	100.0
Yams	87	50.0	87	50.0	175	100.0	0	.0	0	.0	0	.0
Coco Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>ROOTS &amp; TUBERS</b>	<b>437</b>	<b>62.5</b>	<b>262</b>	<b>37.5</b>	<b>699</b>	<b>100.0</b>	<b>175</b>	<b>66.7</b>	<b>87</b>	<b>33.3</b>	<b>262</b>	<b>100.0</b>
Mung Bean	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Beans	524	85.7	87	14.3	611	100.0	175	66.7	87	33.3	262	100.0
Cowpeas	2,271	51.0	2,183	49.0	4,454	100.0	0	.0	175	100.0	175	100.0
Green gram	87	100.0	0	.0	87	100.0	0	.0	0	.0	0	.0
Field Peas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>PULSES</b>	<b>2,882</b>	<b>55.9</b>	<b>2,271</b>	<b>44.1</b>	<b>5,153</b>	<b>100.0</b>	<b>175</b>	<b>40.0</b>	<b>262</b>	<b>60.0</b>	<b>437</b>	<b>100.0</b>
Sunflower	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Simsim	786	52.9	699	47.1	1,485	100.0	1,834	63.6	1,048	36.4	2,882	100.0
Groundnut	0	.0	0	.0	0	.0	0	.0	87	100.0	87	100.0
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>786</b>	<b>52.9</b>	<b>699</b>	<b>47.1</b>	<b>1,485</b>	<b>100.0</b>	<b>1,834</b>	<b>61.8</b>	<b>1,135</b>	<b>38.2</b>	<b>2,969</b>	<b>100.0</b>
Okra	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Turmeric	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bitteer Aubergine	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Onion	87	100.0	0	.0	87	100.0	0	.0	0	.0	0	.0
Cabbage	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Tomatoes	349	100.0	0	.0	349	100.0	175	100.0	0	.0	175	100.0
Spinach	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Amaranths	87	100.0	0	.0	87	100.0	0	.0	87	100.0	87	100.0
Pumpkins	87	100.0	0	.0	87	100.0	0	.0	0	.0	0	.0
Cucumber	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Egg Plant	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>FRUITS &amp; VEGETABLES</b>	<b>611</b>	<b>100.0</b>	<b>0</b>	<b>.0</b>	<b>611</b>	<b>100.0</b>	<b>175</b>	<b>66.7</b>	<b>87</b>	<b>33.3</b>	<b>262</b>	<b>100.0</b>
Cotton	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Jute	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>CASH CROPS</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>
<b>Total</b>	<b>24,192</b>	<b>67.7</b>	<b>11,529</b>	<b>32.3</b>	<b>35,721</b>	<b>100.0</b>	<b>11,616</b>	<b>62.4</b>	<b>6,987</b>	<b>37.6</b>	<b>18,603</b>	<b>100.0</b>

**5.6 Number of Household members owning most of the crop by Sex of the Main Owner and Crop for the agriculture year 2007/08 Short and Long Season- Bagamoyo District**

Crop	SHORT RAINY SEASON						LONG RAINY SEASON					
	Male		Female		Total		Male		Female		Total	
	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %
Maize	9,084	73.2	3,324	26.8	12,408	100.0	23,043	75.1	7,644	24.9	30,687	100.0
Paddy	443	80.0	111	20.0	554	100.0	2,437	62.9	1,440	37.1	3,877	100.0
Sorghum	111	100.0	0	.0	111	100.0	2,991	77.1	886	22.9	3,877	100.0
Bulrush Millet	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Wheat	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>CEREALS</b>	<b>9,638</b>	<b>73.7</b>	<b>3,434</b>	<b>26.3</b>	<b>13,073</b>	<b>100.0</b>	<b>28,472</b>	<b>74.1</b>	<b>9,971</b>	<b>25.9</b>	<b>38,442</b>	<b>100.0</b>
Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cassava	111	100.0	0	.0	111	100.0	0	.0	0	.0	0	.0
Sweet Potato	0	.0	0	.0	0	.0	332	75.0	111	25.0	443	100.0
Yams	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Coco Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>ROOTS &amp; TUBERS</b>	<b>111</b>	<b>100.0</b>	<b>0</b>	<b>.0</b>	<b>111</b>	<b>100.0</b>	<b>332</b>	<b>75.0</b>	<b>111</b>	<b>25.0</b>	<b>443</b>	<b>100.0</b>
Mung Bean	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Beans	0	.0	0	.0	0	.0	0	.0	111	100.0	111	100.0
Cowpeas	2,326	56.8	1,773	43.2	4,099	100.0	2,659	54.5	2,216	45.5	4,875	100.0
Green gram	775	100.0	0	.0	775	100.0	222	66.7	111	33.3	332	100.0
Field Peas	0	.0	0	.0	0	.0	111	100.0	0	.0	111	100.0
<b>PULSES</b>	<b>3,102</b>	<b>63.6</b>	<b>1,773</b>	<b>36.4</b>	<b>4,875</b>	<b>100.0</b>	<b>2,991</b>	<b>55.1</b>	<b>2,437</b>	<b>44.9</b>	<b>5,428</b>	<b>100.0</b>
Sunflower	0	.0	0	.0	0	.0	332	100.0	0	.0	332	100.0
Simsim	111	100.0	0	.0	111	100.0	6,315	77.0	1,883	23.0	8,198	100.0
Groundnut	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>111</b>	<b>100.0</b>	<b>0</b>	<b>.0</b>	<b>111</b>	<b>100.0</b>	<b>6,647</b>	<b>77.9</b>	<b>1,883</b>	<b>22.1</b>	<b>8,530</b>	<b>100.0</b>
Okra	0	.0	0	.0	0	.0	111	50.0	111	50.0	222	100.0
Turmeric	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bitteer Aubergine	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Onion	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
Tomatoes	0	.0	111	100.0	111	100.0	0	.0	222	100.0	222	100.0
Spinach	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Amaranth	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Pumpkins	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cucumber	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Egg Plant	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>FRUITS &amp; VEGETABLES</b>	<b>0</b>	<b>.0</b>	<b>111</b>	<b>100.0</b>	<b>111</b>	<b>100.0</b>	<b>111</b>	<b>25.0</b>	<b>332</b>	<b>75.0</b>	<b>443</b>	<b>100.0</b>
Cotton	0	.0	0	.0	0	.0	332	100.0	0	.0	332	100.0
Jute	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>CASH CROPS</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>332</b>	<b>100.0</b>	<b>0</b>	<b>.0</b>	<b>332</b>	<b>100.0</b>
<b>Total</b>	<b>12,962</b>	<b>70.9</b>	<b>5,318</b>	<b>29.1</b>	<b>18,279</b>	<b>100.0</b>	<b>38,885</b>	<b>72.5</b>	<b>14,734</b>	<b>27.5</b>	<b>53,620</b>	<b>100.0</b>

**5.7 Number of Household members owning most of the crop by Sex of the Main Owner and Crop for the agriculture year 2007/08 Short and Long Season- Mafia District**

Crop	SHORT RAINY SEASON						LONG RAINY SEASON					
	Male		Female		Total		Male		Female		Total	
	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %
Maize	174	75.0	58	25.0	232	100.0	494	85.0	87	15.0	581	100.0
Paddy	697	61.5	436	38.5	1,133	100.0	2,150	56.5	1,656	43.5	3,806	100.0
Sorghum	0	.0	0	.0	0	.0	145	71.4	58	28.6	203	100.0
Bulrush Millet	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Wheat	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>CEREALS</b>	<b>872</b>	<b>63.8</b>	<b>494</b>	<b>36.2</b>	<b>1,366</b>	<b>100.0</b>	<b>2,789</b>	<b>60.8</b>	<b>1,802</b>	<b>39.2</b>	<b>4,591</b>	<b>100.0</b>
Yam	29	7.1	378	92.9	407	100.0	29	10.0	262	90.0	291	100.0
Cassava	0	.0	0	.0	0	.0	116	100.0	0	.0	116	100.0
Sweet Potato	407	70.0	174	30.0	581	100.0	174	54.5	145	45.5	320	100.0
Yams	0	.0	0	.0	0	.0	29	100.0	0	.0	29	100.0
Coco Yam	29	100.0	0	.0	29	100.0	0	.0	0	.0	0	.0
<b>ROOTS &amp; TUBERS</b>	<b>465</b>	<b>45.7</b>	<b>552</b>	<b>54.3</b>	<b>1,017</b>	<b>100.0</b>	<b>349</b>	<b>46.2</b>	<b>407</b>	<b>53.8</b>	<b>755</b>	<b>100.0</b>
Mung Bean	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Beans	0	.0	0	.0	0	.0	87	75.0	29	25.0	116	100.0
Cowpeas	58	100.0	0	.0	58	100.0	58	50.0	58	50.0	116	100.0
Green gram	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Field Peas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>PULSES</b>	<b>58</b>	<b>100.0</b>	<b>0</b>	<b>.0</b>	<b>58</b>	<b>100.0</b>	<b>145</b>	<b>62.5</b>	<b>87</b>	<b>37.5</b>	<b>232</b>	<b>100.0</b>
Sunflower	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Simsim	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Groundnut	29	100.0	0	.0	29	100.0	58	50.0	58	50.0	116	100.0
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>29</b>	<b>100.0</b>	<b>0</b>	<b>.0</b>	<b>29</b>	<b>100.0</b>	<b>58</b>	<b>50.0</b>	<b>58</b>	<b>50.0</b>	<b>116</b>	<b>100.0</b>
Okra	29	100.0	0	.0	29	100.0	0	.0	0	.0	0	.0
Turmeric	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bitteer	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Aubergine	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Onion	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cabbage	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Tomatoes	87	100.0	0	.0	87	100.0	29	50.0	29	50.0	58	100.0
Spinach	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Chillies	58	100.0	0	.0	58	100.0	0	.0	0	.0	0	.0
Amaranths	87	100.0	0	.0	87	100.0	0	.0	0	.0	0	.0
Pumpkins	29	100.0	0	.0	29	100.0	29	16.7	145	83.3	174	100.0
Cucumber	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Egg Plant	58	100.0	0	.0	58	100.0	0	.0	0	.0	0	.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>FRUITS &amp; VEGETABLES</b>	<b>349</b>	<b>100.0</b>	<b>0</b>	<b>.0</b>	<b>349</b>	<b>100.0</b>	<b>58</b>	<b>25.0</b>	<b>174</b>	<b>75.0</b>	<b>232</b>	<b>100.0</b>
Cotton	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Jute	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>CASH CROPS</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>
<b>Total</b>	<b>1,772</b>	<b>62.9</b>	<b>1,046</b>	<b>37.1</b>	<b>2,819</b>	<b>100.0</b>	<b>3,400</b>	<b>57.4</b>	<b>2,528</b>	<b>42.6</b>	<b>5,928</b>	<b>100.0</b>

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

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

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

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

**ANNUAL CROP AND VEGETABLE PRODUCTION**

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

District	Maize				Paddy				Sorghum				Bulrush Millet			
	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Bagamoyo	12,408	10,592	6,838.41	0.6	554	314	409.90	1.31	111	22	16.84	0.75	0	.	.	.
Kibaha	5,821	2,514	2,088.86	0.8	812	420	644.01	1.53	45	18	31.59	1.73	0	.	.	.
Kisarawe	13,322	6,329	8,084.74	1.3	2,018	1,185	1,716.76	1.45	1,211	363	264.76	0.73	0	.	.	.
Mkuranga	16,380	7,575	5,472.47	0.7	2,061	727	487.61	0.67	759	300	200.14	0.67	0	.	.	.
Rufiji	17,467	8,483	8,380.46	1.0	10,044	5,957	10,105.64	1.70	262	71	41.05	0.58	0	.	.	.
Mafia	232	79	115.07	1.4	1,133	365	593.43	1.63	0	.	.	.	0	.	.	.
<b>Total</b>	<b>65,631</b>	<b>35,573</b>	<b>30,980.01</b>	<b>0.9</b>	<b>16,623</b>	<b>8,968</b>	<b>13,957.36</b>	<b>1.56</b>	<b>2,388</b>	<b>774</b>	<b>554.38</b>	<b>0.72</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>.</b>

**Cont. 5.10 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08**

District	Mung Bean				Okra				Turmeric				Bitteer Aubergine			
	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Bagamoyo	0	.	.	.	0	.	.	.	0	.	.	.	0	.	.	.
Kibaha	45	9	2.26	0.25	587	163	323.70	1.98	0	.	.	.	0	.	.	.
Kisarawe	58	23	8.65	0.37	519	96	45.10	0.47	0	.	.	.	0	.	.	.
Mkuranga	325	121	94.38	0.78	759	167	155.77	0.93	0	.	.	.	325	18	162.72	9.26
Rufiji	0	.	.	.	0	.	.	.	0	.	.	.	0	.	.	.
Mafia	0	.	.	.	29	9	21.79	2.47	0	.	.	.	0	.	.	.
<b>Total</b>	<b>428</b>	<b>153</b>	<b>105.28</b>	<b>0.69</b>	<b>1,894</b>	<b>435</b>	<b>546.36</b>	<b>1.26</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>325</b>	<b>18</b>	<b>162.72</b>	<b>9.26</b>

**Cont. 5.10 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08**

District	Wheat				Yam				Cassava				Sweet Potato			
	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Bagamoyo	0	.	.	.	0	.	.	.	111	45	77.55	1.73	0	.	.	.
Kibaha	0	.	.	.	0	.	.	.	0	.	.	.	0	.	.	.
Kisarawe	0	.	.	.	0	.	.	.	0	.	.	.	231	37	41.58	1.13
Mkuranga	108	66	45.99	0.70	0	.	.	.	325	198	262.52	1.33	759	232	442.05	1.91
Rufiji	0	.	.	.	0	.	.	.	524	186	953.29	5.14	0	.	.	.
Mafia	0	.	.	.	407	124	555.89	4.50	0	.	.	.	581	172	390.24	2.27
<b>Total</b>	<b>108</b>	<b>66</b>	<b>45.99</b>	<b>0.70</b>	<b>407</b>	<b>124</b>	<b>555.89</b>	<b>4.50</b>	<b>960</b>	<b>428</b>	<b>1,293.35</b>	<b>3.02</b>	<b>1,571</b>	<b>440</b>	<b>873.86</b>	<b>1.98</b>

**Cont. 5.10 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08**

District	Yams				Coco Yam				Onion				Beans			
	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Bagamoyo	0	.	.	.	0	.	.	.	0	.	.	.	0	.	.	.
Kibaha	0	.	.	.	0	.	.	.	0	.	.	.	90	8	2.03	0.24
Kisarawe	0	.	.	.	0	.	.	.	0	.	.	.	692	131	92.21	0.71
Mkuranga	0	.	.	.	0	.	.	.	0	.	.	.	542	152	118.02	0.78
Rufiji	175	140	87.34	0.62	0	.	.	.	87	9	.70	0.08	611	212	105.68	0.50
Mafia	0	.	.	.	29	1	.44	0.37	0	.	.	.	0	.	.	.
<b>Total</b>	<b>175</b>	<b>140</b>	<b>87.34</b>	<b>0.62</b>	<b>29</b>	<b>1</b>	<b>.44</b>	<b>0.37</b>	<b>87</b>	<b>9</b>	<b>.70</b>	<b>0.08</b>	<b>1,936</b>	<b>503</b>	<b>317.95</b>	<b>0.63</b>



**Cont. 5.10 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08**

District	Cowpeas				Green gram				Field Peas				Sunflower			
	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Bagamoyo	4,099	2,074	561.12	0.27	775	366	60.93	0.17	0	.	.	.	0	.	.	.
Kibaha	5,415	1,044	426.68	0.41	181	44	11.51	0.26	0	.	.	.	0	.	.	.
Kisarawe	8,131	1,904	580.33	0.30	346	72	102.19	1.41	0	.	.	.	58	12	.58	0.05
Mkuranga	11,065	3,193	813.26	0.25	1,085	224	56.52	0.25	0	.	.	.	0	.	.	.
Rufiji	4,454	816	283.50	0.35	87	9	3.76	0.42	0	.	.	.	0	.	.	.
Mafia	58	12	5.29	0.45	0	.	.	.	0	.	.	.	0	.	.	.
<b>Total</b>	<b>33,223</b>	<b>9,044</b>	<b>2,670.17</b>	<b>0.30</b>	<b>2,474</b>	<b>715</b>	<b>234.90</b>	<b>0.33</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>58</b>	<b>12</b>	<b>.58</b>	<b>0.05</b>

**Cont .5.10 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08**

District	Simsim				Groundnut				Cabbage				Tomatoes			
	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Bagamoyo	111	45	.00	-	0	.	.	.	0	.	.	.	111	45	22.16	0.49
Kibaha	45	9	.00	-	0	.	.	.	0	.	.	.	271	103	648.03	6.31
Kisarawe	288	117	33.39	0.29	173	35	15.69	0.45	0	.	.	.	115	35	651.09	18.59
Mkuranga	108	44	43.39	0.99	217	97	30.37	0.31	0	.	.	.	434	64	117.59	1.85
Rufiji	1,485	534	190.40	0.36	0	.	.	.	0	.	.	.	349	80	536.43	6.74
Mafia	0	.	.	.	29	3	1.74	0.59	0	.	.	.	87	12	15.40	1.31
<b>Total</b>	<b>2,037</b>	<b>748</b>	<b>267.18</b>	<b>0.36</b>	<b>419</b>	<b>135</b>	<b>47.80</b>	<b>0.36</b>	<b>0</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>1,367</b>	<b>338</b>	<b>1,990.69</b>	<b>5.90</b>

**Cont. 5.10 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08**

District	Spinach				Carrot				Chillies				Amaranths			
	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Bagamoyo	0	.	.	.	0	.	.	.	0	.	.	.				
Kibaha	90	18	182.36	9.98	0	.	.	.	0	.	.	.	90	14	207.59	15.15
Kisarawe	0	.	.	.	0	.	.	.	58	35	129.76	3.71	58	6	11.53	1.98
Mkuranga	325	31	62.37	2.03	0	.	.	.	434	132	186.58	1.42	434	35	172.05	4.90
Rufiji	0	.	.	.	0	.	.	.	0	.	.	.	87	18	353.63	20.00
Mafia	0	.	.	.	0	.	.	.	58	2	.64	0.36	87	5	29.93	5.65
<b>Total</b>	<b>416</b>	<b>49</b>	<b>244.73</b>	<b>4.99</b>	<b>0</b>	.	.	.	<b>550</b>	<b>169</b>	<b>316.98</b>	<b>1.88</b>	<b>756</b>	<b>78</b>	<b>774.72</b>	<b>9.98</b>

**Cont. 5.10 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08**

District	Pumpkins				Cucumber				Egg Plant				Water Mellon			
	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Bagamoyo																
Kibaha	45	5	135.38	29.64	0	.	.	.	0	.	.	.	0	.	.	.
Kisarawe	115	9	21.34	2.41	0	.	.	.	0	.	.	.	115	6	40.37	6.92
Mkuranga	542	74	159.46	2.16	976	145	391.60	2.70	0	.	.	.	759	483	3,057.98	6.33
Rufiji	87	18	30.57	1.73	0	.	.	.	0	.	.	.	0	.	.	.
Mafia	29	6	8.72	1.48	0	.	.	.	58	4	1.89	0.54	0	.	.	.
<b>Total</b>	<b>819</b>	<b>111</b>	<b>355.47</b>	<b>3.21</b>	<b>976</b>	<b>145</b>	<b>391.60</b>	<b>2.70</b>	<b>58</b>	<b>4</b>	<b>1.89</b>	<b>0.54</b>	<b>875</b>	<b>489</b>	<b>3,098.35</b>	<b>6.34</b>

**Cont. 5.10 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08**

District	Maize				Paddy				Sorghum				Bulrush Millet			
	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Bagamoyo	43,095	43,404	34,905.71	0.80	4,431	2,680	2,034.56	0.76	3,988	2,305	1,393.89	0.60	0	.	.	.
Kibaha	11,598	5,097	3,964.68	0.78	5,821	3,147	3,204.73	1.02	1,309	438	282.72	0.65	0	.	.	.
Kisarawe	19,089	9,118	12,309.89	1.35	4,960	2,942	5,029.58	1.71	2,076	563	332.23	0.59	0	.	.	.
Mkuranga	21,804	10,513	7,752.67	0.74	13,885	7,408	5,569.23	0.75	1,302	539	298.86	0.55	108	26	13.56	0.51
Rufiji	22,708	10,938	11,079.45	1.01	18,166	10,532	15,062.47	1.43	1,572	575	353.72	0.62	0	.	.	.
Mafia	814	224	252.36	1.12	4,940	1,874	2,305.99	1.23	203	32	7.41	0.23	0	.	.	.
<b>Total</b>	<b>119,107</b>	<b>79,295</b>	<b>70,264.76</b>	<b>0.89</b>	<b>52,203</b>	<b>28,583</b>	<b>33,206.57</b>	<b>1.16</b>	<b>10,450</b>	<b>4,451</b>	<b>2,668.83</b>	<b>0.60</b>	<b>108</b>	<b>26</b>	<b>13.56</b>	<b>0.51</b>

**Cont. 5.10 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08**

District	Mung Bean				PULSES				Okra			
	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Bagamoyo	0	.	.	.	0	.	.	.	222	56	72.01	1.28
Kibaha	45	9	2.26	0.25	45	9	2.26	0.25	1,850	476	1,019.02	2.14
Kisarawe	58	23	8.65	0.37	58	23	8.65	0.37	865	160	69.43	0.43
Mkuranga	325	121	94.38	0.78	325	121	94.38	0.78	868	173	166.62	0.96
Rufiji	0	.	.	.	0	.	.	.	0	.	.	.
Mafia	0	.	.	.	0	.	.	.	29	9	21.79	2.47
<b>Total</b>	<b>428</b>	<b>153</b>	<b>105.28</b>	<b>0.69</b>	<b>428</b>	<b>153</b>	<b>105.28</b>	<b>0.69</b>	<b>3,834</b>	<b>874</b>	<b>1,348.88</b>	<b>1.54</b>

**Cont. 5.10 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08**

District	Turmeric				Bitter Aubergine				Wheat				Yam			
	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Bagamoyo	0	.	.	.	0	.	.	.	0	.	.	.	0	.	.	.
Kibaha	0	.	.	.	45	9	20.31	2.22	0	.	.	.	0	.	.	.
Kisarawe	58	23	17.30	0.74	0	.	.	.	0	.	.	.	0	.	.	.
Mkuranga	0	.	.	.	434	61	168.14	2.73	108	66	45.99	0.70	0	.	.	.
Rufiji	0	.	.	.	0	.	.	.	0	.	.	.	0	.	.	.
Mafia	0	.	.	.	0	.	.	.	0	.	.	.	697	224	982.01	4.39
<b>Total</b>	<b>58</b>	<b>23</b>	<b>17.30</b>	<b>0.74</b>	<b>479</b>	<b>71</b>	<b>188.45</b>	<b>2.67</b>	<b>108</b>	<b>66</b>	<b>45.99</b>	<b>0.70</b>	<b>697</b>	<b>224</b>	<b>982.01</b>	<b>4.39</b>

**Cont. 5.10 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08**

District	Cassava				Sweet Potato				Yams				Coco Yam			
	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Bagamoyo	111	45	77.55	1.73	443	292	317.40	1.09	0	.	.	.	0	.	.	.
Kibaha	0	.	.	.	451	182	296.94	1.63	45	9	.00	-	0	.	.	.
Kisarawe	0	.	.	.	750	166	343.19	2.07	0	.	.	.	0	.	.	.
Mkuranga	434	220	273.36	1.24	3,471	1,154	1,947.17	1.69	0	.	.	.	0	.	.	.
Rufiji	524	186	953.29	5.14	262	53	109.17	2.06	175	140	87.34	0.62	0	.	.	.
Mafia	116	30	10.90	0.36	901	239	585.88	2.45	29	3	1.89	0.64	29	1	.44	0.37
<b>Total</b>	<b>1,185</b>	<b>480</b>	<b>1,315.10</b>	<b>2.74</b>	<b>6,278</b>	<b>2,085</b>	<b>3,599.75</b>	<b>1.73</b>	<b>249</b>	<b>152</b>	<b>89.23</b>	<b>0.59</b>	<b>29</b>	<b>1</b>	<b>.44</b>	<b>0.37</b>

**Cont. 5.10 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08**

District	Onion				Beans				Cowpeas				Green gram			
	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Bagamoyo	0	.	.	.	111	13	.00	-	8,974	3,629	1,265.38	0.35	1,108	550	95.27	0.17
Kibaha	45	5	31.95	7.00	135	12	5.19	0.43	7,085	1,389	591.58	0.43	226	53	56.64	1.07
Kisarawe	58	12	11.53	0.99	807	166	107.78	0.65	11,188	3,009	956.33	0.32	404	82	103.69	1.27
Mkuranga	0	.	.	.	651	195	134.30	0.69	13,451	3,725	900.15	0.24	1,302	257	124.86	0.49
Rufiji	87	9	.70	0.08	873	283	138.87	0.49	4,629	843	317.47	0.38	87	9	3.76	0.42
Mafia	0	.	.	.	116	26	26.35	1.00	174	21	7.76	0.37	0	.	.	.
<b>Total</b>	<b>190</b>	<b>25</b>	<b>44.18</b>	<b>1.76</b>	<b>2,694</b>	<b>696</b>	<b>412.49</b>	<b>0.59</b>	<b>45,501</b>	<b>12,616</b>	<b>4,038.67</b>	<b>0.32</b>	<b>3,126</b>	<b>951</b>	<b>384.21</b>	<b>0.40</b>

**Cont. 5.10 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08**

District	Field Peas				Sunflower				Simsim				Groundnut			
	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Bagamoyo	111	22	22.16	0.99	332	108	59.82	0.56	8,309	6,121	1,722.70	0.28	0	.	.	.
Kibaha	0	.	.	.	90	23	20.31	0.87	451	155	32.99	0.21	0	.	.	.
Kisarawe	0	.	.	.	58	12	.58	0.05	1,153	607	220.53	0.36	173	35	15.69	0.45
Mkuranga	0	.	.	.	0	.	.	.	1,193	558	281.61	0.50	217	97	30.37	0.31
Rufiji	0	.	.	.	0	.	.	.	4,367	1,647	608.22	0.37	87	35	21.83	0.62
Mafia	0	.	.	.	0	.	.	.	0	.	.	.	145	29	16.27	0.56
<b>Total</b>	<b>111</b>	<b>22</b>	<b>22.16</b>	<b>0.99</b>	<b>480</b>	<b>143</b>	<b>80.71</b>	<b>0.57</b>	<b>15,474</b>	<b>9,089</b>	<b>2,866.04</b>	<b>0.32</b>	<b>623</b>	<b>196</b>	<b>84.17</b>	<b>0.43</b>

**Cont. 5.10 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08**

District	Cotton				Jute				Cabbage				Tomatoes			
	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Bagamoyo									0	.	.	.	332	123	875.20	7.10
Kibaha	332	314	108.35	0.35					45	5	187.28	41.00	1,083	316	2,331.92	7.37
Kisarawe	332	314	108.35	0.35	45	18	63.95	.00	58	3	2.88	1.03	173	38	678.77	17.84
Mkuranga	0	0	.00	-					0	.	.	.	434	64	117.59	1.85
Rufiji	0	0	.00	-					0	.	.	.	524	150	2,304.40	15.33
Mafia	0	0	.00	-					0	.	.	.	145	35	93.51	2.65
<b>Total</b>	<b>0</b>	<b>0</b>	<b>.00</b>	<b>-</b>	<b>45</b>	<b>18</b>	<b>63.95</b>	<b>.00</b>	<b>103</b>	<b>7</b>	<b>190.16</b>	<b>25.80</b>	<b>2,692</b>	<b>727</b>	<b>6,401.38</b>	<b>8.80</b>

**Cont. 5.10 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08**

District	Spinach				Carrot				Chillies				Amaranths			
	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Bagamoyo	0	.	.	.	0	.	.	.	0	.	.	.				
Kibaha	135	27	209.44	7.64	45	5	88.27	19.33	90	10	26.26	2.61	135	23	234.66	10.28
Kisarawe	58	3	.58	0.19	0	.	.	.	115	47	132.64	2.84	231	20	19.61	0.97
Mkuranga	325	31	62.37	2.03	0	.	.	.	542	143	240.82	1.69	434	35	172.05	4.90
Rufiji	0	.	.	.	0	.	.	.	0	.	.	.	175	35	707.26	20.00
Mafia	0	.	.	.	0	.	.	.	58	2	.64	0.36	87	5	29.93	5.65
<b>Total</b>	<b>518</b>	<b>61</b>	<b>272.39</b>	<b>4.45</b>	<b>45</b>	<b>5</b>	<b>88.27</b>	<b>19.33</b>	<b>806</b>	<b>201</b>	<b>400.36</b>	<b>1.99</b>	<b>1,062</b>	<b>119</b>	<b>1,163.50</b>	<b>9.78</b>

**Cont. 5.10 Number of Agricultural Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short Rainy SEASON Agricultural Year 2007/08**

District	Pumpkins				Cucumber				Egg Plant				Water Mellon			
	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	No of Hholds	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Bagamoyo																
Kibaha	90	9	142.15	15.56	45	5	45.67	10.00	90	18	176.00	9.63	45	5	91.34	20.00
Kisarawe	173	12	25.95	2.18	0	.	.	.	0	.	.	.	115	6	40.37	6.92
Mkuranga	542	74	159.46	2.16	1,193	242	551.07	2.28	0	.	.	.	976	637	3,708.84	5.82
Rufiji	87	18	30.57	1.73	0	.	.	.	0	.	.	.	0	.	.	.
Mafia	203	38	310.91	8.13	0	.	.	.	58	4	1.89	0.54	0	.	.	.
<b>Total</b>	<b>1,096</b>	<b>151</b>	<b>669.04</b>	<b>4.44</b>	<b>1,238</b>	<b>246</b>	<b>596.73</b>	<b>2.42</b>	<b>148</b>	<b>22</b>	<b>177.89</b>	<b>8.16</b>	<b>1,137</b>	<b>647</b>	<b>3,840.55</b>	<b>5.93</b>

**TOTAL ANNUAL CROP AND VEGETABLE PRODUCTION**



### 5.11 Number of Crop Growing Households and Area Planted (ha) by Season and District

District	Short Rainy Season		Long Rainy Season		Total area planted (hectare)	% Area planted in short rainy season
	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)		
Bagamoyo	13,959	13,504	33,346	46,159	59,663	22.63
Kibaha	8,935	4,370	10,560	7,075	11,444	38.18
Kisarawe	15,974	10,395	9,285	6,652	17,047	60.98
Mkuranga	21,587	14,074	18,441	12,264	26,338	53.44
Rufiji	21,834	16,531	13,625	8,922	25,453	64.95
Mafia	2,237	792	4,649	2,004	2,797	28.33
<b>Total</b>	<b>84,527</b>	<b>59,666</b>	<b>89,906</b>	<b>83,076</b>	<b>142,742</b>	<b>41.80</b>

### 5.12 Number of crop growing Households Planting Crops by Season and District

District	Short Rainy Season		Long Rainy Season		Total Number of Crop Growing households
	Number of households Growing Crops	Number of households NOT Growing Crops	Number of households Growing Crops	Number of households NOT Growing Crops	
Bagamoyo	13,959	30,909	33,346	11,522	44,868
Kibaha	8,935	9,341	10,560	7,717	18,277
Kisarawe	15,974	7,382	9,285	14,071	23,356
Mkuranga	21,587	22,346	18,441	25,492	43,933
Rufiji	21,834	13,537	13,625	21,747	35,372
Mafia	2,237	6,480	4,649	4,068	8,717
<b>Total</b>	<b>84,527</b>	<b>89,995</b>	<b>89,906</b>	<b>84,617</b>	<b>174,523</b>

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

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	10,592	6,838	0.65	32,812	28,067	0.86	43,404	34,906	0.80
Paddy	314	410	1.31	2,366	1,625	0.69	2,680	2,035	0.76
Sorghum	22	17	0.75	2,283	1,377	0.60	2,305	1,394	0.60
Bulrush Millet	.	.	.	.	.	.	.	.	.
Wheat	.	.	.	.	.	.	.	.	.
<b>CEREALS</b>	<b>10,929</b>	<b>7,265</b>	<b>0.66</b>	<b>37,461</b>	<b>31,069</b>	<b>0.83</b>	<b>48,390</b>	<b>38,334</b>	<b>0.79</b>
Yam	.	.	.	.	.	.	.	.	.
Cassava	45	78	1.73	.	.	.	45	78	1.73
Sweet Potato	.	.	.	292	317	1.09	292	317	1.09
Yams	.	.	.	.	.	.	.	.	.
Coco Yam	.	.	.	.	.	.	.	.	.
<b>ROOTS &amp; TUBERS</b>	<b>45</b>	<b>78</b>	<b>1.73</b>	<b>292</b>	<b>317</b>	<b>1.09</b>	<b>336</b>	<b>395</b>	<b>1.17</b>
Mung Bean	.	.	.	.	.	.	.	.	.
Beans	.	.	.	13	0	-	13	0	-
Cowpeas	2,074	561	0.27	1,554	704	0.45	3,629	1,265	0.35
Green gram	366	61	0.17	184	34	0.19	550	95	0.17
Field Peas	.	.	.	22	22	0.99	22	22	0.99
<b>PULSES</b>	<b>2,441</b>	<b>622</b>	<b>0.25</b>	<b>1,774</b>	<b>761</b>	<b>0.43</b>	<b>4,215</b>	<b>1,383</b>	<b>0.33</b>
Sunflower	.	.	.	108	60	0.56	108	60	0.56
Simsim	45	0	-	6,077	1,723	0.28	6,121	1,723	0.28
Groundnut	.	.	.	.	.	.	.	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>45</b>	<b>0</b>	<b>-</b>	<b>6,184</b>	<b>1,783</b>	<b>0.29</b>	<b>6,229</b>	<b>1,783</b>	<b>0.29</b>
Okra	.	.	.	56	72	1.28	56	72	1.28
Turmeric	.	.	.	.	.	.	.	.	.
Bitteer Aubergine	.	.	.	.	.	.	.	.	.
Onion	.	.	.	.	.	.	.	.	.
Cabbage	.	.	.	.	.	.	.	.	.
Tomatoes	45	22	0.49	78	853	10.87	123	875	7.10
Spinach	.	.	.	.	.	.	.	.	.
Carrot	.	.	.	.	.	.	.	.	.
Chillies	.	.	.	.	.	.	.	.	.
Amaranths	.	.	.	.	.	.	.	.	.
Pumpkins	.	.	.	.	.	.	.	.	.
Cucumber	.	.	.	.	.	.	.	.	.
Egg Plant	.	.	.	.	.	.	.	.	.
Water Mellon	.	.	.	.	.	.	.	.	.
<b>FRUITS &amp; VEGETABLES</b>	<b>45</b>	<b>22</b>	<b>0.49</b>	<b>135</b>	<b>925</b>	<b>6.87</b>	<b>179</b>	<b>947</b>	<b>5.28</b>
Cotton	.	.	.	314	108	0.35	314	108	0.35
Jute	.	.	.	.	.	.	.	.	.
<b>CASH CROPS</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>314</b>	<b>108</b>	<b>0.35</b>	<b>314</b>	<b>108</b>	<b>0.35</b>
Total	13,504	7,987	0.59	46,159	34,963	0.76	59,663	42,950	0.72

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

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	2,514	2,089	0.83	2,583	1,876	0.73	5,097	3,965	0.78
Paddy	420	644	1.53	2,727	2,561	0.94	3,147	3,205	1.02
Sorghum	18	32	1.73	419	251	0.60	438	283	0.65
Bulrush Millet	.	.	.	.	.	.	.	.	.
Wheat	.	.	.	.	.	.	.	.	.
<b>CEREALS</b>	<b>2,952</b>	<b>2,764</b>	<b>0.94</b>	<b>5,729</b>	<b>4,688</b>	<b>0.82</b>	<b>8,681</b>	<b>7,452</b>	<b>0.86</b>
Yam	.	.	.	.	.	.	.	.	.
Cassava	.	.	.	.	.	.	.	.	.
Sweet Potato	.	.	.	182	297	1.63	182	297	1.63
Yams	.	.	.	9	0	-	9	0	-
Coco Yam	.	.	.	.	.	.	.	.	.
<b>ROOTS &amp; TUBERS</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>191</b>	<b>297</b>	<b>1.56</b>	<b>191</b>	<b>297</b>	<b>1.56</b>
Mung Bean	9	2	0.25	.	.	.	9	2	0.25
Beans	8	2	0.24	4	3	0.86	12	5	0.43
Cowpeas	1,044	427	0.41	345	165	0.48	1,389	592	0.43
Green gram	44	12	0.26	9	45	4.94	53	57	1.07
Field Peas	.	.	.	.	.	.	.	.	.
<b>PULSES</b>	<b>1,106</b>	<b>442</b>	<b>0.40</b>	<b>358</b>	<b>213</b>	<b>0.60</b>	<b>1,463</b>	<b>656</b>	<b>0.45</b>
Sunflower	.	.	.	23	20	0.87	23	20	0.87
Simsim	9	0	-	146	33	0.23	155	33	0.21
Groundnut	.	.	.	.	.	.	.	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>9</b>	<b>0</b>	<b>-</b>	<b>170</b>	<b>53</b>	<b>0.31</b>	<b>179</b>	<b>53</b>	<b>0.30</b>
Okra	163	324	1.98	312	695	2.23	476	1,019	2.14
Turmeric	.	.	.	.	.	.	.	.	.
Bitteer Aubergine	.	.	.	9	20	2.22	9	20	2.2
Onion	.	.	.	5	32	7.00	5	32	7.00
Cabbage	.	.	.	5	187	41.00	5	187	41.00
Tomatoes	103	648	6.31	214	1,684	7.88	316	2,332	7.37
Spinach	18	182	9.98	9	27	2.96	27	209	7.64
Carrot	.	.	.	5	88	19.33	5	88	19.33
Chillies	.	.	.	10	26	2.61	10	26	2.61
Amaranths	14	208	15.15	9	27	2.96	23	235	10.28
Pumpkins	5	135	29.64	5	7	1.48	9	142	15.56
Cucumber	.	.	.	5	46	10.00	5	46	10.00
Egg Plant	.	.	.	18	176	9.63	18	176	9.63
Water Mellon	.	.	.	5	91	20.00	5	91	20.00
<b>FRUITS &amp; VEGETABLES</b>	<b>302</b>	<b>1,497</b>	<b>4.95</b>	<b>609</b>	<b>3,107</b>	<b>5.10</b>	<b>912</b>	<b>4,604</b>	<b>5.05</b>
Cotton	.	.	.	.	.	.	.	.	.
Jute	.	.	.	18	64	3.50	18	64	3.50
<b>CASH CROPS</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>18</b>	<b>64</b>	<b>3.50</b>	<b>18</b>	<b>64</b>	<b>3.50</b>
<b>Total</b>	<b>4,370</b>	<b>4,704</b>	<b>1.08</b>	<b>7,075</b>	<b>8,422</b>	<b>1.19</b>	<b>11,444</b>	<b>13,126</b>	<b>1.15</b>

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

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	6,329	8,085	1.28	2,789	4,225	1.51	9,118	12,310	1.35
Paddy	1,185	1,717	1.45	1,757	3,313	1.89	2,942	5,030	1.71
Sorghum	363	265	0.73	201	67	0.34	563	332	0.59
Bulrush Millet	.	.	.	.	.	.	.	.	.
Wheat	.	.	.	.	.	.	.	.	.
<b>CEREALS</b>	<b>7,877</b>	<b>10,066</b>	<b>1.28</b>	<b>4,746</b>	<b>7,605</b>	<b>1.60</b>	<b>12,623</b>	<b>17,672</b>	<b>1.40</b>
Yam	.	.	.	.	.	.	.	.	.
Cassava	.	.	.	.	.	.	.	.	.
Sweet Potato	37	42	1.13	129	302	2.33	166	343	2.07
Yams	.	.	.	.	.	.	.	.	.
Coco Yam	.	.	.	.	.	.	.	.	.
<b>ROOTS &amp; TUBERS</b>	<b>37</b>	<b>42</b>	<b>1.13</b>	<b>129</b>	<b>302</b>	<b>2.33</b>	<b>166</b>	<b>343</b>	<b>2.07</b>
Mung Bean	23	9	0.37	.	.	.	23	9	0.37
Beans	131	92	0.71	35	16	0.44	166	108	0.65
Cowpeas	1,904	580	0.30	1,105	376	0.34	3,009	956	0.32
Green gram	72	102	1.41	9	1	0.16	82	104	1.27
Field Peas	.	.	.	.	.	.	.	.	.
<b>PULSES</b>	<b>2,131</b>	<b>783</b>	<b>0.37</b>	<b>1,149</b>	<b>393</b>	<b>0.34</b>	<b>3,280</b>	<b>1,176</b>	<b>0.36</b>
Sunflower	12	1	0.05	.	.	.	12	1	0.05
Simsim	117	33	0.29	490	187	0.38	607	221	0.36
Groundnut	35	16	0.45	.	.	.	35	16	0.45
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>163</b>	<b>50</b>	<b>0.30</b>	<b>490</b>	<b>187</b>	<b>0.38</b>	<b>654</b>	<b>237</b>	<b>0.36</b>
Okra	96	45	0.47	64	24	0.38	160	69	0.43
Turmeric	.	.	.	23	17	0.74	23	17	0.74
Bitteer Aubergine	.	.	.	.	.	.	.	.	.
Onion	.	.	.	12	12	0.99	12	12	0.99
Cabbage	.	.	.	3	3	1.03	3	3	1.03
Tomatoes	35	651	18.59	3	28	9.12	38	679	17.84
Spinach	.	.	.	3	1	0.19	3	1	0.19
Carrot	.	.	.	.	.	.	.	.	.
Chillies	35	130	3.71	12	3	0.25	47	133	2.84
Amaranth	6	12	1.98	14	8	0.56	20	20	0.97
Pumpkins	9	21	2.41	3	5	1.52	12	26	2.18
Cucumber	.	.	.	.	.	.	.	.	.
Egg Plant	.	.	.	.	.	.	.	.	.
Water Mellon	6	40	6.92	.	.	.	6	40	6.92
<b>FRUITS &amp; VEGETABLES</b>	<b>187</b>	<b>899</b>	<b>4.81</b>	<b>137</b>	<b>100</b>	<b>0.73</b>	<b>324</b>	<b>999</b>	<b>3.08</b>
Cotton	.	.	.	.	.	.	.	.	.
Jute	.	.	.	.	.	.	.	.	.
<b>CASH CROPS</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>
<b>Total</b>	<b>10,395</b>	<b>11,840</b>	<b>1.14</b>	<b>6,652</b>	<b>8,587</b>	<b>1.29</b>	<b>17,047</b>	<b>20,427</b>	<b>1.20</b>

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

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	7,575	5,472	0.72	2,938	2,280	0.78	10,513	7,753	0.74
Paddy	727	488	0.67	6,681	5,082	0.76	7,408	5,569	0.75
Sorghum	300	200	0.67	239	99	0.41	539	299	0.55
Bulrush Millet	.	.	.	26	14	0.51	26	14	0.51
Wheat	66	46	0.70	.	.	.	66	46	0.70
<b>CEREALS</b>	<b>8,667</b>	<b>6,206</b>	<b>0.72</b>	<b>9,885</b>	<b>7,474</b>	<b>0.76</b>	<b>18,552</b>	<b>13,680</b>	<b>0.74</b>
Yam	.	.	.	.	.	.	.	.	.
Cassava	198	263	1.33	22	11	0.49	220	273	1.24
Sweet Potato	232	442	1.91	922	1,505	1.63	1,154	1,947	1.69
Yams	.	.	.	.	.	.	.	.	.
Coco Yam	.	.	.	.	.	.	.	.	.
<b>ROOTS &amp; TUBERS</b>	<b>430</b>	<b>705</b>	<b>1.64</b>	<b>944</b>	<b>1,516</b>	<b>1.61</b>	<b>1,373</b>	<b>2,221</b>	<b>1.62</b>
Mung Bean	121	94	0.78	.	.	.	121	94	0.78
Beans	152	118	0.78	44	16	0.37	195	134	0.69
Cowpeas	3,193	813	0.25	532	87	0.16	3,725	900	0.24
Green gram	224	57	0.25	33	68	2.07	257	125	0.49
Field Peas	.	.	.	.	.	.	.	.	.
<b>PULSES</b>	<b>3,689</b>	<b>1,082</b>	<b>0.29</b>	<b>609</b>	<b>172</b>	<b>0.28</b>	<b>4,298</b>	<b>1,254</b>	<b>0.29</b>
Sunflower	.	.	.	.	.	.	.	.	.
Simsim	44	43	0.99	514	238	0.46	558	282	0.50
Groundnut	97	30	0.31	.	.	.	97	30	0.31
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>141</b>	<b>74</b>	<b>0.52</b>	<b>514</b>	<b>238</b>	<b>0.46</b>	<b>654</b>	<b>312</b>	<b>0.48</b>
Okra	167	156	0.93	7	11	1.65	173	167	0.96
Turmeric	.	.	.	.	.	.	.	.	.
Bitteer Aubergine	18	163	9.26	44	5	0.12	61	168	2.73
Onion	.	.	.	.	.	.	.	.	.
Cabbage	.	.	.	.	.	.	.	.	.
Tomatoes	64	118	1.85	.	.	.	64	118	1.85
Spinach	31	62	2.03	.	.	.	31	62	2.03
Carrot	.	.	.	.	.	.	.	.	.
Chillies	132	187	1.42	11	54	4.94	143	241	1.69
Amaranths	35	172	4.90	.	.	.	35	172	4.90
Pumpkins	74	159	2.16	.	.	.	74	159	2.16
Cucumber	145	392	2.70	97	159	1.65	242	551	2.28
Egg Plant	.	.	.	.	.	.	.	.	.
Water Mellon	483	3,058	6.33	154	651	4.23	637	3,709	5.82
<b>FRUITS &amp; VEGETABLES</b>	<b>1,148</b>	<b>4,466</b>	<b>3.89</b>	<b>312</b>	<b>881</b>	<b>2.82</b>	<b>1,459</b>	<b>5,347</b>	<b>3.66</b>
Cotton	.	.	.	.	.	.	.	.	.
Jute	.	.	.	.	.	.	.	.	.
<b>CASH CROPS</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>
<b>Total</b>	<b>14,074</b>	<b>12,533</b>	<b>0.89</b>	<b>12,264</b>	<b>10,281</b>	<b>0.84</b>	<b>26,338</b>	<b>22,813</b>	<b>0.87</b>

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

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	8,483	8,380	0.99	2,455	2,699	1.10	10,938	11,079	1.01
Paddy	5,957	10,106	1.70	4,575	4,957	1.08	10,532	15,062	1.43
Sorghum	71	41	0.58	504	313	0.62	575	354	0.62
Bulrush Millet	.	.	.	.	.	.	.	.	.
Wheat	.	.	.	.	.	.	.	.	.
<b>CEREALS</b>	<b>14,511</b>	<b>18,527</b>	<b>1.28</b>	<b>7,534</b>	<b>7,968</b>	<b>1.06</b>	<b>22,045</b>	<b>26,496</b>	<b>1.20</b>
Yam	.	.	.	.	.	.	.	.	.
Cassava	186	953	5.14	.	.	.	186	953	5.14
Sweet Potato	.	.	.	53	109	2.06	53	109	2.06
Yams	140	87	0.62	.	.	.	140	87	0.62
Coco Yam	.	.	.	.	.	.	.	.	.
<b>ROOTS &amp; TUBERS</b>	<b>326</b>	<b>1,041</b>	<b>3.19</b>	<b>53</b>	<b>109</b>	<b>2.06</b>	<b>379</b>	<b>1,150</b>	<b>3.03</b>
Mung Bean	.	.	.	.	.	.	.	.	.
Beans	212	106	0.50	71	33	0.47	283	139	0.49
Cowpeas	816	283	0.35	27	34	1.28	843	317	0.38
Green gram	9	4	0.42	.	.	.	9	4	0.42
Field Peas	.	.	.	.	.	.	.	.	.
<b>PULSES</b>	<b>1,037</b>	<b>393</b>	<b>0.38</b>	<b>97</b>	<b>67</b>	<b>0.69</b>	<b>1,134</b>	<b>460</b>	<b>0.41</b>
Sunflower	.	.	.	.	.	.	.	.	.
Simsim	534	190	0.36	1,114	418	0.38	1,647	608	0.37
Groundnut	.	.	.	35	22	0.62	35	22	0.62
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>534</b>	<b>190</b>	<b>0.36</b>	<b>1,149</b>	<b>440</b>	<b>0.38</b>	<b>1,683</b>	<b>630</b>	<b>0.37</b>
Okra	.	.	.	.	.	.	.	.	.
Turmeric	.	.	.	.	.	.	.	.	.
Bitteer Aubergine	.	.	.	.	.	.	.	.	.
Onion	9	1	0.08	.	.	.	9	1	0.08
Cabbage	.	.	.	.	.	.	.	.	.
Tomatoes	80	536	6.74	71	1,768	25.00	150	2,304	15.33
Spinach	.	.	.	.	.	.	.	.	.
Carrot	.	.	.	.	.	.	.	.	.
Chillies	.	.	.	.	.	.	.	.	.
Amaranth	18	354	20.00	18	354	20.00	35	707	20.00
Pumpkins	18	31	1.73	.	.	.	18	31	1.73
Cucumber	.	.	.	.	.	.	.	.	.
Egg Plant	.	.	.	.	.	.	.	.	.
Water Mellon	.	.	.	.	.	.	.	.	.
<b>FRUITS &amp; VEGETABLES</b>	<b>124</b>	<b>921</b>	<b>7.44</b>	<b>88</b>	<b>2,122</b>	<b>24.00</b>	<b>212</b>	<b>3,043</b>	<b>14.34</b>
Cotton	.	.	.	.	.	.	.	.	.
Jute	.	.	.	.	.	.	.	.	.
<b>CASH CROPS</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>
<b>Total</b>	<b>16,531</b>	<b>21,072</b>	<b>1.27</b>	<b>8,922</b>	<b>10,706</b>	<b>1.20</b>	<b>25,453</b>	<b>31,779</b>	<b>1.25</b>

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

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	79	115	1.45	145	137	0.95	224	252	1.12
Paddy	365	593	1.63	1,509	1,713	1.13	1,874	2,306	1.23
Sorghum	.	.	.	32	7	0.23	32	7	0.23
Bulrush Millet	.	.	.	.	.	.	.	.	.
Wheat	.	.	.	.	.	.	.	.	.
<b>CEREALS</b>	<b>444</b>	<b>708</b>	<b>1.60</b>	<b>1,686</b>	<b>1,857</b>	<b>1.10</b>	<b>2,130</b>	<b>2,566</b>	<b>1.20</b>
Yam	124	556	4.50	100	426	4.26	224	982	4.39
Cassava	.	.	.	30	11	0.36	30	11	0.36
Sweet Potato	172	390	2.27	68	196	2.89	239	586	2.45
Yams	.	.	.	3	2	0.64	3	2	0.64
Coco Yam	1	0	0.37	.	.	.	1	0	0.37
<b>ROOTS &amp; TUBERS</b>	<b>296</b>	<b>947</b>	<b>3.19</b>	<b>201</b>	<b>635</b>	<b>3.16</b>	<b>497</b>	<b>1,581</b>	<b>3.18</b>
Mung Bean	.	.	.	.	.	.	.	.	.
Beans	.	.	.	26	26	1.00	26	26	1.00
Cowpeas	12	5	0.45	9	2	0.26	21	8	0.37
Green gram	.	.	.	.	.	.	.	.	.
Field Peas	.	.	.	.	.	.	.	.	.
<b>PULSES</b>	<b>12</b>	<b>5</b>	<b>0.45</b>	<b>36</b>	<b>29</b>	<b>0.80</b>	<b>48</b>	<b>34</b>	<b>0.72</b>
Sunflower	.	.	.	.	.	.	.	.	.
Simsim	.	.	.	.	.	.	.	.	.
Groundnut	3	2	0.59	26	15	0.56	29	16	0.56
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>3</b>	<b>2</b>	<b>0.59</b>	<b>26</b>	<b>15</b>	<b>0.56</b>	<b>29</b>	<b>16</b>	<b>0.56</b>
Okra	9	22	2.47	.	.	.	9	22	2.47
Turmeric	.	.	.	.	.	.	.	.	.
Bitteer Aubergine	.	.	.	.	.	.	.	.	.
Onion	.	.	.	.	.	.	.	.	.
Cabbage	.	.	.	.	.	.	.	.	.
Tomatoes	12	15	1.31	24	78	3.32	35	94	2.65
Spinach	.	.	.	.	.	.	.	.	.
Carrot	.	.	.	.	.	.	.	.	.
Chillies	2	1	0.36	.	.	.	2	1	0.36
Amaranths	5	30	5.65	.	.	.	5	30	5.65
Pumpkins	6	9	1.48	32	302	9.34	38	311	8.13
Cucumber	.	.	.	.	.	.	.	.	.
Egg Plant	4	2	0.54	.	.	.	4	2	0.54
Water Mellon	.	.	.	.	.	.	.	.	.
<b>FRUITS &amp; VEGETABLES</b>	<b>37</b>	<b>78</b>	<b>2.11</b>	<b>56</b>	<b>380</b>	<b>6.81</b>	<b>93</b>	<b>459</b>	<b>4.94</b>
Cotton	.	.	.	.	.	.	.	.	.
Jute	.	.	.	.	.	.	.	.	.
<b>CASH CROPS</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>	<b>.</b>
<b>Total</b>	<b>792</b>	<b>1,740</b>	<b>2.20</b>	<b>2,004</b>	<b>2,915</b>	<b>1.45</b>	<b>2,797</b>	<b>4,656</b>	<b>1.66</b>

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

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	5,821	2,514	5,776	2,583	11,598	5,097
Paddy	812	420	5,009	2,727	5,821	3,147
Sorghum	45	18	1,264	419	1,309	438
Bulrush Millet	0	.	0	.	0	.
Wheat	0	.	0	.	0	.
<b>CEREALS</b>		<b>2,952</b>		<b>5,729</b>		<b>8,681</b>
Yam	0	.	0	.	0	.
Cassava	0	.	0	.	0	.
Sweet Potato	0	.	451	182	451	182
Yams	0	.	45	9	45	9
Coco Yam	0	.	0	.	0	.
<b>ROOTS &amp; TUBERS</b>		<b>.</b>		<b>191</b>		<b>191</b>
Mung Bean	45	9	0	.	45	9
Beans	90	8	45	4	135	12
Cowpeas	5,415	1,044	1,670	345	7,085	1,389
Green gram	181	44	45	9	226	53
Field Peas	0	.	0	.	0	.
<b>PULSES</b>		<b>1,106</b>		<b>358</b>		<b>1,463</b>
Sunflower	0	.	90	23	90	23
Simsim	45	9	406	146	451	155
Groundnut	0	.	0	.	0	.
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>9</b>		<b>170</b>		<b>179</b>
Okra	587	163	1,264	312	1,850	476
Turmeric	0	.	0	.	0	.
Bitteer Aubergine	0	.	45	9	45	9
Onion	0	.	45	5	45	5
Cabbage	0	.	45	5	45	5
Tomatoes	271	103	812	214	1,083	316
Spinach	90	18	45	9	135	27
Carrot	0	.	45	5	45	5
Chillies	0	.	90	10	90	10
Amaranths	90	14	45	9	135	23
Pumpkins	45	5	45	5	90	9
Cucumber	0	.	45	5	45	5
Egg Plant	0	.	90	18	90	18
Water Mellon	0	.	45	5	45	5
<b>FRUITS &amp; VEGETABLES</b>		<b>302</b>		<b>609</b>		<b>912</b>
Cotton	0	.	0	.	0	.
Jute	0	.	45	18	45	18
<b>CASH CROPS</b>		<b>.</b>		<b>18</b>		<b>18</b>
<b>Total</b>		<b>4,370</b>		<b>7,075</b>		<b>11,444</b>



**5.20 Number of Agriculture Households by Area Planted (ha) and crop for the agriculture year 2007/08 Short and Long Season-KIBAHA DISTRICT**

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	5,821	2,514	5,776	2,583	11,598	5,097
Paddy	812	420	5,009	2,727	5,821	3,147
Sorghum	45	18	1,264	419	1,309	438
Bulrush Millet	0	.	0	.	0	.
Wheat	0	.	0	.	0	.
<b>CEREALS</b>		<b>2,952</b>		<b>5,729</b>		<b>8,681</b>
Yam	0	.	0	.	0	.
Cassava	0	.	0	.	0	.
Sweet Potato	0	.	451	182	451	182
Yams	0	.	45	9	45	9
Coco Yam	0	.	0	.	0	.
<b>ROOTS &amp; TUBERS</b>		<b>.</b>		<b>191</b>		<b>191</b>
Mung Bean	45	9	0	.	45	9
Beans	90	8	45	4	135	12
Cowpeas	5,415	1,044	1,670	345	7,085	1,389
Green gram	181	44	45	9	226	53
Field Peas	0	.	0	.	0	.
<b>PULSES</b>		<b>1,106</b>		<b>358</b>		<b>1,463</b>
Sunflower	0	.	90	23	90	23
Simsim	45	9	406	146	451	155
Groundnut	0	.	0	.	0	.
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>9</b>		<b>170</b>		<b>179</b>
Okra	587	163	1,264	312	1,850	476
Turmeric	0	.	0	.	0	.
Bitteer Aubergine	0	.	45	9	45	9
Onion	0	.	45	5	45	5
Cabbage	0	.	45	5	45	5
Tomatoes	271	103	812	214	1,083	316
Spinach	90	18	45	9	135	27
Carrot	0	.	45	5	45	5
Chillies	0	.	90	10	90	10
Amaranth	90	14	45	9	135	23
Pumpkins	45	5	45	5	90	9
Cucumber	0	.	45	5	45	5
Egg Plant	0	.	90	18	90	18
Water Mellon	0	.	45	5	45	5
<b>FRUITS &amp; VEGETABLES</b>		<b>302</b>		<b>609</b>		<b>912</b>
Cotton	0	.	0	.	0	.
Jute	0	.	45	18	45	18
<b>CASH CROPS</b>		<b>.</b>		<b>18</b>		<b>18</b>
<b>Total</b>		<b>4,370</b>		<b>7,075</b>		<b>11,444</b>

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

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	13,322	6,329	5,767	2,789	19,089	9,118
Paddy	2,018	1,185	2,941	1,757	4,960	2,942
Sorghum	1,211	363	865	201	2,076	563
Bulrush Millet	0	.	0	.	0	.
Wheat	0	.	0	.	0	.
<b>CEREALS</b>		<b>7,877</b>		<b>4,746</b>		<b>12,623</b>
Yam	0	.	0	.	0	.
Cassava	0	.	0	.	0	.
Sweet Potato	231	37	519	129	750	166
Yams	0	.	0	.	0	.
Coco Yam	0	.	0	.	0	.
<b>ROOTS &amp; TUBERS</b>		<b>37</b>		<b>129</b>		<b>166</b>
Mung Bean	58	23	0	.	58	23
Beans	692	131	115	35	807	166
Cowpeas	8,131	1,904	3,056	1,105	11,188	3,009
Green gram	346	72	58	9	404	82
Field Peas	0	.	0	.	0	.
<b>PULSES</b>		<b>2,131</b>		<b>1,149</b>		<b>3,280</b>
Sunflower	58	12	0	.	58	12
Simsim	288	117	865	490	1,153	607
Groundnut	173	35	0	.	173	35
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>163</b>		<b>490</b>		<b>654</b>
Okra	519	96	346	64	865	160
Turmeric	0	.	58	23	58	23
Bitteer Aubergine	0	.	0	.	0	.
Onion	0	.	58	12	58	12
Cabbage	0	.	58	3	58	3
Tomatoes	115	35	58	3	173	38
Spinach	0	.	58	3	58	3
Carrot	0	.	0	.	0	.
Chillies	58	35	58	12	115	47
Amaranth	58	6	173	14	231	20
Pumpkins	115	9	58	3	173	12
Cucumber	0	.	0	.	0	.
Egg Plant	0	.	0	.	0	.
Water Mellon	115	6	0	.	115	6
<b>FRUITS &amp; VEGETABLES</b>		<b>187</b>		<b>137</b>		<b>324</b>
Cotton	0	.	0	.	0	.
Jute	0	.	0	.	0	.
<b>CASH CROPS</b>		<b>.</b>		<b>.</b>		<b>.</b>
<b>Total</b>		<b>10,395</b>		<b>6,652</b>		<b>17,047</b>

**5.22 Number of Agriculture Households by Area Planted (ha) and crop for the agriculture year 2007/08 Short and Long Season-MKURANGA DISTRICT**

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	16,380	7,575	5,424	2,938	21,804	10,513
Paddy	2,061	727	11,824	6,681	13,885	7,408
Sorghum	759	300	542	239	1,302	539
Bulrush Millet	0	.	108	26	108	26
Wheat	108	66	0	.	108	66
<b>CEREALS</b>		<b>8,667</b>		<b>9,885</b>		<b>18,552</b>
Yam	0	.	0	.	0	.
Cassava	325	198	108	22	434	220
Sweet Potato	759	232	2,712	922	3,471	1,154
Yams	0	.	0	.	0	.
Coco Yam	0	.		.	0	.
<b>ROOTS &amp; TUBERS</b>		<b>430</b>	<b>2,820</b>	<b>944</b>		<b>1,373</b>
Mung Bean	325	121	0	.	325	121
Beans	542	152	108	44	651	195
Cowpeas	11,065	3,193	2,387	532	13,451	3,725
Green gram	1,085	224	217	33	1,302	257
Field Peas	0	.	0	.	0	.
<b>PULSES</b>	13,017	3,689	2,712	609	15,729	4,298
Sunflower	0	.	0	.	0	.
Simsim	108	44	1,085	514	1,193	558
Groundnut	217	97	0	.	217	97
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>141</b>		<b>514</b>		<b>654</b>
Okra	759	167	108	7	868	173
Turmeric	0	.	0	.	0	.
Bitteer Aubergine	325	18	108	44	434	61
Onion	0	.	0	.	0	.
Cabbage	0	.	0	.	0	.
Tomatoes	434	64	0	.	434	64
Spinach	325	31	0	.	325	31
Carrot	0	.	0	.	0	.
Chillies	434	132	108	11	542	143
Amaranths	434	35	0	.	434	35
Pumpkins	542	74	0	.	542	74
Cucumber	976	145	217	97	1,193	242
Egg Plant	0	.	0	.	0	.
Water Mellon	759	483	217	154	976	637
<b>FRUITS &amp; VEGETABLES</b>		<b>1,148</b>		<b>312</b>		<b>1,459</b>
Cotton	0	.	0	.	0	.
Jute	0	.	0	.	0	.
<b>CASH CROPS</b>		.		.		.
<b>Total</b>		<b>14,074</b>		<b>12,264</b>		<b>26,338</b>

**5.23 Number of Agriculture Households by Area Planted (ha) and crop for the agriculture year 2007/08 Short and Long Season-RUFIJI DISTRICT**

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	17,467	8,483	5,240	2,455	22,708	10,938
Paddy	10,044	5,957	8,122	4,575	18,166	10,532
Sorghum	262	71	1,310	504	1,572	575
Bulrush Millet	0	.	0	.	0	.
Wheat	0	.	0	.	0	.
<b>CEREALS</b>		<b>14,511</b>		<b>7,534</b>		<b>22,045</b>
Yam	0	.	0	.	0	.
Cassava	524	186	0	.	524	186
Sweet Potato	0	.	262	53	262	53
Yams	175	140	0	.	175	140
Coco Yam	0	.	0	.	0	.
<b>ROOTS &amp; TUBERS</b>		<b>326</b>		<b>53</b>		<b>379</b>
Mung Bean	0	.	0	.	0	.
Beans	611	212	262	71	873	283
Cowpeas	4,454	816	175	27	4,629	843
Green gram	87	9	0	.	87	9
Field Peas	0	.	0	.	0	.
<b>PULSES</b>		<b>1,037</b>		<b>97</b>		<b>1,134</b>
Sunflower	0	.	0	.	0	.
Simsim	1,485	534	2,882	1,114	4,367	1,647
Groundnut	0	.	87	35	87	35
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>534</b>		<b>1,149</b>		<b>1,683</b>
Okra	0	.	0	.	0	.
Turmeric	0	.	0	.	0	.
Bitteer Aubergine	0	.	0	.	0	.
Onion	87	9	0	.	87	9
Cabbage	0	.	0	.	0	.
Tomatoes	349	80	175	71	524	150
Spinach	0	.	0	.	0	.
Carrot	0	.	0	.	0	.
Chillies	0	.	0	.	0	.
Amaranth	87	18	87	18	175	35
Pumpkins	87	18	0	.	87	18
Cucumber	0	.	0	.	0	.
Egg Plant	0	.	0	.	0	.
Water Mellon	0	.	0	.	0	.
<b>FRUITS &amp; VEGETABLES</b>		<b>124</b>		<b>88</b>		<b>212</b>
Cotton	0	.	0	.	0	.
Jute	0	.	0	.	0	.
<b>CASH CROPS</b>		<b>.</b>		<b>.</b>		<b>.</b>
<b>Total</b>		<b>16,531</b>		<b>8,922</b>		<b>25,453</b>

**5.24 Number of Agriculture Households by Area Planted (ha) and crop for the agriculture year 2007/08 Short and Long Season-MAFIA DISTRICT**

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	232	79	581	145	814	224
Paddy	1,133	365	3,806	1,509	4,940	1,874
Sorghum	0	.	203	32	203	32
Bulrush Millet	0	.	0	.	0	.
Wheat	0	.	0	.	0	.
<b>CEREALS</b>		<b>444</b>		<b>1,686</b>		<b>2,130</b>
Yam	407	124	291	100	697	224
Cassava	0	.	116	30	116	30
Sweet Potato	581	172	320	68	901	239
Yams	0	.	29	3	29	3
Coco Yam	29	1	0	.	29	1
<b>ROOTS &amp; TUBERS</b>		<b>296</b>		<b>201</b>		<b>497</b>
Mung Bean	0	.	0	.	0	.
Beans	0	.	116	26	116	26
Cowpeas	58	12	116	9	174	21
Green gram	0	.	0	.	0	.
Field Peas	0	.	0	.	0	.
<b>PULSES</b>		<b>12</b>		<b>36</b>		<b>48</b>
Sunflower	0	.	0	.	0	.
Simsim	0	.	0	.	0	.
Groundnut	29	3	116	26	145	29
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>3</b>		<b>26</b>		<b>29</b>
Okra	29	9	0	.	29	9
Turmeric	0	.	0	.	0	.
Bitteer Aubergine	0	.	0	.	0	.
Onion	0	.	0	.	0	.
Cabbage	0	.	0	.	0	.
Tomatoes	87	12	58	24	145	35
Spinach	0	.	0	.	0	.
Carrot	0	.	0	.	0	.
Chillies	58	2	0	.	58	2
Amaranths	87	5	0	.	87	5
Pumpkins	29	6	174	32	203	38
Cucumber	0	.	0	.	0	.
Egg Plant	58	4	0	.	58	4
Water Mellon	0	.	0	.	0	.
<b>FRUITS &amp; VEGETABLES</b>		<b>37</b>		<b>56</b>		<b>93</b>
Cotton	0	.	0	.	0	.
Jute	0	.	0	.	0	.
<b>CASH CROPS</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>	<b>0</b>	<b>.</b>
<b>Total</b>		<b>792</b>		<b>2,004</b>		<b>2,797</b>

**CROP STORAGE**

**5.25 Number of Households Storing Crops**

District	SHORT RAINY SEASON					LONG RAINY SEASON					SHORT & LONG SEASON				
	Storing crop	%	Not storing crop	%	Total	Storing crop	%	Not storing crop	%	Total	Storing crop	%	Not storing crop	%	Total
Bagamoyo	9,971	71	3,988	29	13,959	30,133	90	3,213	10	33,346	40,104	85	7,201	15	47,305
Kibaha	7,311	82	1,625	18	8,935	9,296	88	1,264	12	10,560	16,607	85	2,888	15	19,495
Kisarawe	14,936	94	1,038	6	15,974	8,535	92	750	8	9,285	23,471	93	1,788	7	25,259
Mkuranga	19,201	89	2,387	11	21,587	16,922	92	1,519	8	18,441	36,123	90	3,905	10	40,028
Rufiji	19,738	90	2,096	10	21,834	11,703	86	1,921	14	13,625	31,441	89	4,018	11	35,459
Mafia	1,860	83	378	17	2,237	4,155	89	494	11	4,649	6,015	87	872	13	6,887
<b>Total</b>	<b>73,016</b>	<b>86</b>	<b>11,511</b>	<b>14</b>	<b>84,527</b>	<b>80,746</b>	<b>90</b>	<b>9,160</b>	<b>10</b>	<b>89,906</b>	<b>153,762</b>	<b>88</b>	<b>20,671</b>	<b>12</b>	<b>174,433</b>

**5.26 Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season - Bagamoyo District**  
**Bagamoyo SHORT RAINY SEASON**

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	4,431	35.7	0	0	0	0	3,324	26.8	0	0	111	0.9	4,542	36.6	0	0	12,408	100
Paddy	0	0	0	0	0	0	222	40	0	0	0	0	332	60	0	0	554	100
Sorghum	111	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	111	100
Bulrush	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Millet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>CEREALS</b>	<b>4,542</b>	<b>34.7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,545</b>	<b>27.1</b>	<b>0</b>	<b>0</b>	<b>111</b>	<b>0.8</b>	<b>4,875</b>	<b>37.3</b>	<b>0</b>	<b>0</b>	<b>13,073</b>	<b>100</b>
Yam	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cassava	0	0	0	0	0	0	0	0	0	0	0	0	111	100	0	0	111	100
Sweet Potato	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>111</b>	<b>100</b>	<b>0</b>	<b>0</b>	<b>111</b>	<b>100</b>
Mung Bean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Beans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cowpeas	1,329	32.4	111	2.7	0	0	1,883	45.9	0	0	111	2.7	665	16.2	0	0	4,099	100
Green gram	222	28.6	0	0	0	0	111	14.3	0	0	0	0	443	57.1	0	0	775	100
Field Peas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>PULSES</b>	<b>1,551</b>	<b>31.8</b>	<b>111</b>	<b>2.3</b>	<b>0</b>	<b>0</b>	<b>1,994</b>	<b>40.9</b>	<b>0</b>	<b>0</b>	<b>111</b>	<b>2.3</b>	<b>1,108</b>	<b>22.7</b>	<b>0</b>	<b>0</b>	<b>4,875</b>	<b>100</b>
Sunflower	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Simsim	0	0	0	0	0	0	0	0	0	0	0	0	111	100	0	0	111	100
Groundnut	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>111</b>	<b>100</b>	<b>0</b>	<b>0</b>	<b>111</b>	<b>100</b>



**Cont. 5.26 Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season - Bagamoyo District**  
**Bagamoyo SHORT RAINY SEASON**

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	%
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>111</b>	<b>100.0</b>	<b>0</b>	<b>.0</b>	<b>111</b>	<b>100</b>
Okra	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	
Turmeric	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	
Bitteer Aubergine	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	
Onion	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	
Cabbage	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	
Tomatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	111	100.0	0	.0	111	100
Spinach	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	
Amaranths	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	
Pumpkins	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	
Cucumber	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	
Egg Plant	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	
<b>FRUITS &amp; VEGETABLES</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>111</b>	<b>100.0</b>	<b>0</b>	<b>.0</b>	<b>111</b>	<b>100</b>
Cotton	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	
Jute	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	
<b>CASH CROPS</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	
<b>Total</b>	<b>6,093</b>	<b>33.3</b>	<b>111</b>	<b>.6</b>	<b>0</b>	<b>.0</b>	<b>5,539</b>	<b>30.3</b>	<b>0</b>	<b>.0</b>	<b>222</b>	<b>1.2</b>	<b>6,315</b>	<b>34.5</b>	<b>0</b>	<b>.0</b>	<b>18,279</b>	<b>100</b>

## 5.27 Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season - Kibaha District

## Kibaha LONG RAINY SEASON

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Maize	1,670	28.9	0	0	181	3.1	2,843	49.2	181	3.1	45	0.8	812	14.1	45	0.8	5,776	100
Paddy	993	19.8	90	1.8	90	1.8	2,708	54.1	271	5.4	0	0	767	15.3	90	1.8	5,009	100
Sorghum	271	21.4	0	0	0	0	812	64.3	0	0	45	3.6	135	10.7	0	0	1,264	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	0	0	0	0	0	0	0	0	0	0	0	0
<b>CEREALS</b>	<b>2,933</b>	<b>24.3</b>	<b>90</b>	<b>0.7</b>	<b>271</b>	<b>2.2</b>	<b>6,363</b>	<b>52.8</b>	<b>451</b>	<b>3.7</b>	<b>90</b>	<b>0.7</b>	<b>1,715</b>	<b>14.2</b>	<b>135</b>	<b>1.1</b>	<b>12,049</b>	<b>100</b>
Yam	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cassava	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sweet Potato	45	10	0	0	0	0	135	30	0	0	0	0	181	40	90	20	451	100
Yams	0	0	0	0	0	0	0	0	0	0	0	0	45	100	0	0	45	100
Coco Yam	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>	<b>45</b>	<b>9.1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>135</b>	<b>27.3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>226</b>	<b>45.5</b>	<b>90</b>	<b>18.2</b>	<b>496</b>	<b>100</b>
Mung Bean	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Beans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45	100	45	100
Cowpeas	271	16.2	0	0	0	0	1,038	62.2	45	2.7	45	2.7	135	8.1	135	8.1	1,670	100
Green gram	0	0	0	0	0	0	0	0	0	0	0	0	45	100	0	0	45	100
Field Peas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>PULSES</b>	<b>271</b>	<b>15.4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,038</b>	<b>59</b>	<b>45</b>	<b>2.6</b>	<b>45</b>	<b>2.6</b>	<b>181</b>	<b>10.3</b>	<b>181</b>	<b>10.3</b>	<b>1,760</b>	<b>100</b>
Sunflower	0	0	0	0	0	0	0	0	0	0	0	0	45	50	45	50	90	100
Simsim	45	11.1	0	0	0	0	226	55.6	0	0	0	0	135	33.3	0	0	406	100
Groundnut	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**Cont.. 5.27 Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season - Kibaha District**

**Kibaha LONG RAINY SEASON**

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	45	3.6	0	.0	0	.0	0	.0	0	.0	0	.0	1,173	92.9	45	3.6	1,264	100.0
Turmeric	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bitteer Aubergine	45	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	45	100.0
Onion	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	45	100.0	0	.0	45	100.0
Cabbage	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	45	100.0	0	.0	45	100.0
Tomatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	767	94.4	45	5.6	812	100.0
Spinach	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	45	100.0	0	.0	45	100.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	45	100.0	0	.0	45	100.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	90	100.0	0	.0	90	100.0
Amaranths	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	45	100.0	0	.0	45	100.0
Pumpkins	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	45	100.0	45	100.0
Cucumber	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	45	100.0	0	.0	45	100.0
Egg Plant	45	50.0	0	.0	0	.0	0	.0	0	.0	0	.0	45	50.0	0	.0	90	100.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	45	100.0	0	.0	45	100.0
<b>FRUITS &amp; VEGETABLES</b>	<b>135</b>	<b>5.1</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>2,392</b>	<b>89.8</b>	<b>135</b>	<b>5.1</b>	<b>2,663</b>	<b>100.0</b>
Cotton	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Jute	0	.0	45	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	45	100.0
<b>CASH CROPS</b>	<b>0</b>	<b>.0</b>	<b>45</b>	<b>100.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>45</b>	<b>100.0</b>
<b>Total</b>	<b>3,430</b>	<b>19.6</b>	<b>135</b>	<b>.8</b>	<b>271</b>	<b>1.5</b>	<b>7,762</b>	<b>44.3</b>	<b>496</b>	<b>2.8</b>	<b>135</b>	<b>.8</b>	<b>4,693</b>	<b>26.8</b>	<b>587</b>	<b>3.4</b>	<b>17,509</b>	<b>100.0</b>

**5.28 Number of households storing Crops by Method of Storage and Crop Type Short & Long Rainy Season - Kibaha District**  
**Kibaha SHORT & LONG SEASON**

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Maize	2,978	25.7	45	.4	316	2.7	5,145	44.4	451	3.9	90	.8	2,392	20.6	181	1.6	11,598	100.0
Paddy	1,489	25.6	90	1.6	90	1.6	2,978	51.2	271	4.7	0	.0	812	14.0	90	1.6	5,821	100.0
Sorghum	316	24.1	0	.0	0	.0	812	62.1	0	.0	45	3.4	135	10.3	0	.0	1,309	100.0
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	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>CEREALS</b>	<b>4,784</b>	<b>25.5</b>	<b>135</b>	<b>.7</b>	<b>406</b>	<b>2.2</b>	<b>8,935</b>	<b>47.7</b>	<b>722</b>	<b>3.9</b>	<b>135</b>	<b>.7</b>	<b>3,339</b>	<b>17.8</b>	<b>271</b>	<b>1.4</b>	<b>18,728</b>	<b>100.0</b>
Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cassava	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Sweet Potato	45	10.0	0	.0	0	.0	135	30.0	0	.0	0	.0	181	40.0	90	20.0	451	100.0
Yams	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	45	100.0	0	.0	45	100.0
Coco Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>ROOTS &amp; TUBERS</b>	<b>45</b>	<b>9.1</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>135</b>	<b>27.3</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>226</b>	<b>45.5</b>	<b>90</b>	<b>18.2</b>	<b>496</b>	<b>100.0</b>
Mung Bean	0	.0	0	.0	0	.0	45	100.0	0	.0	0	.0	0	.0	0	.0	45	100.0
Beans	45	33.3	0	.0	0	.0	0	.0	0	.0	0	.0	45	33.3	45	33.3	135	100.0
Cowpeas	1,399	19.7	45	.6	0	.0	3,159	44.6	181	2.5	90	1.3	1,309	18.5	903	12.7	7,085	100.0
Green gram	45	20.0	0	.0	0	.0	45	20.0	0	.0	0	.0	135	60.0	0	.0	226	100.0
Field Peas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>PULSES</b>	<b>1,489</b>	<b>19.9</b>	<b>45</b>	<b>.6</b>	<b>0</b>	<b>.0</b>	<b>3,249</b>	<b>43.4</b>	<b>181</b>	<b>2.4</b>	<b>90</b>	<b>1.2</b>	<b>1,489</b>	<b>19.9</b>	<b>948</b>	<b>12.7</b>	<b>7,491</b>	<b>100.0</b>
Sunflower	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	45	50.0	45	50.0	90	100.0
Simsim	45	10.0	0	.0	0	.0	226	50.0	0	.0	0	.0	181	40.0	0	.0	451	100.0
Groundnut	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>45</b>	<b>8.3</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>226</b>	<b>41.7</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>226</b>	<b>41.7</b>	<b>45</b>	<b>8.3</b>	<b>542</b>	<b>100.0</b>

**cont..5.28 Number of households storing Crops by Method of Storage and Crop Type Short & Long Rainy Season - Kibaha District**  
**Kibaha SHORT & LONG SEASON**

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	45	2.4	0	.0	0	.0	45	2.4	0	.0	45	2.4	1,670	90.2	45	2.4	1,850	100.0
Turmeric	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bitteer Aubergine	45	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	45	100.0
Onion	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	45	100.0	0	.0	45	100.0
Cabbage	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	45	100.0	0	.0	45	100.0
Tomatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	1,038	95.8	45	4.2	1,083	100.0
Spinach	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	135	100.0	0	.0	135	100.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	45	100.0	0	.0	45	100.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	90	100.0	0	.0	90	100.0
Amaranths	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	135	100.0	0	.0	135	100.0
Pumpkins	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	45	50.0	45	50.0	90	100.0
Cucumber	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	45	100.0	0	.0	45	100.0
Egg Plant	45	50.0	0	.0	0	.0	0	.0	0	.0	0	.0	45	50.0	0	.0	90	100.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	45	100.0	0	.0	45	100.0
<b>FRUITS &amp; VEGETABLES</b>	<b>135</b>	<b>3.6</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>45</b>	<b>1.2</b>	<b>0</b>	<b>.0</b>	<b>45</b>	<b>1.2</b>	<b>3,385</b>	<b>90.4</b>	<b>135</b>	<b>3.6</b>	<b>3,746</b>	<b>100.0</b>
Cotton	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Jute	0	.0	45	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	45	100.0
<b>CASH CROPS</b>	<b>0</b>	<b>.0</b>	<b>45</b>	<b>100.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>45</b>	<b>100.0</b>
<b>Total</b>	<b>6,498</b>	<b>20.9</b>	<b>226</b>	<b>.7</b>	<b>406</b>	<b>1.3</b>	<b>12,591</b>	<b>40.6</b>	<b>903</b>	<b>2.9</b>	<b>271</b>	<b>.9</b>	<b>8,664</b>	<b>27.9</b>	<b>1,489</b>	<b>4.8</b>	<b>31,048</b>	<b>100.0</b>

**5.29 Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season - Kisarawe District**  
**Kisarawe SHORT RAINY SEASON**

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	8,420	63.2	231	1.7	0	.0	3,229	24.2	58	.4	115	.9	1,269	9.5	0	.0	13,322	100.0
Paddy	1,557	77.1	0	.0	0	.0	288	14.3	0	.0	58	2.9	115	5.7	0	.0	2,018	100.0
Sorghum	692	57.1	0	.0	58	4.8	173	14.3	0	.0	115	9.5	173	14.3	0	.0	1,211	100.0
Bulrush	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Millet	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Wheat	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>CEREALS</b>	<b>10,669</b>	<b>64.5</b>	<b>231</b>	<b>1.4</b>	<b>58</b>	<b>.3</b>	<b>3,691</b>	<b>22.3</b>	<b>58</b>	<b>.3</b>	<b>288</b>	<b>1.7</b>	<b>1,557</b>	<b>9.4</b>	<b>0</b>	<b>.0</b>	<b>16,551</b>	<b>100.0</b>
Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cassava	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Sweet Potato	58	25.0	0	.0	0	.0	0	.0	0	.0	0	.0	173	75.0	0	.0	231	100.0
Yams	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Coco Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>ROOTS &amp; TUBERS</b>	<b>58</b>	<b>25.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>173</b>	<b>75.0</b>	<b>0</b>	<b>.0</b>	<b>231</b>	<b>100.0</b>
Mung Bean	58	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	58	100.0
Beans	692	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	692	100.0
Cowpeas	6,517	80.1	58	.7	58	.7	692	8.5	0	.0	58	.7	750	9.2	0	.0	8,131	100.0
Green gram	288	83.3	0	.0	0	.0	58	16.7	0	.0	0	.0	0	.0	0	.0	346	100.0
Field Peas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>PULSES</b>	<b>7,555</b>	<b>81.9</b>	<b>58</b>	<b>.6</b>	<b>58</b>	<b>.6</b>	<b>750</b>	<b>8.1</b>	<b>0</b>	<b>.0</b>	<b>58</b>	<b>.6</b>	<b>750</b>	<b>8.1</b>	<b>0</b>	<b>.0</b>	<b>9,227</b>	<b>100.0</b>
Sunflower	0	.0	0	.0	58	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	58	100.0
Simsim	115	40.0	0	.0	0	.0	0	.0	0	.0	0	.0	173	60.0	0	.0	288	100.0
Groundnut	58	33.3	0	.0	0	.0	58	33.3	0	.0	0	.0	58	33.3	0	.0	173	100.0
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>173</b>	<b>33.3</b>	<b>0</b>	<b>.0</b>	<b>58</b>	<b>11.1</b>	<b>58</b>	<b>11.1</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>231</b>	<b>44.4</b>	<b>0</b>	<b>.0</b>	<b>519</b>	<b>100.0</b>

**Cont..5.29 Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season - Kisarawe District****Kisarawe SHORT RAINY SEASON**

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	173	33.3	58	11.1	0	.0	58	11.1	0	.0	0	.0	231	44.4	0	.0	519	100.0
Turmeric	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bitteer	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Aubergine	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Onion	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cabbage	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Tomatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	58	50.0	58	50.0	115	100.0
Spinach	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Chillies	58	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	58	100.0
Amaranths	58	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	58	100.0
Pumpkins	58	50.0	0	.0	58	50.0	0	.0	0	.0	0	.0	0	.0	0	.0	115	100.0
Cucumber	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Egg Plant	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	115	100.0	0	.0	115	100.0
<b>FRUITS &amp; VEGETABLES</b>	<b>346</b>	<b>35.3</b>	<b>58</b>	<b>5.9</b>	<b>58</b>	<b>5.9</b>	<b>58</b>	<b>5.9</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>404</b>	<b>41.2</b>	<b>58</b>	<b>5.9</b>	<b>980</b>	<b>100.0</b>
Cotton	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Jute	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>CASH CROPS</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>
<b>Total</b>	<b>18,800</b>	<b>68.3</b>	<b>346</b>	<b>1.3</b>	<b>231</b>	<b>.8</b>	<b>4,556</b>	<b>16.6</b>	<b>58</b>	<b>.2</b>	<b>346</b>	<b>1.3</b>	<b>3,114</b>	<b>11.3</b>	<b>58</b>	<b>.2</b>	<b>27,508</b>	<b>100.0</b>

**5.30 Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season - Kisarawe District**  
**Kisarawe LONG RAINY SEASON**

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	4,095	71.0	115	2.0	173	3.0	750	13.0	0	.0	0	.0	634	11.0	0	.0	5,767	100.0
Paddy	2,076	70.6	0	.0	0	.0	404	13.7	58	2.0	0	.0	404	13.7	0	.0	2,941	100.0
Sorghum	173	20.0	115	13.3	58	6.7	115	13.3	0	.0	0	.0	404	46.7	0	.0	865	100.0
Bulrush	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Millet	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Wheat	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>CEREALS</b>	<b>6,344</b>	<b>66.3</b>	<b>231</b>	<b>2.4</b>	<b>231</b>	<b>2.4</b>	<b>1,269</b>	<b>13.3</b>	<b>58</b>	<b>.6</b>	<b>0</b>	<b>.0</b>	<b>1,442</b>	<b>15.1</b>	<b>0</b>	<b>.0</b>	<b>9,573</b>	<b>100.0</b>
Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cassava	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Sweet Potato	346	66.7	0	.0	0	.0	0	.0	0	.0	58	11.1	115	22.2	0	.0	519	100.0
Yams	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Coco Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>ROOTS &amp; TUBERS</b>	<b>346</b>	<b>66.7</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>58</b>	<b>11.1</b>	<b>115</b>	<b>22.2</b>	<b>0</b>	<b>.0</b>	<b>519</b>	<b>100.0</b>
Mung Bean	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Beans	115	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	115	100.0
Cowpeas	2,422	79.2	58	1.9	0	.0	288	9.4	0	.0	0	.0	288	9.4	0	.0	3,056	100.0
Green gram	58	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	58	100.0
Field Peas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>PULSES</b>	<b>2,595</b>	<b>80.4</b>	<b>58</b>	<b>1.8</b>	<b>0</b>	<b>.0</b>	<b>288</b>	<b>8.9</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>288</b>	<b>8.9</b>	<b>0</b>	<b>.0</b>	<b>3,229</b>	<b>100.0</b>
Sunflower	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Simsim	288	33.3	115	13.3	0	.0	231	26.7	0	.0	231	26.7	0	.0	0	.0	865	100.0
Groundnut	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>288</b>	<b>33.3</b>	<b>115</b>	<b>13.3</b>	<b>0</b>	<b>.0</b>	<b>231</b>	<b>26.7</b>	<b>0</b>	<b>.0</b>	<b>231</b>	<b>26.7</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>865</b>	<b>100.0</b>



**Cont..5.30 Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season - Kisarawe District**  
**Kisarawe LONG RAINY SEASON**

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	58	16.7	0	.0	0	.0	0	.0	0	.0	58	16.7	231	66.7	0	.0	346	100.0
Turmeric	58	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	58	100.0
Bitteer	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Aubergine																		
Onion	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	58	100.0	0	.0	58	100.0
Cabbage	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	58	100.0	0	.0	58	100.0
Tomatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	58	100.0	0	.0	58	100.0
Spinach	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	58	100.0	0	.0	58	100.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	58	100.0	0	.0	58	100.0
Amaranths	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	173	100.0	0	.0	173	100.0
Pumpkins	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	58	100.0	0	.0	58	100.0
Cucumber	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Egg Plant	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>FRUITS &amp; VEGETABLES</b>	<b>115</b>	<b>12.5</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>58</b>	<b>6.3</b>	<b>750</b>	<b>81.3</b>	<b>0</b>	<b>.0</b>	<b>923</b>	<b>100.0</b>
Cotton	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Jute	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>CASH CROPS</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>
<b>Total</b>	<b>9,688</b>	<b>64.1</b>	<b>404</b>	<b>2.7</b>	<b>231</b>	<b>1.5</b>	<b>1,788</b>	<b>11.8</b>	<b>58</b>	<b>.4</b>	<b>346</b>	<b>2.3</b>	<b>2,595</b>	<b>17.2</b>	<b>0</b>	<b>.0</b>	<b>15,109</b>	<b>100.0</b>

**5.31 Number of households storing Crops by Method of Storage and Crop Type Short & Long Rainy Season - Kisarawe District**  
**Kisarawe SHORT & LONG SEASON**

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	12,514	65.6	346	1.8	173	.9	3,979	20.8	58	.3	115	.6	1,903	10.0	0	.0	19,089	100.0
Paddy	3,633	73.3	0	.0	0	.0	692	14.0	58	1.2	58	1.2	519	10.5	0	.0	4,960	100.0
Sorghum	865	41.7	115	5.6	115	5.6	288	13.9	0	.0	115	5.6	577	27.8	0	.0	2,076	100.0
Bulrush	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Millet	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Wheat	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>CEREALS</b>	<b>17,012</b>	<b>65.1</b>	<b>461</b>	<b>1.8</b>	<b>288</b>	<b>1.1</b>	<b>4,960</b>	<b>19.0</b>	<b>115</b>	<b>.4</b>	<b>288</b>	<b>1.1</b>	<b>2,999</b>	<b>11.5</b>	<b>0</b>	<b>.0</b>	<b>26,124</b>	<b>100.0</b>
Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cassava	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Sweet Potato	404	53.8	0	.0	0	.0	0	.0	0	.0	58	7.7	288	38.5	0	.0	750	100.0
Yams	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Coco Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>ROOTS &amp; TUBERS</b>	<b>404</b>	<b>53.8</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>58</b>	<b>7.7</b>	<b>288</b>	<b>38.5</b>	<b>0</b>	<b>.0</b>	<b>750</b>	<b>100.0</b>
Mung Bean	58	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	58	100.0
Beans	807	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	807	100.0
Cowpeas	8,939	79.9	115	1.0	58	.5	980	8.8	0	.0	58	.5	1,038	9.3	0	.0	11,188	100.0
Green gram	346	85.7	0	.0	0	.0	58	14.3	0	.0	0	.0	0	.0	0	.0	404	100.0
Field Peas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>PULSES</b>	<b>10,150</b>	<b>81.5</b>	<b>115</b>	<b>.9</b>	<b>58</b>	<b>.5</b>	<b>1,038</b>	<b>8.3</b>	<b>0</b>	<b>.0</b>	<b>58</b>	<b>.5</b>	<b>1,038</b>	<b>8.3</b>	<b>0</b>	<b>.0</b>	<b>12,457</b>	<b>100.0</b>
Sunflower	0	.0	0	.0	58	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	58	100.0
Simsim	404	35.0	115	10.0	0	.0	231	20.0	0	.0	231	20.0	173	15.0	0	.0	1,153	100.0
Groundnut	58	33.3	0	.0	0	.0	58	33.3	0	.0	0	.0	58	33.3	0	.0	173	100.0
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>461</b>	<b>33.3</b>	<b>115</b>	<b>8.3</b>	<b>58</b>	<b>4.2</b>	<b>288</b>	<b>20.8</b>	<b>0</b>	<b>.0</b>	<b>231</b>	<b>16.7</b>	<b>231</b>	<b>16.7</b>	<b>0</b>	<b>.0</b>	<b>1,384</b>	<b>100.0</b>

**Cont..5.31 Number of households storing Crops by Method of Storage and Crop Type Short & Long Rainy Season - Kisarawe District**  
**Kisarawe SHORT & LONG SEASON**

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	231	26.7	58	6.7	0	.0	58	6.7	0	.0	58	6.7	461	53.3	0	.0	865	100.0
Turmeric	58	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	58	100.0
Bitteer	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Aubergine	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	58	100.0	0	.0	58	100.0
Onion	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	58	100.0	0	.0	58	100.0
Cabbage	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	58	100.0	0	.0	58	100.0
Tomatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	115	66.7	58	33.3	173	100.0
Spinach	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	58	100.0	0	.0	58	100.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Chillies	58	50.0	0	.0	0	.0	0	.0	0	.0	0	.0	58	50.0	0	.0	115	100.0
Amaranths	58	25.0	0	.0	0	.0	0	.0	0	.0	0	.0	173	75.0	0	.0	231	100.0
Pumpkins	58	33.3	0	.0	58	33.3	0	.0	0	.0	0	.0	58	33.3	0	.0	173	100.0
Cucumber	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Egg Plant	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	115	100.0	0	.0	115	100.0
<b>FRUITS &amp; VEGETABLES</b>	<b>461</b>	<b>24.2</b>	<b>58</b>	<b>3.0</b>	<b>58</b>	<b>3.0</b>	<b>58</b>	<b>3.0</b>	<b>0</b>	<b>.0</b>	<b>58</b>	<b>3.0</b>	<b>1,153</b>	<b>60.6</b>	<b>58</b>	<b>3.0</b>	<b>1,903</b>	<b>100.0</b>
Cotton	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Jute	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>CASH CROPS</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>
<b>Total</b>	<b>28,489</b>	<b>66.8</b>	<b>750</b>	<b>1.8</b>	<b>461</b>	<b>1.1</b>	<b>6,344</b>	<b>14.9</b>	<b>115</b>	<b>.3</b>	<b>692</b>	<b>1.6</b>	<b>5,709</b>	<b>13.4</b>	<b>58</b>	<b>.1</b>	<b>42,618</b>	<b>100.0</b>

## 5.32 Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season - Mkuranga District

## Mkuranga SHORT RAINY SEASON

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	6,726	41.1	976	6.0	108	.7	6,400	39.1	217	1.3	542	3.3	1,410	8.6	0	.0	16,380	100.0
Paddy	976	47.4	0	.0	0	.0	976	47.4	0	.0	0	.0	108	5.3	0	.0	2,061	100.0
Sorghum	434	57.1	0	.0	0	.0	108	14.3	108	14.3	0	.0	108	14.3	0	.0	759	100.0
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	0	.0	0	.0	0	.0	108	100.0	0	.0	108	100.0
<b>CEREALS</b>	<b>8,136</b>	<b>42.1</b>	<b>976</b>	<b>5.1</b>	<b>108</b>	<b>.6</b>	<b>7,485</b>	<b>38.8</b>	<b>325</b>	<b>1.7</b>	<b>542</b>	<b>2.8</b>	<b>1,736</b>	<b>9.0</b>	<b>0</b>	<b>.0</b>	<b>19,309</b>	<b>100.0</b>
Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cassava	0	.0	0	.0	0	.0	108	33.3	0	.0	0	.0	217	66.7	0	.0	325	100.0
Sweet Potato	217	28.6	0	.0	0	.0	0	.0	0	.0	108	14.3	434	57.1	0	.0	759	100.0
Yams	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Coco Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>ROOTS &amp; TUBERS</b>	<b>217</b>	<b>20.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>108</b>	<b>10.0</b>	<b>0</b>	<b>.0</b>	<b>108</b>	<b>10.0</b>	<b>651</b>	<b>60.0</b>	<b>0</b>	<b>.0</b>	<b>1,085</b>	<b>100.0</b>
Mung Bean	217	66.7	0	.0	0	.0	0	.0	0	.0	0	.0	108	33.3	0	.0	325	100.0
Beans	325	60.0	0	.0	0	.0	108	20.0	0	.0	0	.0	0	.0	108	20.0	542	100.0
Cowpeas	4,881	44.1	1,085	9.8	217	2.0	3,363	30.4	217	2.0	108	1.0	1,193	10.8	0	.0	11,065	100.0
Green gram	868	80.0	0	.0	0	.0	108	10.0	0	.0	0	.0	108	10.0	0	.0	1,085	100.0
Field Peas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>PULSES</b>	<b>6,292</b>	<b>48.3</b>	<b>1,085</b>	<b>8.3</b>	<b>217</b>	<b>1.7</b>	<b>3,580</b>	<b>27.5</b>	<b>217</b>	<b>1.7</b>	<b>108</b>	<b>.8</b>	<b>1,410</b>	<b>10.8</b>	<b>108</b>	<b>.8</b>	<b>13,017</b>	<b>100.0</b>
Sunflower	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Simsim	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	108	100.0	0	.0	108	100.0
Groundnut	0	.0	108	50.0	0	.0	0	.0	0	.0	0	.0	108	50.0	0	.0	217	100.0
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>0</b>	<b>.0</b>	<b>108</b>	<b>33.3</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>217</b>	<b>66.7</b>	<b>0</b>	<b>.0</b>	<b>325</b>	<b>100.0</b>

**Cont..5.32 Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season - Mkuranga District**  
**Mkuranga SHORT RAINY SEASON**

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	651	85.7	108	14.3	759	100.0
Turmeric	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bitteer Aubergine	217	66.7	0	.0	0	.0	0	.0	0	.0	0	.0	108	33.3	0	.0	325	100.0
Onion	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cabbage	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Tomatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	434	100.0	0	.0	434	100.0
Spinach	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	325	100.0	0	.0	325	100.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Chillies	0	.0	0	.0	0	.0	108	25.0	0	.0	0	.0	325	75.0	0	.0	434	100.0
Amaranths	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	434	100.0	0	.0	434	100.0
Pumpkins	108	20.0	0	.0	0	.0	0	.0	0	.0	0	.0	434	80.0	0	.0	542	100.0
Cucumber	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	976	100.0	0	.0	976	100.0
Egg Plant	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	759	100.0	0	.0	759	100.0
<b>FRUITS &amp; VEGETABLES</b>	<b>325</b>	<b>6.5</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>108</b>	<b>2.2</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>4,448</b>	<b>89.1</b>	<b>108</b>	<b>2.2</b>	<b>4,990</b>	<b>100.0</b>
Cotton	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Jute	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>CASH CROPS</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>
<b>Total</b>	<b>14,970</b>	<b>38.7</b>	<b>2,170</b>	<b>5.6</b>	<b>325</b>	<b>.8</b>	<b>11,282</b>	<b>29.1</b>	<b>542</b>	<b>1.4</b>	<b>759</b>	<b>2.0</b>	<b>8,461</b>	<b>21.8</b>	<b>217</b>	<b>.6</b>	<b>38,726</b>	<b>100.0</b>

**5.33 Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season - Mkuranga District**  
**Mkuranga LONG RAINY SEASON**

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Maize	1,844	34.0	542	10.0	0	.0	2,170	40.0	0	.0	108	2.0	759	14.0	0	.0	5,424	100.0
Paddy	4,665	39.4	542	4.6	0	.0	5,641	47.7	217	1.8	0	.0	434	3.7	325	2.8	11,824	100.0
Sorghum	217	40.0	0	.0	0	.0	217	40.0	0	.0	0	.0	108	20.0	0	.0	542	100.0
Bulrush Millet	0	.0	0	.0	0	.0	108	100.0	0	.0	0	.0	0	.0	0	.0	108	100.0
Wheat	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>CEREALS</b>	<b>6,726</b>	<b>37.6</b>	<b>1,085</b>	<b>6.1</b>	<b>0</b>	<b>.0</b>	<b>8,136</b>	<b>45.5</b>	<b>217</b>	<b>1.2</b>	<b>108</b>	<b>.6</b>	<b>1,302</b>	<b>7.3</b>	<b>325</b>	<b>1.8</b>	<b>17,899</b>	<b>100.0</b>
Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cassava	108	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	108	100.0
Sweet Potato	1,302	48.0	0	.0	217	8.0	0	.0	0	.0	108	4.0	868	32.0	217	8.0	2,712	100.0
Yams	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Coco Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>ROOTS &amp; TUBERS</b>	<b>1,410</b>	<b>50.0</b>	<b>0</b>	<b>.0</b>	<b>217</b>	<b>7.7</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>108</b>	<b>3.8</b>	<b>868</b>	<b>30.8</b>	<b>217</b>	<b>7.7</b>	<b>2,820</b>	<b>100.0</b>
Mung Bean	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Beans	108	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	108	100.0
Cowpeas	759	31.8	217	9.1	0	.0	976	40.9	0	.0	0	.0	434	18.2	0	.0	2,387	100.0
Green gram	108	50.0	0	.0	0	.0	0	.0	0	.0	0	.0	108	50.0	0	.0	217	100.0
Field Peas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>PULSES</b>	<b>976</b>	<b>36.0</b>	<b>217</b>	<b>8.0</b>	<b>0</b>	<b>.0</b>	<b>976</b>	<b>36.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>542</b>	<b>20.0</b>	<b>0</b>	<b>.0</b>	<b>2,712</b>	<b>100.0</b>
Sunflower	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Simsim	0	.0	0	.0	0	.0	217	20.0	0	.0	0	.0	868	80.0	0	.0	1,085	100.0
Groundnut	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>217</b>	<b>20.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>868</b>	<b>80.0</b>	<b>0</b>	<b>.0</b>	<b>1,085</b>	<b>100.0</b>

**Cont. 5.33 Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season - Mkuranga District**  
**Mkuranga LONG RAINY SEASON**

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	0	0	0	0	0	0	0	0	0	0	0	0	108	100	0	0	108	100
Turmeric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	0	0	0	0	0	0	0	0	0	108	100	0	0	108	100
Onion	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spinach	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Carrot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chillies	0	0	0	0	0	0	0	0	0	0	0	0	108	100	0	0	108	100
Amaranth	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	108	50	0	0	0	0	108	50	0	0	217	100
Egg Plant	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0	0	0	0	0	217	100	0	0	217	100
<b>FRUITS &amp; VEGETABLES</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>108</b>	<b>14.3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>651</b>	<b>85.7</b>	<b>0</b>	<b>0</b>	<b>759</b>	<b>100</b>
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jute	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>CASH CROPS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total</b>	<b>9,112</b>	<b>36.1</b>	<b>1,302</b>	<b>5.2</b>	<b>217</b>	<b>0.9</b>	<b>9,438</b>	<b>37.3</b>	<b>217</b>	<b>0.9</b>	<b>217</b>	<b>0.9</b>	<b>4,231</b>	<b>16.7</b>	<b>542</b>	<b>2.1</b>	<b>25,275</b>	<b>100</b>

**5.34 Number of households storing Crops by Method of Storage and Crop Type Short & Long Rainy Season - Mkuranga District**  
**Mkuranga SHORT & LONG SEASON**

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	8,570	39.3	1,519	7.0	108	.5	8,570	39.3	217	1.0	651	3.0	2,170	10.0	0	.0	21,804	100.0
Paddy	5,641	40.6	542	3.9	0	.0	6,617	47.7	217	1.6	0	.0	542	3.9	325	2.3	13,885	100.0
Sorghum	651	50.0	0	.0	0	.0	325	25.0	108	8.3	0	.0	217	16.7	0	.0	1,302	100.0
Bulrush Millet	0	.0	0	.0	0	.0	108	100.0	0	.0	0	.0	0	.0	0	.0	108	100.0
Wheat	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	108	100.0	0	.0	108	100.0
<b>CEREALS</b>	<b>14,861</b>	<b>39.9</b>	<b>2,061</b>	<b>5.5</b>	<b>108</b>	<b>.3</b>	<b>15,621</b>	<b>42.0</b>	<b>542</b>	<b>1.5</b>	<b>651</b>	<b>1.7</b>	<b>3,037</b>	<b>8.2</b>	<b>325</b>	<b>.9</b>	<b>37,208</b>	<b>100.0</b>
Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cassava	108	25.0	0	.0	0	.0	108	25.0	0	.0	0	.0	217	50.0	0	.0	434	100.0
Sweet Potato	1,519	43.8	0	.0	217	6.3	0	.0	0	.0	217	6.3	1,302	37.5	217	6.3	3,471	100.0
Yams	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Coco Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>ROOTS &amp; TUBERS</b>	<b>1,627</b>	<b>41.7</b>	<b>0</b>	<b>.0</b>	<b>217</b>	<b>5.6</b>	<b>108</b>	<b>2.8</b>	<b>0</b>	<b>.0</b>	<b>217</b>	<b>5.6</b>	<b>1,519</b>	<b>38.9</b>	<b>217</b>	<b>5.6</b>	<b>3,905</b>	<b>100.0</b>
Mung Bean	217	66.7	0	.0	0	.0	0	.0	0	.0	0	.0	108	33.3	0	.0	325	100.0
Beans	434	66.7	0	.0	0	.0	108	16.7	0	.0	0	.0	0	.0	108	16.7	651	100.0
Cowpeas	5,641	41.9	1,302	9.7	217	1.6	4,339	32.3	217	1.6	108	.8	1,627	12.1	0	.0	13,451	100.0
Green gram	976	75.0	0	.0	0	.0	108	8.3	0	.0	0	.0	217	16.7	0	.0	1,302	100.0
Field Peas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>PULSES</b>	<b>7,268</b>	<b>46.2</b>	<b>1,302</b>	<b>8.3</b>	<b>217</b>	<b>1.4</b>	<b>4,556</b>	<b>29.0</b>	<b>217</b>	<b>1.4</b>	<b>108</b>	<b>.7</b>	<b>1,953</b>	<b>12.4</b>	<b>108</b>	<b>.7</b>	<b>15,729</b>	<b>100.0</b>
Sunflower	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Simsim	0	.0	0	.0	0	.0	217	18.2	0	.0	0	.0	976	81.8	0	.0	1,193	100.0
Groundnut	0	.0	108	50.0	0	.0	0	.0	0	.0	0	.0	108	50.0	0	.0	217	100.0
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>0</b>	<b>.0</b>	<b>108</b>	<b>7.7</b>	<b>0</b>	<b>.0</b>	<b>217</b>	<b>15.4</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>1,085</b>	<b>76.9</b>	<b>0</b>	<b>.0</b>	<b>1,410</b>	<b>100.0</b>



**Cont..5.34 Number of households storing Crops by Method of Storage and Crop Type Short & Long Rainy Season - Mkuranga District**  
**Mkuranga SHORT & LONG SEASON**

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	759	87.5	108	12.5	868	100.0
Turmeric	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bitteer Aubergine	217	50.0	0	.0	0	.0	0	.0	0	.0	0	.0	217	50.0	0	.0	434	100.0
Onion	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cabbage	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Tomatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	434	100.0	0	.0	434	100.0
Spinach	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	325	100.0	0	.0	325	100.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Chillies	0	.0	0	.0	0	.0	108	20.0	0	.0	0	.0	434	80.0	0	.0	542	100.0
Amaranth	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	434	100.0	0	.0	434	100.0
Pumpkins	108	20.0	0	.0	0	.0	0	.0	0	.0	0	.0	434	80.0	0	.0	542	100.0
Cucumber	0	.0	0	.0	0	.0	108	9.1	0	.0	0	.0	1,085	90.9	0	.0	1,193	100.0
Egg Plant	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	976	100.0	0	.0	976	100.0
<b>FRUITS &amp; VEGETABLES</b>	<b>325</b>	<b>5.7</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>217</b>	<b>3.8</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>5,098</b>	<b>88.7</b>	<b>108</b>	<b>1.9</b>	<b>5,749</b>	<b>100.0</b>
Cotton	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Jute	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>CASH CROPS</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>
<b>Total</b>	<b>24,082</b>	<b>37.6</b>	<b>3,471</b>	<b>5.4</b>	<b>542</b>	<b>.8</b>	<b>20,719</b>	<b>32.4</b>	<b>759</b>	<b>1.2</b>	<b>976</b>	<b>1.5</b>	<b>12,692</b>	<b>19.8</b>	<b>759</b>	<b>1.2</b>	<b>64,002</b>	<b>100.0</b>

**5.35 Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season - Rufiji District**

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Maize	10,743	61.5	175	1.0	0	.0	3,668	21.0	87	.5	0	.0	2,707	15.5	87	.5	17,467	100.0
Paddy	5,502	54.8	175	1.7	0	.0	3,406	33.9	87	.9	262	2.6	611	6.1	0	.0	10,044	100.0
Sorghum	87	33.3	0	.0	0	.0	175	66.7	0	.0	0	.0	0	.0	0	.0	262	100.0
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	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>CEREALS</b>	<b>16,332</b>	<b>58.8</b>	<b>349</b>	<b>1.3</b>	<b>0</b>	<b>.0</b>	<b>7,249</b>	<b>26.1</b>	<b>175</b>	<b>.6</b>	<b>262</b>	<b>.9</b>	<b>3,319</b>	<b>11.9</b>	<b>87</b>	<b>.3</b>	<b>27,773</b>	<b>100.0</b>
Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cassava	349	66.7	0	.0	0	.0	175	33.3	0	.0	0	.0	0	.0	0	.0	524	100.0
Sweet Potato	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Yams	87	50.0	0	.0	0	.0	0	.0	0	.0	0	.0	87	50.0	0	.0	175	100.0
Coco Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>ROOTS &amp; TUBERS</b>	<b>437</b>	<b>62.5</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>175</b>	<b>25.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>87</b>	<b>12.5</b>	<b>0</b>	<b>.0</b>	<b>699</b>	<b>100.0</b>
Mung Bean	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Beans	524	85.7	0	.0	0	.0	0	.0	0	.0	0	.0	87	14.3	0	.0	611	100.0
Cowpeas	2,009	45.1	87	2.0	0	.0	873	19.6	0	.0	0	.0	1,397	31.4	87	2.0	4,454	100.0
Green gram	87	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	87	100.0
Field Peas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>PULSES</b>	<b>2,620</b>	<b>50.8</b>	<b>87</b>	<b>1.7</b>	<b>0</b>	<b>.0</b>	<b>873</b>	<b>16.9</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>1,485</b>	<b>28.8</b>	<b>87</b>	<b>1.7</b>	<b>5,153</b>	<b>100.0</b>
Sunflower	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Simsim	87	5.9	87	5.9	0	.0	262	17.6	0	.0	0	.0	1,048	70.6	0	.0	1,485	100.0
Groundnut	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>87</b>	<b>5.9</b>	<b>87</b>	<b>5.9</b>	<b>0</b>	<b>.0</b>	<b>262</b>	<b>17.6</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>1,048</b>	<b>70.6</b>	<b>0</b>	<b>.0</b>	<b>1,485</b>	<b>100.0</b>

**Cont. 5.35 Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season - Rufiji District**

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Turmeric	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bitteer Aubergine	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Onion	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	87	100.0	0	.0	87	100.0
Cabbage	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Tomatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	349	100.0	0	.0	349	100.0
Spinach	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Amaranths	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	87	100.0	0	.0	87	100.0
Pumpkins	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	87	100.0	0	.0	87	100.0
Cucumber	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Egg Plant	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>FRUITS &amp; VEGETABLES</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>611</b>	<b>100.0</b>	<b>0</b>	<b>.0</b>	<b>611</b>	<b>100.0</b>
Cotton	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Jute	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>CASH CROPS</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>
<b>Total</b>	<b>19,476</b>	<b>54.5</b>	<b>524</b>	<b>1.5</b>	<b>0</b>	<b>.0</b>	<b>8,559</b>	<b>24.0</b>	<b>175</b>	<b>.5</b>	<b>262</b>	<b>.7</b>	<b>6,550</b>	<b>18.3</b>	<b>175</b>	<b>.5</b>	<b>35,721</b>	<b>100.0</b>

**5.36 Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season - Rufiji District**  
**Rufiji LONG RAINY SEASON**

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Maize	2,969	56.7	0	.0	0	.0	1,659	31.7	0	.0	0	.0	611	11.7	0	.0	5,240	100.0
Paddy	3,930	48.4	87	1.1	0	.0	3,756	46.2	0	.0	87	1.1	262	3.2	0	.0	8,122	100.0
Sorghum	611	46.7	0	.0	0	.0	87	6.7	0	.0	0	.0	611	46.7	0	.0	1,310	100.0
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	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>CEREALS</b>	<b>7,511</b>	<b>51.2</b>	<b>87</b>	<b>.6</b>	<b>0</b>	<b>.0</b>	<b>5,502</b>	<b>37.5</b>	<b>0</b>	<b>.0</b>	<b>87</b>	<b>.6</b>	<b>1,485</b>	<b>10.1</b>	<b>0</b>	<b>.0</b>	<b>14,673</b>	<b>100.0</b>
Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cassava	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Sweet Potato	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	262	100.0	0	.0	262	100.0
Yams	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Coco Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>ROOTS &amp; TUBERS</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>262</b>	<b>100.0</b>	<b>0</b>	<b>.0</b>	<b>262</b>	<b>100.0</b>
Mung Bean	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Beans	262	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	262	100.0
Cowpeas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	175	100.0	0	.0	175	100.0
Green gram	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Field Peas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>PULSES</b>	<b>262</b>	<b>60.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>175</b>	<b>40.0</b>	<b>0</b>	<b>.0</b>	<b>437</b>	<b>100.0</b>
Sunflower	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Simsim	349	12.1	0	.0	0	.0	87	3.0	0	.0	0	.0	2,445	84.8	0	.0	2,882	100.0
Groundnut	87	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	87	100.0
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>437</b>	<b>14.7</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>87</b>	<b>2.9</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>2,445</b>	<b>82.4</b>	<b>0</b>	<b>.0</b>	<b>2,969</b>	<b>100.0</b>

**Cont. 5.36 Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season - Rufiji District**  
**Rufiji LONG RAINY SEASON**

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	%
Turmeric	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bitteer Aubergine	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Onion	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cabbage	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Tomatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	175	100.0	0	.0	175	100.0
Spinach	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Amaranths	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	87	100.0	0	.0	87	100.0
Pumpkins	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cucumber	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Egg Plant	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>FRUITS &amp; VEGETABLES</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>262</b>	<b>100.0</b>	<b>0</b>	<b>.0</b>	<b>262</b>	<b>100.0</b>
Cotton	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Jute	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>CASH CROPS</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>
<b>Total</b>	<b>8,210</b>	<b>44.1</b>	<b>87</b>	<b>.5</b>	<b>0</b>	<b>.0</b>	<b>5,590</b>	<b>30.0</b>	<b>0</b>	<b>.0</b>	<b>87</b>	<b>.5</b>	<b>4,629</b>	<b>24.9</b>	<b>0</b>	<b>.0</b>	<b>18,603</b>	<b>100.0</b>

**5.37 Number of households storing Crops by Method of Storage and Crop Type Short & Long Rainy Season - Rufiji District**  
**Rufiji SHORT & LONG SEASON**

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	13,712	60.4	175	.8	0	.0	5,328	23.5	87	.4	0	.0	3,319	14.6	87	.4	22,708	100.0
Paddy	9,432	51.9	262	1.4	0	.0	7,162	39.4	87	.5	349	1.9	873	4.8	0	.0	18,166	100.0
Sorghum	699	44.4	0	.0	0	.0	262	16.7	0	.0	0	.0	611	38.9	0	.0	1,572	100.0
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	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>CEREALS</b>	<b>23,843</b>	<b>56.2</b>	<b>437</b>	<b>1.0</b>	<b>0</b>	<b>.0</b>	<b>12,751</b>	<b>30.0</b>	<b>175</b>	<b>.4</b>	<b>349</b>	<b>.8</b>	<b>4,804</b>	<b>11.3</b>	<b>87</b>	<b>.2</b>	<b>42,446</b>	<b>100.0</b>
Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cassava	349	66.7	0	.0	0	.0	175	33.3	0	.0	0	.0	0	.0	0	.0	524	100.0
Sweet Potato	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	262	100.0	0	.0	262	100.0
Yams	87	50.0	0	.0	0	.0	0	.0	0	.0	0	.0	87	50.0	0	.0	175	100.0
Coco Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>ROOTS &amp; TUBERS</b>	<b>437</b>	<b>45.5</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>175</b>	<b>18.2</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>349</b>	<b>36.4</b>	<b>0</b>	<b>.0</b>	<b>961</b>	<b>100.0</b>
Mung Bean	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Beans	786	90.0	0	.0	0	.0	0	.0	0	.0	0	.0	87	10.0	0	.0	873	100.0
Cowpeas	2,009	43.4	87	1.9	0	.0	873	18.9	0	.0	0	.0	1,572	34.0	87	1.9	4,629	100.0
Green gram	87	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	87	100.0
Field Peas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>PULSES</b>	<b>2,882</b>	<b>51.6</b>	<b>87</b>	<b>1.6</b>	<b>0</b>	<b>.0</b>	<b>873</b>	<b>15.6</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>1,659</b>	<b>29.7</b>	<b>87</b>	<b>1.6</b>	<b>5,590</b>	<b>100.0</b>
Sunflower	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Simsim	437	10.0	87	2.0	0	.0	349	8.0	0	.0	0	.0	3,493	80.0	0	.0	4,367	100.0
Groundnut	87	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	87	100.0
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>524</b>	<b>11.8</b>	<b>87</b>	<b>2.0</b>	<b>0</b>	<b>.0</b>	<b>349</b>	<b>7.8</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>3,493</b>	<b>78.4</b>	<b>0</b>	<b>.0</b>	<b>4,454</b>	<b>100.0</b>

**Cont. 5.37 Number of households storing Crops by Method of Storage and Crop Type Short & Long Rainy Season - Rufiji District**  
**Rufiji SHORT & LONG SEASON**

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Turmeric	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bitteer Aubergine	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Onion	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	87	100.0	0	.0	87	100.0
Cabbage	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Tomatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	524	100.0	0	.0	524	100.0
Spinach	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Amaranths	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	175	100.0	0	.0	175	100.0
Pumpkins	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	87	100.0	0	.0	87	100.0
Cucumber	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Egg Plant	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>FRUITS &amp; VEGETABLES</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>873</b>	<b>100.0</b>	<b>0</b>	<b>.0</b>	<b>873</b>	<b>100.0</b>
Cotton	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Jute	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>CASH CROPS</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>
<b>Total</b>	<b>27,686</b>	<b>51.0</b>	<b>611</b>	<b>1.1</b>	<b>0</b>	<b>.0</b>	<b>14,149</b>	<b>26.0</b>	<b>175</b>	<b>.3</b>	<b>349</b>	<b>.6</b>	<b>11,179</b>	<b>20.6</b>	<b>175</b>	<b>.3</b>	<b>54,324</b>	<b>100.0</b>

**5.38 Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season, Mafia**

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	29	12.5	0	.0	0	.0	87	37.5	0	.0	0	.0	116	50.0	0	.0	232	100.0
Paddy	291	25.6	0	.0	0	.0	726	64.1	29	2.6	0	.0	87	7.7	0	.0	1,133	100.0
Sorghum	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bulrush Millet	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Wheat	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>CEREALS</b>	<b>320</b>	<b>23.4</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>814</b>	<b>59.6</b>	<b>29</b>	<b>2.1</b>	<b>0</b>	<b>.0</b>	<b>203</b>	<b>14.9</b>	<b>0</b>	<b>.0</b>	<b>1,366</b>	<b>100.0</b>
Yam	407	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	407	100.0
Cassava	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Sweet Potato	29	5.0	0	.0	29	5.0	0	.0	58	10.0	145	25.0	320	55.0	0	.0	581	100.0
Yams	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Coco Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	29	100.0	0	.0	29	100.0
<b>ROOTS &amp; TUBERS</b>	<b>436</b>	<b>42.9</b>	<b>0</b>	<b>.0</b>	<b>29</b>	<b>2.9</b>	<b>0</b>	<b>.0</b>	<b>58</b>	<b>5.7</b>	<b>145</b>	<b>14.3</b>	<b>349</b>	<b>34.3</b>	<b>0</b>	<b>.0</b>	<b>1,017</b>	<b>100.0</b>
Mung Bean	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Beans	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cowpeas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	58	100.0	0	.0	58	100.0
Green gram	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Field Peas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>PULSES</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>58</b>	<b>100.0</b>	<b>0</b>	<b>.0</b>	<b>58</b>	<b>100.0</b>
Sunflower	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Simsim	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Groundnut	0	.0	0	.0	0	.0	29	100.0	0	.0	0	.0	0	.0	0	.0	29	100.0
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>29</b>	<b>100.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>29</b>	<b>100.0</b>



## Cont..5.38 Number of households storing Crops by Method of Storage and Crop Type Short Rainy Season, Mafia

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	29	100.0	0	.0	29	100.0
Turmeric	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bitteer Aubergine	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Onion	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cabbage	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Tomatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	87	100.0	0	.0	87	100.0
Spinach	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	58	100.0	0	.0	58	100.0
Amaranths	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	87	100.0	0	.0	87	100.0
Pumpkins	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	29	100.0	0	.0	29	100.0
Cucumber	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Egg Plant	29	50.0	0	.0	0	.0	0	.0	0	.0	0	.0	29	50.0	0	.0	58	100.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>FRUITS &amp; VEGETABLES</b>	<b>29</b>	<b>8.3</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>320</b>	<b>91.7</b>	<b>0</b>	<b>.0</b>	<b>349</b>	<b>100.0</b>
Cotton	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Jute	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>CASH CROPS</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>
<b>Total</b>	<b>785</b>	<b>27.8</b>	<b>0</b>	<b>.0</b>	<b>29</b>	<b>1.0</b>	<b>843</b>	<b>29.9</b>	<b>87</b>	<b>3.1</b>	<b>145</b>	<b>5.2</b>	<b>930</b>	<b>33.0</b>	<b>0</b>	<b>.0</b>	<b>2,819</b>	<b>100.0</b>

**5.39 Number of households storing Crops by Method of Storage and Crop Type Longt Rainy Season, Mafia**  
**Mafia LONG RAINY SEASON**

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	320	55.0	0	.0	0	.0	116	20.0	0	.0	0	.0	145	25.0	0	.0	581	100.0
Paddy	1,685	44.3	58	1.5	87	2.3	1,366	35.9	29	.8	58	1.5	523	13.7	0	.0	3,806	100.0
Sorghum	58	28.6	0	.0	0	.0	116	57.1	0	.0	0	.0	29	14.3	0	.0	203	100.0
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	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>CEREALS</b>	<b>2,063</b>	<b>44.9</b>	<b>58</b>	<b>1.3</b>	<b>87</b>	<b>1.9</b>	<b>1,598</b>	<b>34.8</b>	<b>29</b>	<b>.6</b>	<b>58</b>	<b>1.3</b>	<b>697</b>	<b>15.2</b>	<b>0</b>	<b>.0</b>	<b>4,591</b>	<b>100.0</b>
Yam	291	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	291	100.0
Cassava	58	50.0	0	.0	0	.0	0	.0	0	.0	0	.0	58	50.0	0	.0	116	100.0
Sweet Potato	58	18.2	29	9.1	0	.0	29	9.1	0	.0	29	9.1	174	54.5	0	.0	320	100.0
Yams	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	29	100.0	0	.0	29	100.0
Coco Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>ROOTS &amp; TUBERS</b>	<b>407</b>	<b>53.8</b>	<b>29</b>	<b>3.8</b>	<b>0</b>	<b>.0</b>	<b>29</b>	<b>3.8</b>	<b>0</b>	<b>.0</b>	<b>29</b>	<b>3.8</b>	<b>262</b>	<b>34.6</b>	<b>0</b>	<b>.0</b>	<b>755</b>	<b>100.0</b>
Mung Bean	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Beans	116	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	116	100.0
Cowpeas	0	.0	0	.0	29	25.0	87	75.0	0	.0	0	.0	0	.0	0	.0	116	100.0
Green gram	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Field Peas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>PULSES</b>	<b>116</b>	<b>50.0</b>	<b>0</b>	<b>.0</b>	<b>29</b>	<b>12.5</b>	<b>87</b>	<b>37.5</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>232</b>	<b>100.0</b>
Sunflower	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Simsim	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Groundnut	58	50.0	0	.0	0	.0	0	.0	0	.0	0	.0	58	50.0	0	.0	116	100.0
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>58</b>	<b>50.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>58</b>	<b>50.0</b>	<b>0</b>	<b>.0</b>	<b>116</b>	<b>100.0</b>

**Cont..5.39 Number of households storing Crops by Method of Storage and Crop Type Longt Rainy Season, Mafia****Mafia LONG RAINY SEASON**

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Turmeric	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bitteer Aubergine	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Onion	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cabbage	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Tomatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	58	100.0	0	.0	58	100.0
Spinach	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Amaranths	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Pumpkins	145	83.3	0	.0	0	.0	0	.0	0	.0	0	.0	29	16.7	0	.0	174	100.0
Cucumber	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Egg Plant	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>FRUITS &amp; VEGETABLES</b>	<b>145</b>	<b>62.5</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>87</b>	<b>37.5</b>	<b>0</b>	<b>.0</b>	<b>232</b>	<b>100.0</b>
Cotton	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Jute	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>CASH CROPS</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>
<b>Total</b>	<b>2,789</b>	<b>47.1</b>	<b>87</b>	<b>1.5</b>	<b>116</b>	<b>2.0</b>	<b>1,714</b>	<b>28.9</b>	<b>29</b>	<b>.5</b>	<b>87</b>	<b>1.5</b>	<b>1,104</b>	<b>18.6</b>	<b>0</b>	<b>.0</b>	<b>5,928</b>	<b>100.0</b>

**5.40 Number of households storing Crops by Method of Storage and Crop Type Short & Longt Rainy Season, Mafia**  
**Mafia SHORT & LONG SEASON**

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	349	42.9	0	.0	0	.0	203	25.0	0	.0	0	.0	262	32.1	0	.0	814	100.0
Paddy	1,976	40.0	58	1.2	87	1.8	2,092	42.4	58	1.2	58	1.2	610	12.4	0	.0	4,940	100.0
Sorghum	58	28.6	0	.0	0	.0	116	57.1	0	.0	0	.0	29	14.3	0	.0	203	100.0
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	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>CEREALS</b>	<b>2,383</b>	<b>40.0</b>	<b>58</b>	<b>1.0</b>	<b>87</b>	<b>1.5</b>	<b>2,412</b>	<b>40.5</b>	<b>58</b>	<b>1.0</b>	<b>58</b>	<b>1.0</b>	<b>901</b>	<b>15.1</b>	<b>0</b>	<b>.0</b>	<b>5,957</b>	<b>100.0</b>
Yam	697	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	697	100.0
Cassava	58	50.0	0	.0	0	.0	0	.0	0	.0	0	.0	58	50.0	0	.0	116	100.0
Sweet Potato	87	9.7	29	3.2	29	3.2	29	3.2	58	6.5	174	19.4	494	54.8	0	.0	901	100.0
Yams	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	29	100.0	0	.0	29	100.0
Coco Yam	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	29	100.0	0	.0	29	100.0
<b>ROOTS &amp; TUBERS</b>	<b>843</b>	<b>47.5</b>	<b>29</b>	<b>1.6</b>	<b>29</b>	<b>1.6</b>	<b>29</b>	<b>1.6</b>	<b>58</b>	<b>3.3</b>	<b>174</b>	<b>9.8</b>	<b>610</b>	<b>34.4</b>	<b>0</b>	<b>.0</b>	<b>1,772</b>	<b>100.0</b>
Mung Bean	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Beans	116	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	116	100.0
Cowpeas	0	.0	0	.0	29	16.7	87	50.0	0	.0	0	.0	58	33.3	0	.0	174	100.0
Green gram	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Field Peas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>PULSES</b>	<b>116</b>	<b>40.0</b>	<b>0</b>	<b>.0</b>	<b>29</b>	<b>10.0</b>	<b>87</b>	<b>30.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>58</b>	<b>20.0</b>	<b>0</b>	<b>.0</b>	<b>291</b>	<b>100.0</b>
Sunflower	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Simsim	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Groundnut	58	40.0	0	.0	0	.0	29	20.0	0	.0	0	.0	58	40.0	0	.0	145	100.0
<b>OIL SEEDS &amp; OIL NUTS</b>	<b>58</b>	<b>40.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>29</b>	<b>20.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>58</b>	<b>40.0</b>	<b>0</b>	<b>.0</b>	<b>145</b>	<b>100.0</b>

**Cont. 5.40 Number of households storing Crops by Method of Storage and Crop Type Short & Longt Rainy Season, Mafia**  
**Mafia SHORT & LONG SEASON**

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	29	100.0	0	.0	29	100.0
Turmeric	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Bitteer Aubergine	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Onion	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cabbage	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Tomatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	145	100.0	0	.0	145	100.0
Spinach	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Carrot	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	58	100.0	0	.0	58	100.0
Amaranths	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	87	100.0	0	.0	87	100.0
Pumpkins	145	71.4	0	.0	0	.0	0	.0	0	.0	0	.0	58	28.6	0	.0	203	100.0
Cucumber	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Egg Plant	29	50.0	0	.0	0	.0	0	.0	0	.0	0	.0	29	50.0	0	.0	58	100.0
Water Mellon	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>FRUITS &amp; VEGETABLES</b>	<b>174</b>	<b>30.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>407</b>	<b>70.0</b>	<b>0</b>	<b>.0</b>	<b>581</b>	<b>100.0</b>
Cotton	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Jute	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
<b>CASH CROPS</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>	<b>0</b>	<b>.0</b>
<b>Total</b>	<b>3,574</b>	<b>40.9</b>	<b>87</b>	<b>1.0</b>	<b>145</b>	<b>1.7</b>	<b>2,557</b>	<b>29.2</b>	<b>116</b>	<b>1.3</b>	<b>232</b>	<b>2.7</b>	<b>2,034</b>	<b>23.3</b>	<b>0</b>	<b>.0</b>	<b>8,746</b>	<b>100.0</b>

**INPUT USE**

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

Districts	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	
Bagamoyo	332	179	13,627	13,325	13,959	13,504	-
Kibaha	677	270	8,258	4,099	8,935	4,370	6.2
Kisarawe	231	198	15,744	10,196	15,974	10,395	1.9
Mkuranga	1,410	507	20,177	13,567	21,587	14,074	3.6
Rufiji	349	209	21,485	16,323	21,834	16,531	1.3
Mafia	58	12	2,179	781	2,237	792	1.5
<b>Total</b>	<b>3,058</b>	<b>1,375</b>	<b>81,470</b>	<b>58,291</b>	<b>84,527</b>	<b>59,666</b>	<b>2.3</b>

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

Districts	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	
Bagamoyo	665	348	32,681	45,811	33,346	46,159	0.8
Kibaha	1,038	358	9,522	6,717	10,560	7,075	5.1
Kisarawe	173	105	9,112	6,547	9,285	6,652	1.6
Mkuranga	325	110	18,116	12,154	18,441	12,264	0.9
Rufiji	175	124	13,450	8,798	13,625	8,922	1.4
Mafia	494	210	4,155	1,795	4,649	2,004	10.5
<b>Total</b>	<b>2,870</b>	<b>1,253</b>	<b>87,036</b>	<b>81,822</b>	<b>89,906</b>	<b>83,076</b>	<b>1.5</b>

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

Districts	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	
Bagamoyo	13,959	135	0	13,370	13,959	13,504	1.0
Kibaha	8,935	64	0	4,306	8,935	4,370	1.5
Kisarawe	15,974	12	0	10,383	15,974	10,395	0.1
Mkuranga	21,587	220	0	13,854	21,587	14,074	1.6
Rufiji	21,834	358	0	16,173	21,834	16,531	2.2
Mafia	2,237	12	0	781	2,237	792	1.5
<b>Total</b>	<b>84,527</b>	<b>800</b>	<b>0</b>	<b>58,866</b>	<b>84,527</b>	<b>59,666</b>	<b>1.3</b>

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

Districts	Inorganic Fertilizer Fertilizer Use						% of Planted area using Inorganic Fertilizer
	Number of Households using Inorganic Fertilizer	Planted Area Applied with Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area NOT Applied with Inorganic Fertilizer	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Bagamoyo	33,346	45	0	46,114	33,346	46,159	0.1
Kibaha	10,560	68	0	7,007	10,560	7,075	1.0
Kisarawe	9,285	0	0	6,652	9,285	6,652	0.0
Mkuranga	18,441	165	0	12,099	18,441	12,264	1.3
Rufiji	13,625	71	0	8,851	13,625	8,922	0.8
Mafia	4,649	9	0	1,995	4,649	2,004	0.4
<b>Total</b>	<b>89,906</b>	<b>357</b>	<b>0</b>	<b>82,719</b>	<b>89,906</b>	<b>83,076</b>	<b>0.4</b>

#### 5.45 Number of Households and Planted Area by Fungicide Use and District - Short Rainy Season

Districts	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	
Bagamoyo	111	135	13,848	13,370	13,959	13,504	1.0
Kibaha	271	86	8,664	4,283	8,935	4,370	2.0
Kisarawe	115	58	15,859	10,336	15,974	10,395	0.6
Mkuranga	542	270	21,045	13,804	21,587	14,074	1.9
Rufiji	1,135	506	20,699	16,025	21,834	16,531	3.1
Mafia	0	0	2,237	792	2,237	792	-
<b>Total</b>	<b>2,175</b>	<b>1,055</b>	<b>82,353</b>	<b>58,611</b>	<b>84,527</b>	<b>59,666</b>	<b>1.8</b>

#### 5.46 Number of Households and Planted Area by Fungicide Use and District - Long Rainy Season

Districts	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	
Bagamoyo	111	67	33,235	46,092	33,346	46,159	0.1
Kibaha	226	89	10,334	6,986	10,560	7,075	1.3
Kisarawe	58	12	9,227	6,641	9,285	6,652	0.2
Mkuranga	325	58	18,116	12,206	18,441	12,264	0.5
Rufiji	175	71	13,450	8,851	13,625	8,922	0.8
Mafia	0	0	4,649	2,004	4,649	2,004	0.0
<b>Total</b>	<b>894</b>	<b>296</b>	<b>89,012</b>	<b>82,780</b>	<b>89,906</b>	<b>83,076</b>	<b>0.4</b>



**5.47 Number of Households and Planted Area by Herbicide Use and District - Short Rainy Season**

Districts	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	
Bagamoyo	0	0	13,959	13,504	13,959	13,504	0.0
Kibaha	90	59	8,845	4,311	8,935	4,370	1.3
Kisarawe	0	0	15,974	10,395	15,974	10,395	0.0
Mkuranga	108	99	21,479	13,975	21,587	14,074	0.7
Rufiji	349	177	21,485	16,354	21,834	16,531	1.1
Mafia	0	0	2,237	792	2,237	792	0.0
<b>Total</b>	<b>548</b>	<b>335</b>	<b>83,979</b>	<b>59,331</b>	<b>84,527</b>	<b>59,666</b>	<b>0.6</b>

**5.48 Number of Households and Planted Area by Herbicide Use and District - Long Rainy Season**

Districts	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	
Bagamoyo	0	0	33,346	46,159	33,346	46,159	0.0
Kibaha	45	9	10,515	7,065	10,560	7,075	0.1
Kisarawe	58	12	9,227	6,641	9,285	6,652	0.2
Mkuranga	108	99	18,333	12,165	18,441	12,264	0.8
Rufiji	175	212	13,450	8,710	13,625	8,922	2.4
Mafia	0	0	4,649	2,004	4,649	2,004	0.0
<b>Total</b>	<b>386</b>	<b>332</b>	<b>89,520</b>	<b>82,744</b>	<b>89,906</b>	<b>83,076</b>	<b>0.4</b>

**5.49 Number of Households and Planted Area by Improved Seed Use and District - Short Rainy Season**

Districts	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	
Bagamoyo	1,440	1,660	12,519	11,845	13,959	13,504	12.3
Kibaha	3,520	1,839	5,415	2,531	8,935	4,370	42.1
Kisarawe	2,422	2,064	13,552	8,331	15,974	10,395	19.9
Mkuranga	6,834	3,421	14,753	10,653	21,587	14,074	24.3
Rufiji	1,747	882	20,088	15,649	21,834	16,531	5.3
Mafia	116	21	2,121	772	2,237	792	2.6
<b>Total</b>	<b>16,079</b>	<b>9,887</b>	<b>68,448</b>	<b>49,779</b>	<b>84,527</b>	<b>59,666</b>	<b>16.6</b>

**5.50 Number of Households and Planted Area by Improved Seed Use and District - Long Rainy Season**

Districts	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	
Bagamoyo	4,431	3,738	28,915	42,421	33,346	46,159	8.1
Kibaha	3,249	1,759	7,311	5,315	10,560	7,075	24.9
Kisarawe	865	852	8,420	5,800	9,285	6,652	12.8
Mkuranga	3,580	1,873	14,861	10,391	18,441	12,264	15.3
Rufiji	437	177	13,188	8,745	13,625	8,922	2.0
Mafia	145	64	4,504	1,941	4,649	2,004	3.2
<b>Total</b>	<b>12,707</b>	<b>8,463</b>	<b>77,198</b>	<b>74,613</b>	<b>89,906</b>	<b>83,076</b>	<b>10.2</b>

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

Districts	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)	
Bagamoyo	12,740	11,738	1,219	1,766	13,959	13,504	86.9
Kibaha	7,356	2,489	1,579	1,881	8,935	4,370	57.0
Kisarawe	14,994	7,585	980	2,810	15,974	10,395	73.0
Mkuranga	18,333	9,686	3,254	4,388	21,587	14,074	68.8
Rufiji	21,223	15,198	611	1,333	21,834	16,531	91.9
Mafia	2,179	694	58	99	2,237	792	87.6
<b>Total</b>	<b>76,825</b>	<b>47,390</b>	<b>7,702</b>	<b>12,276</b>	<b>84,527</b>	<b>59,666</b>	<b>79.4</b>

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

Districts	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)	
Bagamoyo	30,577	42,079	2,770	4,080	33,346	46,159	91
Kibaha	8,619	5,272	1,940	1,803	10,560	7,075	75
Kisarawe	8,881	5,335	404	1,318	9,285	6,652	80
Mkuranga	16,597	10,109	1,844	2,155	18,441	12,264	82
Rufiji	13,363	8,736	262	186	13,625	8,922	98
Mafia	4,591	1,860	58	145	4,649	2,004	93
<b>Total</b>	<b>82,628</b>	<b>73,390</b>	<b>7,278</b>	<b>9,686</b>	<b>89,906</b>	<b>83,076</b>	<b>88</b>

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

Districts	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	
Bagamoyo	0	0	13,959	13,504	13,959	13,504	0.0
Kibaha	903	421	8,033	3,949	8,935	4,370	9.6
Kisarawe	173	175	15,801	10,220	15,974	10,395	1.7
Mkuranga	1,410	799	20,177	13,275	21,587	14,074	5.7
Rufiji	786	278	21,048	16,254	21,834	16,531	1.7
Mafia	0	0	2,237	792	2,237	792	0.0
<b>Total</b>	<b>3,272</b>	<b>1,673</b>	<b>81,256</b>	<b>57,993</b>	<b>84,527</b>	<b>59,666</b>	<b>2.8</b>

**5.54 Number of Households and Planted Area by Fungicide Use and District - Long Rainy Season**

Districts	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	
Bagamoyo	1,551	1,974	31,795	44,185	33,346	46,159	4.3
Kibaha	948	573	9,612	6,502	10,560	7,075	8.1
Kisarawe	58	47	9,227	6,606	9,285	6,652	0.7
Mkuranga	434	156	18,007	12,107	18,441	12,264	1.3
Rufiji	175	71	13,450	8,851	13,625	8,922	0.8
Mafia	0	0	4,649	2,004	4,649	2,004	0.0
<b>Total</b>	<b>3,165</b>	<b>2,820</b>	<b>86,741</b>	<b>80,255</b>	<b>89,906</b>	<b>83,076</b>	<b>3.4</b>

**5.55 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	
Bagamoyo	222	78	13,737	13,426	13,959	13,504	0.6
Kibaha	406	178	8,529	4,192	8,935	4,370	4.1
Kisarawe	404	251	15,571	10,144	15,974	10,395	2.4
Mkuranga	1,519	594	20,068	13,480	21,587	14,074	4.2
Rufiji	611	341	21,223	16,190	21,834	16,531	2.1
Mafia	87	12	2,150	781	2,237	792	1.5
<b>Total</b>	<b>3,249</b>	<b>1,455</b>	<b>81,279</b>	<b>58,211</b>	<b>84,527</b>	<b>59,666</b>	<b>2.4</b>

**5.56 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	
Bagamoyo	222	275	33,125	45,884	33,346	46,159	0.6
Kibaha	361	115	10,199	6,959	10,560	7,075	1.6
Kisarawe	288	86	8,996	6,566	9,285	6,652	1.3
Mkuranga	868	378	17,573	11,886	18,441	12,264	3.1
Rufiji	1,572	796	12,053	8,126	13,625	8,922	8.9
Mafia	58	9	4,591	1,995	4,649	2,004	0.4
<b>Total</b>	<b>3,369</b>	<b>1,658</b>	<b>86,537</b>	<b>81,418</b>	<b>89,906</b>	<b>83,076</b>	<b>2.0</b>

**INPUT USE SHORT RAINY SEASON**

**5.57 Planted Area & Number of Households by Insecticide Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON – Bagamoyo**

Crop	Insecticide							
	Number of Households using Insecticide	Planted Area Applied with Insecticide	Cost of Insecticide	Number of Households NOT using Insecticide	Planted Area Without Insecticide	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Insecticide
Maize	0	.	.	12,408	10,592	12,408	.	.
Paddy	0	.	.	554	314	554	.	.
Sorghum	0	.	.	111	22	111	.	.
Bulrush Millet	0	.	.	0	.	0	.	.
Wheat	0	.	.	0	.	0	.	.
<b>CEREALS</b>		.	.		<b>10,929</b>		.	.
Yam	0	.	.	0	.	0	.	.
Cassava	0	.	.	111	45	111	.	.
Sweet Potato	0	.	.	0	.	0	.	.
Yams	0	.	.	0	.	0	.	.
Coco Yam	0	.	.	0	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		.	.		<b>45</b>		.	.
Mung Bean	0	.	.	0	.	0	.	.
Beans	0	.	.	0	.	0	.	.
Cowpeas	0	.	.	4,099	2,074	4,099	.	.
Green gram	0	.	.	775	366	775	.	.
Field Peas	0	.	.	0	.	0	.	.
<b>PULSES</b>		.	.		<b>2,441</b>		.	.
Sunflower	0	.	.	0	.	0	.	.
Simsim	0	.	.	111	45	111	.	.
Groundnut	0	.	.	0	.	0	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		.	.		<b>45</b>		.	.
Okra	0	.	.	0	.	0	.	.
Turmeric	0	.	.	0	.	0	.	.
Bitteer Aubergine	0	.	.	0	.	0	.	.
Onion	0	.	.	0	.	0	.	.
Cabbage	0	.	.	0	.	0	.	.
Tomatoes	0	.	.	111	45	111	.	.
Spinach	0	.	.	0	.	0	.	.
Carrot	0	.	.	0	.	0	.	.
Chillies	0	.	.	0	.	0	.	.
Amaranths	0	.	.	0	.	0	.	.
Pumpkins	0	.	.	0	.	0	.	.
Cucumber	0	.	.	0	.	0	.	.
Egg Plant	0	.	.	0	.	0	.	.
Water Mellon	0	.	.	0	.	0	.	.
<b>FRUITS &amp; VEGETABLES</b>		.	.		<b>45</b>		.	.
Cotton	0	.	.	0	.	0	.	.
Jute	0	.	.	0	.	0	.	.
<b>CASH CROPS</b>		.	.				.	.
<b>Total</b>		.	.		<b>13,504</b>		.	.

**5.58 Planted Area & Number of Households by Insecticide Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON – Kibaha**

Crop	Insecticide							
	Number of Households using Insecticide	Planted Area Applied with Insecticide	Cost of Insecticide	Number of Households NOT using Insecticide	Planted Area Without Insecticide	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Insecticide
Maize	226	143	2,892,673	5,596	2,371	5,821	2,514	6
Paddy	0	.	.	812	420	812	.	.
Sorghum	0	.	.	45	18	45	.	.
Bulrush Millet	0	.	.	0	.	0	.	.
Wheat	0	.	.	0	.	0	.	.
<b>CEREALS</b>		<b>143</b>	<b>2,892,673</b>		<b>2,810</b>		<b>2,952</b>	<b>5</b>
Yam	0	.	.	0	.	0	.	.
Cassava	0	.	.	0	.	0	.	.
Sweet Potato	0	.	.	0	.	0	.	.
Yams	0	.	.	0	.	0	.	.
Coco Yam	0	.	.	0	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		.	.		.		.	.
Mung Bean	0	.	.	45	9	45	.	.
Beans	0	.	.	90	8	90	.	.
Cowpeas	90	55	315,893	5,325	990	5,415	1,044	5
Green gram	45	18	22,564	135	26	181	44	42
Field Peas	0	.	.	0	.	0	.	.
<b>PULSES</b>		<b>73</b>	<b>338,456</b>		<b>1,033</b>		<b>1,106</b>	<b>7</b>
Sunflower	0	.	.	0	.	0	.	.
Simsim	0	.	.	45	9	45	.	.
Groundnut	0	.	.	0	.	0	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		.	.		<b>9</b>		.	.
Okra	406	123	4,264,549	226	40	587	163	75
Turmeric	0	.	.	0	.	0	.	.
Bitteer	0	.	.	0	.	0	.	.
Aubergine								
Onion	0	.	.	0	.	0	.	.
Cabbage	0	.	.	0	.	0	.	.
Tomatoes	181	64	1,974,328	135	39	271	103	62
Spinach	90	18	755,886	0	.	90	.	.
Carrot	0	.	.	0	.	0	.	.
Chillies	0	.	.	0	.	0	.	.
Amaranth	0	.	.	90	14	90	.	.
Pumpkins	0	.	.	45	5	45	.	.
Cucumber	0	.	.	0	.	0	.	.
Egg Plant	0	.	.	0	.	0	.	.
Water Mellon	0	.	.	0	.	0	.	.
<b>FRUITS &amp; VEGETABLES</b>		<b>205</b>	<b>6,994,763</b>		<b>97</b>		<b>302</b>	<b>68</b>
Cotton	0	.	.	0	.	0	.	.
Jute	0	.	.	0	.	0	.	.
<b>CASH CROPS</b>		.	.		.		.	.
<b>Total</b>		<b>421</b>	<b>10,225,892</b>		<b>3,949</b>		<b>4,370</b>	<b>10</b>

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

Crop	Insecticide							
	Number of Households using Insecticide	Planted Area Applied with Insecticide	Cost of Insecticide	Number of Households NOT using Insecticide	Planted Area Without Insecticide	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Insecticide
Maize	115	140	5,882,285	13,206	6,189	13,322	6,329	2.2
Paddy	0	.	.	2,018	1,185	2,018	.	.
Sorghum	0	.	.	1,211	363	1,211	.	.
Bulrush Millet	0	.	.	0	.	0	.	.
Wheat	0	.	.	0	.	0	.	.
<b>CEREALS</b>		<b>140</b>	<b>5,882,285</b>		<b>7,737</b>		<b>7,877</b>	<b>1.8</b>
Yam	0	.	.	0	.	0	.	.
Cassava	0	.	.	0	.	0	.	.
Sweet Potato	0	.	.	231	37	231	.	.
Yams	0	.	.	0	.	0	.	.
Coco Yam	0	.	.	0	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		.	.		<b>37</b>		.	.
Mung Bean	0	.	.	58	23	58	.	.
Beans	0	.	.	692	131	692	.	.
Cowpeas	58	23	3,460,168	8,074	1,881	8,131	1,904	1.2
Green gram	0	.	.	346	72	346	.	.
Field Peas	0	.	.	0	.	0	.	.
<b>PULSES</b>		<b>23</b>	<b>3,460,168</b>		<b>2,108</b>		<b>2,131</b>	<b>1.1</b>
Sunflower	0	.	.	58	12	58	.	.
Simsim	0	.	.	288	117	288	.	.
Groundnut	0	.	.	173	35	173	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		.	.		<b>163</b>		.	.
Okra	0	.	.	519	96	519	.	.
Turmeric	0	.	.	0	.	0	.	.
Bitteer Aubergine	0	.	.	0	.	0	.	.
Onion	0	.	.	0	.	0	.	.
Cabbage	0	.	.	0	.	0	.	.
Tomatoes	58	12	346,017	58	23	115	35	33.3
Spinach	0	.	.	0	.	0	.	.
Carrot	0	.	.	0	.	0	.	.
Chillies	0	.	.	58	35	58	.	.
Amaranths	0	.	.	58	6	58	.	.
Pumpkins	0	.	.	115	9	115	.	.
Cucumber	0	.	.	0	.	0	.	.
Egg Plant	0	.	.	0	.	0	.	.
Water Mellon	0	.	.	115	6	115	.	.
<b>FRUITS &amp; VEGETABLES</b>		<b>12</b>	<b>346,017</b>		<b>175</b>		<b>187</b>	<b>6.3</b>
Cotton	0	.	.	0	.	0	.	.
Jute	0	.	.	0	.	0	.	.
<b>CASH CROPS</b>		.	.		.		.	.
<b>Total</b>		<b>175</b>	<b>9,688,470</b>		<b>10,220</b>		<b>10,395</b>	<b>1.7</b>



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

Crop	Insecticide							
	Number of Households using Insecticide	Planted Area Applied with Insecticide	Cost of Insecticide	Number of Households NOT using Insecticide	Planted Area Without Insecticide	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Insecticide
Maize	542	167	3,633,995	15,946	7,408	16,380	7,575	2.2
Paddy	0	.	.	2,061	727	2,061	.	.
Sorghum	0	.	.	759	300	759	.	.
Bulrush Millet	0	.	.	0	.	0	.	.
Wheat	0	.	.	108	66	108	.	.
<b>CEREALS</b>		<b>167</b>	<b>3,633,995</b>		<b>8,500</b>		<b>8,667</b>	<b>1.9</b>
Yam	0	.	.	0	.	0	.	.
Cassava	0	.	.	325	198	325	.	.
Sweet Potato	0	.	.	759	232	759	.	.
Yams	0	.	.	0	.	0	.	.
Coco Yam	0	.	.	0	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		.	.		<b>430</b>		.	.
Mung Bean	0	.	.	325	121	325	.	.
Beans	0	.	.	542	152	542	.	.
Cowpeas	325	151	1,681,401	10,739	3,042	11,065	3,193	5
Green gram	108	18	379,671	976	206	1,085	224	8
Field Peas	0	.	.	0	.	0	.	.
<b>PULSES</b>		<b>169</b>	<b>2,061,072</b>		<b>3,520</b>		<b>3,689</b>	<b>5</b>
Sunflower	0	.	.	0	.	0	.	.
Simsim	108	44	3,254,324	0	.	108	.	.
Groundnut	108	88	1,627,162	108	9	217	97	91
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>132</b>	<b>4,881,486</b>		<b>9</b>		<b>141</b>	<b>94</b>
Okra	325	35	1,681,401	434	132	759	167	21
Turmeric	0	.	.	0	.	0	.	.
Bitteer Aubergine	108	4	216,955	217	13	325	18	25
Onion	0	.	.	0	.	0	.	.
Cabbage	0	.	.	0	.	0	.	.
Tomatoes	217	33	4,284,860	217	31	434	64	52
Spinach	0	.	.	325	31	325	.	.
Carrot	0	.	.	0	.	0	.	.
Chillies	217	40	3,091,608	217	92	434	132	30
Amaranths	0	.	.	434	35	434	.	.
Pumpkins	0	.	.	542	74	542	.	.
Cucumber	217	44	9,220,585	759	101	976	145	30
Egg Plant	0	.	.	0	.	0	.	.
Water Mellon	217	176	8,732,436	542	307	759	483	36
<b>FRUITS &amp; VEGETABLES</b>		<b>332</b>	<b>27,227,845</b>		<b>816</b>		<b>1,148</b>	<b>29</b>
Cotton	0	.	.	0	.	0	.	.
Jute	0	.	.	0	.	0	.	.
<b>CASH CROPS</b>		.	.		.		.	.
<b>Total</b>		<b>799</b>	<b>37,804,399</b>		<b>13,275</b>		<b>14,074</b>	<b>6</b>

**5.61 Planted Area & Number of Households by Insecticide Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON – Rufiji**

Crop	Insecticide							
	Number of Households using Insecticide	Planted Area Applied with Insecticide	Cost of Insecticide	Number of Households NOT using Insecticide	Planted Area Without Insecticide	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Insecticide
Maize	0	.	.	17,467	8,483	17,467	.	.
Paddy	262	141	742,368	9,782	5,816	10,044	5,957	2.4
Sorghum	0	.	.	262	71	262	.	.
Bulrush Millet	0	.	.	0	.	0	.	.
Wheat	0	.	.	0	.	0	.	.
<b>CEREALS</b>		<b>141</b>	<b>742,368</b>		<b>14,369</b>		<b>14,511</b>	<b>1.0</b>
Yam	0	.	.	0	.	0	.	.
Cassava	0	.	.	524	186	524	.	.
Sweet Potato	0	.	.	0	.	0	.	.
Yams	0	.	.	175	140	175	.	.
Coco Yam	0	.	.	0	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		.	.		<b>326</b>		.	.
Mung Bean	0	.	.	0	.	0	.	.
Beans	0	.	.	611	212	611	.	.
Cowpeas	87	18	436,687	4,367	798	4,454	816	2
Green gram	0	.	.	87	9	87	.	.
Field Peas	0	.	.	0	.	0	.	.
<b>PULSES</b>		<b>18</b>	<b>436,687</b>		<b>1,019</b>		<b>1,037</b>	<b>2</b>
Sunflower	0	.	.	0	.	0	.	.
Simsim	175	57	655,031	1,310	477	1,485	534	11
Groundnut	0	.	.	0	.	0	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>57</b>	<b>655,031</b>		<b>477</b>		<b>534</b>	<b>11</b>
Okra	0	.	.	0	.	0	.	.
Turmeric	0	.	.	0	.	0	.	.
Bitteer Aubergine	0	.	.	0	.	0	.	.
Onion	0	.	.	87	9	87	.	.
Cabbage	0	.	.	0	.	0	.	.
Tomatoes	262	62	1,013,114	87	18	349	80	78
Spinach	0	.	.	0	.	0	.	.
Carrot	0	.	.	0	.	0	.	.
Chillies	0	.	.	0	.	0	.	.
Amaranths	0	.	.	87	18	87	.	.
Pumpkins	0	.	.	87	18	87	.	.
Cucumber	0	.	.	0	.	0	.	.
Egg Plant	0	.	.	0	.	0	.	.
Water Mellon	0	.	.	0	.	0	.	.
<b>FRUITS &amp; VEGETABLES</b>		<b>62</b>	<b>1,013,114</b>		<b>62</b>		<b>124</b>	<b>50</b>
Cotton	0	.	.	0	.	0	.	.
Jute	0	.	.	0	.	0	.	.
<b>CASH CROPS</b>		.	.		.		.	.
<b>Total</b>		<b>278</b>	<b>2,847,200</b>		<b>16,254</b>		<b>16,531</b>	<b>2</b>

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

Crop	Insecticide							
	Number of Households using Insecticide	Planted Area Applied with Insecticide	Cost of Insecticide	Number of Households NOT using Insecticide	Planted Area Without Insecticide	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Insecticide
Maize	0	.	.	232	79	232	.	.
Paddy	0	.	.	1,133	365	1,133	.	.
Sorghum	0	.	.	0	.	0	.	.
Bulrush Millet	0	.	.	0	.	0	.	.
Wheat	0	.	.	0	.	0	.	.
<b>CEREALS</b>		.	.		<b>444</b>		.	.
Yam	0	.	.	407	124	407	.	.
Cassava	0	.	.	0	.	0	.	.
Sweet Potato	0	.	.	581	172	581	.	.
Yams	0	.	.	0	.	0	.	.
Coco Yam	0	.	.	29	1	29	.	.
<b>ROOTS &amp; TUBERS</b>		.	.		<b>296</b>		.	.
Mung Bean	0	.	.	0	.	0	.	.
Beans	0	.	.	0	.	0	.	.
Cowpeas	0	.	.	58	12	58	.	.
Green gram	0	.	.	0	.	0	.	.
Field Peas	0	.	.	0	.	0	.	.
<b>PULSES</b>		.	.		<b>12</b>		.	.
Sunflower	0	.	.	0	.	0	.	.
Simsim	0	.	.	0	.	0	.	.
Groundnut	0	.	.	29	3	29	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		.	.		<b>3</b>		.	.
Okra	0	.	.	29	9	29	.	.
Turmeric	0	.	.	0	.	0	.	.
Bitteer Aubergine	0	.	.	0	.	0	.	.
Onion	0	.	.	0	.	0	.	.
Cabbage	0	.	.	0	.	0	.	.
Tomatoes	0	.	.	87	12	87	.	.
Spinach	0	.	.	0	.	0	.	.
Carrot	0	.	.	0	.	0	.	.
Chillies	0	.	.	58	2	58	.	.
Amaranths	0	.	.	87	5	87	.	.
Pumpkins	0	.	.	29	6	29	.	.
Cucumber	0	.	.	0	.	0	.	.
Egg Plant	0	.	.	58	4	58	.	.
Water Mellon	0	.	.	0	.	0	.	.
<b>FRUITS &amp; VEGETABLES</b>		.	.		<b>37</b>		.	.
Cotton	0	.	.	0	.	0	.	.
Jute	0	.	.	0	.	0	.	.
<b>CASH CROPS</b>		.	.		.		.	.
<b>Total</b>		.	.		<b>792</b>		.	.

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

Crop	Fungicide							
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Cost of Fungicide	Number of Households NOT using Fungicide	Planted Area Without Fungicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Fungicide
Maize	111	45	4,985,311	12,297	10,547	12,408	10,592	0
Paddy	111	90	1,107,847	443	224	554	314	29
Sorghum	0	.	.	111	22	111	.	.
Bulrush Millet	0	.	.	0	.	0	.	.
Wheat	0	.	.	0	.	0	.	.
<b>CEREALS</b>		<b>135</b>	<b>6,093,158</b>		<b>10,794</b>		<b>10,929</b>	<b>1</b>
Yam	0	.	.	0	.	0	.	.
Cassava	0	.	.	111	45	111	.	.
Sweet Potato	0	.	.	0	.	0	.	.
Yams	0	.	.	0	.	0	.	.
Coco Yam	0	.	.	0	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		.	.		<b>45</b>		.	.
Mung Bean	0	.	.	0	.	0	.	.
Beans	0	.	.	0	.	0	.	.
Cowpeas	0	.	.	4,099	2,074	4,099	.	.
Green gram	0	.	.	775	366	775	.	.
Field Peas	0	.	.	0	.	0	.	.
<b>PULSES</b>		.	.		<b>2,441</b>		.	.
Sunflower	0	.	.	0	.	0	.	.
Simsim	0	.	.	111	45	111	.	.
Groundnut	0	.	.	0	.	0	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		.	.		<b>45</b>		.	.
Okra	0	.	.	0	.	0	.	.
Turmeric	0	.	.	0	.	0	.	.
Bitteer Aubergine	0	.	.	0	.	0	.	.
Onion	0	.	.	0	.	0	.	.
Cabbage	0	.	.	0	.	0	.	.
Tomatoes	0	.	.	111	45	111	.	.
Spinach	0	.	.	0	.	0	.	.
Carrot	0	.	.	0	.	0	.	.
Chillies	0	.	.	0	.	0	.	.
Amaranths	0	.	.	0	.	0	.	.
Pumpkins	0	.	.	0	.	0	.	.
Cucumber	0	.	.	0	.	0	.	.
Egg Plant	0	.	.	0	.	0	.	.
Water Mellon	0	.	.	0	.	0	.	.
<b>FRUITS &amp; VEGETABLES</b>		.	.		<b>45</b>		.	.
Cotton	0	.	.	0	.	0	.	.
Jute	0	.	.	0	.	0	.	.
<b>CASH CROPS</b>		.	.		.		.	.
<b>Total</b>		<b>135</b>	<b>6,093,158</b>		<b>13,370</b>		<b>13,504</b>	<b>1</b>

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

Crop	Fungicide							
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Cost of Fungicide	Number of Households NOT using Fungicide	Planted Area Without Fungicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Fungicide
Maize	0	.	.	5,821	2,514	5,821	.	.
Paddy	0	.	.	812	420	812	.	.
Sorghum	0	.	.	45	18	45	.	.
Bulrush Millet	0	.	.	0	.	0	.	.
Wheat	0	.	.	0	.	0	.	.
<b>CEREALS</b>		.	.		<b>2,952</b>		.	.
Yam	0	.	.	0	.	0	.	.
Cassava	0	.	.	0	.	0	.	.
Sweet Potato	0	.	.	0	.	0	.	.
Yams	0	.	.	0	.	0	.	.
Coco Yam	0	.	.	0	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		.	.		.		.	.
Mung Bean	0	.	.	45	9	45	.	.
Beans	0	.	.	90	8	90	.	.
Cowpeas	0	.	.	5,415	1,044	5,415	.	.
Green gram	0	.	.	181	44	181	.	.
Field Peas	0	.	.	0	.	0	.	.
<b>PULSES</b>		.	.		<b>1,106</b>		.	.
Sunflower	0	.	.	0	.	0	.	.
Simsim	0	.	.	45	9	45	.	.
Groundnut	0	.	.	0	.	0	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		.	.		<b>9</b>		.	.
Okra	226	68	1,173,315	406	95	587	163	42
Turmeric	0	.	.	0	.	0	.	.
Bitteer Aubergine	0	.	.	0	.	0	.	.
Onion	0	.	.	0	.	0	.	.
Cabbage	0	.	.	0	.	0	.	.
Tomatoes	90	18	338,456	181	84	271	103	18
Spinach	0	.	.	90	18	90	.	.
Carrot	0	.	.	0	.	0	.	.
Chillies	0	.	.	0	.	0	.	.
Amaranths	0	.	.	90	14	90	.	.
Pumpkins	0	.	.	45	5	45	.	.
Cucumber	0	.	.	0	.	0	.	.
Egg Plant	0	.	.	0	.	0	.	.
Water Mellon	0	.	.	0	.	0	.	.
<b>FRUITS &amp; VEGETABLES</b>		<b>86</b>	<b>1,511,771</b>		<b>216</b>		<b>302</b>	<b>29</b>
Cotton	0	.	.	0	.	0	.	.
Jute	0	.	.	0	.	0	.	.
<b>CASH CROPS</b>		.	.		.		.	.
<b>Total</b>		<b>86</b>	<b>1,511,771</b>		<b>4,283</b>		<b>4,370</b>	<b>2</b>

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

Crop	Fungicide							
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Cost of Fungicide	Number of Households NOT using Fungicide	Planted Area Without Fungicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Fungicide
Maize	58	23	865,042	13,264	6,306	13,322	6,329	0
Paddy	0	.	.	2,018	1,185	2,018	.	.
Sorghum	0	.	.	1,211	363	1,211	.	.
Bulrush Millet	0	.	.	0	.	0	.	.
Wheat	0	.	.	0	.	0	.	.
<b>CEREALS</b>		<b>23</b>	<b>865,042</b>		<b>7,854</b>		<b>7,877</b>	<b>0</b>
Yam	0	.	.	0	.	0	.	.
Cassava	0	.	.	0	.	0	.	.
Sweet Potato	0	.	.	231	37	231	.	.
Yams	0	.	.	0	.	0	.	.
Coco Yam	0	.	.	0	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		.	.		<b>37</b>		.	.
Mung Bean	0	.	.	58	23	58	.	.
Beans	0	.	.	692	131	692	.	.
Cowpeas	58	23	461,356	8,074	1,881	8,131	1,904	1
Green gram	0	.	.	346	72	346	.	.
Field Peas	0	.	.	0	.	0	.	.
<b>PULSES</b>		<b>23</b>	<b>461,356</b>		<b>2,108</b>		<b>2,131</b>	<b>1</b>
Sunflower	0	.	.	58	12	58	.	.
Simsim	0	.	.	288	117	288	.	.
Groundnut	0	.	.	173	35	173	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		.	.		<b>163</b>		.	.
Okra	0	.	.	519	96	519	.	.
Turmeric	0	.	.	0	.	0	.	.
Bitter Aubergine	0	.	.	0	.	0	.	.
Onion	0	.	.	0	.	0	.	.
Cabbage	0	.	.	0	.	0	.	.
Tomatoes	58	12	346,017	58	23	115	35	33
Spinach	0	.	.	0	.	0	.	.
Carrot	0	.	.	0	.	0	.	.
Chillies	0	.	.	58	35	58	.	.
Amaranth	0	.	.	58	6	58	.	.
Pumpkins	0	.	.	115	9	115	.	.
Cucumber	0	.	.	0	.	0	.	.
Egg Plant	0	.	.	0	.	0	.	.
Water Mellon	0	.	.	115	6	115	.	.
<b>FRUITS &amp; VEGETABLES</b>		<b>12</b>	<b>346,017</b>		<b>175</b>		<b>187</b>	<b>6</b>
Cotton	0	.	.	0	.	0	.	.
Jute	0	.	.	0	.	0	.	.
<b>CASH CROPS</b>		.	.		.		.	.
<b>Total</b>		<b>58</b>	<b>1,672,414</b>		<b>10,336</b>		<b>10,395</b>	<b>1</b>

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

Crop	SHORT RAINY SEASON							
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Cost of Fungicide	Number of Households NOT using Fungicide	Planted Area Without Fungicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Fungicide
Maize	0	.	.	16,380	7,575	16,380	.	.
Paddy	0	.	.	2,061	727	2,061	.	.
Sorghum	0	.	.	759	300	759	.	.
Bulrush Millet	0	.	.	0	.	0	.	.
Wheat	0	.	.	108	66	108	.	.
<b>CEREALS</b>		.	.		<b>8,667</b>		.	.
Yam	0	.	.	0	.	0	.	.
Cassava	0	.	.	325	198	325	.	.
Sweet Potato	0	.	.	759	232	759	.	.
Yams	0	.	.	0	.	0	.	.
Coco Yam	0	.	.	0	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		.	.		<b>430</b>		.	.
Mung Bean	0	.	.	325	121	325	.	.
Beans	0	.	.	542	152	542	.	.
Cowpeas	0	.	.	11,065	3,193	11,065	.	.
Green gram	0	.	.	1,085	224	1,085	.	.
Field Peas	0	.	.	0	.	0	.	.
<b>PULSES</b>		.	.		<b>3,689</b>		.	.
Sunflower	0	.	.	0	.	0	.	.
Simsim	0	.	.	108	44	108	.	.
Groundnut	0	.	.	217	97	217	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		.	.		<b>141</b>		.	.
Okra	108	11	271,194	651	156	759	167	7
Turmeric	0	.	.	0	.	0	.	.
Bitter Aubergine	0	.	.	325	18	325	.	.
Onion	0	.	.	0	.	0	.	.
Cabbage	0	.	.	0	.	0	.	.
Tomatoes	108	22	6,508,648	325	42	434	64	34
Spinach	0	.	.	325	31	325	.	.
Carrot	0	.	.	0	.	0	.	.
Chillies	217	40	2,494,982	217	92	434	132	30
Amaranths	0	.	.	434	35	434	.	.
Pumpkins	0	.	.	542	74	542	.	.
Cucumber	108	22	1,735,640	868	123	976	145	15
Egg Plant	0	.	.	0	.	0	.	.
Water Mellon	217	176	9,600,256	542	307	759	483	36
<b>FRUITS &amp; VEGETABLES</b>		<b>270</b>	<b>20,610,720</b>		<b>877</b>		<b>1,148</b>	<b>24</b>
Cotton	0	.	.	0	.	0	.	.
Jute	0	.	.	0	.	0	.	.
<b>CASH CROPS</b>		.	.		.		.	.
<b>Total</b>		<b>270</b>	<b>20,610,720</b>		<b>13,804</b>		<b>14,074</b>	<b>2</b>

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

Crop	SHORT RAINY SEASON							
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Cost of Fungicide	Number of Households NOT using Fungicide	Planted Area Without Fungicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Fungicide
Maize	262	106	1,135,387	17,205	8,377	17,467	8,483	1
Paddy	786	320	8,711,908	9,345	5,637	10,044	5,957	5
Sorghum	0	.	.	262	71	262	.	.
Bulrush Millet	0	.	.	0	.	0	.	.
Wheat	0	.	.	0	.	0	.	.
<b>CEREALS</b>		<b>427</b>	<b>9,847,294</b>		<b>14,084</b>		<b>14,511</b>	<b>3</b>
Yam	0	.	.	0	.	0	.	.
Cassava	0	.	.	524	186	524	.	.
Sweet Potato	0	.	.	0	.	0	.	.
Yams	0	.	.	175	140	175	.	.
Coco Yam	0	.	.	0	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		.	.		<b>326</b>		.	.
Mung Bean	0	.	.	0	.	0	.	.
Beans	0	.	.	611	212	611	.	.
Cowpeas	0	.	.	4,454	816	4,454	.	.
Green gram	0	.	.	87	9	87	.	.
Field Peas	0	.	.	0	.	0	.	.
<b>PULSES</b>		.	.		<b>1,037</b>		.	.
Sunflower	0	.	.	0	.	0	.	.
Simsim	0	.	.	1,485	534	1,485	.	.
Groundnut	0	.	.	0	.	0	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		.	.		<b>534</b>		.	.
Okra	0	.	.	0	.	0	.	.
Turmeric	0	.	.	0	.	0	.	.
Bitteer Aubergine	0	.	.	0	.	0	.	.
Onion	0	.	.	87	9	87	.	.
Cabbage	0	.	.	0	.	0	.	.
Tomatoes	349	80	1,764,216	0	.	349	.	.
Spinach	0	.	.	0	.	0	.	.
Carrot	0	.	.	0	.	0	.	.
Chillies	0	.	.	0	.	0	.	.
Amaranths	0	.	.	87	18	87	.	.
Pumpkins	0	.	.	87	18	87	.	.
Cucumber	0	.	.	0	.	0	.	.
Egg Plant	0	.	.	0	.	0	.	.
Water Mellon	0	.	.	0	.	0	.	.
<b>FRUITS &amp; VEGETABLES</b>		<b>80</b>	<b>1,764,216</b>		<b>44</b>		<b>124</b>	<b>64</b>
Cotton	0	.	.	0	.	0	.	.
Jute	0	.	.	0	.	0	.	.
<b>CASH CROPS</b>		.	.		.		.	.
<b>Total</b>		<b>506</b>	<b>11,611,510</b>		<b>16,025</b>		<b>16,531</b>	<b>3</b>



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

Crop	SHORT RAINY SEASON							
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Cost of Fungicide	Number of Households NOT using Fungicide	Planted Area Without Fungicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Fungicide
Maize	0	.	.	232	79	232	.	.
Paddy	0	.	.	1,133	365	1,133	.	.
Sorghum	0	.	.	0	.	0	.	.
Bulrush Millet	0	.	.	0	.	0	.	.
Wheat	0	.	.	0	.	0	.	.
<b>CEREALS</b>		.	.		<b>444</b>		.	.
Yam	0	.	.	407	124	407	.	.
Cassava	0	.	.	0	.	0	.	.
Sweet Potato	0	.	.	581	172	581	.	.
Yams	0	.	.	0	.	0	.	.
Coco Yam	0	.	.	29	1	29	.	.
<b>ROOTS &amp; TUBERS</b>		.	.		<b>296</b>		.	.
Mung Bean	0	.	.	0	.	0	.	.
Beans	0	.	.	0	.	0	.	.
Cowpeas	0	.	.	58	12	58	.	.
Green gram	0	.	.	0	.	0	.	.
Field Peas	0	.	.	0	.	0	.	.
<b>PULSES</b>		.	.		<b>12</b>		.	.
Sunflower	0	.	.	0	.	0	.	.
Simsim	0	.	.	0	.	0	.	.
Groundnut	0	.	.	29	3	29	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		.	.		<b>3</b>		.	.
Okra	0	.	.	29	9	29	.	.
Turmeric	0	.	.	0	.	0	.	.
Bitter Aubergine	0	.	.	0	.	0	.	.
Onion	0	.	.	0	.	0	.	.
Cabbage	0	.	.	0	.	0	.	.
Tomatoes	0	.	.	87	12	87	.	.
Spinach	0	.	.	0	.	0	.	.
Carrot	0	.	.	0	.	0	.	.
Chillies	0	.	.	58	2	58	.	.
Amaranths	0	.	.	87	5	87	.	.
Pumpkins	0	.	.	29	6	29	.	.
Cucumber	0	.	.	0	.	0	.	.
Egg Plant	0	.	.	58	4	58	.	.
Water Mellon	0	.	.	0	.	0	.	.
<b>FRUITS &amp; VEGETABLES</b>		.	.		<b>37</b>		.	.
Cotton	0	.	.	0	.	0	.	.
Jute	0	.	.	0	.	0	.	.
<b>CASH CROPS</b>		.	.		.		.	.
<b>Total</b>		.	.		<b>792</b>		.	.

**5.69 Planted Area & Number of Households by Irrigation Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON – Bagamoyo**

Crop	Irrigation						
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted using Irrigation
Maize	111	45	12,297	10,547	12,408	10,592	0.42
Paddy	0	.	554	314	554	.	.
Sorghum	0	.	111	22	111	.	.
Bulrush Millet	0	.	0	.	0	.	.
Wheat	0	.	0	.	0	.	.
<b>CEREALS</b>		<b>45</b>		<b>10,884</b>		<b>10,929</b>	<b>0.41</b>
Yam	0	.	0	.	0	.	.
Cassava	0	.	111	45	111	.	.
Sweet Potato	0	.	0	.	0	.	.
Yams	0	.	0	.	0	.	.
Coco Yam	0	.	0	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		.		<b>45</b>		.	.
Mung Bean	0	.	0	.	0	.	.
Beans	0	.	0	.	0	.	.
Cowpeas	0	.	4,099	2,074	4,099	.	.
Green gram	0	.	775	366	775	.	.
Field Peas	0	.	0	.	0	.	.
<b>PULSES</b>		.		<b>2,441</b>		.	.
Sunflower	0	.	0	.	0	.	.
Simsim	0	.	111	45	111	.	.
Groundnut	0	.	0	.	0	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		.		<b>45</b>		.	.
Okra	0	.	0	.	0	.	.
Turmeric	0	.	0	.	0	.	.
Bitteer Aubergine	0	.	0	.	0	.	.
Onion	0	.	0	.	0	.	.
Cabbage	0	.	0	.	0	.	.
Tomatoes	111	34	0	11	111	45	75
Spinach	0	.	0	.	0	.	.
Carrot	0	.	0	.	0	.	.
Chillies	0	.	0	.	0	.	.
Amaranths	0	.	0	.	0	.	.
Pumpkins	0	.	0	.	0	.	.
Cucumber	0	.	0	.	0	.	.
Egg Plant	0	.	0	.	0	.	.
Water Mellon	0	.	0	.	0	.	.
<b>FRUITS &amp; VEGETABLES</b>		<b>34</b>		<b>11</b>		<b>45</b>	<b>75</b>
Cotton	0	.	0	.	0	.	.
Jute	0	.	0	.	0	.	.
<b>CASH CROPS</b>		.		.		.	.
<b>Total</b>	<b>222</b>	<b>78</b>	<b>18,058</b>	<b>13,426</b>	<b>18,279</b>	<b>13,504</b>	<b>0.58</b>

**5.70 Planted Area & Number of Households by Irrigation Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Kibaha**

Crop	Irrigation						
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted using Irrigation
Maize	135	41	5,686	2,473	5,821	2,514	1.64
Paddy	0	.	812	420	812	.	.
Sorghum	0	.	45	18	45	.	.
Bulrush Millet	0	.	0	.	0	.	.
Wheat	0	.	0	.	0	.	.
<b>CEREALS</b>		<b>41</b>		<b>2,911</b>		<b>2,952</b>	<b>1.39</b>
Yam	0	.	0	.	0	.	.
Cassava	0	.	0	.	0	.	.
Sweet Potato	0	.	0	.	0	.	.
Yams	0	.	0	.	0	.	.
Coco Yam	0	.	0	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		.		.		.	.
Mung Bean	0	.	45	9	45	.	.
Beans	0	.	90	8	90	.	.
Cowpeas	0	.	5,415	1,044	5,415	.	.
Green gram	0	.	181	44	181	.	.
Field Peas	0	.	0	.	0	.	.
<b>PULSES</b>		.		<b>1,106</b>		.	.
Sunflower	0	.	0	.	0	.	.
Simsim	0	.	45	9	45	.	.
Groundnut	0	.	0	.	0	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		.		<b>9</b>		.	.
Okra	226	73	361	90	587	163	44.79
Turmeric	0	.	0	.	0	.	.
Bitteer Aubergine	0	.	0	.	0	.	.
Onion	0	.	0	.	0	.	.
Cabbage	0	.	0	.	0	.	.
Tomatoes	135	46	135	57	271	103	44.48
Spinach	45	9	45	9	90	18	50.00
Carrot	0	.	0	.	0	.	.
Chillies	0	.	0	.	0	.	.
Amaranth	45	9	45	5	90	14	66.67
Pumpkins	0	.	45	5	45	.	.
Cucumber	0	.	0	.	0	.	.
Egg Plant	0	.	0	.	0	.	.
Water Mellon	0	.	0	.	0	.	.
<b>FRUITS &amp; VEGETABLES</b>		<b>137</b>		<b>165</b>		<b>302</b>	<b>45.32</b>
Cotton	0	.	0	.	0	.	.
Jute	0	.	0	.	0	.	.
<b>CASH CROPS</b>		.		.		.	.
<b>Total</b>		<b>178</b>		<b>4,192</b>		<b>4,370</b>	<b>4.08</b>

**5.71 Planted Area & Number of Households by Irrigation Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Kisarawe**

Crop	Irrigation						
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted using Irrigation
Maize	173	140	13,149	6,189	13,322	6,329	2.21
Paddy	58	12	1,961	1,173	2,018	1,185	0.99
Sorghum	0	.	1,211	363	1,211	.	.
Bulrush Millet	0	.	0	.	0	.	.
Wheat	0	.	0	.	0	.	.
<b>CEREALS</b>		<b>152</b>		<b>7,725</b>		<b>7,877</b>	<b>1.93</b>
Yam	0	.	0	.	0	.	.
Cassava	0	.	0	.	0	.	.
Sweet Potato	0	.	231	37	231	.	.
Yams	0	.	0	.	0	.	.
Coco Yam	0	.	0	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		<b>.</b>		<b>37</b>		<b>.</b>	<b>.</b>
Mung Bean	0	.	58	23	58	.	.
Beans	0	.	692	131	692	.	.
Cowpeas	173	82	7,958	1,823	8,131	1,904	4.29
Green gram	0	.	346	72	346	.	.
Field Peas	0	.	0	.	0	.	.
<b>PULSES</b>		<b>82</b>		<b>2,049</b>		<b>2,131</b>	<b>3.83</b>
Sunflower	0	.	58	12	58	.	.
Simsim	0	.	288	117	288	.	.
Groundnut	0	.	173	35	173	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>.</b>		<b>163</b>		<b>.</b>	<b>.</b>
Okra	58	6	461	90	519	96	6.07
Turmeric	0	.	0	.	0	.	.
Bitteer Aubergine	0	.	0	.	0	.	.
Onion	0	.	0	.	0	.	.
Cabbage	0	.	0	.	0	.	.
Tomatoes	0	.	115	35	115	.	.
Spinach	0	.	0	.	0	.	.
Carrot	0	.	0	.	0	.	.
Chillies	0	.	58	35	58	.	.
Amaranths	58	6	0	.	58	.	.
Pumpkins	58	3	58	6	115	9	34.21
Cucumber	0	.	0	.	0	.	.
Egg Plant	0	.	0	.	0	.	.
Water Mellon	58	3	58	3	115	6	48.00
<b>FRUITS &amp; VEGETABLES</b>		<b>18</b>		<b>169</b>		<b>187</b>	<b>9.38</b>
Cotton	0	.	0	.	0	.	.
Jute	0	.	0	.	0	.	.
<b>CASH CROPS</b>		<b>.</b>		<b>.</b>		<b>.</b>	<b>.</b>
<b>Total</b>		<b>251</b>		<b>10,144</b>		<b>10,395</b>	<b>2.41</b>

**5.72 Planted Area & Number of Households by Irrigation Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Mkuranga**

Crop	Irrigation						
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted using Irrigation
Maize	325	54	16,055	7,521	16,380	7,575	0.71
Paddy	0	.	2,061	727	2,061	.	.
Sorghum	0	.	759	300	759	.	.
Bulrush Millet	0	.	0	.	0	.	.
Wheat	0	.	108	66	108	.	.
<b>CEREALS</b>		<b>54</b>		<b>8,613</b>		<b>8,667</b>	<b>0.62</b>
Yam	0	.	0	.	0	.	.
Cassava	0	.	325	198	325	.	.
Sweet Potato	0	.	759	232	759	.	.
Yams	0	.	0	.	0	.	.
Coco Yam	0	.	0	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		.		<b>430</b>		.	.
Mung Bean	0	.	325	121	325	.	.
Beans	0	.	542	152	542	.	.
Cowpeas	108	11	10,956	3,182	11,065	3,193	0.34
Green gram	0	.	1,085	224	1,085	.	.
Field Peas	0	.	0	.	0	.	.
<b>PULSES</b>		<b>11</b>		<b>3,678</b>		<b>3,689</b>	<b>0.30</b>
Sunflower	0	.	0	.	0	.	.
Simsim	0	.	108	44	108	.	.
Groundnut	0	.	217	97	217	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		.		<b>141</b>		.	.
Okra	434	44	325	123	759	167	26.32
Turmeric	0	.	0	.	0	.	.
Bitteer Aubergine	217	13	108	4	325	18	75.00
Onion	0	.	0	.	0	.	.
Cabbage	0	.	0	.	0	.	.
Tomatoes	434	64	0	.	434	.	.
Spinach	325	31	0	.	325	.	.
Carrot	0	.	0	.	0	.	.
Chillies	325	44	108	88	434	132	33.33
Amaranth	434	35	0	.	434	.	.
Pumpkins	0	.	542	74	542	.	.
Cucumber	434	79	542	66	976	145	54.55
Egg Plant	0	.	0	.	0	.	.
Water Mellon	325	220	434	264	759	483	45.45
<b>FRUITS &amp; VEGETABLES</b>		<b>529</b>		<b>618</b>		<b>1,148</b>	<b>46.12</b>
Cotton	0	.	0	.	0	.	.
Jute	0	.	0	.	0	.	.
<b>CASH CROPS</b>		.		.		.	.
<b>Total</b>		<b>594</b>		<b>13,480</b>		<b>14,074</b>	<b>4.22</b>

**5.73 Planted Area & Number of Households by Irrigation Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Rufiji**

Crop	Irrigation						
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted using Irrigation
Maize	262	120	17,205	8,363	17,467	8,483	1.42
Paddy	175	106	9,869	5,851	10,044	5,957	1.78
Sorghum	0	.	262	71	262	.	.
Bulrush Millet	0	.	0	.	0	.	.
Wheat	0	.	0	.	0	.	.
<b>CEREALS</b>		<b>226</b>		<b>14,284</b>		<b>14,511</b>	<b>1.56</b>
Yam	0	.	0	.	0	.	.
Cassava	0	.	524	186	524	.	.
Sweet Potato	0	.	0	.	0	.	.
Yams	0	.	175	140	175	.	.
Coco Yam	0	.	0	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		.		<b>326</b>		.	.
Mung Bean	0	.	0	.	0	.	.
Beans	0	.	611	212	611	.	.
Cowpeas	0	.	4,454	816	4,454	.	.
Green gram	0	.	87	9	87	.	.
Field Peas	0	.	0	.	0	.	.
<b>PULSES</b>		.		<b>1,037</b>		.	.
Sunflower	0	.	0	.	0	.	.
Simsim	0	.	1,485	534	1,485	.	.
Groundnut	0	.	0	.	0	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		.		<b>534</b>		.	.
Okra	0	.	0	.	0	.	.
Turmeric	0	.	0	.	0	.	.
Bitteer Aubergine	0	.	0	.	0	.	.
Onion	0	.	87	9	87	.	.
Cabbage	0	.	0	.	0	.	.
Tomatoes	349	80	0	.	349	.	.
Spinach	0	.	0	.	0	.	.
Carrot	0	.	0	.	0	.	.
Chillies	0	.	0	.	0	.	.
Amaranths	87	18	0	.	87	.	.
Pumpkins	87	18	0	.	87	.	.
Cucumber	0	.	0	.	0	.	.
Egg Plant	0	.	0	.	0	.	.
Water Mellon	0	.	0	.	0	.	.
<b>FRUITS &amp; VEGETABLES</b>		<b>115</b>		<b>9</b>		<b>124</b>	<b>92.86</b>
Cotton	0	.	0	.	0	.	.
Jute	0	.	0	.	0	.	.
<b>CASH CROPS</b>		.		.		.	.
<b>Total</b>		<b>341</b>		<b>16,190</b>		<b>16,531</b>	<b>2.06</b>

**5.74 Planted Area & Number of Households by Irrigation Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON – Mafia**

Crop	Irrigation						
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted using Irrigation
Maize	0	.	232	79	232	.	.
Paddy	0	.	1,133	365	1,133	.	.
Sorghum	0	.	0	.	0	.	.
Bulrush Millet	0	.	0	.	0	.	.
Wheat	0	.	0	.	0	.	.
<b>CEREALS</b>		.		<b>444</b>		.	.
Yam	0	.	407	124	407	.	.
Cassava	0	.	0	.	0	.	.
Sweet Potato	0	.	581	172	581	.	.
Yams	0	.	0	.	0	.	.
Coco Yam	29	1	0	.	29	.	.
<b>ROOTS &amp; TUBERS</b>		<b>1</b>		<b>295</b>		<b>296</b>	<b>0.40</b>
Mung Bean	0	.	0	.	0	.	.
Beans	0	.	0	.	0	.	.
Cowpeas	0	.	58	12	58	.	.
Green gram	0	.	0	.	0	.	.
Field Peas	0	.	0	.	0	.	.
<b>PULSES</b>		.		<b>12</b>		.	.
Sunflower	0	.	0	.	0	.	.
Simsim	0	.	0	.	0	.	.
Groundnut	0	.	29	3	29	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		.		<b>3</b>		.	.
Okra	0	.	29	9	29	.	.
Turmeric	0	.	0	.	0	.	.
Bitteer Aubergine	0	.	0	.	0	.	.
Onion	0	.	0	.	0	.	.
Cabbage	0	.	0	.	0	.	.
Tomatoes	0	.	87	12	87	.	.
Spinach	0	.	0	.	0	.	.
Carrot	0	.	0	.	0	.	.
Chillies	58	2	0	.	58	.	.
Amaranths	87	5	0	.	87	.	.
Pumpkins	0	.	29	6	29	.	.
Cucumber	0	.	0	.	0	.	.
Egg Plant	58	4	0	.	58	.	.
Water Mellon	0	.	0	.	0	.	.
<b>FRUITS &amp; VEGETABLES</b>		<b>11</b>		<b>26</b>		<b>37</b>	<b>28.57</b>
Cotton	0	.	0	.	0	.	.
Jute	0	.	0	.	0	.	.
<b>CASH CROPS</b>		.		.		.	.
<b>Total</b>		<b>12</b>		<b>781</b>		<b>792</b>	<b>1.48</b>

**5.75 Planted Area & Number of Households by Improved Seeds Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON – Bagamoyo**

Crop	Improved Seed							
	Number of Households using Improved seed	Planted Area Applied with Improved seed	Number of Households not using Improved seed	Planted Area Applied with no Improved seed	Cost (Tshs) of Improved seed	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Improved Seed
Maize	1,440	1,615	10,968	8,978	33,866,882	12,408	10,592	15.24
Paddy	0	.	554	314	.	554	.	.
Sorghum	0	.	111	22	.	111	.	.
Bulrush Millet	0	.	0	.	.	0	.	.
Wheat	0	.	0	.	.	0	.	.
<b>CEREALS</b>		<b>1,615</b>		<b>9,314</b>	<b>33,866,882</b>		<b>10,929</b>	<b>14.77</b>
Yam	0	.	0	.	.	0	.	.
Cassava	0	.	111	45	.	111	.	.
Sweet Potato	0	.	0	.	.	0	.	.
Yams	0	.	0	.	.	0	.	.
Coco Yam	0	.	0	.	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		.		<b>45</b>	.		.	.
Mung Bean	0	.	0	.	.	0	.	.
Beans	0	.	0	.	.	0	.	.
Cowpeas	0	.	4,099	2,074	.	4,099	.	.
Green gram	0	.	775	366	.	775	.	.
Field Peas	0	.	0	.	.	0	.	.
<b>PULSES</b>		.		<b>2,441</b>	.		.	.
Sunflower	0	.	0	.	.	0	.	.
Simsim	0	.	111	45	.	111	.	.
Groundnut	0	.	0	.	.	0	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		.		<b>45</b>	.		.	.
Okra	0	.	0	.	.	0	.	.
Turmeric	0	.	0	.	.	0	.	.
Bitteer	0	.	0	.	.	0	.	.
Aubergine							.	.
Onion	0	.	0	.	.	0	.	.
Cabbage	0	.	0	.	.	0	.	.
Tomatoes	111	45	0	.	1,107,847	111	.	.
Spinach	0	.	0	.	.	0	.	.
Carrot	0	.	0	.	.	0	.	.
Chillies	0	.	0	.	.	0	.	.
Amaranths	0	.	0	.	.	0	.	.
Pumpkins	0	.	0	.	.	0	.	.
Cucumber	0	.	0	.	.	0	.	.
Egg Plant	0	.	0	.	.	0	.	.
Water Mellon	0	.	0	.	.	0	.	.
<b>FRUITS &amp; VEGETABLES</b>		<b>45</b>		.	<b>1,107,847</b>		.	.
Cotton	0	.	0	.	.	0	.	.
Jute	0	.	0	.	.	0	.	.
<b>CASH CROPS</b>		.		.	.		.	.
<b>Total</b>		<b>1,660</b>		<b>11,845</b>	<b>34,974,729</b>		<b>13,504</b>	<b>12.29</b>



**5.76 Planted Area & Number of Households by Improved Seeds Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Kibaha**

Crop	Improved Seed							
	Number of Households using Improved seed	Planted Area Applied with Improved seed	Number of Households not using Improved seed	Planted Area Applied with no Improved seed	Cost (Tshs) of Improved seed	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Improved Seed
Maize	2,978	1,522	2,843	992	28,196,114	5,821	2,514	60.55
Paddy	0	.	812	420	.	812	.	.
Sorghum	0	.	45	18	.	45	.	.
Bulrush Millet	0	.	0	.	.	0	.	.
Wheat	0	.	0	.	.	0	.	.
<b>CEREALS</b>		<b>1,522</b>		<b>1,430</b>	<b>28,196,114</b>		<b>2,952</b>	<b>51.55</b>
Yam	0	.	0	.	.	0	.	.
Cassava	0	.	0	.	.	0	.	.
Sweet Potato	0	.	0	.	.	0	.	.
Yams	0	.	0	.	.	0	.	.
Coco Yam	0	.	0	.	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		.		.	.		.	.
Mung Bean	0	.	45	9	.	45	.	.
Beans	0	.	90	8	.	90	.	.
Cowpeas	316	37	5,099	1,007	417,881	5,415	1,044	3.59
Green gram	0	.	181	44	.	181	.	.
Field Peas	0	.	0	.	.	0	.	.
<b>PULSES</b>		<b>37</b>		<b>1,068</b>	<b>417,881</b>		<b>1,106</b>	<b>3.39</b>
Sunflower	0	.	0	.	.	0	.	.
Simsim	0	.	45	9	.	45	.	.
Groundnut	0	.	0	.	.	0	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		.		<b>9</b>	.		.	.
Okra	496	145	90	18	10,289,070	587	163	88.80
Turmeric	0	.	0	.	.	0	.	.
Bitteer	0	.	0	.	.	0	.	.
Aubergine							.	.
Onion	0	.	0	.	.	0	.	.
Cabbage	0	.	0	.	.	0	.	.
Tomatoes	271	103	0	.	5,731,193	271	.	.
Spinach	90	18	0	.	654,349	90	.	.
Carrot	0	.	0	.	.	0	.	.
Chillies	0	.	0	.	.	0	.	.
Amaranths	90	14	0	.	437,737	90	.	.
Pumpkins	0	.	45	5	.	45	.	.
Cucumber	0	.	0	.	.	0	.	.
Egg Plant	0	.	0	.	.	0	.	.
Water Mellon	0	.	0	.	.	0	.	.
<b>FRUITS &amp; VEGETABLES</b>		<b>280</b>		<b>23</b>	<b>17,112,348</b>		<b>302</b>	<b>92.45</b>
Cotton	0	.	0	.	.	0	.	.
Jute	0	.	0	.	.	0	.	.
<b>CASH CROPS</b>		.		.	.		.	.
<b>Total</b>		<b>1,839</b>		<b>2,531</b>	<b>45,726,343</b>		<b>4,370</b>	<b>42.09</b>

**5.77 Planted Area & Number of Households by Improved Seeds Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON – Kisarawe**

Crop	Improved Seed							
	Number of Households using Improved seed	Planted Area Applied with Improved seed	Number of Households not using Improved seed	Planted Area Applied with no Improved seed	Cost (Tshs) of Improved seed	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Improved Seed
Maize	1,903	1,678	11,419	4,652	128,422,685	13,322	6,329	26.51
Paddy	58	35	1,961	1,150	692,034	2,018	1,185	2.96
Sorghum	115	24	1,096	339	69,203	1,211	363	6.64
Bulrush Millet	0	.	0	.	.	0	.	.
Wheat	0	.	0	.	.	0	.	.
<b>CEREALS</b>		<b>1,737</b>		<b>6,140</b>	<b>129,183,922</b>		<b>7,877</b>	<b>22.05</b>
Yam	0	.	0	.	.	0	.	.
Cassava	0	.	0	.	.	0	.	.
Sweet Potato	0	.	231	37	.	231	.	.
Yams	0	.	0	.	.	0	.	.
Coco Yam	0	.	0	.	.	0	.	.
<b>ROOTS &amp; TUBERS</b>				<b>37</b>				
Mung Bean	0	.	58	23	.	58	.	.
Beans	58	2	634	128	115,339	692	131	1.79
Cowpeas	750	184	7,382	1,720	21,631,931	8,131	1,904	9.67
Green gram	0	.	346	72	.	346	.	.
Field Peas	0	.	0	.	.	0	.	.
<b>PULSES</b>		<b>186</b>		<b>1,944</b>	<b>21,747,270</b>		<b>2,131</b>	<b>8.75</b>
Sunflower	58	1	0	10	57,669	58	12	12.50
Simsim	58	26	231	90	181,659	288	117	22.50
Groundnut	0	.	173	35	.	173	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>28</b>		<b>136</b>	<b>239,328</b>		<b>163</b>	<b>16.96</b>
Okra	288	40	231	56	5,167,184	519	96	42.08
Turmeric	0	.	0	.	.	0	.	.
Bitteer	0	.	0	.	.	0	.	.
Aubergine							.	.
Onion	0	.	0	.	.	0	.	.
Cabbage	0	.	0	.	.	0	.	.
Tomatoes	115	35	0	.	778,538	115	.	.
Spinach	0	.	0	.	.	0	.	.
Carrot	0	.	0	.	.	0	.	.
Chillies	58	35	0	.	403,686	58	.	.
Amaranths	0	.	58	6	.	58	.	.
Pumpkins	0	.	115	9	.	115	.	.
Cucumber	0	.	0	.	.	0	.	.
Egg Plant	0	.	0	.	.	0	.	.
Water Mellon	115	2	0	3	103,805	115	6	42.50
<b>FRUITS &amp; VEGETABLES</b>		<b>113</b>		<b>74</b>	<b>6,453,213</b>		<b>187</b>	<b>60.50</b>
Cotton	0	.	0	.	.	0	.	.
Jute	0	.	0	.	.	0	.	.
<b>CASH CROPS</b>								
<b>Total</b>		<b>2,064</b>		<b>8,331</b>	<b>157,623,733</b>		<b>10,395</b>	<b>19.86</b>

**5.78 Planted Area & Number of Households by Improved Seeds Use by Crop during 2007/08 Agriculture Year - SHORT RAINY SEASON – Mkuranga**

Crop	Improved Seed							
	Number of Households using Improved seed	Planted Area Applied with Improved seed	Number of Households not using Improved seed	Planted Area Applied with no Improved seed	Cost (Tshs) of Improved seed	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Improved Seed
Maize	4,773	1,969	11,607	5,606	42,163,566	16,380	7,575	25.99
Paddy	108	44	1,953	683	325,432	2,061	727	6.04
Sorghum	217	88	542	212	86,782	759	300	29.33
Bulrush Millet	0	.	0	.	.	0	.	.
Wheat	0	.	108	66	.	108	.	.
<b>CEREALS</b>		<b>2,101</b>		<b>6,567</b>	<b>42,575,780</b>		<b>8,667</b>	<b>24.24</b>
Yam	0	.	0	.	.	0	.	.
Cassava	0	.	325	198	.	325	.	.
Sweet Potato	0	.	759	232	.	759	.	.
Yams	0	.	0	.	.	0	.	.
Coco Yam	0	.	0	.	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		.		<b>430</b>	.		.	.
Mung Bean	0	.	325	121	.	325	.	.
Beans	108	66	434	86	2,169,549	542	152	43.48
Cowpeas	1,085	396	9,980	2,797	2,359,385	11,065	3,193	12.41
Green gram	108	45	976	179	21,695	1,085	224	20.00
Field Peas	0	.	0	.	.	0	.	.
<b>PULSES</b>		<b>507</b>		<b>3,182</b>	<b>4,550,630</b>		<b>3,689</b>	<b>13.74</b>
Sunflower	0	.	0	.	.	0	.	.
Simsim	108	44	0	.	379,671	108	.	.
Groundnut	217	97	0	.	781,038	217	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>141</b>		.	<b>1,160,709</b>		.	.
Okra	542	132	217	35	2,494,982	759	167	78.95
Turmeric	0	.	0	.	.	0	.	.
Bitteer	217	13	108	4	433,910	325	18	75.00
Aubergine								
Onion	0	.	0	.	.	0	.	.
Cabbage	0	.	0	.	.	0	.	.
Tomatoes	325	31	108	33	1,003,417	434	64	48.28
Spinach	217	9	108	22	325,432	325	31	28.57
Carrot	0	.	0	.	.	0	.	.
Chillies	217	26	217	105	976,297	434	132	20.00
Amaranths	325	24	108	11	1,627,162	434	35	68.75
Pumpkins	217	15	325	58	1,030,536	542	74	20.83
Cucumber	759	115	217	30	4,523,511	976	145	79.55
Egg Plant	0	.	0	.	.	0	.	.
Water Mellon	542	307	217	176	7,918,855	759	483	63.64
<b>FRUITS &amp; VEGETABLES</b>		<b>673</b>		<b>475</b>	<b>20,334,102</b>		<b>1,148</b>	<b>58.65</b>
Cotton	0	.	0	.	.	0	.	.
Jute	0	.	0	.	.	0	.	.
<b>CASH CROPS</b>		.		.	.		.	.
<b>Total</b>		<b>3,421</b>		<b>10,653</b>	<b>68,621,221</b>		<b>14,074</b>	<b>24.31</b>

**5.79 Planted Area & Number of Households by Improved Seeds Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Rufiji**

Crop	Improved Seed							
	Number of Households using Improved seed	Planted Area Applied with Improved seed	Number of Households not using Improved seed	Planted Area Applied with no Improved seed	Cost (Tshs) of Improved seed	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Improved Seed
Maize	1,397	617	16,070	7,866	38,428,466	17,467	8,483	7.27
Paddy	262	115	9,782	5,842	1,943,258	10,044	5,957	1.93
Sorghum	0	.	262	71	.	262	.	.
Bulrush Millet	0	.	0	.	.	0	.	.
Wheat	0	.	0	.	.	0	.	.
<b>CEREALS</b>		<b>732</b>		<b>13,779</b>	<b>40,371,724</b>		<b>14,511</b>	<b>5.04</b>
Yam	0	.	0	.	.	0	.	.
Cassava	0	.	524	186	.	524	.	.
Sweet Potato	0	.	0	.	.	0	.	.
Yams	0	.	175	140	.	175	.	.
Coco Yam	0	.	0	.	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		.		<b>326</b>	.		.	.
Mung Bean	0	.	0	.	.	0	.	.
Beans	0	.	611	212	.	611	.	.
Cowpeas	0	.	4,454	816	.	4,454	.	.
Green gram	0	.	87	9	.	87	.	.
Field Peas	0	.	0	.	.	0	.	.
<b>PULSES</b>		.		<b>1,037</b>	.		.	.
Sunflower	0	.	0	.	.	0	.	.
Simsim	87	71	1,397	463	87,337	1,485	534	13.25
Groundnut	0	.	0	.	.	0	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>71</b>		<b>463</b>	<b>87,337</b>		<b>534</b>	<b>13.25</b>
Okra	0	.	0	.	.	0	.	.
Turmeric	0	.	0	.	.	0	.	.
Bitteer	0	.	0	.	.	0	.	.
Aubergine							.	.
Onion	0	.	87	9	.	87	.	.
Cabbage	0	.	0	.	.	0	.	.
Tomatoes	349	71	0	9	2,314,442	349	80	88.89
Spinach	0	.	0	.	.	0	.	.
Carrot	0	.	0	.	.	0	.	.
Chillies	0	.	0	.	.	0	.	.
Amaranths	87	9	0	9	131,006	87	18	50.00
Pumpkins	0	.	87	18	.	87	.	.
Cucumber	0	.	0	.	.	0	.	.
Egg Plant	0	.	0	.	.	0	.	.
Water Mellon	0	.	0	.	.	0	.	.
<b>FRUITS &amp; VEGETABLES</b>		<b>80</b>		<b>44</b>	<b>2,445,448</b>		<b>124</b>	<b>64.29</b>
Cotton	0	.	0	.	.	0	.	.
Jute	0	.	0	.	.	0	.	.
<b>CASH CROPS</b>		.		.	.		.	.
<b>Total</b>		<b>882</b>		<b>15,649</b>	<b>42,904,509</b>		<b>16,531</b>	<b>5.34</b>

**5.80 Planted Area & Number of Households by Improved Seeds Use by Crop during 2007/08 Agriculture Year - SHORT RAINY SEASON - Mafia**

Crop	Improved Seed							
	Number of Households using Improved seed	Planted Area Applied with Improved seed	Number of Households not using Improved seed	Planted Area Applied with no Improved seed	Cost (Tshs) of Improved seed	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Improved Seed
Maize	0	.	232	79	.	232	.	.
Paddy	29	6	1,104	359	726,425	1,133	365	1.61
Sorghum	0	.	0	.	.	0	.	.
Bulrush Millet	0	.	0	.	.	0	.	.
Wheat	0	.	0	.	.	0	.	.
<b>CEREALS</b>		<b>6</b>		<b>438</b>	<b>726,425</b>		<b>444</b>	<b>1.32</b>
Yam	0	.	407	124	.	407	.	.
Cassava	0	.	0	.	.	0	.	.
Sweet Potato	29	1	552	171	29,057	581	172	0.68
Yams	0	.	0	.	.	0	.	.
Coco Yam	29	1	0	.	130,756	29	.	.
<b>ROOTS &amp; TUBERS</b>		<b>2</b>		<b>294</b>	<b>159,813</b>		<b>296</b>	<b>0.79</b>
Mung Bean	0	.	0	.	.	0	.	.
Beans	0	.	0	.	.	0	.	.
Cowpeas	0	.	58	12	.	58	.	.
Green gram	0	.	0	.	.	0	.	.
Field Peas	0	.	0	.	.	0	.	.
<b>PULSES</b>		<b>.</b>		<b>12</b>	<b>.</b>		<b>.</b>	<b>.</b>
Sunflower	0	.	0	.	.	0	.	.
Simsim	0	.	0	.	.	0	.	.
Groundnut	0	.	29	3	.	29	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>.</b>		<b>3</b>	<b>.</b>		<b>.</b>	<b>.</b>
Okra	29	9	0	.	145,285	29	.	.
Turmeric	0	.	0	.	.	0	.	.
Bitteer	0	.	0	.	.	0	.	.
Aubergine							.	.
Onion	0	.	0	.	.	0	.	.
Cabbage	0	.	0	.	.	0	.	.
Tomatoes	0	.	87	12	.	87	.	.
Spinach	0	.	0	.	.	0	.	.
Carrot	0	.	0	.	.	0	.	.
Chillies	29	1	29	1	130,756	58	2	66.67
Amaranths	0	.	87	5	.	87	.	.
Pumpkins	0	.	29	6	.	29	.	.
Cucumber	0	.	0	.	.	0	.	.
Egg Plant	29	2	29	1	87,171	58	4	66.67
Water Mellon	0	.	0	.	.	0	.	.
<b>FRUITS &amp; VEGETABLES</b>		<b>12</b>		<b>25</b>	<b>363,212</b>		<b>37</b>	<b>33.33</b>
Cotton	0	.	0	.	.	0	.	.
Jute	0	.	0	.	.	0	.	.
<b>CASH CROPS</b>		<b>.</b>		<b>.</b>	<b>.</b>		<b>.</b>	<b>.</b>
<b>Total</b>		<b>21</b>		<b>772</b>	<b>1,249,450</b>		<b>792</b>	<b>2.60</b>

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

Crop	Local Seed							
	Number of Households using Local seed	Planted Area Applied with Local seed	Number of Households not using Local seed	Planted Area Applied with no Local seed	Cost of Local seed	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Insecticide
Maize	10,968	8,978	1,440	1,615	142,418,160	12,408	10,592	85
Paddy	554	269	0	45	13,981,029	554	314	86
Sorghum	111	22	0	.	66,471	111	.	.
Bulrush Millet	0	.	0	.	.	0	.	.
Wheat	0	.	0	.	.	0	.	.
<b>CEREALS</b>		<b>9,269</b>		<b>1,660</b>	<b>156,465,659</b>		<b>10,929</b>	<b>85</b>
Yam	0	.	0	.	.	0	.	.
Cassava	111	45	0	.	775,493	111	.	.
Sweet Potato	0	.	0	.	.	0	.	.
Yams	0	.	0	.	.	0	.	.
Coco Yam	0	.	0	.	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		<b>45</b>		<b>.</b>	<b>775,493</b>		<b>.</b>	<b>.</b>
Mung Bean	0	.	0	.	.	0	.	.
Beans	0	.	0	.	.	0	.	.
Cowpeas	4,099	2,013	0	62	15,698,192	4,099	2,074	97
Green gram	775	366	0	.	1,779,202	775	.	.
Field Peas	0	.	0	.	.	0	.	.
<b>PULSES</b>		<b>2,379</b>		<b>62</b>	<b>17,477,394</b>		<b>2,441</b>	<b>97</b>
Sunflower	0	.	0	.	.	0	.	.
Simsim	111	45	0	.	465,296	111	.	.
Groundnut	0	.	0	.	.	0	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>45</b>		<b>.</b>	<b>465,296</b>		<b>.</b>	<b>.</b>
Okra	0	.	0	.	.	0	.	.
Turmeric	0	.	0	.	.	0	.	.
Bitteer Aubergine	0	.	0	.	.	0	.	.
Onion	0	.	0	.	.	0	.	.
Cabbage	0	.	0	.	.	0	.	.
Tomatoes	0	.	111	45	.	111	.	.
Spinach	0	.	0	.	.	0	.	.
Carrot	0	.	0	.	.	0	.	.
Chillies	0	.	0	.	.	0	.	.
Amaranths	0	.	0	.	.	0	.	.
Pumpkins	0	.	0	.	.	0	.	.
Cucumber	0	.	0	.	.	0	.	.
Egg Plant	0	.	0	.	.	0	.	.
Water Mellon	0	.	0	.	.	0	.	.
<b>FRUITS &amp; VEGETABLES</b>		<b>.</b>		<b>45</b>	<b>.</b>		<b>.</b>	<b>.</b>
Cotton	0	.	0	.	.	0	.	.
Jute	0	.	0	.	.	0	.	.
<b>CASH CROPS</b>		<b>.</b>		<b>.</b>	<b>.</b>		<b>.</b>	<b>.</b>
<b>Total</b>		<b>11,738</b>		<b>1,766</b>	<b>175,183,842</b>		<b>13,504</b>	<b>87</b>

**5.82 Planted Area & Number of Households by Local Seed Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Kibaha**

Crop	Local Seed							
	Number of Households using Local seed	Planted Area Applied with Local seed	Number of Households not using Local seed	Planted Area Applied with no Local seed	Cost of Local seed	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Insecticide
Maize	2,843	963	2,978	1,551	15,774,318	5,821	2,514	38
Paddy	812	420	0	.	11,769,252	812	.	.
Sorghum	45	18	0	.	90,255	45	.	.
Bulrush Millet	0	.	0	.	.	0	.	.
Wheat	0	.	0	.	.	0	.	.
<b>CEREALS</b>		<b>1,401</b>		<b>1,551</b>	<b>27,633,825</b>		<b>2,952</b>	<b>47</b>
Yam	0	.	0	.	.	0	.	.
Cassava	0	.	0	.	.	0	.	.
Sweet Potato	0	.	0	.	.	0	.	.
Yams	0	.	0	.	.	0	.	.
Coco Yam	0	.	0	.	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		.		.	.		.	.
Mung Bean	45	9	0	.	63,179	45	.	.
Beans	90	8	0	.	55,146	90	.	.
Cowpeas	5,099	994	316	50	18,321,765	5,415	1,044	95
Green gram	181	44	0	.	618,247	181	.	.
Field Peas	0	.	0	.	.	0	.	.
<b>PULSES</b>		<b>1,056</b>		<b>50</b>	<b>19,058,336</b>		<b>1,106</b>	<b>95</b>
Sunflower	0	.	0	.	.	0	.	.
Simsim	45	9	0	.	180,510	45	.	.
Groundnut	0	.	0	.	.	0	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>9</b>		.	<b>180,510</b>		.	.
Okra	90	18	496	145	117,332	587	163	11
Turmeric	0	.	0	.	.	0	.	.
Bitteer Aubergine	0	.	0	.	.	0	.	.
Onion	0	.	0	.	.	0	.	.
Cabbage	0	.	0	.	.	0	.	.
Tomatoes	0	.	271	103	.	271	.	.
Spinach	0	.	90	18	.	90	.	.
Carrot	0	.	0	.	.	0	.	.
Chillies	0	.	0	.	.	0	.	.
Amaranths	0	.	90	14	.	90	.	.
Pumpkins	45	5	0	.	22,564	45	.	.
Cucumber	0	.	0	.	.	0	.	.
Egg Plant	0	.	0	.	.	0	.	.
Water Mellon	0	.	0	.	.	0	.	.
<b>FRUITS &amp; VEGETABLES</b>		<b>23</b>		<b>280</b>	<b>139,895</b>		<b>302</b>	<b>8</b>
Cotton	0	.	0	.	.	0	.	.
Jute	0	.	0	.	.	0	.	.
<b>CASH CROPS</b>		.		.	.		.	.
<b>Total</b>		<b>2,489</b>		<b>1,881</b>	<b>47,012,567</b>		<b>4,370</b>	<b>57</b>

**5.83 Planted Area & Number of Households by Local Seed Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Kisarawe**

Crop	Local Seed							
	Number of Households using Local seed	Planted Area Applied with Local seed	Number of Households not using Local seed	Planted Area Applied with no Local seed	Cost of Local seed	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Insecticide
Maize	11,419	4,207	1,903	2,122	258,246,853	13,322	6,329	66
Paddy	1,961	1,127	58	58	102,299,860	2,018	1,185	95
Sorghum	1,096	285	115	77	9,051,222	1,211	363	79
Bulrush Millet	0	.	0	.	.	0	.	.
Wheat	0	.	0	.	.	0	.	.
<b>CEREALS</b>		<b>5,619</b>		<b>2,258</b>	<b>369,597,936</b>		<b>7,877</b>	<b>71</b>
Yam	0	.	0	.	.	0	.	.
Cassava	0	.	0	.	.	0	.	.
Sweet Potato	231	32	0	5	3,206,422	231	37	86
Yams	0	.	0	.	.	0	.	.
Coco Yam	0	.	0	.	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		<b>32</b>		<b>5</b>	<b>3,206,422</b>		<b>37</b>	<b>86</b>
Mung Bean	58	23	0	.	5,190,252	58	.	.
Beans	634	128	58	2	2,445,185	692	131	98
Cowpeas	7,382	1,576	750	328	102,905,562	8,131	1,904	83
Green gram	346	57	0	15	461,356	346	72	79
Field Peas	0	.	0	.	.	0	.	.
<b>PULSES</b>		<b>1,785</b>		<b>346</b>	<b>111,002,355</b>		<b>2,131</b>	<b>84</b>
Sunflower	0	.	58	12	.	58	.	.
Simsim	231	76	58	41	677,616	288	117	65
Groundnut	173	25	0	10	236,445	173	35	71
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>101</b>		<b>63</b>	<b>914,061</b>		<b>163</b>	<b>62</b>
Okra	231	40	288	56	2,537,456	519	96	42
Turmeric	0	.	0	.	.	0	.	.
Bitter Aubergine	0	.	0	.	.	0	.	.
Onion	0	.	0	.	.	0	.	.
Cabbage	0	.	0	.	.	0	.	.
Tomatoes	0	.	115	35	.	115	.	.
Spinach	0	.	0	.	.	0	.	.
Carrot	0	.	0	.	.	0	.	.
Chillies	0	.	58	35	.	58	.	.
Amaranth	58	6	0	.	5,767	58	.	.
Pumpkins	115	3	0	6	63,436	115	9	34
Cucumber	0	.	0	.	.	0	.	.
Egg Plant	0	.	0	.	.	0	.	.
Water Mellon	0	.	115	6	.	115	.	.
<b>FRUITS &amp; VEGETABLES</b>		<b>49</b>		<b>138</b>	<b>2,606,660</b>		<b>187</b>	<b>26</b>
Cotton	0	.	0	.	.	0	.	.
Jute	0	.	0	.	.	0	.	.
<b>CASH CROPS</b>		.		.	.		.	.
<b>Total</b>		<b>7,585</b>		<b>2,810</b>	<b>487,327,433</b>		<b>10,395</b>	<b>73</b>



**5.84 Planted Area & Number of Households by Local Seed Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Mkuranga**

Crop	Local Seed							
	Number of Households using Local seed	Planted Area Applied with Local seed	Number of Households not using Local seed	Planted Area Applied with no Local seed	Cost of Local seed	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Insecticide
Maize	11,607	4,990	4,773	2,585	63,325,893	16,380	7,575	66
Paddy	1,953	634	108	93	17,410,634	2,061	727	87
Sorghum	542	212	217	88	1,421,055	759	300	71
Bulrush Millet	0	.	0	.	.	0	.	.
Wheat	108	66	0	.	3,254,324	108	.	.
<b>CEREALS</b>		<b>5,901</b>		<b>2,766</b>	<b>85,411,907</b>		<b>8,667</b>	<b>68</b>
Yam	0	.	0	.	.	0	.	.
Cassava	325	198	0	.	423,062	325	.	.
Sweet Potato	759	226	0	5	6,806,961	759	232	98
Yams	0	.	0	.	.	0	.	.
Coco Yam	0	.	0	.	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		<b>424</b>		<b>5</b>	<b>7,230,023</b>		<b>430</b>	<b>99</b>
Mung Bean	325	121	0	.	45,713,491	325	.	.
Beans	434	75	108	77	2,467,862	542	152	49
Cowpeas	9,980	2,566	1,085	627	28,045,223	11,065	3,193	80
Green gram	976	146	108	78	1,887,508	1,085	224	65
Field Peas	0	.	0	.	.	0	.	.
<b>PULSES</b>		<b>2,908</b>		<b>782</b>	<b>78,114,085</b>		<b>3,689</b>	<b>79</b>
Sunflower	0	.	0	.	.	0	.	.
Simsim	0	.	108	44	.	108	.	.
Groundnut	0	.	217	97	.	217	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		.		<b>141</b>	.		.	.
Okra	217	35	542	132	461,029	759	167	21
Turmeric	0	.	0	.	.	0	.	.
Bitter Aubergine	108	4	217	13	542,387	325	18	25
Onion	0	.	0	.	.	0	.	.
Cabbage	0	.	0	.	.	0	.	.
Tomatoes	108	22	325	42	108,477	434	64	34
Spinach	108	22	217	9	54,239	325	31	71
Carrot	0	.	0	.	.	0	.	.
Chillies	217	105	217	26	1,193,252	434	132	80
Amaranth	108	11	325	24	705,104	434	35	31
Pumpkins	325	52	217	22	325,432	542	74	70
Cucumber	217	26	759	119	1,193,252	976	145	18
Egg Plant	0	.	0	.	.	0	.	.
Water Mellon	217	176	542	307	5,695,067	759	483	36
<b>FRUITS &amp; VEGETABLES</b>		<b>454</b>		<b>694</b>	<b>10,278,240</b>		<b>1,148</b>	<b>40</b>
Cotton	0	.	0	.	.	0	.	.
Jute	0	.	0	.	.	0	.	.
<b>CASH CROPS</b>		.		.	.		.	.
<b>Total</b>		<b>9,686</b>		<b>4,388</b>	<b>181,034,255</b>		<b>14,074</b>	<b>69</b>

**5.85 Planted Area & Number of Households by Local Seed Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Rufiji**

Crop	Local Seed							
	Number of Households using Local seed	Planted Area Applied with Local seed	Number of Households not using Local seed	Planted Area Applied with no Local seed	Cost of Local seed	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Insecticide
Maize	16,070	7,661	1,397	822	87,422,577	17,467	8,483	90
Paddy	9,782	5,745	262	212	216,561,875	10,044	5,957	96
Sorghum	262	71	0	.	1,283,860	262	.	.
Bulrush Millet	0	.	0	.	.	0	.	.
Wheat	0	.	0	.	.	0	.	.
<b>CEREALS</b>		<b>13,476</b>		<b>1,035</b>	<b>305,268,312</b>		<b>14,511</b>	<b>93</b>
Yam	0	.	0	.	.	0	.	.
Cassava	524	164	0	22	16,244,761	524	186	88
Sweet Potato	0	.	0	.	.	0	.	.
Yams	175	140	0	.	1,921,423	175	.	.
Coco Yam	0	.	0	.	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		<b>304</b>		<b>22</b>	<b>18,166,184</b>		<b>326</b>	<b>93</b>
Mung Bean	0	.	0	.	.	0	.	.
Beans	611	203	0	9	1,720,547	611	212	96
Cowpeas	4,454	719	0	97	21,498,107	4,454	816	88
Green gram	87	9	0	.	61,136	87	.	0
Field Peas	0	.	0	.	.	0	.	.
<b>PULSES</b>		<b>931</b>		<b>106</b>	<b>23,279,790</b>		<b>1,037</b>	<b>90</b>
Sunflower	0	.	0	.	.	0	.	0
Simsim	1,397	463	87	71	10,838,574	1,485	534	87
Groundnut	0	.	0	.	.	0	.	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>463</b>		<b>71</b>	<b>10,838,574</b>		<b>534</b>	<b>87</b>
Okra	0	.	0	.	.	0	.	.
Turmeric	0	.	0	.	.	0	.	.
Bitteer Aubergine	0	.	0	.	.	0	.	.
Onion	87	7	0	2	209,610	87	9	75
Cabbage	0	.	0	.	.	0	.	.
Tomatoes	0	.	349	80	.	349	.	.
Spinach	0	.	0	.	.	0	.	.
Carrot	0	.	0	.	.	0	.	.
Chillies	0	.	0	.	.	0	.	.
Amaranth	0	.	87	18	.	87	.	.
Pumpkins	87	18	0	.	1,310,061	87	.	.
Cucumber	0	.	0	.	.	0	.	.
Egg Plant	0	.	0	.	.	0	.	.
Water Mellon	0	.	0	.	.	0	.	.
<b>FRUITS &amp; VEGETABLES</b>		<b>24</b>		<b>99</b>	<b>1,519,671</b>		<b>124</b>	<b>20</b>
Cotton	0	.	0	.	.	0	.	.
Jute	0	.	0	.	.	0	.	.
<b>CASH CROPS</b>		<b>.</b>		<b>.</b>	<b>.</b>		<b>.</b>	<b>.</b>
<b>Total</b>		<b>15,198</b>		<b>1,333</b>	<b>359,072,531</b>		<b>16,531</b>	<b>92</b>

**5.86 Planted Area & Number of Households by Local Seed Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Mafia**

Crop	Local Seed							
	Number of Households using Local seed	Planted Area Applied with Local seed	Number of Households not using Local seed	Planted Area Applied with no Local seed	Cost of Local seed	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Insecticide
Maize	232	79	0	.	2,164,745	232	.	.
Paddy	1,104	353	29	12	20,651,525	1,133	365	97
Sorghum	0	.	0	.	.	0	.	.
Bulrush Millet	0	.	0	.	.	0	.	.
Wheat	0	.	0	.	.	0	.	.
<b>CEREALS</b>		<b>432</b>		<b>12</b>	<b>22,816,270</b>		<b>444</b>	<b>97</b>
Yam	407	53	0	71	138,020,674	407	124	43
Cassava	0	.	0	.	.	0	.	.
Sweet Potato	552	169	29	3	10,341,555	581	172	98
Yams	0	.	0	.	.	0	.	.
Coco Yam	0	.	29	1	.	29	.	.
<b>ROOTS &amp; TUBERS</b>		<b>222</b>		<b>74</b>	<b>148,362,229</b>		<b>296</b>	<b>75</b>
Mung Bean	0	.	0	.	.	0	.	.
Beans	0	.	0	.	.	0	.	.
Cowpeas	58	12	0	.	72,642	58	.	.
Green gram	0	.	0	.	.	0	.	.
Field Peas	0	.	0	.	.	0	.	.
<b>PULSES</b>		<b>12</b>		<b>.</b>	<b>72,642</b>		<b>.</b>	<b>.</b>
Sunflower	0	.	0	.	.	0	.	.
Simsim	0	.	0	.	.	0	.	.
Groundnut	29	3	0	.	23,246	29	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>3</b>		<b>.</b>	<b>23,246</b>		<b>.</b>	<b>.</b>
Okra	0	.	29	9	.	29	.	.
Turmeric	0	.	0	.	.	0	.	.
Bitteer Aubergine	0	.	0	.	.	0	.	.
Onion	0	.	0	.	.	0	.	.
Cabbage	0	.	0	.	.	0	.	.
Tomatoes	87	12	0	.	217,927	87	.	.
Spinach	0	.	0	.	.	0	.	.
Carrot	0	.	0	.	.	0	.	.
Chillies	29	1	29	1	58,114	58	2	33
Amaranths	87	5	0	.	37,774	87	.	.
Pumpkins	29	6	0	.	14,528	29	.	.
Cucumber	0	.	0	.	.	0	.	.
Egg Plant	29	1	29	2	7,264	58	4	33
Water Mellon	0	.	0	.	.	0	.	.
<b>FRUITS &amp; VEGETABLES</b>		<b>25</b>		<b>12</b>	<b>335,608</b>		<b>37</b>	<b>67</b>
Cotton	0	.	0	.	.	0	.	.
Jute	0	.	0	.	.	0	.	.
<b>CASH CROPS</b>		<b>.</b>		<b>.</b>	<b>.</b>		<b>.</b>	<b>.</b>
<b>Total</b>		<b>694</b>		<b>99</b>	<b>171,609,996</b>		<b>792</b>	<b>88</b>

**5.87 Planted Area & Number of Households by Organic Fertilizer Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON – Bagamoyo**

Crop	Organic Fertilizer							
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Cost (Tshs) of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Without Organic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Organic Fertilizer
Maize	332	179	14,955,934	12,297	10,413	12,408	10,592	1.7
Paddy	0	.	.	554	314	554	.	.
Sorghum	0	.	.	111	22	111	.	.
Bulrush Millet	0	.	.	0	.	0	.	.
Wheat	0	.	.	0	.	0	.	.
<b>CEREALS</b>		<b>179</b>	<b>14,955,934</b>		<b>10,749</b>		<b>10,929</b>	<b>1.6</b>
Yam	0	.	.	0	.	0	.	.
Cassava	0	.	.	111	45	111	.	.
Sweet Potato	0	.	.	0	.	0	.	.
Yams	0	.	.	0	.	0	.	.
Coco Yam	0	.	.	0	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		.	.		<b>45</b>		.	.
Mung Bean	0	.	.	0	.	0	.	.
Beans	0	.	.	0	.	0	.	.
Cowpeas	0	.	.	4,099	2,074	4,099	.	.
Green gram	0	.	.	775	366	775	.	.
Field Peas	0	.	.	0	.	0	.	.
<b>PULSES</b>		.	.		<b>2,441</b>		.	.
Sunflower	0	.	.	0	.	0	.	.
Simsim	0	.	.	111	45	111	.	.
Groundnut	0	.	.	0	.	0	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		.	.		<b>45</b>		.	.
Okra	0	.	.	0	.	0	.	.
Turmeric	0	.	.	0	.	0	.	.
Bitteer Aubergine	0	.	.	0	.	0	.	.
Onion	0	.	.	0	.	0	.	.
Cabbage	0	.	.	0	.	0	.	.
Tomatoes	0	.	.	111	45	111	.	.
Spinach	0	.	.	0	.	0	.	.
Carrot	0	.	.	0	.	0	.	.
Chillies	0	.	.	0	.	0	.	.
Amaranths	0	.	.	0	.	0	.	.
Pumpkins	0	.	.	0	.	0	.	.
Cucumber	0	.	.	0	.	0	.	.
Egg Plant	0	.	.	0	.	0	.	.
Water Mellon	0	.	.	0	.	0	.	.
<b>FRUITS &amp; VEGETABLES</b>		.	.		<b>45</b>		.	.
Cotton	0	.	.	0	.	0	.	.
Jute	0	.	.	0	.	0	.	.
<b>CASH CROPS</b>		.	.		.		.	.
<b>Total</b>		<b>179</b>	<b>14,955,934</b>		<b>13,325</b>		<b>13,504</b>	<b>1.3</b>

**5.88 Planted Area & Number of Households by Organic Fertilizer Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Kibaha**

Crop	Organic Fertilizer							
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Cost (Tshs) of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Without Organic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Organic Fertilizer
Maize	632	261	5,477,576	5,190	2,253	5,821	2,514	10.392442
Paddy	0	.	.	812	420	812	.	.
Sorghum	0	.	.	45	18	45	.	.
Bulrush Millet	0	.	.	0	.	0	.	.
Wheat	0	.	.	0	.	0	.	.
<b>CEREALS</b>		<b>261</b>	<b>5,477,576</b>		<b>2,691</b>		<b>2,952</b>	<b>8.84901</b>
Yam	0	.	.	0	.	0	.	.
Cassava	0	.	.	0	.	0	.	.
Sweet Potato	0	.	.	0	.	0	.	.
Yams	0	.	.	0	.	0	.	.
Coco Yam	0	.	.	0	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		.	.		.		.	.
Mung Bean	0	.	.	45	9	45	.	.
Beans	0	.	.	90	8	90	.	.
Cowpeas	0	.	.	5,415	1,044	5,415	.	.
Green gram	0	.	.	181	44	181	.	.
Field Peas	0	.	.	0	.	0	.	.
<b>PULSES</b>		.	.		<b>1,106</b>		.	.
Sunflower	0	.	.	0	.	0	.	.
Simsim	0	.	.	45	9	45	.	.
Groundnut	0	.	.	0	.	0	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		.	.		<b>9</b>		.	.
Okra	0	.	.	587	163	587	.	.
Turmeric	0	.	.	0	.	0	.	.
Bitteer Aubergine	0	.	.	0	.	0	.	.
Onion	0	.	.	0	.	0	.	.
Cabbage	0	.	.	0	.	0	.	.
Tomatoes	0	.	.	271	103	271	.	.
Spinach	0	.	.	90	18	90	.	.
Carrot	0	.	.	0	.	0	.	.
Chillies	0	.	.	0	.	0	.	.
Amaranths	45	9	2,030,738	45	5	90	14	67
Pumpkins	0	.	.	45	5	45	.	.
Cucumber	0	.	.	0	.	0	.	.
Egg Plant	0	.	.	0	.	0	.	.
Water Mellon	0	.	.	0	.	0	.	.
<b>FRUITS &amp; VEGETABLES</b>		<b>9</b>	<b>2,030,738</b>	<b>1,038</b>	<b>293</b>		<b>302</b>	<b>3</b>
Cotton	0	.	.	0	.	0	.	.
Jute	0	.	.	0	.	0	.	.
<b>CASH CROPS</b>		.	.		.		.	.
<b>Total</b>		<b>270</b>	<b>7,508,314</b>		<b>4,099</b>		<b>4,370</b>	<b>6.2</b>

**5.89 Planted Area & Number of Households by Organic Fertilizer Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Kisarawe**

Crop	Organic Fertilizer							
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Cost (Tshs) of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Without Organic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Organic Fertilizer
Maize	173	105	6,747,327	13,149	6,224	13,322	6,329	2
Paddy	58	12	346,017	1,961	1,173	2,018	1,185	1
Sorghum	0	.	.	1,211	363	1,211	.	.
Bulrush Millet	0	.	.	0	.	0	.	.
Wheat	0	.	.	0	.	0	.	.
<b>CEREALS</b>		<b>117</b>	<b>7,093,344</b>		<b>7,760</b>		<b>7,877</b>	<b>1</b>
Yam	0	.	.	0	.	0	.	.
Cassava	0	.	.	0	.	0	.	.
Sweet Potato	0	.	.	231	37	231	.	.
Yams	0	.	.	0	.	0	.	.
Coco Yam	0	.	.	0	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		.	.		<b>37</b>		.	.
Mung Bean	0	.	.	58	23	58	.	.
Beans	0	.	.	692	131	692	.	.
Cowpeas	173	82	7,612,369	7,958	1,823	8,131	1,904	4.3
Green gram	0	.	.	346	72	346	.	.
Field Peas	0	.	.	0	.	0	.	.
<b>PULSES</b>		<b>82</b>	<b>7,612,369</b>		<b>2,049</b>		<b>2,131</b>	<b>3.8</b>
Sunflower	0	.	.	58	12	58	.	.
Simsim	0	.	.	288	117	288	.	.
Groundnut	0	.	.	173	35	173	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		.	.		<b>163</b>		.	.
Okra	0	.	.	519	96	519	.	.
Turmeric	0	.	.	0	.	0	.	.
Bitteer Aubergine	0	.	.	0	.	0	.	.
Onion	0	.	.	0	.	0	.	.
Cabbage	0	.	.	0	.	0	.	.
Tomatoes	0	.	.	115	35	115	.	.
Spinach	0	.	.	0	.	0	.	.
Carrot	0	.	.	0	.	0	.	.
Chillies	0	.	.	58	35	58	.	.
Amaranths	0	.	.	58	6	58	.	.
Pumpkins	0	.	.	115	9	115	.	.
Cucumber	0	.	.	0	.	0	.	.
Egg Plant	0	.	.	0	.	0	.	.
Water Mellon	0	.	.	115	6	115	.	.
<b>FRUITS &amp; VEGETABLES</b>		.	.		<b>187</b>		.	.
Cotton	0	.	.	0	.	0	.	.
Jute	0	.	.	0	.	0	.	.
<b>CASH CROPS</b>		.	.		.		.	.
<b>Total</b>		<b>198</b>	<b>14,705,713</b>		<b>10,196</b>		<b>10,395</b>	<b>1.9</b>

**5.90 Planted Area & Number of Households by Organic Fertilizer Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON – Mkuranga**

Crop	Organic Fertilizer							
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Cost (Tshs) of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Without Organic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Organic Fertilizer
Maize	325	61	634,593	16,163	7,513	16,380	7,575	0.8
Paddy	0	.	.	2,061	727	2,061	.	.
Sorghum	0	.	.	759	300	759	.	.
Bulrush Millet	0	.	.	0	.	0	.	.
Wheat	0	.	.	108	66	108	.	.
<b>CEREALS</b>		<b>61</b>	<b>634,593</b>		<b>8,606</b>		<b>8,667</b>	<b>1</b>
Yam	0	.	.	0	.	0	.	.
Cassava	0	.	.	325	198	325	.	.
Sweet Potato	108	44	162,716	651	188	759	232	19
Yams	0	.	.	0	.	0	.	.
Coco Yam	0	.	.	0	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		<b>44</b>	<b>162,716</b>		<b>386</b>		<b>430</b>	<b>10</b>
Mung Bean	0	.	.	325	121	325	.	.
Beans	0	.	.	542	152	542	.	.
Cowpeas	108	9	21,695	10,956	3,184	11,065	3,193	0
Green gram	0	.	.	1,085	224	1,085	.	.
Field Peas	0	.	.	0	.	0	.	.
<b>PULSES</b>		<b>9</b>	<b>21,695</b>		<b>3,680</b>		<b>3,689</b>	<b>0</b>
Sunflower	0	.	.	0	.	0	.	.
Simsim	0	.	.	108	44	108	.	.
Groundnut	0	.	.	217	97	217	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		.	.		<b>141</b>		.	.
Okra	434	44	4,203,502	325	123	759	167	26
Turmeric	0	.	.	0	.	0	.	.
Bitteer Aubergine	217	13	298,313	108	4	325	18	75
Onion	0	.	.	0	.	0	.	.
Cabbage	0	.	.	0	.	0	.	.
Tomatoes	325	31	352,552	217	33	434	64	48
Spinach	325	31	1,735,640	0	.	325	.	.
Carrot	0	.	.	0	.	0	.	.
Chillies	217	22	4,067,905	217	110	434	132	17
Amaranths	325	19	1,355,968	217	16	434	35	53
Pumpkins	0	.	.	542	74	542	.	.
Cucumber	325	57	4,610,293	651	88	976	145	39
Egg Plant	0	.	.	0	.	0	.	.
Water Mellon	217	176	10,847,747	542	307	759	483	36
<b>FRUITS &amp; VEGETABLES</b>		<b>392</b>	<b>27,471,920</b>		<b>756</b>		<b>1,148</b>	<b>34</b>
Cotton	0	.	.	0	.	0	.	.
Jute	0	.	.	0	.	0	.	.
<b>CASH CROPS</b>		.	.		.		.	.
<b>Total</b>		<b>507</b>	<b>28,290,925</b>		<b>13,567</b>		<b>14,074</b>	<b>4</b>

**5.91 Planted Area & Number of Households by Organic Fertilizer Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Rufiji**

Crop	Organic Fertilizer							
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Cost (Tshs) of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Without Organic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Organic Fertilizer
Maize	262	156	2,270,773	17,205	8,327	17,467	8,483	2
Paddy	0	.	.	10,044	5,957	10,044	.	.
Sorghum	87	35	69,870	175	35	262	71	50
Bulrush Millet	0	.	.	0	.	0	.	.
Wheat	0	.	.	0	.	0	.	.
<b>CEREALS</b>		<b>191</b>	<b>2,340,643</b>		<b>14,320</b>		<b>14,511</b>	<b>1</b>
Yam	0	.	.	0	.	0	.	.
Cassava	0	.	.	524	186	524	.	.
Sweet Potato	0	.	.	0	.	0	.	.
Yams	0	.	.	175	140	175	.	.
Coco Yam	0	.	.	0	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		.	.		<b>326</b>		.	.
Mung Bean	0	.	.	0	.	0	.	.
Beans	0	.	.	611	212	611	.	.
Cowpeas	0	.	.	4,454	816	4,454	.	.
Green gram	0	.	.	87	9	87	.	.
Field Peas	0	.	.	0	.	0	.	.
<b>PULSES</b>	0	.	.	5,153	1,037	5,153	.	.
Sunflower	0	.	.	0	.	0	.	.
Simsim	0	.	.	1,485	534	1,485	.	.
Groundnut	0	.	.	0	.	0	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		.	.		<b>534</b>		.	.
Okra	0	.	.	0	.	0	.	.
Turmeric	0	.	.	0	.	0	.	.
Bitteer Aubergine	0	.	.	0	.	0	.	.
Onion	0	.	.	87	9	87	.	.
Cabbage	0	.	.	0	.	0	.	.
Tomatoes	0	.	.	349	80	349	.	.
Spinach	0	.	.	0	.	0	.	.
Carrot	0	.	.	0	.	0	.	.
Chillies	0	.	.	0	.	0	.	.
Amaranths	87	18	0	0	.	87	.	.
Pumpkins	0	.	.	87	18	87	.	.
Cucumber	0	.	.	0	.	0	.	.
Egg Plant	0	.	.	0	.	0	.	.
Water Mellon	0	.	.	0	.	0	.	.
<b>FRUITS &amp; VEGETABLES</b>		<b>18</b>	<b>0</b>		<b>106</b>		<b>124</b>	<b>14</b>
Cotton	0	.	.	0	.	0	.	.
Jute	0	.	.	0	.	0	.	.
<b>CASH CROPS</b>		.	.		.		.	.
<b>Total</b>		<b>209</b>	<b>2,340,643</b>		<b>16,323</b>		<b>16,531</b>	<b>1</b>



**5.91 Planted Area & Number of Households by Organic Fertilizer Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON – Mafia**

Crop	Organic Fertilizer							
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Cost (Tshs) of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Without Organic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Organic Fertilizer
Maize	0	.	.	232	79	232	.	.
Paddy	0	.	.	1,133	365	1,133	.	.
Sorghum	0	.	.	0	.	0	.	.
Bulrush Millet	0	.	.	0	.	0	.	.
Wheat	0	.	.	0	.	0	.	.
<b>CEREALS</b>		.	.		<b>444</b>		.	.
Yam	0	.	.	407	124	407	.	.
Cassava	0	.	.	0	.	0	.	.
Sweet Potato	29	9	116,228	552	163	581	172	5
Yams	0	.	.	0	.	0	.	.
Coco Yam	0	.	.	29	1	29	.	.
<b>ROOTS &amp; TUBERS</b>		<b>9</b>	<b>116,228</b>		<b>288</b>		<b>296</b>	<b>3</b>
Mung Bean	0	.	.	0	.	0	.	.
Beans	0	.	.	0	.	0	.	.
Cowpeas	0	.	.	58	12	58	.	.
Green gram	0	.	.	0	.	0	.	.
Field Peas	0	.	.	0	.	0	.	.
<b>PULSES</b>		.	.		<b>12</b>		.	.
Sunflower	0	.	.	0	.	0	.	.
Simsim	0	.	.	0	.	0	.	.
Groundnut	0	.	.	29	3	29	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		.	.		<b>3</b>		.	.
Okra	0	.	.	29	9	29	.	.
Turmeric	0	.	.	0	.	0	.	.
Bitteer Aubergine	0	.	.	0	.	0	.	.
Onion	0	.	.	0	.	0	.	.
Cabbage	0	.	.	0	.	0	.	.
Tomatoes	0	.	.	87	12	87	.	.
Spinach	0	.	.	0	.	0	.	.
Carrot	0	.	.	0	.	0	.	.
Chillies	0	.	.	58	2	58	.	.
Amaranth	29	3	29,057	58	2	87	5	56
Pumpkins	0	.	.	29	6	29	.	.
Cucumber	0	.	.	0	.	0	.	.
Egg Plant	0	.	.	58	4	58	.	.
Water Mellon	0	.	.	0	.	0	.	.
<b>FRUITS &amp; VEGETABLES</b>		<b>3</b>	<b>29,057</b>		<b>34</b>		<b>37</b>	<b>8</b>
Cotton	0	.	.	0	.	0	.	.
Jute	0	.	.	0	.	0	.	.
<b>CASH CROPS</b>		.	.		.		.	.
<b>Total</b>		<b>12</b>	<b>145,285</b>		<b>781</b>		<b>792</b>	<b>1.5</b>

**5.92 Planted Area & Number of Households by Organic Fertilizer Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Pwani Region**

Crop	Organic Fertilizer							
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Cost (Tshs) of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Without Organic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Organic Fertilizer
Maize	1,725	763	30,086,204	64,236	34,810	65,631	35,573	2.1
Paddy	58	12	346,017	16,565	8,956	16,623	8,968	0.1
Sorghum	87	35	69,870	2,301	738	2,388	774	4.6
Bulrush Millet	0	.	.	0	.	0	.	.
Wheat	0	.	.	108	66	108	.	.
<b>CEREALS</b>		<b>810</b>	<b>30,502,090</b>		<b>44,570</b>		<b>45,380</b>	<b>1.8</b>
Yam	0	.	.	407	124	407	.	.
Cassava	0	.	.	960	428	960	.	.
Sweet Potato	138	53	278,944	1,434	388	1,571	440	12.0
Yams	0	.	.	175	140	175	.	.
Coco Yam	0	.	.	29	1	29	.	.
<b>ROOTS &amp; TUBERS</b>		<b>53</b>	<b>278,944</b>		<b>1,081</b>		<b>1,133</b>	<b>4.7</b>
Mung Bean	0	.	.	428	153	428	.	.
Beans	0	.	.	1,936	503	1,936	.	.
Cowpeas	281	91	7,634,065	32,941	8,953	33,223	9,044	1.0
Green gram	0	.	.	2,474	715	2,474	.	.
Field Peas	0	.	.	0	.	0	.	.
<b>PULSES</b>		<b>91</b>	<b>7,634,065</b>		<b>10,325</b>		<b>10,415</b>	<b>0.9</b>
Sunflower	0	.	.	58	12	58	.	.
Simsim	0	.	.	2,037	748	2,037	.	.
Groundnut	0	.	.	419	135	419	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		.	.		<b>894</b>		.	.
Okra	434	44	4,203,502	1,460	391	1,894	435	10.1
Turmeric	0	.	.	0	.	0	.	.
Bitteer Aubergine	217	13	298,313	108	4	325	18	75.0
Onion	0	.	.	87	9	87	.	.
Cabbage	0	.	.	0	.	0	.	.
Tomatoes	325	31	352,552	1,150	307	1,367	338	9.1
Spinach	325	31	1,735,640	90	18	416	49	62.7
Carrot	0	.	.	0	.	0	.	.
Chillies	217	22	4,067,905	333	147	550	169	13.0
Amaranths	487	48	3,415,763	378	29	756	78	62.4
Pumpkins	0	.	.	819	111	819	.	.
Cucumber	325	57	4,610,293	651	88	976	145	39.4
Egg Plant	0	.	.	58	4	58	.	.
Water Mellon	217	176	10,847,747	658	313	875	489	35.9
<b>FRUITS &amp; VEGETABLES</b>		<b>422</b>	<b>29,531,714</b>		<b>1,421</b>		<b>1,842</b>	<b>22.9</b>
Cotton	0	.	.	0	.	0	.	.
Jute	0	.	.	0	.	0	.	.
<b>CASH CROPS</b>		.	.		.		.	.
<b>Total</b>		<b>1,375</b>	<b>67,946,813</b>		<b>58,291</b>		<b>59,666</b>	<b>2.3</b>

**5.93 Planted Area & Number of Households by Inorganic Fertilizer Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Bagamoyo**

Crop	Inorganic Fertilizer							
	Number of Households using Inorganic Fertilizer	Planted Area Applied with Inorganic Fertilizer	Cost (Tshs) of Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area Without Inorganic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Inorganic Fertilizer
Maize	222	135	13,300,811	12,297	10,458	12,408	10,592	1.3
Paddy	0	.	.	554	314	554	.	.
Sorghum	0	.	.	111	22	111	.	.
Bulrush Millet	0	.	.	0	.	0	.	.
Wheat	0	.	.	0	.	0	.	.
<b>CEREALS</b>		<b>135</b>	<b>13,300,811</b>		<b>10,794</b>		<b>10,929</b>	<b>1.2</b>
Yam	0	.	.	0	.	0	.	.
Cassava	0	.	.	111	45	111	.	.
Sweet Potato	0	.	.	0	.	0	.	.
Yams	0	.	.	0	.	0	.	.
Coco Yam	0	.	.	0	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		.	.		<b>45</b>		.	.
Mung Bean	0	.	.	0	.	0	.	.
Beans	0	.	.	0	.	0	.	.
Cowpeas	0	.	.	4,099	2,074	4,099	.	.
Green gram	0	.	.	775	366	775	.	.
Field Peas	0	.	.	0	.	0	.	.
<b>PULSES</b>		.	.		<b>2,441</b>		.	.
Sunflower	0	.	.	0	.	0	.	.
Simsim	0	.	.	111	45	111	.	.
Groundnut	0	.	.	0	.	0	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		.	.		<b>45</b>		.	.
Okra	0	.	.	0	.	0	.	.
Turmeric	0	.	.	0	.	0	.	.
Bitteer Aubergine	0	.	.	0	.	0	.	.
Onion	0	.	.	0	.	0	.	.
Cabbage	0	.	.	0	.	0	.	.
Tomatoes	0	.	.	111	45	111	.	.
Spinach	0	.	.	0	.	0	.	.
Carrot	0	.	.	0	.	0	.	.
Chillies	0	.	.	0	.	0	.	.
Amaranths	0	.	.	0	.	0	.	.
Pumpkins	0	.	.	0	.	0	.	.
Cucumber	0	.	.	0	.	0	.	.
Egg Plant	0	.	.	0	.	0	.	.
Water Mellon	0	.	.	0	.	0	.	.
<b>FRUITS &amp; VEGETABLES</b>		.	.		<b>45</b>		.	.
Cotton	0	.	.	0	.	0	.	.
Jute	0	.	.	0	.	0	.	.
<b>CASH CROPS</b>		.	.		.		.	.
<b>Total</b>		<b>135</b>	<b>13,300,811</b>		<b>13,370</b>		<b>13,504</b>	<b>1.0</b>

**5.94 Planted Area & Number of Households by Inorganic Fertilizer Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Kibaha**

Crop	Inorganic Fertilizer							
	Number of Households using Inorganic Fertilizer	Planted Area Applied with Inorganic Fertilizer	Cost (Tshs) of Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area Without Inorganic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Inorganic Fertilizer
Maize	45	55	866,448	5,776	2,459	5,821	2,514	2.2
Paddy	0	.	.	812	420	812	.	.
Sorghum	0	.	.	45	18	45	.	.
Bulrush Millet	0	.	.	0	.	0	.	.
Wheat	0	.	.	0	.	0	.	.
<b>CEREALS</b>		<b>55</b>	<b>866,448</b>		<b>2,898</b>		<b>2,952</b>	<b>1.9</b>
Yam	0	.	.	0	.	0	.	.
Cassava	0	.	.	0	.	0	.	.
Sweet Potato	0	.	.	0	.	0	.	.
Yams	0	.	.	0	.	0	.	.
Coco Yam	0	.	.	0	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		.	.		.		.	.
Mung Bean	0	.	.	45	9	45	.	.
Beans	0	.	.	90	8	90	.	.
Cowpeas	0	.	.	5,415	1,044	5,415	.	.
Green gram	0	.	.	181	44	181	.	.
Field Peas	0	.	.	0	.	0	.	.
<b>PULSES</b>	0	.	.	5,731	1,106	5,731	.	.
Sunflower	0	.	.	0	.	0	.	.
Simsim	0	.	.	45	9	45	.	.
Groundnut	0	.	.	0	.	0	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		.	.		<b>9</b>		.	.
Okra	0	.	.	587	163	587	.	.
Turmeric	0	.	.	0	.	0	.	.
Bitteer Aubergine	0	.	.	0	.	0	.	.
Onion	0	.	.	0	.	0	.	.
Cabbage	0	.	.	0	.	0	.	.
Tomatoes	0	.	.	271	103	271	.	.
Spinach	45	9	451,275	45	9	90	18	50.0
Carrot	0	.	.	0	.	0	.	.
Chillies	0	.	.	0	.	0	.	.
Amaranths	0	.	.	90	14	90	.	.
Pumpkins	0	.	.	45	5	45	.	.
Cucumber	0	.	.	0	.	0	.	.
Egg Plant	0	.	.	0	.	0	.	.
Water Mellon	0	.	.	0	.	0	.	.
<b>FRUITS &amp; VEGETABLES</b>		<b>9</b>	<b>451,275</b>		<b>293</b>		<b>302</b>	<b>3.0</b>
Cotton	0	.	.	0	.	0	.	.
Jute	0	.	.	0	.	0	.	.
<b>CASH CROPS</b>		.	.		.		.	.
<b>Total</b>		<b>64</b>	<b>1,317,723</b>		<b>4,306</b>		<b>4,370</b>	<b>1.5</b>

**5.95 Planted Area & Number of Households by Inorganic Fertilizer Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON – Kisarawe**

Crop	Inorganic Fertilizer							
	Number of Households using Inorganic Fertilizer	Planted Area Applied with Inorganic Fertilizer	Cost (Tshs) of Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area Without Inorganic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Inorganic Fertilizer
Maize	0	.	.	13,322	6,329	13,322	.	.
Paddy	0	.	.	2,018	1,185	2,018	.	.
Sorghum	0	.	.	1,211	363	1,211	.	.
Bulrush Millet	0	.	.	0	.	0	.	.
Wheat	0	.	.	0	.	0	.	.
<b>CEREALS</b>		.	.		<b>7,877</b>		.	.
Yam	0	.	.	0	.	0	.	.
Cassava	0	.	.	0	.	0	.	.
Sweet Potato	0	.	.	231	37	231	.	.
Yams	0	.	.	0	.	0	.	.
Coco Yam	0	.	.	0	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		.	.		<b>37</b>		.	.
Mung Bean	0	.	.	58	23	58	.	.
Beans	0	.	.	692	131	692	.	.
Cowpeas	0	.	.	8,131	1,904	8,131	.	.
Green gram	0	.	.	346	72	346	.	.
Field Peas	0	.	.	0	.	0	.	.
<b>PULSES</b>		.	.		<b>2,131</b>		.	.
Sunflower	0	.	.	58	12	58	.	.
Simsim	0	.	.	288	117	288	.	.
Groundnut	0	.	.	173	35	173	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		.	.		<b>163</b>		.	.
Okra	0	.	.	519	96	519	.	.
Turmeric	0	.	.	0	.	0	.	.
Bitter Aubergine	0	.	.	0	.	0	.	.
Onion	0	.	.	0	.	0	.	.
Cabbage	0	.	.	0	.	0	.	.
Tomatoes	58	12	173,008	58	23	115	35	33.3
Spinach	0	.	.	0	.	0	.	.
Carrot	0	.	.	0	.	0	.	.
Chillies	0	.	.	58	35	58	.	.
Amaranths	0	.	.	58	6	58	.	.
Pumpkins	0	.	.	115	9	115	.	.
Cucumber	0	.	.	0	.	0	.	.
Egg Plant	0	.	.	0	.	0	.	.
Water Mellon	0	.	.	115	6	115	.	.
<b>FRUITS &amp; VEGETABLES</b>		<b>12</b>	<b>173,008</b>		<b>175</b>		<b>187</b>	<b>6.3</b>
Cotton	0	.	.	0	.	0	.	.
Jute	0	.	.	0	.	0	.	.
<b>CASH CROPS</b>		.	.		.		.	.
<b>Total</b>		<b>12</b>	<b>173,008</b>		<b>10,383</b>		<b>10,395</b>	<b>0.1</b>

**5.96 Planted Area & Number of Households by Inorganic Fertilizer Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Mkuranga**

Crop	Inorganic Fertilizer							
	Number of Households using Inorganic Fertilizer	Planted Area Applied with Inorganic Fertilizer	Cost (Tshs) of Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area Without Inorganic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Inorganic Fertilizer
Maize	0	.	.	16,380	7,575	16,380	.	.
Paddy	0	.	.	2,061	727	2,061	.	.
Sorghum	0	.	.	759	300	759	.	.
Bulrush Millet	0	.	.	0	.	0	.	.
Wheat	0	.	.	108	66	108	.	.
<b>CEREALS</b>		.	.		<b>8,667</b>		.	.
Yam	0	.	.	0	.	0	.	.
Cassava	0	.	.	325	198	325	.	.
Sweet Potato	0	.	.	759	232	759	.	.
Yams	0	.	.	0	.	0	.	.
Coco Yam	0	.	.	0	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		.	.		<b>430</b>		.	.
Mung Bean	0	.	.	325	121	325	.	.
Beans	0	.	.	542	152	542	.	.
Cowpeas	0	.	.	11,065	3,193	11,065	.	.
Green gram	0	.	.	1,085	224	1,085	.	.
Field Peas	0	.	.	0	.	0	.	.
<b>PULSES</b>		.	.		<b>3,689</b>		.	.
Sunflower	0	.	.	0	.	0	.	.
Simsim	108	33	379,671	108	11	108	44	75
Groundnut	108	66	227,803	217	31	217	97	68
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>99</b>	<b>607,474</b>		<b>42</b>		<b>141</b>	<b>70</b>
Okra	0	.	.	759	167	759	.	.
Turmeric	0	.	.	0	.	0	.	.
Bitter Aubergine	0	.	.	325	18	325	.	.
Onion	0	.	.	0	.	0	.	.
Cabbage	0	.	.	0	.	0	.	.
Tomatoes	108	22	13,017,297	325	42	434	64	34
Spinach	0	.	.	325	31	325	.	.
Carrot	0	.	.	0	.	0	.	.
Chillies	108	22	19,525,945	325	110	434	132	17
Amaranths	108	11	6,508,648	325	24	434	35	31
Pumpkins	0	.	.	542	74	542	.	.
Cucumber	108	22	19,525,945	868	123	976	145	15
Egg Plant	0	.	.	0	.	0	.	.
Water Mellon	108	44	19,525,945	651	439	759	483	9
<b>FRUITS &amp; VEGETABLES</b>		<b>121</b>	<b>78,103,779</b>		<b>1,027</b>		<b>1,148</b>	<b>11</b>
Cotton	0	.	.	0	.	0	.	.
Jute	0	.	.	0	.	0	.	.
<b>CASH CROPS</b>		.	.		.		.	.
<b>Total</b>		<b>220</b>	<b>78,711,253</b>		<b>13,854</b>		<b>14,074</b>	<b>2</b>

**5.97 Planted Area & Number of Households by Inorganic Fertilizer Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Rufiji**

Crop	Inorganic Fertilizer							
	Number of Households using Inorganic Fertilizer	Planted Area Applied with Inorganic Fertilizer	Cost (Tshs) of Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area Without Inorganic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Inorganic Fertilizer
Maize	262	183	1,650,677	17,205	8,300	17,467	8,483	2.2
Paddy	262	95	3,790,444	9,782	5,862	10,044	5,957	1.6
Sorghum	0	.	.	262	71	262	.	.
Bulrush Millet	0	.	.	0	.	0	.	.
Wheat	0	.	.	0	.	0	.	.
<b>CEREALS</b>		<b>279</b>	<b>5,441,121</b>		<b>14,232</b>		<b>14,511</b>	<b>1.9</b>
Yam	0	.	.	0	.	0	.	.
Cassava	0	.	.	524	186	524	.	.
Sweet Potato	0	.	.	0	.	0	.	.
Yams	0	.	.	175	140	175	.	.
Coco Yam	0	.	.	0	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		.	.		<b>326</b>		.	.
Mung Bean	0	.	.	0	.	0	.	.
Beans	0	.	.	611	212	611	.	.
Cowpeas	0	.	.	4,454	816	4,454	.	.
Green gram	0	.	.	87	9	87	.	.
Field Peas	0	.	.	0	.	0	.	.
<b>PULSES</b>		.	.		<b>1,037</b>		.	.
Sunflower	0	.	.	0	.	0	.	.
Simsim	0	.	.	1,485	534	1,485	.	.
Groundnut	0	.	.	0	.	0	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		.	.		<b>534</b>		.	.
Okra	0	.	.	0	.	0	.	.
Turmeric	0	.	.	0	.	0	.	.
Bitter Aubergine	0	.	.	0	.	0	.	.
Onion	0	.	.	87	9	87	.	.
Cabbage	0	.	.	0	.	0	.	.
Tomatoes	349	80	3,912,717	0	.	349	.	.
Spinach	0	.	.	0	.	0	.	.
Carrot	0	.	.	0	.	0	.	.
Chillies	0	.	.	0	.	0	.	.
Amaranths	0	.	.	87	18	87	.	.
Pumpkins	0	.	.	87	18	87	.	.
Cucumber	0	.	.	0	.	0	.	.
Egg Plant	0	.	.	0	.	0	.	.
Water Mellon	0	.	.	0	.	0	.	.
<b>FRUITS &amp; VEGETABLES</b>		<b>80</b>	<b>3,912,717</b>		<b>44</b>		<b>124</b>	<b>64.3</b>
Cotton	0	.	.	0	.	0	.	.
Jute	0	.	.	0	.	0	.	.
<b>CASH CROPS</b>		.	.		.		.	.
<b>Total</b>		<b>358</b>	<b>9,353,838</b>		<b>16,173</b>		<b>16,531</b>	<b>2.2</b>

**5.98 Planted Area & Number of Households by Inorganic Fertilizer Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Mafia**

Crop	Inorganic Fertilizer							
	Number of Households using Inorganic Fertilizer	Planted Area Applied with Inorganic Fertilizer	Cost (Tshs) of Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area Without Inorganic Fertilizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Inorganic Fertilizer
Maize	0	.	.	232	79	232	.	.
Paddy	29	12	726,425	1,104	353	1,133	365	3.2
Sorghum	0	.	.	0	.	0	.	.
Bulrush Millet	0	.	.	0	.	0	.	.
Wheat	0	.	.	0	.	0	.	.
<b>CEREALS</b>		<b>12</b>	<b>726,425</b>		<b>432</b>		<b>444</b>	<b>2.6</b>
Yam	0	.	.	407	124	407	.	.
Cassava	0	.	.	0	.	0	.	.
Sweet Potato	0	.	.	581	172	581	.	.
Yams	0	.	.	0	.	0	.	.
Coco Yam	0	.	.	29	1	29	.	.
<b>ROOTS &amp; TUBERS</b>		.	.		<b>296</b>		.	.
Mung Bean	0	.	.	0	.	0	.	.
Beans	0	.	.	0	.	0	.	.
Cowpeas	0	.	.	58	12	58	.	.
Green gram	0	.	.	0	.	0	.	.
Field Peas	0	.	.	0	.	0	.	.
<b>PULSES</b>	0	.	.	58	12	58	.	.
Sunflower	0	.	.	0	.	0	.	.
Simsim	0	.	.	0	.	0	.	.
Groundnut	0	.	.	29	3	29	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		.	.		<b>3</b>		.	.
Okra	0	.	.	29	9	29	.	.
Turmeric	0	.	.	0	.	0	.	.
Bitter Aubergine	0	.	.	0	.	0	.	.
Onion	0	.	.	0	.	0	.	.
Cabbage	0	.	.	0	.	0	.	.
Tomatoes	0	.	.	87	12	87	.	.
Spinach	0	.	.	0	.	0	.	.
Carrot	0	.	.	0	.	0	.	.
Chillies	0	.	.	58	2	58	.	.
Amaranth	0	.	.	87	5	87	.	.
Pumpkins	0	.	.	29	6	29	.	.
Cucumber	0	.	.	0	.	0	.	.
Egg Plant	0	.	.	58	4	58	.	.
Water Mellon	0	.	.	0	.	0	.	.
<b>FRUITS &amp; VEGETABLES</b>		.	.		<b>37</b>		.	.
Cotton	0	.	.	0	.	0	.	.
Jute	0	.	.	0	.	0	.	.
<b>CASH CROPS</b>		.	.		.		.	.
<b>Total</b>		<b>12</b>	<b>726,425</b>		<b>781</b>		<b>792</b>	<b>1.5</b>



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

Crop	Herbicide							
	Number of Households using Herbicide	Planted Area Applied with Herbicide	Cost of Herbicide	Number of Households NOT using Herbicide	Planted Area Without Herbicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Herbicide
Maize	0	.	.	12,408	10,592	12,408	.	.
Paddy	0	.	.	554	314	554	.	.
Sorghum	0	.	.	111	22	111	.	.
Bulrush Millet	0	.	.	0	.	0	.	.
Wheat	0	.	.	0	.	0	.	.
<b>CEREALS</b>		.	.		<b>10,929</b>		.	.
Yam	0	.	.	0	.	0	.	.
Cassava	0	.	.	111	45	111	.	.
Sweet Potato	0	.	.	0	.	0	.	.
Yams	0	.	.	0	.	0	.	.
Coco Yam	0	.	.	0	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		.	.		<b>45</b>		.	.
Mung Bean	0	.	.	0	.	0	.	.
Beans	0	.	.	0	.	0	.	.
Cowpeas	0	.	.	4,099	2,074	4,099	.	.
Green gram	0	.	.	775	366	775	.	.
Field Peas	0	.	.	0	.	0	.	.
<b>PULSES</b>		.	.		<b>2,441</b>		.	.
Sunflower	0	.	.	0	.	0	.	.
Simsim	0	.	.	111	45	111	.	.
Groundnut	0	.	.	0	.	0	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		.	.		<b>45</b>		.	.
Okra	0	.	.	0	.	0	.	.
Turmeric	0	.	.	0	.	0	.	.
Bitter Aubergine	0	.	.	0	.	0	.	.
Onion	0	.	.	0	.	0	.	.
Cabbage	0	.	.	0	.	0	.	.
Tomatoes	0	.	.	111	45	111	.	.
Spinach	0	.	.	0	.	0	.	.
Carrot	0	.	.	0	.	0	.	.
Chillies	0	.	.	0	.	0	.	.
Amaranth	0	.	.	0	.	0	.	.
Pumpkins	0	.	.	0	.	0	.	.
Cucumber	0	.	.	0	.	0	.	.
Egg Plant	0	.	.	0	.	0	.	.
Water Mellon	0	.	.	0	.	0	.	.
<b>FRUITS &amp; VEGETABLES</b>		.	.		<b>45</b>		.	.
Cotton	0	.	.	0	.	0	.	.
Jute	0	.	.	0	.	0	.	.
<b>CASH CROPS</b>		.	.		.		.	.
<b>Total</b>		.	.		<b>13,504</b>		.	.

**5.100 Planted Area & Number of Households by Herbicide Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Kibaha**

Crop	Herbicide							
	Number of Households using Herbicide	Planted Area Applied with Herbicide	Cost of Herbicide	Number of Households NOT using Herbicide	Planted Area Without Herbicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Herbicide
Maize	45	55	2,030,738	5,776	2,459	5,821	2,514	2.2
Paddy	0	.	.	812	420	812	.	.
Sorghum	0	.	.	45	18	45	.	.
Bulrush Millet	0	.	.	0	.	0	.	.
Wheat	0	.	.	0	.	0	.	.
<b>CEREALS</b>		<b>55</b>	<b>2,030,738</b>		<b>2,898</b>		<b>2,952</b>	<b>1.9</b>
Yam	0	.	.	0	.	0	.	.
Cassava	0	.	.	0	.	0	.	.
Sweet Potato	0	.	.	0	.	0	.	.
Yams	0	.	.	0	.	0	.	.
Coco Yam	0	.	.	0	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		.	.		.		.	.
Mung Bean	0	.	.	45	9	45	.	.
Beans	0	.	.	90	8	90	.	.
Cowpeas	45	4	.	5,415	1,040	5,415	1,044	0.4
Green gram	0	.	.	181	44	181	.	.
Field Peas	0	.	.	0	.	0	.	.
<b>PULSES</b>		<b>4</b>	.		<b>1,102</b>		<b>1,106</b>	<b>0.4</b>
Sunflower	0	.	.	0	.	0	.	.
Simsim	0	.	.	45	9	45	.	.
Groundnut	0	.	.	0	.	0	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		.	.		<b>9</b>		.	.
Okra	0	.	.	587	163	587	.	.
Turmeric	0	.	.	0	.	0	.	.
Bitter Aubergine	0	.	.	0	.	0	.	.
Onion	0	.	.	0	.	0	.	.
Cabbage	0	.	.	0	.	0	.	.
Tomatoes	0	.	.	271	103	271	.	.
Spinach	0	.	.	90	18	90	.	.
Carrot	0	.	.	0	.	0	.	.
Chillies	0	.	.	0	.	0	.	.
Amaranths	0	.	.	90	14	90	.	.
Pumpkins	0	.	.	45	5	45	.	.
Cucumber	0	.	.	0	.	0	.	.
Egg Plant	0	.	.	0	.	0	.	.
Water Mellon	0	.	.	0	.	0	.	.
<b>FRUITS &amp; VEGETABLES</b>		.	.		<b>302</b>		.	.
Cotton	0	.	.	0	.	0	.	.
Jute	0	.	.	0	.	0	.	.
<b>CASH CROPS</b>		.	.	<b>0</b>	.		.	.
<b>Total</b>		<b>59</b>	<b>2,030,738</b>		<b>4,311</b>		<b>4,370</b>	<b>1.348413</b>

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

Crop	Herbicide							
	Number of Households using Herbicide	Planted Area Applied with Herbicide	Cost of Herbicide	Number of Households NOT using Herbicide	Planted Area Without Herbicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Herbicide
Maize	0	.	.	13,322	6,329	13,322	.	.
Paddy	0	.	.	2,018	1,185	2,018	.	.
Sorghum	0	.	.	1,211	363	1,211	.	.
Bulrush Millet	0	.	.	0	.	0	.	.
Wheat	0	.	.	0	.	0	.	.
<b>CEREALS</b>		.	.		<b>7,877</b>		.	.
Yam	0	.	.	0	.	0	.	.
Cassava	0	.	.	0	.	0	.	.
Sweet Potato	0	.	.	231	37	231	.	.
Yams	0	.	.	0	.	0	.	.
Coco Yam	0	.	.	0	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		.	.		<b>37</b>		.	.
Mung Bean	0	.	.	58	23	58	.	.
Beans	0	.	.	692	131	692	.	.
Cowpeas	0	.	.	8,131	1,904	8,131	.	.
Green gram	0	.	.	346	72	346	.	.
Field Peas	0	.	.	0	.	0	.	.
<b>PULSES</b>		.	.		<b>2,131</b>		.	.
Sunflower	0	.	.	58	12	58	.	.
Simsim	0	.	.	288	117	288	.	.
Groundnut	0	.	.	173	35	173	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		.	.		<b>163</b>		.	.
Okra	0	.	.	519	96	519	.	.
Turmeric	0	.	.	0	.	0	.	.
Bitter Aubergine	0	.	.	0	.	0	.	.
Onion	0	.	.	0	.	0	.	.
Cabbage	0	.	.	0	.	0	.	.
Tomatoes	0	.	.	115	35	115	.	.
Spinach	0	.	.	0	.	0	.	.
Carrot	0	.	.	0	.	0	.	.
Chillies	0	.	.	58	35	58	.	.
Amaranths	0	.	.	58	6	58	.	.
Pumpkins	0	.	.	115	9	115	.	.
Cucumber	0	.	.	0	.	0	.	.
Egg Plant	0	.	.	0	.	0	.	.
Water Mellon	0	.	.	115	6	115	.	.
<b>FRUITS &amp; VEGETABLES</b>		.	.		<b>187</b>		.	.
Cotton	0	.	.	0	.	0	.	.
Jute	0	.	.	0	.	0	.	.
<b>CASH CROPS</b>		.	.		.		.	.
<b>Total</b>		.	.		<b>10,395</b>		.	.

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

Crop	Herbicide							
	Number of Households using Herbicide	Planted Area Applied with Herbicide	Cost of Herbicide	Number of Households NOT using Herbicide	Planted Area Without Herbicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Herbicide
Maize	0	.	.	16,380	7,575	16,380	.	.
Paddy	0	.	.	2,061	727	2,061	.	.
Sorghum	0	.	.	759	300	759	.	.
Bulrush Millet	0	.	.	0	.	0	.	.
Wheat	0	.	.	108	66	108	.	.
<b>CEREALS</b>		.	.		<b>8,667</b>		.	.
Yam	0	.	.	0	.	0	.	.
Cassava	0	.	.	325	198	325	.	.
Sweet Potato	0	.	.	759	232	759	.	.
Yams	0	.	.	0	.	0	.	.
Coco Yam	0	.	.	0	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		.	.		<b>430</b>		.	.
Mung Bean	0	.	.	325	121	325	.	.
Beans	0	.	.	542	152	542	.	.
Cowpeas	0	.	.	11,065	3,193	11,065	.	.
Green gram	0	.	.	1,085	224	1,085	.	.
Field Peas	0	.	.	0	.	0	.	.
<b>PULSES</b>		.	.		<b>3,689</b>		.	.
Sunflower	0	.	.	0	.	0	.	.
Simsim	108	33	2,169,549	108	11	108	44	75
Groundnut	108	66	2,169,549	217	31	217	97	68
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>99</b>	<b>4,339,099</b>		<b>42</b>		<b>141</b>	<b>70</b>
Okra	0	.	.	759	167	759	.	.
Turmeric	0	.	.	0	.	0	.	.
Bitter Aubergine	0	.	.	325	18	325	.	.
Onion	0	.	.	0	.	0	.	.
Cabbage	0	.	.	0	.	0	.	.
Tomatoes	0	.	.	434	64	434	.	.
Spinach	0	.	.	325	31	325	.	.
Carrot	0	.	.	0	.	0	.	.
Chillies	0	.	.	434	132	434	.	.
Amaranth	0	.	.	434	35	434	.	.
Pumpkins	0	.	.	542	74	542	.	.
Cucumber	0	.	.	976	145	976	.	.
Egg Plant	0	.	.	0	.	0	.	.
Water Mellon	0	.	.	759	483	759	.	.
<b>FRUITS &amp; VEGETABLES</b>		.	.		<b>1,148</b>		.	.
Cotton	0	.	.	0	.	0	.	.
Jute	0	.	.	0	.	0	.	.
<b>CASH CROPS</b>		.	.		.		.	.
<b>Total</b>		<b>99</b>	<b>4,339,099</b>		<b>13,975</b>		<b>14,074</b>	<b>1</b>

**5.103 Planted Area & Number of Households by Herbicide Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Rufiji**

Crop	Herbicide							
	Number of Households using Herbicide	Planted Area Applied with Herbicide	Cost of Herbicide	Number of Households NOT using Herbicide	Planted Area Without Herbicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Herbicide
Maize	87	71	1,310,061	17,380	8,412	17,467	8,483	0.8
Paddy	175	71	2,358,110	9,869	5,886	10,044	5,957	1.2
Sorghum	0	.	.	262	71	262	.	.
Bulrush Millet	0	.	.	0	.	0	.	.
Wheat	0	.	.	0	.	0	.	.
<b>CEREALS</b>		<b>141</b>	<b>3,668,172</b>		<b>14,369</b>		<b>14,511</b>	<b>1.0</b>
Yam	0	.	.	0	.	0	.	.
Cassava	0	.	.	524	186	524	.	.
Sweet Potato	0	.	.	0	.	0	.	.
Yams	0	.	.	175	140	175	.	.
Coco Yam	0	.	.	0	.	0	.	.
<b>ROOTS &amp; TUBERS</b>		.	.		<b>326</b>		.	.
Mung Bean	0	.	.	0	.	0	.	.
Beans	0	.	.	611	212	611	.	.
Cowpeas	0	.	0	4,454	816	4,454	.	.
Green gram	0	.	.	87	9	87	.	.
Field Peas	0	.	.	0	.	0	.	.
<b>PULSES</b>	0	.	0	5,153	1,037	5,153	.	.
Sunflower	0	.	.	0	.	0	.	.
Simsim	0	.	.	1,485	534	1,485	.	.
Groundnut	0	.	.	0	.	0	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		.	.		<b>534</b>		.	.
Okra	0	.	.	0	.	0	.	.
Turmeric	0	.	.	0	.	0	.	.
Bitter Aubergine	0	.	.	0	.	0	.	.
Onion	0	.	.	87	9	87	.	.
Cabbage	0	.	.	0	.	0	.	.
Tomatoes	87	18	52,402	262	62	349	80	22.2
Spinach	0	.	.	0	.	0	.	.
Carrot	0	.	.	0	.	0	.	.
Chillies	0	.	.	0	.	0	.	.
Amaranths	87	18	69,870	0	.	87	.	.
Pumpkins	0	.	.	87	18	87	.	.
Cucumber	0	.	.	0	.	0	.	.
Egg Plant	0	.	.	0	.	0	.	.
Water Mellon	0	.	.	0	.	0	.	.
<b>FRUITS &amp; VEGETABLES</b>		<b>35</b>	<b>122,272</b>		<b>88</b>		<b>124</b>	<b>28.6</b>
Cotton	0	.	.	0	.	0	.	.
Jute	0	.	.	0	.	0	.	.
<b>CASH CROPS</b>		.	.		.		.	.
<b>Total</b>		<b>177</b>	<b>3,790,444</b>		<b>16,354</b>		<b>16,531</b>	<b>1.1</b>

**5.104 Planted Area & Number of Households by Herbicide Use by Crop during 2007/08 agriculture year - SHORT RAINY SEASON - Maria**

Crop	SHORT RAINY SEASON							
	Number of Households using Herbicide	Planted Area Applied with Herbicide	Cost of Herbicide	Number of Households NOT using Herbicide	Planted Area Without Herbicide	Total Number of Households Planting in VULI	Total Planted Area in VULI	% of area planted Herbicide
Maize	0	.	.	232	79	232	.	.
Paddy	0	.	.	1,133	365	1,133	.	.
Sorghum	0	.	.	0	.	0	.	.
Bulrush Millet	0	.	.	0	.	0	.	.
Wheat	0	.	.	0	.	0	.	.
<b>CEREALS</b>		.	.		<b>444</b>		.	.
Yam	0	.	.	407	124	407	.	.
Cassava	0	.	.	0	.	0	.	.
Sweet Potato	0	.	.	581	172	581	.	.
Yams	0	.	.	0	.	0	.	.
Coco Yam	0	.	.	29	1	29	.	.
<b>ROOTS &amp; TUBERS</b>		.	.		<b>296</b>		.	.
Mung Bean	0	.	.	0	.	0	.	.
Beans	0	.	.	0	.	0	.	.
Cowpeas	0	.	.	58	12	58	.	.
Green gram	0	.	.	0	.	0	.	.
Field Peas	0	.	.	0	.	0	.	.
<b>PULSES</b>		.	.		<b>12</b>		.	.
Sunflower	0	.	.	0	.	0	.	.
Simsim	0	.	.	0	.	0	.	.
Groundnut	0	.	.	29	3	29	.	.
<b>OIL SEEDS &amp; OIL NUTS</b>		.	.		<b>3</b>		.	.
Okra	0	.	.	29	9	29	.	.
Turmeric	0	.	.	0	.	0	.	.
Bitter Aubergine	0	.	.	0	.	0	.	.
Onion	0	.	.	0	.	0	.	.
Cabbage	0	.	.	0	.	0	.	.
Tomatoes	0	.	.	87	12	87	.	.
Spinach	0	.	.	0	.	0	.	.
Carrot	0	.	.	0	.	0	.	.
Chillies	0	.	.	58	2	58	.	.
Amaranth	0	.	.	87	5	87	.	.
Pumpkins	0	.	.	29	6	29	.	.
Cucumber	0	.	.	0	.	0	.	.
Egg Plant	0	.	.	58	4	58	.	.
Water Mellon	0	.	.	0	.	0	.	.
<b>FRUITS &amp; VEGETABLES</b>		.	.		<b>37</b>		.	.
Cotton	0	.	.	0	.	0	.	.
Jute	0	.	.	0	.	0	.	.
<b>CASH CROPS</b>		.	.		.		.	.
<b>Total</b>		.	.		<b>792</b>		.	.

**INPUT USE LONG RAINY SEASON**

**5.105 Planted Area & Number of Crop growing Households by Fungicide Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - Bagamoyo District**

Crop	Fungicide							
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Cost of Fungicide	Number of Households NOT using Fungicide	Planted Area Fungicide not Used	Household Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of area planted Fungicide
Maize	0	0	0	30,687	30,687	30,687	30,687	0
Paddy	0	0	0	3,877	3,877	3,877	3,877	0
Sorghum	0	0	0	3,877	3,877	3,877	3,877	0
Bulrush Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>0</b>	<b>0</b>		<b>38,442</b>		<b>38,442</b>	<b>0</b>
Yam	0	0	0	0	0	0	0	0
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	443	443	443	443	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>443</b>		<b>443</b>	<b>0</b>
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	111	111	111	111	0
Cowpeas	0	0	0	4,875	4,875	4,875	4,875	0
Green gram	0	0	0	332	332	332	332	0
Field Peas	0	0	0	111	111	111	111	0
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>5,428</b>		<b>5,428</b>	<b>0</b>
Sunflower	0	0	0	332	332	332	332	0
Simsim	0	0	0	8,198	8,198	8,198	8,198	0
Groundnut	0	0	0	0	0	0	0	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>8,530</b>		<b>8,530</b>	<b>0</b>
Okra	111	34	664,708	111	111	222	144	23
Turmeric	0	0	0	0	0	0	0	0
Bitter Aubergine	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0	0
Tomatoes	111	34	664,708	111	111	222	144	23
Spinach	0	0	0	0	0	0	0	0
Carrot	0	0	0	0	0	0	0	0
Chillies	0	0	0	0	0	0	0	0
Amaranth	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
<b>FRUITS &amp; VEGETABLES</b>		<b>67</b>	<b>1,329,416</b>		<b>222</b>		<b>289</b>	<b>23</b>
Cotton	0	0	0	332	332	332	332	0
Jute	0	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>332</b>		<b>332</b>	<b>0</b>
<b>Total</b>		<b>67</b>	<b>1,329,416</b>		<b>53,398</b>		<b>53,466</b>	<b>0.1</b>



**5.106 Planted Area & Number of Crop growing Households by Fungicide Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - Kibaha District**

Crop	Fungicide							
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Cost of Fungicide	Number of Households NOT using Fungicide	Planted Area Fungicide not Used	Household Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of area planted Fungicide
Maize	0	0	0	5,776	5,776	5,776	5,776	0
Paddy	0	0	0	5,009	5,009	5,009	5,009	0
Sorghum	0	0	0	1,264	1,264	1,264	1,264	0
Bulrush Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>0</b>	<b>0</b>		<b>12,049</b>		<b>12,049</b>	<b>0</b>
Yam	0	0	0	0	0	0	0	0
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	451	451	451	451	0
Yams	0	0	0	45	45	45	45	0
Coco Yam	0	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>496</b>		<b>496</b>	<b>0</b>
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	45	45	45	45	0
Cowpeas	0	0	0	1,670	1,670	1,670	1,670	0
Green gram	0	0	0	45	45	45	45	0
Field Peas	0	0	0	0	0	0	0	0
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>1,760</b>		<b>1,760</b>	<b>0</b>
Sunflower	0	0	0	90	90	90	90	0
Simsim	0	0	0	406	406	406	406	0
Groundnut	0	0	0	0	0	0	0	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>496</b>		<b>496</b>	<b>0</b>
Okra	181	40	3,474,818	1,083	1,083	1,264	1,123	3.6
Turmeric	0	0	0	0	0	0	0	0
Bitter Aubergine	0	0	0	45	45	45	45	0
Onion	0	0	0	45	45	45	45	0
Cabbage	0	0	0	45	45	45	45	0
Tomatoes	135	48	2,075,865	767	767	812	816	5.9
Spinach	0	0	0	45	45	45	45	0
Carrot	0	0	0	45	45	45	45	0
Chillies	0	0	0	90	90	90	90	0
Amaranths	0	0	0	45	45	45	45	0
Pumpkins	0	0	0	45	45	45	45	0
Cucumber	0	0	0	45	45	45	45	0
Egg Plant	0	0	0	90	90	90	90	0
Water Mellon	0	0	0	45	45	45	45	0
<b>FRUITS &amp; VEGETABLES</b>		<b>89</b>	<b>5,550,683</b>		<b>2,437</b>		<b>2,525</b>	<b>3.508645</b>
Cotton	0	0	0	0	0	0	0	0
Jute	0	0	0	45	45	45	45	0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>45</b>		<b>45</b>	<b>0</b>
<b>Total</b>		<b>89</b>	<b>5,550,683</b>		<b>17,284</b>		<b>17,372</b>	<b>0.5</b>

**5.107 Planted Area & Number of Crop growing Households by Fungicide Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - Kisarawe District**

Crop	Fungicide							
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Cost of Fungicide	Number of Households NOT using Fungicide	Planted Area Fungicide not Used	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of area planted Fungicide
Maize	0	0	0	5,767	5,767	5,767	5,767	0
Paddy	58	12	0	2,883	2,883	2,941	2,895	0.4
Sorghum	0	0	0	865	865	865	865	0
Bulrush Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>12</b>	<b>0</b>		<b>9,515</b>		<b>9,527</b>	<b>0.1</b>
Yam	0	0	0	0	0	0	0	0
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	519	519	519	519	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>519</b>		<b>519</b>	<b>0</b>
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	115	115	115	115	0
Cowpeas	0	0	0	3,056	3,056	3,056	3,056	0
Green gram	0	0	0	58	58	58	58	0
Field Peas	0	0	0	0	0	0	0	0
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>3,229</b>		<b>3,229</b>	<b>0</b>
Sunflower	0	0	0	0	0	0	0	0
Simsim	0	0	0	865	865	865	865	0
Groundnut	0	0	0	0	0	0	0	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>865</b>		<b>865</b>	<b>0</b>
Okra	0	0	0	346	346	346	346	0
Turmeric	0	0	0	58	58	58	58	0
Bitteer	0	0	0	0	0	0	0	0
Aubergine	0	0	0	0	0	0	0	0
Onion	0	0	0	58	58	58	58	0
Cabbage	0	0	0	58	58	58	58	0
Tomatoes	0	0	0	58	58	58	58	0
Spinach	0	0	0	58	58	58	58	0
Carrot	0	0	0	0	0	0	0	0
Chillies	0	0	0	58	58	58	58	0
Amaranths	0	0	0	173	173	173	173	0
Pumpkins	0	0	0	58	58	58	58	0
Cucumber	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>	<b>0</b>		<b>923</b>		<b>923</b>	<b>0</b>
Cotton	0	0	0	0	0	0	0	0
Jute	0	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
<b>Total</b>		<b>12</b>	<b>0</b>		<b>15,052</b>		<b>15,063</b>	<b>0.08</b>

**5.108 Planted Area & Number of Crop growing Households by Fungicide Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - Mkuranga District**

Crop	Fungicide							
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Cost of Fungicide	Number of Households NOT using Fungicide	Planted Area Fungicide not Used	Household		% of area planted Fungicide
						Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	0	0	0	5,424	5,424	5,424	5,424	0
Paddy	108	3	0	11,824	11,824	11,824	11,827	0.02
Sorghum	0	0	0	542	542	542	542	0
Bulrush Millet	0	0	0	108	108	108	108	0
Wheat	0	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>3</b>	<b>.</b>		<b>17,899</b>		<b>17,902</b>	<b>0.015</b>
Yam	0	0	0	0	0	0	0	0
Cassava	0	0	0	108	108	108	108	0
Sweet Potato	0	0	0	2,712	2,712	2,712	2,712	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>2,820</b>		<b>2,820</b>	<b>0</b>
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	108	108	108	108	0
Cowpeas	0	0	0	2,387	2,387	2,387	2,387	0
Green gram	0	0	0	217	217	217	217	0
Field Peas	0	0	0	0	0	0	0	0
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>2,712</b>		<b>2,712</b>	<b>0</b>
Sunflower	0	0	0	0	0	0	0	0
Simsim	0	0	0	1,085	1,085	1,085	1,085	0
Groundnut	0	0	0	0	0	0	0	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>1,085</b>		<b>1,085</b>	<b>0</b>
Okra	0	0	0	108	108	108	108	0
Turmeric	0	0	0	0	0	0	0	0
Bitteer	0	0	0	108	108	108		
Aubergine							108	0
Onion	0	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	0	0	0	0	0
Spinach	0	0	0	0	0	0	0	0
Carrot	0	0	0	0	0	0	0	0
Chillies	108	11	26,034,593	0	0	108	11	100
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	108	44	1,735,640	108	108	217	152	29
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	217	217	217	217	0
<b>FRUITS &amp; VEGETABLES</b>		<b>55</b>	<b>27,770,233</b>		<b>542</b>		<b>597</b>	<b>9.2</b>
Cotton	0	0	0	0	0	0	0	0
Jute	0	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
<b>Total</b>		<b>58</b>	<b>27,770,233</b>		<b>25,058</b>		<b>25,116</b>	<b>0.2</b>

**5.109 Planted Area & Number of Crop growing Households by Fungicide Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - Mkuranga District**

Crop	Fungicide							
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Cost of Fungicide	Number of Households NOT using Fungicide	Planted Area Fungicide not Used	Household	Total Planted Area in MASIKA	% of area planted Fungicide
						Total Number of Households Planting in MASIKA		
Maize	0	0	0	5,424	5,424	5,424	5,424	0
Paddy	108	3	0	11,824	11,824	11,824	11,827	0.02
Sorghum	0	0	0	542	542	542	542	0
Bulrush Millet	0	0	0	108	108	108	108	0
Wheat	0	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>3</b>	<b>.</b>		<b>17,899</b>		<b>17,902</b>	<b>0.015</b>
Yam	0	0	0	0	0	0	0	0
Cassava	0	0	0	108	108	108	108	0
Sweet Potato	0	0	0	2,712	2,712	2,712	2,712	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>2,820</b>		<b>2,820</b>	<b>0</b>
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	108	108	108	108	0
Cowpeas	0	0	0	2,387	2,387	2,387	2,387	0
Green gram	0	0	0	217	217	217	217	0
Field Peas	0	0	0	0	0	0	0	0
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>2,712</b>		<b>2,712</b>	<b>0</b>
Sunflower	0	0	0	0	0	0	0	0
Simsim	0	0	0	1,085	1,085	1,085	1,085	0
Groundnut	0	0	0	0	0	0	0	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>1,085</b>		<b>1,085</b>	<b>0</b>
Okra	0	0	0	108	108	108	108	0
Turmeric	0	0	0	0	0	0	0	0
Bitteer	0	0	0	108	108	108	108	0
Aubergine							108	0
Onion	0	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	0	0	0	0	0
Spinach	0	0	0	0	0	0	0	0
Carrot	0	0	0	0	0	0	0	0
Chillies	108	11	26,034,593	0	0	108	11	100
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	108	44	1,735,640	108	108	217	152	29
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	217	217	217	217	0
<b>FRUITS &amp; VEGETABLES</b>		<b>55</b>	<b>27,770,233</b>		<b>542</b>		<b>597</b>	<b>9.2</b>
Cotton	0	0	0	0	0	0	0	0
Jute	0	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
<b>Total</b>		<b>58</b>	<b>27,770,233</b>		<b>25,058</b>		<b>25,116</b>	<b>0.2</b>

**5.110 Planted Area & Number of Crop growing Households by Fungicide Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - Rufiji District**

Crop	Fungicide							
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Cost of Fungicide	Number of Households NOT using Fungicide	Planted Area Fungicide not Used	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of area planted Fungicide
Maize	0	0	0	5,240	5,240	5,240	5,240	0
Paddy	0	0	0	8,122	8,122	8,122	8,122	0
Sorghum	0	0	0	1,310	1,310	1,310	1,310	0
Bulrush Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>0</b>	<b>0</b>		<b>14,673</b>		<b>14,673</b>	<b>0</b>
Yam	0	0	0	0	0	0	0	0
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	262	262	262	262	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>262</b>		<b>262</b>	<b>0</b>
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	262	262	262	262	0
Cowpeas	0	0	0	175	175	175	175	0
Green gram	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>437</b>		<b>437</b>	<b>0</b>
Sunflower	0	0	0	0	0	0	0	0
Simsim	0	0	0	2,882	2,882	2,882	2,882	0
Groundnut	0	0	0	87	87	87	87	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>2,969</b>		<b>2,969</b>	<b>0</b>
Okra	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0
Bitteer	0	0	0	0	0	0	0	0
Aubergine	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0	0
Tomatoes	175	71	2,358,110	0	0	175	71	100
Spinach	0	0	0	0	0	0	0	0
Carrot	0	0	0	0	0	0	0	0
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	87	87	87	87	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
<b>FRUITS &amp; VEGETABLES</b>		<b>71</b>	<b>2,358,110</b>		<b>87</b>		<b>158</b>	<b>45</b>
Cotton	0	0	0	0	0	0	0	0
Jute	0	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
<b>Total</b>		<b>71</b>	<b>2,358,110</b>		<b>18,428</b>		<b>18,499</b>	<b>0.38</b>

**5.111 Planted Area & Number of Crop growing Households by Fungicide Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - Mafia District**

Crop	Fungicide							
	Number of Households using Fungicide	Planted Area Applied with Fungicide	Cost of Fungicide	Number of Households NOT using Fungicide	Planted Area Fungicide not Used	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of area planted Fungicide
Maize	0	0	0	581	581	581	581	0
Paddy	0	0	0	3,806	3,806	3,806	3,806	0
Sorghum	0	0	0	203	203	203	203	0
Bulrush Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>0</b>	<b>0</b>		<b>4,591</b>		<b>4,591</b>	<b>0</b>
Yam	0	0	0	291	291	291	291	0
Cassava	0	0	0	116	116	116	116	0
Sweet Potato	0	0	0	320	320	320	320	0
Yams	0	0	0	29	29	29	29	0
Coco Yam	0	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>755</b>		<b>755</b>	<b>0</b>
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	116	116	116	116	0
Cowpeas	0	0	0	116	116	116	116	0
Green gram	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>232</b>		<b>232</b>	<b>0</b>
Sunflower	0	0	0	0	0	0	0	0
Simsim	0	0	0	0	0	0	0	0
Groundnut	0	0	0	116	116	116	116	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>116</b>		<b>116</b>	<b>0</b>
Okra	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	58	58	58	58	0
Spinach	0	0	0	0	0	0	0	0
Carrot	0	0	0	0	0	0	0	0
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	174	174	174	174	0
Cucumber	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>	<b>0</b>		<b>232</b>		<b>232</b>	<b>0</b>
Cotton	0	0	0	0	0	0	0	0
Jute	0	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
<b>Total</b>		<b>0</b>	<b>0</b>		<b>5,928</b>		<b>5,928</b>	<b>0</b>

**5.112 Planted Area & Number of Crop Growing Households by Insecticide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Bagamoyo District**

Crop	Insecticide							
	Number of Households using Insecticide	Planted Area Applied with Insecticide	Cost of Insecticide	Number of Households NOT using Insecticide	Planted Area Without Insecticide	Household Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of Planted area using Insecticide
Maize	1,329	1,593	13,557,831	29,358	31,219	30,687	32,812	4.9
Paddy	0	0	0	3,877	2,366	3,877	2,366	0.0
Sorghum	0	0	0	3,877	2,283	3,877	2,283	0.0
Bulrush Millet	0	0	0	0	0	0	0	0.0
Wheat	0	0	0	0	0	0	0	0.0
<b>CEREALS</b>		<b>1,593</b>	<b>13,557,831</b>		<b>35,868</b>		<b>37,461</b>	<b>4.3</b>
Yam	0	0	0	0	0	0	0	0.0
Cassava	0	0	0	0	0	0	0	0.0
Sweet Potato	0	0	0	443	292	443	292	0.0
Yams	0	0	0	0	0	0	0	0.0
Coco Yam	0	0	0	0	0	0	0	0.0
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>292</b>		<b>292</b>	<b>0.0</b>
Mung Bean	0	0	0	0	0	0	0	0.0
Beans	0	0	0	111	13	111	13	0.0
Cowpeas	0	0	0	4,875	1,554	4,875	1,554	0.0
Green gram	0	0	0	332	184	332	184	0.0
Field Peas	0	0	0	111	22	111	22	0.0
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>1,774</b>		<b>1,774</b>	<b>0.0</b>
Sunflower	0	0	0	332	108	332	108	0.0
Simsim	111	135	553,923	8,087	5,942	8,198	6,077	2.2
Groundnut	0	0	0	0	0	0	0	0.0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>135</b>	<b>553,923</b>		<b>6,050</b>		<b>6,184</b>	<b>2.2</b>
Okra	111	34	1,107,847	111	22	222	56	60.0
Turmeric	0	0	0	0	0	0	0	0.0
Bitteer Aubergine	0	0	0	0	0	0	0	0.0
Onion	0	0	0	0	0	0	0	0.0
Cabbage	0	0	0	0	0	0	0	0.0
Tomatoes	111	34	1,107,847	111	45	222	78	42.9
Spinach	0	0	0	0	0	0	0	0.0
Carrot	0	0	0	0	0	0	0	0.0
Chillies	0	0	0	0	0	0	0	0.0
Amaranths	0	0	0	0	0	0	0	0.0
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	0	0	0	0	0	0	0	0.0
Egg Plant	0	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0	0.0
<b>FRUITS &amp; VEGETABLES</b>		<b>67</b>	<b>2,215,694</b>		<b>67</b>		<b>135</b>	<b>50.0</b>
Cotton	222	179	3,988,249	111	135	332	314	57.1
Jute	0	0	0	0	0	0	0	0.0
<b>CASH CROPS</b>		<b>179</b>	<b>3,988,249</b>		<b>135</b>		<b>314</b>	<b>57.1</b>
<b>Total</b>		<b>1,974</b>	<b>20,315,698</b>		<b>44,185</b>		<b>46,159</b>	<b>4.3</b>

**5.113 Planted Area & Number of Crop Growing Households by Insecticide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Kibaha District District**

Crop	Insecticide						Total Planted Area in MASIKA	% 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	Household Total Number of Households Planting in MASIKA		
Maize	181	121	1,105,624	5,641	2,462	5,776	2,583	5
Paddy	135	73	848,397	4,874	2,654	5,009	2,727	3
Sorghum	0	0	0	1,264	419	1,264	419	0
Bulrush Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>194</b>	<b>1,954,021</b>		<b>5,535</b>		<b>5,729</b>	<b>3</b>
Yam	0	0	0	0	0	0	0	0
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	451	182	451	182	0
Yams	0	0	0	45	9	45	9	0
Coco Yam	0	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>191</b>		<b>191</b>	<b>0</b>
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	45	4	45	4	0
Cowpeas	135	33	609,221	1,534	312	1,670	345	10
Green gram	0	0	0	45	9	45	9	0
Field Peas	0	0	0	0	0	0	0	0
<b>PULSES</b>		<b>33</b>	<b>609,221</b>		<b>325</b>		<b>358</b>	<b>9</b>
Sunflower	0	0	0	90	23	90	23	0
Simsim	45	18	406,148	361	128	406	146	13
Groundnut	0	0	0	0	0	0	0	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>18</b>	<b>406,148</b>		<b>151</b>		<b>170</b>	<b>11</b>
Okra	632	200	5,616,117	677	113	1,264	312	64
Turmeric	0	0	0	0	0	0	0	0
Bitter Aubergine	0	0	0	45	9	45	9	0
Onion	0	0	0	45	5	45	5	0
Cabbage	45	5	40,615	0	0	45	5	100
Tomatoes	361	100	2,229,299	496	113	812	214	47
Spinach	45	9	676,913	0	0	45	9	100
Carrot	0	0	0	45	5	45	5	0
Chillies	45	5	20,307	45	5	90	10	45
Amaranths	0	0	0	45	9	45	9	0
Pumpkins	0	0	0	45	5	45	5	0
Cucumber	45	5	4,061	0	0	45	5	100
Egg Plant	0	0	0	90	18	90	18	0
Water Mellon	45	5	60,922	0	0	45	5	100
<b>FRUITS &amp; VEGETABLES</b>		<b>328</b>	<b>8,648,234</b>		<b>282</b>		<b>609</b>	<b>54</b>
Cotton	0	0	0	0	0	0	0	0
Jute	0	0	0	45	18	45	18	0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>18</b>		<b>18</b>	<b>0</b>
<b>Total</b>		<b>573</b>	<b>11,617,624</b>		<b>6,502</b>		<b>7,075</b>	<b>8</b>



**5.114 Planted Area & Number of Crop Growing Households by Insecticide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Kisarawe District**

Crop	Insecticide							
	Number of Households using Insecticide	Planted Area Applied with Insecticide	Cost of Insecticide	Number of Households NOT using Insecticide	Planted Area Without Insecticide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of Planted area using Insecticide
Maize	58	47	173,008	5,709	2,742	5,767	2,789	2
Paddy	0	0	0	2,941	1,757	2,941	1,757	0
Sorghum	0	0	0	865	201	865	201	0
Bulrush Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>47</b>	<b>173,008</b>		<b>4,700</b>		<b>4,746</b>	<b>1</b>
Yam	0	0	0	0	0	0	0	0
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	519	129	519	129	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>129</b>		<b>129</b>	<b>0</b>
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	115	35	115	35	0
Cowpeas	0	0	0	3,056	1,105	3,056	1,105	0
Green gram	0	0	0	58	9	58	9	0
Field Peas	0	0	0	0	0	0	0	0
PULSES	0	0	0	3,229	1,149	3,229	1,149	0
Sunflower	0	0	0	0	0	0	0	0
Simsim	0	0	0	865	490	865	490	0
Groundnut	0	0	0	0	0	0	0	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>490</b>		<b>490</b>	<b>0</b>
Okra	0	0	0	346	64	346	64	0
Turmeric	0	0	0	58	23	58	23	0
Bitteer	0	0	0	0	0	0	0	0
Aubergine	0	0	0	0	0	0	0	0
Onion	0	0	0	58	12	58	12	0
Cabbage	0	0	0	58	3	58	3	0
Tomatoes	0	0	0	58	3	58	3	0
Spinach	0	0	0	58	3	58	3	0
Carrot	0	0	0	0	0	0	0	0
Chillies	0	0	0	58	12	58	12	0
Amaranths	0	0	0	173	14	173	14	0
Pumpkins	0	0	0	58	3	58	3	0
Cucumber	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>	<b>0</b>		<b>137</b>		<b>137</b>	<b>0</b>
Cotton	0	0	0	0	0	0	0	0
Jute	0	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
<b>Total</b>		<b>47</b>	<b>173,008</b>		<b>6,606</b>		<b>6,652</b>	<b>1</b>

**5.115 Planted Area & Number of Crop Growing Households by Insecticide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Mkuranga District**

Crop	Insecticide							
	Number of Households using Insecticide	Planted Area Applied with Insecticide	Cost of Insecticide	Number of Households NOT using Insecticide	Planted Area Without Insecticide	Household Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of Planted area using Insecticide
Maize	108	99	4,881,486	5,315	2,839	5,424	2,938	3.3632287
Paddy	108	3	0	11,824	6,679	11,824	6,681	0.0410833
Sorghum	0	0	0	542	239	542	239	0
Bulrush Millet	0	0	0	108	26	108	26	0
Wheat	0	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>102</b>	<b>4,881,486</b>		<b>9,784</b>		<b>9,885</b>	<b>1.027412</b>
Yam	0	0	0	0	0	0	0	0
Cassava	0	0	0	108	22	108	22	0
Sweet Potato	0	0	0	2,712	922	2,712	922	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>944</b>		<b>944</b>	<b>0</b>
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	108	44	108	44	0
Cowpeas	0	0	0	2,387	532	2,387	532	0
Green gram	0	0	0	217	33	217	33	0
Field Peas	0	0	0	0	0	0	0	0
PULSES	0	0	0	2,712	609	2,712	609	0
Sunflower	0	0	0	0	0	0	0	0
Simsim	0	0	0	1,085	514	1,085	514	0
Groundnut	0	0	0	0	0	0	0	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>514</b>		<b>514</b>	<b>0</b>
Okra	0	0	0	108	7	108	7	0
Turmeric	0	0	0	0	0	0	0	0
Bitter Aubergine	0	0	0	108	44	108	44	0
Onion	0	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	0	0	0	0	0
Spinach	0	0	0	0	0	0	0	0
Carrot	0	0	0	0	0	0	0	0
Chillies	108	11	13,017,297	0	0	108	11	100
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	108	44	1,084,775	108	53	217	97	45.454545
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	217	154	217	154	0
<b>FRUITS &amp; VEGETABLES</b>		<b>55</b>	<b>14,102,071</b>		<b>257</b>		<b>312</b>	<b>17.60563</b>
Cotton	0	0	0	0	0	0	0	0
Jute	0	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
<b>Total</b>		<b>156</b>	<b>18,983,557</b>		<b>12,107</b>		<b>12,264</b>	<b>1.2757843</b>

**5.116 Planted Area & Number of Crop Growing Households by Insecticide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Rufiji District**

Crop	Insecticide							
	Number of Households using Insecticide	Planted Area Applied with Insecticide	Cost of Insecticide	Number of Households NOT using Insecticide	Planted Area Without Insecticide	Household	Total Planted Area in MASIKA	% of Planted area using Insecticide
						Total Number of Households Planting in MASIKA		
Maize	0	0	0	5,240	2,455	5,240	2,455	0
Paddy	0	0	0	8,122	4,575	8,122	4,575	0
Sorghum	0	0	0	1,310	504	1,310	504	0
Bulrush Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>0</b>	<b>0</b>		<b>7,534</b>		<b>7,534</b>	<b>0</b>
Yam	0	0	0	0	0	0	0	0
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	262	53	262	53	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>53</b>		<b>53</b>	<b>0</b>
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	262	71	262	71	0
Cowpeas	0	0	0	175	27	175	27	0
Green gram	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>97</b>		<b>97</b>	<b>0</b>
Sunflower	0	0	0	0	0	0	0	0
Simsim	175	71	524,025	2,707	1,043	2,882	1,114	6
Groundnut	0	0	0	87	35	87	35	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>71</b>	<b>524,025</b>		<b>1,078</b>		<b>1,149</b>	<b>6.2</b>
Okra	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0
Bitter Aubergine	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	175	71	175	71	0
Spinach	0	0	0	0	0	0	0	0
Carrot	0	0	0	0	0	0	0	0
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	87	18	87	18	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>	<b>0</b>		<b>88</b>		<b>88</b>	<b>0</b>
Cotton	0	0	0	0	0	0	0	0
Jute	0	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
<b>Total</b>		<b>71</b>	<b>524,025</b>		<b>8,851</b>		<b>8,922</b>	<b>0.8</b>

**5.117 Planted Area & Number of Crop Growing Households by Insecticide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Mafia District**

Crop	Insecticide							
	Number of Households using Insecticide	Planted Area Applied with Insecticide	Cost of Insecticide	Number of Households NOT using Insecticide	Planted Area Without Insecticide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of Planted area using Insecticide
Maize	0	0	0	581	145	581	145	0
Paddy	0	0	0	3,806	1,509	3,806	1,509	0
Sorghum	0	0	0	203	32	203	32	0
Bulrush Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>0</b>	<b>0</b>		<b>1,686</b>		<b>1,686</b>	<b>0</b>
Yam	0	0	0	291	100	291	100	0
Cassava	0	0	0	116	30	116	30	0
Sweet Potato	0	0	0	320	68	320	68	0
Yams	0	0	0	29	3	29	3	0
Coco Yam	0	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>201</b>		<b>201</b>	<b>0</b>
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	116	26	116	26	0
Cowpeas	0	0	0	116	9	116	9	0
Green gram	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>36</b>		<b>36</b>	<b>0</b>
Sunflower	0	0	0	0	0	0	0	0
Simsim	0	0	0	0	0	0	0	0
Groundnut	0	0	0	116	26	116	26	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>26</b>		<b>26</b>	<b>0</b>
Okra	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0
Bitteer	0	0	0	0	0	0	0	0
Aubergine							0	0
Onion	0	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	58	24	58	24	0
Spinach	0	0	0	0	0	0	0	0
Carrot	0	0	0	0	0	0	0	0
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	174	32	174	32	0
Cucumber	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>	<b>0</b>		<b>56</b>		<b>56</b>	<b>0</b>
Cotton	0	0	0	0	0	0	0	0
Jute	0	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
<b>Total</b>		<b>0</b>	<b>0</b>		<b>2,004</b>		<b>2,004</b>	<b>0</b>

**5.118 Planted Area & Number of Households by Herbicide Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - Bagamoyo District**

Crop	LONG RAINY SEASON							
	Number of Households using Herbicide	Planted Area Applied with Herbicide	Cost of Herbicide	Number of Households NOT using Herbicide	Planted Area Without Herbicide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of Planted area using Herbicide
Maize	0	0	0	30,687	32,812	30,687	32,812	0
Paddy	0	0	0	3,877	2,366	3,877	2,366	0
Sorghum	0	0	0	3,877	2,283	3,877	2,283	0
Bulrush Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>0</b>	<b>0</b>		<b>37,461</b>		<b>37,461</b>	<b>0</b>
<b>Yam</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	443	292	443	292	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>292</b>		<b>292</b>	<b>0</b>
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	111	13	111	13	0
Cowpeas	0	0	0	4,875	1,554	4,875	1,554	0
Green gram	0	0	0	332	184	332	184	0
Field Peas	0	0	0	111	22	111	22	0
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>1,774</b>		<b>1,774</b>	<b>0</b>
Sunflower	0	0	0	332	108	332	108	0
Simsim	0	0	0	8,198	6,077	8,198	6,077	0
Groundnut	0	0	0	0	0	0	0	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>6,184</b>		<b>6,184</b>	<b>0</b>
Okra	0	0	0	222	56	222	56	0
Turmeric	0	0	0	0	0	0	0	0
Bitteer	0	0	0	0	0	0	0	0
Aubergine	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	222	78	222	78	0
Spinach	0	0	0	0	0	0	0	0
Carrot	0	0	0	0	0	0	0	0
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>	<b>0</b>		<b>135</b>		<b>135</b>	<b>0</b>
Cotton	0	0	0	332	314	332	314	0
Jute	0	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>314</b>		<b>314</b>	<b>0</b>
<b>Total</b>		<b>0</b>	<b>0</b>		<b>46,159</b>		<b>46,159</b>	<b>0</b>

**5.119 Planted Area & Number of Households by Herbicide Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - Kibaha District**

Crop	LONG RAINY SEASON							
	Number of Households using Herbicide	Planted Area Applied with Herbicide	Cost of Herbicide	Number of Households NOT using Herbicide	Planted Area Without Herbicide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of Planted area using Herbicide
Maize	0	0	0	5,776	2,583	5,776	2,583	0
Paddy	45	9	1,128,188	5,009	2,718	5,009	2,727	0.34
Sorghum	0	0	0	1,264	419	1,264	419	0
Bulrush Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>9</b>	<b>1,128,188</b>		<b>5,720</b>		<b>5,729</b>	<b>0.16</b>
Yam	0	0	0	0	0	0	0	0
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	451	182	451	182	0
Yams	0	0	0	45	9	45	9	0
Coco Yam	0	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>191</b>		<b>191</b>	<b>0</b>
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	45	4	45	4	0
Cowpeas	0	0	0	1,670	345	1,670	345	0
Green gram	0	0	0	45	9	45	9	0
Field Peas	0	0	0	0	0	0	0	0
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>358</b>		<b>358</b>	<b>0</b>
Sunflower	0	0	0	90	23	90	23	0
Simsim	0	0	0	406	146	406	146	0
Groundnut	0	0	0	0	0	0	0	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>170</b>		<b>170</b>	<b>0</b>
Okra	0	0	0	1,264	312	1,264	312	0
Turmeric	0	0	0	0	0	0	0	0
Bitter Aubergine	0	0	0	45	9	45	9	0
Onion	0	0	0	45	5	45	5	0
Cabbage	0	0	0	45	5	45	5	0
Tomatoes	0	0	0	812	214	812	214	0
Spinach	0	0	0	45	9	45	9	0
Carrot	0	0	0	45	5	45	5	0
Chillies	0	0	0	90	10	90	10	0
Amaranths	0	0	0	45	9	45	9	0
Pumpkins	0	0	0	45	5	45	5	0
Cucumber	0	0	0	45	5	45	5	0
Egg Plant	0	0	0	90	18	90	18	0
Water Mellon	0	0	0	45	5	45	5	0
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>	<b>0</b>		<b>609</b>		<b>609</b>	<b>0</b>
Cotton	0	0	0	0	0	0	0	0
Jute	0	0	0	45	18	45	18	0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>18</b>		<b>18</b>	<b>0</b>
<b>Total</b>		<b>9</b>	<b>1,128,188</b>		<b>7,065</b>		<b>7,075</b>	<b>0.1</b>

**5.120 Planted Area & Number of Households by Herbicide Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - Kisarawe District**

Crop	LONG RAINY SEASON							
	Number of Households using Herbicide	Planted Area Applied with Herbicide	Cost of Herbicide	Number of Households NOT using Herbicide	Planted Area Without Herbicide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of Planted area using Herbicide
Maize	58	12	288,347	5,709	2,777	5,767	2,789	0.4
Paddy	0	0	0	2,941	1,757	2,941	1,757	0
Sorghum	0	0	0	865	201	865	201	0
Bulrush Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>12</b>	<b>288,347</b>		<b>4,735</b>		<b>4,746</b>	<b>0.25</b>
Yam	0	0	0	0	0	0	0	0
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	519	129	519	129	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>129</b>		<b>129</b>	<b>0</b>
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	115	35	115	35	0
Cowpeas	0	0	0	3,056	1,105	3,056	1,105	0
Green gram	0	0	0	58	9	58	9	0
Field Peas	0	0	0	0	0	0	0	0
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>1,149</b>		<b>1,149</b>	<b>0</b>
Sunflower	0	0	0	0	0	0	0	0
Simsim	0	0	0	865	490	865	490	0
Groundnut	0	0	0	0	0	0	0	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>490</b>		<b>490</b>	<b>0</b>
Okra	0	0	0	346	64	346	64	0
Turmeric	0	0	0	58	23	58	23	0
Bitteer	0	0	0	0	0	0	0	0
Aubergine	0	0	0	58	12	58	12	0
Onion	0	0	0	58	3	58	3	0
Cabbage	0	0	0	58	3	58	3	0
Tomatoes	0	0	0	58	3	58	3	0
Spinach	0	0	0	58	3	58	3	0
Carrot	0	0	0	0	0	0	0	0
Chillies	0	0	0	58	12	58	12	0
Amaranths	0	0	0	173	14	173	14	0
Pumpkins	0	0	0	58	3	58	3	0
Cucumber	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>	<b>0</b>		<b>137</b>		<b>137</b>	<b>0</b>
Cotton	0	0	0	0	0	0	0	0
Jute	0	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
<b>Total</b>		<b>12</b>	<b>288,347</b>		<b>6,641</b>		<b>6,652</b>	<b>0.18</b>

**5.121 Planted Area & Number of Households by Herbicide Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - Mkuranga Distric**

Crop	LONG RAINY SEASON							
	Number of Households using Herbicide	Planted Area Applied with Herbicide	Cost of Herbicide	Number of Households NOT using Herbicide	Planted Area Without Herbicide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of Planted area using Herbicide
Maize	108	99	2,169,549	5,315	2,839	5,424	2,938	3.4
Paddy	0	0	0	11,824	6,681	11,824	6,681	0
Sorghum	0	0	0	542	239	542	239	0
Bulrush Millet	0	0	0	108	26	108	26	0
Wheat	0	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>99</b>	<b>2,169,549</b>		<b>9,786</b>		<b>9,885</b>	<b>1</b>
Yam	0	0	0	0	0	0	0	0
Cassava	0	0	0	108	22	108	22	0
Sweet Potato	0	0	0	2,712	922	2,712	922	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>944</b>		<b>944</b>	<b>0</b>
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	108	44	108	44	0
Cowpeas	0	0	0	2,387	532	2,387	532	0
Green gram	0	0	0	217	33	217	33	0
Field Peas	0	0	0	0	0	0	0	0
<b>PULSES</b>	0	0	0	2,712	609	2,712	609	0
Sunflower	0	0	0	0	0	0	0	0
Simsim	0	0	0	1,085	514	1,085	514	0
Groundnut	0	0	0	0	0	0	0	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>514</b>		<b>514</b>	<b>0</b>
Okra	0	0	0	108	7	108	7	0
Turmeric	0	0	0	0	0	0	0	0
Bitteer	0	0	0	108	44	108	44	0
Aubergine	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	0	0	0	0	0
Spinach	0	0	0	0	0	0	0	0
Carrot	0	0	0	0	0	0	0	0
Chillies	0	0	0	108	11	108	11	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	217	97	217	97	0
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	217	154	217	154	0
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>	<b>0</b>		<b>312</b>		<b>312</b>	<b>0</b>
Cotton	0	0	0	0	0	0	0	0
Jute	0	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
<b>Total</b>		<b>99</b>	<b>2,169,549</b>		<b>12,165</b>		<b>12,264</b>	<b>0.8</b>



**5.122 Planted Area & Number of Households by Herbicide Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - Rufiji District**

Crop	LONG RAINY SEASON							
	Number of Households using Herbicide	Planted Area Applied with Herbicide	Cost of Herbicide	Number of Households NOT using Herbicide	Planted Area Without Herbicide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of Planted area using Herbicide
Maize	0	0	0	5,240	2,455	5,240	2,455	0
Paddy	175	212	5,589,595	7,948	4,363	8,122	4,575	4.6
Sorghum	0	0	0	1,310	504	1,310	504	0
Bulrush Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>212</b>	<b>5,589,595</b>		<b>7,322</b>		<b>7,534</b>	<b>2.8</b>
Yam	0	0	0	0	0	0	0	0
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	262	53	262	53	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>53</b>		<b>53</b>	<b>0</b>
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	262	71	262	71	0
Cowpeas	0	0	0	175	27	175	27	0
Green gram	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0
PULSES	0	0	0	437	97	437	97	0
Sunflower	0	0	0	0	0	0	0	0
Simsim	0	0	0	2,882	1,114	2,882	1,114	0
Groundnut	0	0	0	87	35	87	35	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>1,149</b>		<b>1,149</b>	<b>0</b>
Okra	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0
Bitteer	0	0	0	0	0	0	0	0
Aubergine	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	175	71	175	71	0
Spinach	0	0	0	0	0	0	0	0
Carrot	0	0	0	0	0	0	0	0
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	87	18	87	18	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>	<b>0</b>		<b>88</b>		<b>88</b>	<b>0</b>
Cotton	0	0	0	0	0	0	0	0
Jute	0	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
<b>Total</b>		<b>212</b>	<b>5,589,595</b>		<b>8,710</b>		<b>8,922</b>	<b>2.4</b>

**5.123 Planted Area & Number of Households by Herbicide Use by Crop during 2007/08 agriculture year  
- SHORT & LONG RAINY SEASON - Mafia District**

Crop	LONG RAINY SEASON							
	Number of Households using Herbicide	Planted Area Applied with Herbicide	Cost of Herbicide	Number of Households NOT using Herbicide	Planted Area Without Herbicide	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of Planted area using Herbicide
Maize	0	0	0	581	145	581	145	0
Paddy	0	0	0	3,806	1,509	3,806	1,509	0
Sorghum	0	0	0	203	32	203	32	0
Bulrush Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>0</b>	<b>0</b>		<b>1,686</b>		<b>1,686</b>	<b>0</b>
Yam	0	0	0	291	100	291	100	0
Cassava	0	0	0	116	30	116	30	0
Sweet Potato	0	0	0	320	68	320	68	0
Yams	0	0	0	29	3	29	3	0
Coco Yam	0	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>201</b>		<b>201</b>	<b>0</b>
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	116	26	116	26	0
Cowpeas	0	0	0	116	9	116	9	0
Green gram	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>36</b>		<b>36</b>	<b>0</b>
Sunflower	0	0	0	0	0	0	0	0
Simsim	0	0	0	0	0	0	0	0
Groundnut	0	0	0	116	26	116	26	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>26</b>		<b>26</b>	<b>0</b>
Okra	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0
Bitteer	0	0	0	0	0	0	0	0
Aubergine							0	0
Onion	0	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	58	24	58	24	0
Spinach	0	0	0	0	0	0	0	0
Carrot	0	0	0	0	0	0	0	0
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	174	32	174	32	0
Cucumber	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>	<b>0</b>		<b>56</b>		<b>56</b>	<b>0</b>
Cotton	0	0	0	0	0	0	0	0
Jute	0	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
<b>Total</b>		<b>0</b>	<b>0</b>		<b>2,004</b>		<b>2,004</b>	<b>0</b>

**5.124 Planted Area & Number of Households by Irrigation Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - Bagamoyo District**

Crop	Irrigation						
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of Planted area using Irrigation
Maize	222	95	30,466	32,717	30,687	32,812	0.3
Paddy	111	135	3,767	2,231	3,877	2,366	5.7
Sorghum	111	22	3,767	2,261	3,877	2,283	1.0
Bulrush Millet	0	0	0	0	0	0	0.0
Wheat	0	0	0	0	0	0	0.0
<b>CEREALS</b>		<b>252</b>		<b>37,209</b>		<b>37,461</b>	<b>0.7</b>
Yam	0	0	0	0	0	0	0.0
Cassava	0	0	0	0	0	0	0.0
Sweet Potato	0	0	443	292	443	292	0.0
Yams	0	0	0	0	0	0	0.0
Coco Yam	0	0	0	0	0	0	0.0
<b>ROOTS &amp; TUBERS</b>		<b>0</b>		<b>292</b>		<b>292</b>	<b>0.0</b>
Mung Bean	0	0	0	0	0	0	0.0
Beans	0	0	111	13	111	13	0.0
Cowpeas	111	22	4,764	1,532	4,875	1,554	1.4
Green gram	0	0	332	184	332	184	0.0
Field Peas	0	0	111	22	111	22	0.0
<b>PULSES</b>		<b>22</b>		<b>1,751</b>		<b>1,774</b>	<b>1.3</b>
Sunflower	0	0	332	108	332	108	0.0
Simsim	0	0	8,198	6,077	8,198	6,077	0.0
Groundnut	0	0	0	0	0	0	0.0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>		<b>6,184</b>		<b>6,184</b>	<b>0.0</b>
Okra	0	0	222	56	222	56	0.0
Turmeric	0	0	0	0	0	0	0.0
Bitteer Aubergine	0	0	0	0	0	0	0.0
Onion	0	0	0	0	0	0	0.0
Cabbage	0	0	0	0	0	0	0.0
Tomatoes	0	0	222	78	222	78	0.0
Spinach	0	0	0	0	0	0	0.0
Carrot	0	0	0	0	0	0	0.0
Chillies	0	0	0	0	0	0	0.0
Amaranths	0	0	0	0	0	0	0.0
Pumpkins	0	0	0	0	0	0	0.0
Cucumber	0	0	0	0	0	0	0.0
Egg Plant	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0.0
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>		<b>135</b>		<b>135</b>	<b>0.0</b>
Cotton	0	0	332	314	332	314	0.0
Jute	0	0	0	0	0	0	0.0
<b>CASH CROPS</b>		<b>0</b>		<b>314</b>		<b>314</b>	<b>0.0</b>
<b>Total</b>		<b>275</b>		<b>45,884</b>		<b>46,159</b>	<b>0.6</b>

**5.125 Planted Area & Number of Households by Irrigation Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - Kibaha Dist**

Crop	Irrigation						
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Household Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of Planted area using Irrigation
Maize	0	0	5,776	2,583	5,776	2,583	0
Paddy	90	14	4,919	2,713	5,009	2,727	1
Sorghum	0	0	1,264	419	1,264	419	0
Bulrush Millet	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>14</b>		<b>5,715</b>		<b>5,729</b>	<b>0</b>
Yam	0	0	0	0	0	0	0
Cassava	0	0	0	0	0	0	0
Sweet Potato	0	0	451	182	451	182	0
Yams	0	0	45	9	45	9	0
Coco Yam	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>0</b>		<b>191</b>		<b>191</b>	<b>0</b>
Mung Bean	0	0	0	0	0	0	0
Beans	0	0	45	4	45	4	0
Cowpeas	0	0	1,670	345	1,670	345	0
Green gram	0	0	45	9	45	9	0
Field Peas	0	0	0	0	0	0	0
<b>PULSES</b>		<b>0</b>		<b>358</b>		<b>358</b>	<b>0</b>
Sunflower	0	0	90	23	90	23	0
Simsim	0	0	406	146	406	146	0
Groundnut	0	0	0	0	0	0	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>		<b>170</b>		<b>170</b>	<b>0</b>
Okra	226	50	1,038	262	1,264	312	16
Turmeric	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	45	9	45	9	0
Onion	0	0	45	5	45	5	0
Cabbage	0	0	45	5	45	5	0
Tomatoes	90	32	722	182	812	214	15
Spinach	45	9	0	0	45	9	100
Carrot	0	0	45	5	45	5	0
Chillies	0	0	90	10	90	10	0
Amaranths	45	9	0	0	45	9	100
Pumpkins	0	0	45	5	45	5	0
Cucumber	0	0	45	5	45	5	0
Egg Plant	45	1	45	17	90	18	6
Water Mellon	0	.	45	5	45	#VALUE!	0
<b>FRUITS &amp; VEGETABLES</b>		<b>102</b>		<b>508</b>		<b>609</b>	<b>17</b>
Cotton	0	0	0	0	0	0	0
Jute	0	0	45	18	45	18	0
<b>CASH CROPS</b>		<b>0</b>		<b>18</b>		<b>18</b>	<b>0</b>
<b>Total</b>		<b>115</b>		<b>6,959</b>		<b>7,075</b>	<b>2</b>

**5.126 Planted Area & Number of Households by Irrigation Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - Kisarawe District**

Crop	Irrigation						
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of Planted area using Irrigation
Maize	115	12	5,652	2,777	5,767	2,789	0.4
Paddy	58	3	2,883	1,754	2,941	1,757	0.2
Sorghum	0	0	865	201	865	201	0.0
Bulrush Millet	0	0	0	0	0	0	0.0
Wheat	0	0	0	0	0	0	0.0
<b>CEREALS</b>		<b>15</b>		<b>4,731</b>		<b>4,746</b>	<b>0.3</b>
Yam	0	0	0	0	0	0	0.0
Cassava	0	0	0	0	0	0	0.0
Sweet Potato	0	0	519	129	519	129	0.0
Yams	0	0	0	0	0	0	0.0
Coco Yam	0	0	0	0	0	0	0.0
<b>ROOTS &amp; TUBERS</b>		<b>0</b>		<b>129</b>		<b>129</b>	<b>0.0</b>
Mung Bean	0	0	0	0	0	0	0.0
Beans	0	0	115	35	115	35	0.0
Cowpeas	58	47	2,999	1,058	3,056	1,105	4.2
Green gram	0	0	58	9	58	9	0.0
Field Peas	0	0	0	0	0	0	0.0
<b>PULSES</b>		<b>47</b>		<b>1,102</b>		<b>1,149</b>	<b>4.1</b>
Sunflower	0	0	0	0	0	0	0.0
Simsim	0	0	865	490	865	490	0.0
Groundnut	0	0	0	0	0	0	0.0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>		<b>490</b>		<b>490</b>	<b>0.0</b>
Okra	115	3	231	61	346	64	4.4
Turmeric	0	0	58	23	58	23	0.0
Bitteer Aubergine	0	0	0	0	0	0	0.0
Onion	0	0	58	12	58	12	0.0
Cabbage	58	2	0	1	58	3	75.0
Tomatoes	58	2	0	1	58	3	75.0
Spinach	58	2	0	1	58	3	75.0
Carrot	0	0	0	0	0	0	0.0
Chillies	58	12	0	0	58	12	100.0
Amaranths	115	3	58	12	173	14	19.6
Pumpkins	0	0	58	3	58	3	0.0
Cucumber	0	0	0	0	0	0	0.0
Egg Plant	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0.0
<b>FRUITS &amp; VEGETABLES</b>		<b>24</b>		<b>113</b>		<b>137</b>	<b>17.5</b>
Cotton	0	0	0	0	0	0	0.0
Jute	0	0	0	0	0	0	0.0
<b>CASH CROPS</b>		<b>0</b>		<b>0</b>		<b>0</b>	<b>0.0</b>
<b>Total</b>		<b>86</b>		<b>6,566</b>		<b>6,652</b>	<b>1.3</b>

**5.126 Planted Area & Number of Households by Irrigation Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - Mkuranga District**

Crop	Irrigation						
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of Planted area using Irrigation
Maize	0	0	5,424	2,938	5,424	2,938	0
Paddy	325	92	11,499	6,589	11,824	6,681	1.4
Sorghum	108	16	434	223	542	239	6.9
Bulrush Millet	0	0	108	26	108	26	0
Wheat	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>109</b>		<b>9,776</b>		<b>9,885</b>	<b>1.1</b>
Yam	0	0	0	0	0	0	0
Cassava	0	0	108	22	108	22	0
Sweet Potato	0	0	2,712	922	2,712	922	0
Yams	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>0</b>		<b>944</b>		<b>944</b>	<b>0</b>
Mung Bean	0	0	0	0	0	0	0
Beans	0	0	108	44	108	44	0
Cowpeas	0	0	2,387	532	2,387	532	0
Green gram	0	0	217	33	217	33	0
Field Peas	0	0	0	0	0	0	0
<b>PULSES</b>		<b>0</b>		<b>609</b>		<b>609</b>	<b>0</b>
Sunflower	0	0	0	0	0	0	0
Simsim	108	16	976	497	1,085	514	3.2
Groundnut	0	0	0	0	0	0	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>16</b>		<b>497</b>		<b>514</b>	<b>3.2</b>
Okra	0	0	108	7	108	7	0
Turmeric	0	0	0	0	0	0	0
Bitteer Aubergine	108	44	0	0	108	44	100
Onion	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0
Tomatoes	0	0	0	0	0	0	0
Spinach	0	0	0	0	0	0	0
Carrot	0	0	0	0	0	0	0
Chillies	108	11	0	0	108	11	100
Amaranths	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0
Cucumber	108	44	108	53	217	97	45.5
Egg Plant	0	0	0	0	0	0	0
Water Mellon	217	154	0	0	217	154	100
<b>FRUITS &amp; VEGETABLES</b>		<b>253</b>		<b>59</b>		<b>312</b>	<b>81</b>
Cotton	0	0	0	0	0	0	0
Jute	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
<b>Total</b>		<b>378</b>		<b>11,886</b>		<b>12,264</b>	<b>3.1</b>

**5.127 Planted Area & Number of Households by Irrigation Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - Rufiji District**

Crop	Irrigation						
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Household Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	% of Planted area using Irrigation
Maize	87	35	5,153	2,420	5,240	2,455	1.4
Paddy	1,310	672	6,812	3,903	8,122	4,575	14.7
Sorghum	0	0	1,310	504	1,310	504	0
Bulrush Millet	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>707</b>		<b>6,827</b>		<b>7,534</b>	<b>9.4</b>
Yam	0	0	0	0	0	0	0
Cassava	0	0	0	0	0	0	0
Sweet Potato	0	0	262	53	262	53	0
Yams	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>0</b>		<b>53</b>		<b>53</b>	<b>0</b>
Mung Bean	0	0	0	0	0	0	0
Beans	0	0	262	71	262	71	0
Cowpeas	0	0	175	27	175	27	0
Green gram	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0
<b>PULSES</b>		<b>0</b>		<b>97</b>		<b>97</b>	<b>0</b>
Sunflower	0	0	0	0	0	0	0
Simsim	0	0	2,882	1,114	2,882	1,114	0
Groundnut	0	0	87	35	87	35	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>		<b>1,149</b>		<b>1,149</b>	<b>0</b>
Okra	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0
Tomatoes	175	71	0	0	175	71	100
Spinach	0	0	0	0	0	0	0
Carrot	0	0	0	0	0	0	0
Chillies	0	0	0	0	0	0	0
Amaranths	87	18	0	0	87	18	100
Pumpkins	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0
<b>FRUITS &amp; VEGETABLES</b>		<b>88</b>		<b>0</b>		<b>88</b>	<b>100</b>
Cotton	0	0	0	0	0	0	0
Jute	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
<b>Total</b>		<b>796</b>		<b>8,126</b>		<b>8,922</b>	<b>8.9</b>

**5.127 Planted Area & Number of Households by Irrigation Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - Mafia District**

Crop	Irrigation						
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Household	Total Planted Area in MASIKA	% of Planted area using Irrigation
					Total Number of Households Planting in MASIKA		
Maize	0	0	581	145	581	145	0
Paddy	29	6	3,777	1,503	3,806	1,509	0.3897116
Sorghum	0	0	203	32	203	32	0
Bulrush Millet	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>6</b>		<b>1,680</b>		<b>1,686</b>	<b>0.3488697</b>
Yam	0	0	291	100	291	100	0
Cassava	0	0	116	30	116	30	0
Sweet Potato	0	0	320	68	320	68	0
Yams	29	3	0	0	29	3	100
Coco Yam	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>3</b>		<b>198</b>		<b>201</b>	<b>1.4662757</b>
Mung Bean	0	0	0	0	0	0	0
Beans	0	0	116	26	116	26	0
Cowpeas	0	0	116	9	116	9	0
Green gram	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0
<b>PULSES</b>		<b>0</b>		<b>36</b>		<b>36</b>	<b>0</b>
Sunflower	0	0	0	0	0	0	0
Simsim	0	0	0	0	0	0	0
Groundnut	0	0	116	26	116	26	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>		<b>26</b>		<b>26</b>	<b>0</b>
Okra	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0
Tomatoes	0	0	58	24	58	24	0
Spinach	0	0	0	0	0	0	0
Carrot	0	0	0	0	0	0	0
Chillies	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0
Pumpkins	0	0	174	32	174	32	0
Cucumber	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>		<b>56</b>		<b>56</b>	<b>0</b>
Cotton	0	0	0	0	0	0	0
Jute	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
<b>Total</b>		<b>9</b>		<b>1,995</b>		<b>2,004</b>	<b>0.4402183</b>



**5.128 Planted Area & Number of Households by Improved Seeds Use by Crop during 2007/08 agriculture year - Long RAINY SEASON - Bagamoyo.**

Crop	Improved Seed							% of area planted using improved seed
	Number of Households using Improved Seed	Planted Area Improved Seed Used	Cost of Improved Seeds	Number of Households NOT using Improved Seeds	Planted Area Improved Seed not Used	Total Number of Households Planting in Masika	Total Planted Area in Masika	
Maize	2,880	2,610	57,541,572	27,807	30,202	30,687	32,812	8
Paddy	554	247	6,414,434	3,324	2,119	3,877	2,366	10
Sorghum	665	265	7,367,182	3,213	2,018	3,877	2,283	12
Bulrush Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>3,121</b>	<b>71,323,188</b>		<b>34,340</b>	<b>38,442</b>	<b>37,461</b>	<b>8</b>
Yam	0	0	0	0	0	0	0	0
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	443	292	443	292	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>292</b>	<b>443</b>	<b>292</b>	<b>0</b>
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	111	13	111	13	0
Cowpeas	665	139	4,054,720	4,210	1,415	4,875	1,554	9
Green gram	0	0	0	332	184	332	184	0
Field Peas	0	0	0	111	22	111	22	0
<b>PULSES</b>		<b>139</b>	<b>4,054,720</b>		<b>1,634</b>	<b>5,428</b>	<b>1,774</b>	<b>8</b>
Sunflower	222	85	609,316	111	22	332	108	79
Simsim	0	0	.	8,198	6,077	8,198	6,077	0
Groundnut	0	.	0	0	0	0	0	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>85</b>	<b>609,316</b>		<b>6,099</b>	<b>8,530</b>	<b>6,184</b>	<b>1</b>
Okra	0	0	0	222	56	222	56	0
Turmeric	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	.	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0
Cabbage	0	0	0	0	.	0	0	0
Tomatoes	222	78	1,484,515	0	0	222	78	100
Spinach	0	0	0	0	0	0	0	0
Carrot	0	0	0	0	0	0	0	0
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
<b>FRUITS &amp; VEGETABLES</b>		<b>78</b>	<b>1,484,515</b>		<b>56</b>	<b>443</b>	<b>135</b>	<b>58</b>
Cotton	332	314	1,107,847	0	0	332	314	100
Jute	0	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>314</b>	<b>1,107,847</b>		<b>0</b>	<b>332</b>	<b>314</b>	<b>100</b>
<b>Total</b>		<b>3,738</b>	<b>78,579,586</b>		<b>42,421</b>	<b>53,620</b>	<b>46,159</b>	<b>8</b>

**5.129 Planted Area & Number of Households by Improved Seeds Use by Crop during 2007/08 agriculture year - Long RAINY SEASON - Kibaha District**

Crop	Improved Seed							% of area planted using improved seed
	Number of Households using Improved Seed	Planted Area Improved Seed Used	Cost of Improved Seeds	Number of Households NOT using Improved Seeds	Planted Area Improved Seed not Used	Total Number of Households Planting in Masika	Total Planted Area in Masika	
Maize	2,121	897	30,529,206	3,655	1,685	5,776	2,583	35
Paddy	361	276	5,551,585	4,648	2,450	5,009	2,727	10
Sorghum	0	0	0	1,264	419	1,264	419	0
Bulrush Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>1,174</b>	<b>36,080,791</b>		<b>4,555</b>	<b>12,049</b>	<b>5,729</b>	<b>20</b>
Yam	0	0	0	0	0	0	0	0
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	451	182	451	182	0
Yams	0	0	0	45	9	45	9	0
Coco Yam	0	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>191</b>	<b>496</b>	<b>191</b>	<b>0</b>
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	45	4	45	4	0
Cowpeas	181	29	347,482	1,489	316	1,670	345	8
Green gram	0	0	0	45	9	45	9	0
Field Peas	0	0	0	0	0	0	0	0
<b>PULSES</b>		<b>29</b>	<b>347,482</b>		<b>328</b>	<b>1,760</b>	<b>358</b>	<b>8</b>
Sunflower	90	23	315,893	0	0	90	23	100
Simsim	90	27	3,655,328	316	119	406	146	19
Groundnut	0	0	0	0	0	0	0	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>51</b>	<b>3,971,220</b>		<b>119</b>	<b>496</b>	<b>170</b>	<b>30</b>
Okra	903	243	15,000,381	361	69	1,264	312	78
Turmeric	0	0	0	0	0	0	0	0
Bitter Aubergine	45	7	270,765	0	2	45	9	75
Onion	45	5	248,201	0	0	45	5	100
Cabbage	45	5	248,201	0	0	45	5	100
Tomatoes	632	170	8,854,016	181	43	812	214	80
Spinach	45	9	586,658	0	0	45	9	100
Carrot	45	5	248,201	0	0	45	5	100
Chillies	90	10	383,584	0	0	90	10	100
Amaranths	45	9	121,844	0	0	45	9	100
Pumpkins	0	0	0	45	5	45	5	0
Cucumber	45	5	315,893	0	0	45	5	100
Egg Plant	90	16	293,329	0	2	90	18	88
Water Mellon	45	5	338,456	0	0	45	5	100
<b>FRUITS &amp; VEGETABLES</b>		<b>487</b>	<b>26,909,529</b>		<b>122</b>	<b>2,663</b>	<b>609</b>	<b>80</b>
Cotton	0	0	0	0	0	0	0	0
Jute	45	18	90,255	0	0	45	18	100
<b>CASH CROPS</b>		<b>18</b>	<b>90,255</b>		<b>0</b>	<b>45</b>	<b>18</b>	<b>100</b>
<b>Total</b>		<b>1,759</b>	<b>67,399,276</b>		<b>5,315</b>	<b>17,509</b>	<b>7,075</b>	<b>25</b>

**5.130 Planted Area & Number of Households by Improved Seeds Use by Crop during 2007/08 agriculture year - Long RAINY SEASON - Kisarawe District**

Crop	Improved Seed							% of area planted using improved seed
	Number of Households using Improved Seed	Planted Area Improved Seed Used	Cost of Improved Seeds	Number of Households NOT using Improved Seeds	Planted Area Improved Seed not Used	Total Number of Households Planting in Masika	Total Planted Area in Masika	
Maize	577	660	84,687,606	5,190	2,129	5,767	2,789	24
Paddy	115	12	1,384,067	2,826	1,745	2,941	1,757	1
Sorghum	0	0	0	865	201	865	201	0
Bulrush Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>671</b>	<b>86,071,673</b>		<b>4,075</b>	<b>9,573</b>	<b>4,746</b>	<b>14</b>
Yam	0	0	0	0	0	0	0	0
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	519	129	519	129	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>129</b>	<b>519</b>	<b>129</b>	<b>0</b>
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	115	35	115	35	0
Cowpeas	346	163	22,998,582	2,710	942	3,056	1,105	15
Green gram	0	0	0	58	9	58	9	0
Field Peas	0	0	0	0	0	0	0	0
<b>PULSES</b>		<b>163</b>	<b>22,998,582</b>		<b>986</b>	<b>3,229</b>	<b>1,149</b>	<b>14</b>
Sunflower	0	0	0	0	0	0	0	0
Simsim	0	0	0	865	490	865	490	0
Groundnut	0	0	0	0	0	0	0	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>490</b>	<b>865</b>	<b>490</b>	<b>0</b>
Okra	173	4	201,843	173	60	346	64	7
Turmeric	0	0	0	58	23	58	23	0
Bitteer Aubergine	0	0	0	0	0	0	0	0
Onion	58	1	86,504	0	10	58	12	13
Cabbage	58	3	173,008	0	0	58	3	100
Tomatoes	58	3	230,678	0	0	58	3	100
Spinach	58	3	173,008	0	0	58	3	100
Carrot	0	0	0	0	0	0	0	0
Chillies	0	0	0	58	12	58	12	0
Amaranths	115	4	115,339	58	11	173	14	24
Pumpkins	0	0	0	58	3	58	3	0
Cucumber	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
<b>FRUITS &amp; VEGETABLES</b>		<b>18</b>	<b>980,381</b>		<b>119</b>	<b>923</b>	<b>137</b>	<b>13</b>
Cotton	0	0	0	0	0	0	0	0
Jute	0	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total</b>		<b>852</b>	<b>110,050,636</b>		<b>5,800</b>	<b>15,109</b>	<b>6,652</b>	<b>13</b>

**5.131: Planted Area & Number of Crop Growing Households by Improved seed Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON Mkuranga District**

Crop	Improved Seed							% of area planted using improved seed
	Number of Households using Improved Seed	Planted Area Improved Seed Used	Cost of Improved Seeds	Number of Households NOT using Improved Seeds	Planted Area Improved Seed not Used	Total Number of Households Planting in Masika	Total Planted Area in Masika	
Maize	2,387	1,130	17,036,387	3,037	1,808	5,424	2,938	38
Paddy	217	220	4,339,099	11,607	6,462	11,824	6,681	3
Sorghum	0	0	0	542	239	542	239	0
Bulrush Millet	0	0	0	108	26	108	26	0
Wheat	0	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>1,350</b>	<b>21,375,486</b>		<b>8,535</b>	<b>17,899</b>	<b>9,885</b>	<b>14</b>
Yam	0	0	0	0	0	0	0	0
Cassava	0	0	0	108	22	108	22	0
Sweet Potato	217	66	2,299,722	2,495	856	2,712	922	7
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>66</b>	<b>2,299,722</b>		<b>878</b>	<b>2,820</b>	<b>944</b>	<b>7</b>
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	108	44	108	44	0
Cowpeas	542	79	908,499	1,844	453	2,387	532	15
Green gram	0	0	0	217	33	217	33	0
Field Peas	0	0	0	0	0	0	0	0
<b>PULSES</b>		<b>79</b>	<b>908,499</b>		<b>530</b>	<b>2,712</b>	<b>609</b>	<b>13</b>
Sunflower	0	0	0	0	0	0	0	0
Simsim	108	66	379,671	976	448	1,085	514	13
Groundnut	0	0	0	0	0	0	0	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>66</b>	<b>379,671</b>		<b>448</b>	<b>1,085</b>	<b>514</b>	<b>13</b>
Okra	108	7	1,084,775	0	0	108	7	100
Turmeric	0	0	0	0	0	0	0	0
Bitteer Aubergine	108	44	759,342	0	0	108	44	100
Onion	0	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	0	0	0	0	0
Spinach	0	0	0	0	0	0	0	0
Carrot	0	0	0	0	0	0	0	0
Chillies	108	11	1,084,775	0	0	108	11	100
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	217	97	1,952,594	0	0	217	97	100
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	217	154	2,874,653	0	0	217	154	100
<b>FRUITS &amp; VEGETABLES</b>		<b>312</b>	<b>7,756,139</b>		<b>0</b>	<b>759</b>	<b>312</b>	<b>100</b>
Cotton	0	0	0	0	0	0	0	0
Jute	0	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total</b>		<b>1,873</b>	<b>32,719,517</b>		<b>10,391</b>	<b>25,275</b>	<b>12,264</b>	<b>15</b>

**5.132 Planted Area & Number of Crop Growing Households by Improved seed Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON Rufiji District**

Crop	Improved Seed							% of area planted using improved seed
	Number of Households using Improved Seed	Planted Area Improved Seed Used	Cost of Improved Seeds	Number of Households NOT using Improved Seeds	Planted Area Improved Seed not Used	Total Number of Households Planting in Masika	Total Planted Area in Masika	
Maize	87	35	419,220	5,153	2,420	5,240	2,455	1.4
Paddy	0	0	0	8,122	4,575	8,122	4,575	0.0
Sorghum	0	0	0	1,310	504	1,310	504	0.0
Bulrush Millet	0	0	0	0	0	0	0	0.0
Wheat	0	0	0	0	0	0	0	0.0
<b>CEREALS</b>		<b>35</b>	<b>419,220</b>		<b>7,499</b>	<b>14,673</b>	<b>7,534</b>	<b>0.5</b>
Yam	0	0	0	0	0	0	0	0.0
Cassava	0	0	0	0	0	0	0	0.0
Sweet Potato	0	0	0	262	53	262	53	0.0
Yams	0	0	0	0	0	0	0	0.0
Coco Yam	0	0	0	0	0	0	0	0.0
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>53</b>	<b>262</b>	<b>53</b>	<b>0.0</b>
Mung Bean	0	0	0	0	0	0	0	0.0
Beans	0	0	0	262	71	262	71	0.0
Cowpeas	0	0	0	175	27	175	27	0.0
Green gram	0	0	0	0	0	0	0	0.0
Field Peas	0	0	0	0	0	0	0	0.0
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>97</b>	<b>437</b>	<b>97</b>	<b>0.0</b>
Sunflower	0	0	0	0	0	0	0	0.0
Simsim	262	106	480,356	2,620	1,008	2,882	1,114	9.5
Groundnut	0	0	0	87	35	87	35	0.0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>106</b>	<b>480,356</b>		<b>1,043</b>	<b>2,969</b>	<b>1,149</b>	<b>9.2</b>
Okra	0	0	0	0	0	0	0	0.0
Turmeric	0	0	0	0	0	0	0	0.0
Bitteer Aubergine	0	0	0	0	0	0	0	0.0
Onion	0	0	0	0	0	0	0	0.0
Cabbage	0	0	0	0	0	0	0	0.0
Tomatoes	87	35	611,362	87	35	175	71	50.0
Spinach	0	0	0	0	0	0	0	0.0
Carrot	0	0	0	0	0	0	0	0.0
Chillies	0	0	0	0	0	0	0	0.0
Amaranths	0	0	0	87	18	87	18	0.0
Pumpkins	0	0	0	0	0	0	0	0.0
Cucumber	0	0	0	0	0	0	0	0.0
Egg Plant	0	0	0	0	0	0	0	0.0
Water Mellon	0	0	0	0	0	0	0	0.0
<b>FRUITS &amp; VEGETABLES</b>		<b>35</b>	<b>611,362</b>		<b>53</b>	<b>262</b>	<b>88</b>	<b>40.0</b>
Cotton	0	0	0	0	0	0	0	0.0
Jute	0	0	0	0	0	0	0	0.0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>
<b>Total</b>		<b>177</b>	<b>1,510,937</b>		<b>8,745</b>	<b>18,603</b>	<b>8,922</b>	<b>2.0</b>

**5.134 Planted Area & Number of Crop Growing Households by Improved seed Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON Mafia District**

Crop	Improved Seed							% of area planted using improved seed
	Number of Households using Improved Seed	Planted Area Improved Seed Used	Cost of Improved Seeds	Number of Households NOT using Improved Seeds	Planted Area Improved Seed not Used	Total Number of Households Planting in Masika	Total Planted Area in Masika	
Maize	145	37	1,046,051	436	108	581	145	26
Paddy	29	9	174,342	3,777	1,500	3,806	1,509	1
Sorghum	0	0	0	203	32	203	32	0
Bulrush Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>46</b>	<b>1,220,393</b>		<b>1,640</b>	<b>4,591</b>	<b>1,686</b>	<b>3</b>
Yam	0	0	0	291	100	291	100	0
Cassava	0	0	0	116	30	116	30	0
Sweet Potato	0	0	0	320	68	320	68	0
Yams	0	0	0	29	3	29	3	0
Coco Yam	0	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>201</b>	<b>755</b>	<b>201</b>	<b>0</b>
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	116	26	116	26	0
Cowpeas	0	0	0	116	9	116	9	0
Green gram	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>36</b>	<b>232</b>	<b>36</b>	<b>0</b>
Sunflower	0	0	0	0	0	0	0	0
Simsim	0	0	0	0	0	0	0	0
Groundnut	0	0	0	116	26	116	26	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>26</b>	<b>116</b>	<b>26</b>	<b>0</b>
Okra	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0	0
Tomatoes	29	18	697,368	29	6	58	24	75
Spinach	0	0	0	0	0	0	0	0
Carrot	0	0	0	0	0	0	0	0
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	174	32	174	32	0
Cucumber	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
<b>FRUITS &amp; VEGETABLES</b>		<b>18</b>	<b>697,368</b>		<b>38</b>	<b>232</b>	<b>56</b>	<b>32</b>
Cotton	0	0	0	0	0	0	0	0
Jute	0	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Total</b>		<b>64</b>	<b>1,917,761</b>		<b>1,941</b>	<b>5,928</b>	<b>2,004</b>	<b>3</b>

**5.136 Planted Area & Number of Crop Growing Households by Local seed Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON – Bagamoyo**

Crop	Local Seed							
	Number of Households using Local seed	Planted Area Applied with Local seed	Number of Households not using Local seed	Planted Area Applied with no Local seed	Cost of Local seed	Total Number of Households Planting in Masika	Total Planted Area in Masika	% of area planted using Local seed
Maize	27,807	30,039	2,880	2,773	294,399,254	30,687	32,812	92
Paddy	3,324	2,007	554	359	53,232,047	3,877	2,366	85
Sorghum	3,213	2,018	665	265	16,927,902	3,877	2,283	88
Bulrush Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>34,065</b>		<b>3,396</b>	<b>364,559,203</b>		<b>37,461</b>	<b>91</b>
Yam	0	0	0	0	0	0	0	0
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	443	224	0	67	3,788,837	443	292	77
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	.	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>224</b>		<b>67</b>	<b>3,788,837</b>		<b>292</b>	<b>0</b>
Mung Bean	0	0	0	.	0	0	0	0
Beans	111	13	0	.	1,329,416	111	0	0
Cowpeas	4,210	1,415	665	139	13,371,713	4,875	1,554	91
Green gram	332	184	0	.	775,493	332	0	0
Field Peas	111	22	0	.	177,256	111	0	0
<b>PULSES</b>		<b>1,634</b>		<b>139</b>	<b>15,653,878</b>		<b>1,774</b>	<b>92</b>
Sunflower	111	22	222	85	88,628	332	108	21
Simsim	8,198	6,077	0	.	31,551,482	8,198	0	0
Groundnut	0	0	0	0	0	0	0	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>6,099</b>		<b>85</b>	<b>31,640,110</b>		<b>6,184</b>	<b>99</b>
Okra	222	56	0	.	886,278	222	0	0
Turmeric	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0	0
Tomatoes	0	0	222	78	0	222	78	0
Spinach	0	0	0	0	0	0	0	0
Carrot	0	0	0	0	0	0	0	0
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
<b>FRUITS &amp; VEGETABLES</b>		<b>56</b>		<b>78</b>	<b>886,278</b>		<b>135</b>	<b>42</b>
Cotton	0	0	332	314	0	332	314	0
Jute	0	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>		<b>314</b>	<b>0</b>		<b>314</b>	<b>0</b>
<b>Total</b>		<b>42,079</b>		<b>4,080</b>	<b>416,528,305</b>		<b>46,159</b>	<b>91</b>

**5.137 Planted Area & Number of Crop Growing Households by Local seed Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - Kibaha District**

Crop	Local Seed							
	Number of Households using Local seed	Planted Area Applied with Local seed	Number of Households not using Local seed	Planted Area Applied with no Local seed	Cost of Local seed	Household Total Number of Households Planting in Masika	Total Planted Area in Masika	% of area planted using Local seed
Maize	3,655	1,671	2,121	912	30,118,365	5,776	2,583	65
Paddy	4,648	2,439	361	288	73,304,661	5,009	2,727	89
Sorghum	1,264	419	0	0	5,699,829	1,264	419	100
Bulrush Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>4,529</b>		<b>1,200</b>	<b>109,122,855</b>		<b>5,729</b>	<b>79</b>
Yam	0	0	0	0	0	0	0	0
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	451	182	0	0	6,184,724	451	182	100
Yams	45	9	0	0	112,819	45	9	100
Coco Yam	0	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>191</b>		<b>0</b>	<b>6,297,543</b>		<b>191</b>	<b>100</b>
Mung Bean	0	0	0	0	0	0	0	0
Beans	45	4	0	.	13,538	45	0	0
Cowpeas	1,489	310	181	35	2,794,295	1,670	345	90
Green gram	45	9	0	0	451,275	45	9	100
Field Peas	0	0	0	0	0	0	0	0
<b>PULSES</b>		<b>323</b>		<b>35</b>	<b>3,259,108</b>		<b>358</b>	<b>90</b>
Sunflower	0	0	90	23	0	90	23	0
Simsim	316	119	90	27	1,263,570	406	146	81
Groundnut	0	0	0	0	0	0	0	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>119</b>		<b>51</b>	<b>1,263,570</b>		<b>170</b>	<b>70</b>
Okra	361	65	903	248	2,468,474	1,264	312	21
Turmeric	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	45	9	0	45	9	0
Onion	0	0	45	5	0	45	5	0
Cabbage	0	0	45	5	0	45	5	0
Tomatoes	181	41	632	173	1,263,570	812	214	19
Spinach	0	0	45	9	0	45	9	0
Carrot	0	0	45	5	0	45	5	0
Chillies	0	0	90	10	0	90	10	0
Amaranths	0	0	45	9	0	45	9	0
Pumpkins	45	5	0	0	315,893	45	5	100
Cucumber	0	0	45	5	0	45	5	0
Egg Plant	0	0	90	18	0	90	18	0
Water Mellon	0	0	45	5	0	45	5	0
<b>FRUITS &amp; VEGETABLES</b>		<b>111</b>		<b>499</b>	<b>4,047,937</b>		<b>609</b>	<b>18</b>
Cotton	0	0	0	0	0	0	0	0
Jute	0	0	45	18	0	45	18	0
<b>CASH CROPS</b>		<b>0</b>		<b>18</b>	<b>0</b>		<b>18</b>	<b>0</b>
<b>Total</b>		<b>5,272</b>		<b>1,803</b>	<b>123,991,013</b>		<b>7,075</b>	<b>75</b>



**5.138 Planted Area & Number of Crop Growing Households by Local seed Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - Kisarawe District**

Crop	Local Seed							
	Number of Households using Local seed	Planted Area Applied with Local seed	Number of Households not using Local seed	Planted Area Applied with no Local seed	Cost of Local seed	Household Total Number of Households Planting in Masika	Total Planted Area in Masika	% of area planted using Local seed
Maize	5,190	1,986	577	803	119,228,731	5,767	2,789	71
Paddy	2,826	1,581	115	176	139,427,460	2,941	1,757	90
Sorghum	865	171	0	29	888,110	865	201	85
Bulrush Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>3,739</b>		<b>1,008</b>	<b>259,544,301</b>		<b>4,746</b>	<b>79</b>
Yam	0	0	0	0	0	0	0	0
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	519	121	0	9	9,815,343	519	129	93
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>121</b>		<b>9</b>	<b>9,815,343</b>		<b>129</b>	<b>93</b>
Mung Bean	0	0	0	0	0	0	0	0
Beans	115	35	0	0	865,042	115	35	100
Cowpeas	2,710	893	346	212	40,146,597	3,056	1,105	81
Green gram	58	9	0	0	1,730,084	58	9	100
Field Peas	0	0	0	0	0	0	0	0
<b>PULSES</b>		<b>937</b>		<b>212</b>	<b>42,741,722</b>		<b>1,149</b>	<b>82</b>
Sunflower	0	0	0	0	0	0	0	0
Simsim	865	479	0	12	3,454,401	865	490	98
Groundnut	0	0	0	0	0	0	0	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>479</b>		<b>12</b>	<b>3,454,401</b>		<b>490</b>	<b>98</b>
Okra	173	27	173	38	178,775	346	64	42
Turmeric	58	23	0	0	115,339	58	23	100
Bitteer Aubergine	0	0	0	0	0	0	0	0
Onion	0	0	58	12	0	58	12	0
Cabbage	0	0	58	3	0	58	3	0
Tomatoes	0	0	58	3	0	58	3	0
Spinach	0	0	58	3	0	58	3	0
Carrot	0	0	0	.	0	0	0	0
Chillies	58	1	0	10	57,669	58	12	13
Amaranths	58	6	115	9	57,669	173	14	40
Pumpkins	58	2	0	1	23,068	58	3	75
Cucumber	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
<b>FRUITS &amp; VEGETABLES</b>		<b>60</b>		<b>78</b>	<b>432,521</b>		<b>137</b>	<b>43</b>
Cotton	0	0	0	0	0	0	0	0
Jute	0	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>
<b>Total</b>		<b>5,335</b>		<b>1,318</b>	<b>315,988,288</b>		<b>6,652</b>	<b>80</b>

**5.139 Planted Area & Number of Crop Growing Households by Local seed Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - Mkuranga District**

Crop	Local Seed							
	Number of Households using Local seed	Planted Area Applied with Local seed	Number of Households not using Local seed	Planted Area Applied with no Local seed	Cost of Local seed	Total Number of Households Planting in Masika	Total Planted Area in Masika	% of area planted using Local seed
Maize	3,037	1,731	2,387	1,207	41,590,262	5,424	2,938	59
Paddy	11,607	6,412	217	269	191,729,591	11,824	6,681	96
Sorghum	542	239	0	0	1,155,285	542	239	100
Bulrush Millet	108	26	0	0	173,564	108	26	100
Wheat	0	0	0	0	0	0	0	0
CEREALS	15,295	8,409	2,603	1,476	234,648,703	17,899	9,885	85
Yam	0	0	0	0	0	0	0	0
Cassava	108	22	0	0	867,820	108	22	100
Sweet Potato	2,495	735	217	187	29,749,946	2,712	922	80
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>757</b>		<b>187</b>	<b>30,617,766</b>		<b>944</b>	<b>80</b>
Mung Bean	0	0	0	0	0	0	0	0
Beans	108	44	0	0	216,955	108	44	100
Cowpeas	1,844	418	542	115	2,283,451	2,387	532	78
Green gram	217	33	0	0	144,275	217	33	100
Field Peas	0	.	0	0	0	0	0	0
<b>PULSES</b>		<b>495</b>		<b>115</b>	<b>2,644,681</b>		<b>609</b>	<b>81</b>
Sunflower	0	0	0	0	0	0	0	0
Simsim	976	448	108	66	10,668,759	1,085	514	87
Groundnut	0	0	0	0	0	0	0	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>448</b>		<b>66</b>	<b>10,668,759</b>		<b>514</b>	<b>87</b>
Okra	0	0	108	7	0	108	7	0
Turmeric	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	108	44	0	108	44	0
Onion	0	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	0	0	0	0	0
Spinach	0	0	0	0	0	0	0	0
Carrot	0	0	0	0	0	0	0	0
Chillies	0	0	108	11	0	108	11	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	217	97	0	217	97	0
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	217	154	0	217	154	0
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>		<b>312</b>	<b>0</b>		<b>312</b>	<b>0</b>
Cotton	0	0	0	0	0	0	0	0
Jute	0	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>
<b>Total</b>		<b>10,109</b>		<b>2,155</b>	<b>278,579,909</b>		<b>12,264</b>	<b>82</b>

**5.140 Planted Area & Number of Crop Growing Households by Local seed Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - Rufiji District**

Crop	Local Seed							
	Number of Households using Local seed	Planted Area Applied with Local seed	Number of Households not using Local seed	Planted Area Applied with no Local seed	Cost of Local seed	Total Number of Households Planting in Masika	Total Planted Area in Masika	% of area planted using Local seed
Maize	5,153	2,420	87	35	22,995,944	5,240	2,455	99
Paddy	8,122	4,575	0	0	255,472,880	8,122	4,575	100
Sorghum	1,310	504	0	0	6,323,229	1,310	504	100
Bulrush Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>7,499</b>		<b>35</b>	<b>284,792,053</b>		<b>7,534</b>	<b>100</b>
Yam	0	0	0	0	0	0	0	0
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	262	53	0	0	1,310,061	262	53	100
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>53</b>		<b>0</b>	<b>1,310,061</b>		<b>53</b>	<b>100</b>
Mung Bean	0	0	0	0	0	0	0	0
Beans	262	71	0	0	366,817	262	71	100
Cowpeas	175	27	0	0	2,663,791	175	27	100
Green gram	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0
<b>PULSES</b>		<b>97</b>		<b>0</b>	<b>3,030,609</b>		<b>97</b>	<b>100</b>
Sunflower	0	0	0	0	0	0	0	0
Simsim	2,620	999	262	115	9,519,779	2,882	1,114	90
Groundnut	87	35	0	0	3,493,497	87	35	100
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>1,034</b>		<b>115</b>	<b>13,013,276</b>		<b>1,149</b>	<b>90</b>
Okra	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0	0
Tomatoes	87	35	87	35	698,699	175	71	50
Spinach	0	0	0	0	0	0	0	0
Carrot	0	0	0	0	0	0	0	0
Chillies	0	0	0	0	0	0	0	0
Amaranths	87	18	0	0	34,935	87	18	100
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
<b>FRUITS &amp; VEGETABLES</b>		<b>53</b>		<b>35</b>	<b>733,634</b>		<b>88</b>	<b>60</b>
Cotton	0	0	0	0	0	0	0	0
Jute	0	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>
<b>Total</b>		<b>8,736</b>		<b>186</b>	<b>302,879,633</b>		<b>8,922</b>	<b>98</b>

**5.141 Planted Area & Number of Crop Growing Households by Local seed Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - Mafia District**

Crop	Local Seed							
	Number of Households using Local seed	Planted Area Applied with Local seed	Number of Households not using Local seed	Planted Area Applied with no Local seed	Cost of Local seed	Total Number of Households Planting in Masika	Total Planted Area in Masika	% of area planted using Local seed
Maize	436	103	145	42	2,388,484	581	145	71
Paddy	3,777	1,493	29	16	57,874,248	3,806	1,509	99
Sorghum	203	32	0	0	197,587	203	32	100
Bulrush Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>1,627</b>		<b>59</b>	<b>60,460,320</b>		<b>1,686</b>	<b>97</b>
Yam	291	43	0	57	94,144,628	291	100	43
Cassava	116	30	0	0	278,947	116	30	100
Sweet Potato	320	68	0	0	2,109,537	320	68	100
Yams	29	3	0	0	174,342	29	3	100
Coco Yam	0	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>143</b>		<b>57</b>	<b>96,707,454</b>		<b>201</b>	<b>71</b>
Mung Bean	0	0	0	0	0	0	0	0
Beans	116	26	0	0	1,374,570	116	26	100
Cowpeas	116	8	0	1	180,153	116	9	84
Green gram	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0
<b>PULSES</b>		<b>34</b>		<b>1</b>	<b>1,554,723</b>		<b>36</b>	<b>96</b>
Sunflower	0	0	0	0	0	0	0	0
Simsim	0	0	0	0	0	0	0	0
Groundnut	116	16	0	9	386,458	116	26	64
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>16</b>		<b>9</b>	<b>386,458</b>		<b>26</b>	<b>64</b>
Okra	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0	0
Tomatoes	29	6	29	18	87,171	58	24	25
Spinach	0	0	0	0	0	0	0	0
Carrot	0	0	0	0	0	0	0	0
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	174	32	0	0	319,627	174	32	100
Cucumber	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
<b>FRUITS &amp; VEGETABLES</b>		<b>38</b>		<b>18</b>	<b>406,798</b>		<b>56</b>	<b>68</b>
Cotton	0	0	0	0	0	0	0	0
Jute	0	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>		<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>
<b>Total</b>		<b>1,860</b>		<b>145</b>	<b>159,515,753</b>		<b>2,004</b>	<b>93</b>

**5.142 Planted Area & Number of Crop Growing Households by Organic Fertilizer and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - Bagamoyo Distict**

Crop	Organic Fertilizer							
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Cost (Tshs) of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Without Organic Fertilizer	Total Number of Households Planting in Masika	Total Planted Area in Masika	% of area planted using Organic Fertilizer
Maize	665	348	18,224,083	30,466	32,464	30,687	32,812	1
Paddy	0	0	0	3,877	2,366	3,877	2,366	0
Sorghum	0	0	0	3,877	2,283	3,877	2,283	0
Bulrush Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>348</b>	<b>18,224,083</b>		<b>37,113</b>		<b>37,461</b>	<b>1</b>
Yam	0	0	0	0	0	0	0	0
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	443	292	443	292	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>292</b>		<b>292</b>	<b>0</b>
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	111	13	111	13	0
Cowpeas	0	0	0	4,875	1,554	4,875	1,554	0
Green gram	0	0	0	332	184	332	184	0
Field Peas	0	0	0	111	22	111	22	0
<b>PULSES</b>	0	0	0	5,428	1,774	5,428	1,774	0
Sunflower	0	0	0	332	108	332	108	0
Simsim	0	0	0	8,198	6,077	8,198	6,077	0
Groundnut	0	0	0	0	0	0	0	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>6,184</b>		<b>6,184</b>	<b>0</b>
Okra	0	0	0	222	56	222	56	0
Turmeric	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	222	78	222	78	0
Spinach	0	0	0	0	0	0	0	0
Carrot	0	0	0	0	0	0	0	0
Chillies	0	0	0	0	0	0	0	0
Amaranth	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>	<b>0</b>		<b>135</b>		<b>135</b>	<b>0</b>
Cotton	0	0	0	332	314	332	314	0
Jute	0	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>314</b>		<b>314</b>	<b>0</b>
<b>Total</b>		<b>348</b>	<b>18,224,083</b>		<b>45,811</b>		<b>46,159</b>	<b>1</b>

**5.143 Planted Area & Number of Crop Growing Households by Organic Fertilizer and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - Kibaha District**

Crop	Organic Fertilizer							
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Cost (Tshs) of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Without Organic Fertilizer	Total Number of Households Planting in Masika	Total Planted Area in Masika	% of area planted using Organic Fertilizer
Maize	812	271	9,882,923	5,099	2,312	5,776	2,583	10
Paddy	226	78	1,164,290	4,829	2,649	5,009	2,727	3
Sorghum	0	0	0	1,264	419	1,264	419	0
Bulrush Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>349</b>	<b>11,047,212</b>		<b>5,380</b>		<b>5,729</b>	<b>6</b>
Yam	0	0	0	0	0	0	0	0
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	451	182	451	182	0
Yams	0	0	0	45	9	45	9	0
Coco Yam	0	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>191</b>		<b>191</b>	<b>0</b>
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	45	4	45	4	0
Cowpeas	0	0	0	1,670	345	1,670	345	0
Green gram	0	0	0	45	9	45	9	0
Field Peas	0	0	0	0	0	0	0	0
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>358</b>		<b>358</b>	<b>0</b>
Sunflower	0	0	0	90	23	90	23	0
Simsim	0	0	0	406	146	406	146	0
Groundnut	0	0	0	0	0	0	0	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>170</b>		<b>170</b>	<b>0</b>
Okra	0	0	0	1,264	312	1,264	312	0
Turmeric	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	45	9	45	9	0
Onion	0	0	0	45	5	45	5	0
Cabbage	0	0	0	45	5	45	5	0
Tomatoes	0	0	0	812	214	812	214	0
Spinach	0	0	0	45	9	45	9	0
Carrot	0	0	0	45	5	45	5	0
Chillies	0	0	0	90	10	90	10	0
Amaranths	45	9	2,030,738	0	0	45	9	100
Pumpkins	0	0	0	45	5	45	5	0
Cucumber	0	0	0	45	5	45	5	0
Egg Plant	0	0	0	90	18	90	18	0
Water Mellon	0	0	0	45	5	45	5	0
<b>FRUITS &amp; VEGETABLES</b>		<b>9</b>	<b>2,030,738</b>		<b>600</b>		<b>609</b>	<b>1</b>
Cotton	0	0	0	0	0	0	0	0
Jute	0	0	0	45	18	45	18	0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>18</b>		<b>18</b>	<b>0</b>
<b>Total</b>		<b>358</b>	<b>13,077,950</b>		<b>6,717</b>		<b>7,075</b>	<b>5</b>

**5.144 Planted Area & Number of Crop Growing Households by Organic Fertilizer and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - Kisarwe Distict**

Crop	Organic Fertilizer							
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Cost (Tshs) of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Without Organic Fertilizer	Total Number of Households Planting in Masika	Total Planted Area in Masika	% of area planted using Organic Fertilizer
Maize	115	35	1,009,216	5,652	2,754	5,767	2,789	1
Paddy	0	0	0	2,941	1,757	2,941	1,757	0
Sorghum	0	0	0	865	201	865	201	0
Bulrush Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>35</b>	<b>1,009,216</b>		<b>4,711</b>		<b>4,746</b>	<b>1</b>
Yam	0	0	0	0	0	0	0	0
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	519	129	519	129	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>129</b>		<b>129</b>	<b>0</b>
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	115	35	115	35	0
Cowpeas	115	70	5,190,252	2,941	1,035	3,056	1,105	6
Green gram	0	0	0	58	9	58	9	0
Field Peas	0	0	0	0	0	0	0	0
<b>PULSES</b>		<b>70</b>	<b>5,190,252</b>		<b>1,079</b>		<b>1,149</b>	<b>6</b>
Sunflower	0	0	0	0	0	0	0	0
Simsim	0	0	0	865	490	865	490	0
Groundnut	0	0	0	0	0	0	0	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>490</b>		<b>490</b>	<b>0</b>
Okra	0	0	0	346	64	346	64	0
Turmeric	0	0	0	58	23	58	23	0
Bitteer Aubergine	0	0	0	0	0	0	0	0
Onion	0	0	0	58	12	58	12	0
Cabbage	0	0	0	58	3	58	3	0
Tomatoes	0	0	0	58	3	58	3	0
Spinach	0	0	0	58	3	58	3	0
Carrot	0	0	0	0	0	0	0	0
Chillies	0	0	0	58	12	58	12	0
Amaranths	0	0	0	173	14	173	14	0
Pumpkins	0	0	0	58	3	58	3	0
Cucumber	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>	<b>0</b>		<b>137</b>		<b>137</b>	<b>0</b>
Cotton	0	0	0	0	0	0	0	0
Jute	0	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
<b>Total</b>		<b>105</b>	<b>6,199,467</b>		<b>6,547</b>		<b>6,652</b>	<b>2</b>

**5.145 Planted Area & Number of Crop Growing Households by Organic Fertilizer and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - Mkuranga District**

Crop	Organic Fertilizer							
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Cost (Tshs) of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Without Organic Fertilizer	Total Number of Households Planting in Masika	Total Planted Area in Masika	% of area planted using Organic Fertilizer
Maize	0	0	0	5,424	2,938	5,424	2,938	0
Paddy	0	0	0	11,824	6,681	11,824	6,681	0
Sorghum	0	0	0	542	239	542	239	0
Bulrush Millet	0	0	0	108	26	108	26	0
Wheat	0	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>0</b>	<b>0</b>		<b>9,885</b>		<b>9,885</b>	<b>0</b>
Yam	0	0	0	0	0	0	0	0
Cassava	0	0	0	108	22	108	22	0
Sweet Potato	0	0	0	2,712	922	2,712	922	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>944</b>		<b>944</b>	<b>0</b>
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	108	44	108	44	0
Cowpeas	0	0	0	2,387	532	2,387	532	0
Green gram	0	0	0	217	33	217	33	0
Field Peas	0	0	0	0	0	0	0	0
<b>PULSES</b>		<b>0</b>	<b>0</b>		<b>609</b>		<b>609</b>	<b>0</b>
Sunflower	0	0	0	0	0	0	0	0
Simsim	0	0	0	1,085	514	1,085	514	0
Groundnut	0	0	0	0	0	0	0	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>514</b>		<b>514</b>	<b>0</b>
Okra	0	0	0	108	7	108	7	0
Turmeric	0	0	0	0	0	0	0	0
Bitteer Aubergine	108	44	4,339,099	0	0	108	44	100
Onion	0	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	0	0	0	0	0
Spinach	0	0	0	0	0	0	0	0
Carrot	0	0	0	0	0	0	0	0
Chillies	0	0	0	108	11	108	11	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	108	44	16,271,621	108	53	217	97	45
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	108	22	6,508,648	108	132	217	154	14
<b>FRUITS &amp; VEGETABLES</b>		<b>110</b>	<b>27,119,368</b>		<b>202</b>		<b>312</b>	<b>35</b>
Cotton	0	0	0	0	0	0	0	0
Jute	0	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
<b>Total</b>		<b>110</b>	<b>27,119,368</b>		<b>12,154</b>		<b>12,264</b>	<b>1</b>



**5.146 Planted Area & Number of Crop Growing Households by Organic Fertilizer and Crop for the 2007/08 agriculture year - LONG RAINY SEASON -Rufiji Distict**

Crop	Organic Fertilizer							
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Cost (Tshs) of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Without Organic Fertilizer	Total Number of Households Planting in Masika	Total Planted Area in Masika	% of area planted using Organic Fertilizer
Maize	87	42	2,183,436	5,153	2,413	5,240	2,455	2
Paddy	87	28	873,374	8,035	4,546	8,122	4,575	1
Sorghum	0	0	0	1,310	504	1,310	504	0
Bulrush Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>71</b>	<b>3,056,810</b>		<b>7,463</b>		<b>7,534</b>	<b>1</b>
Yam	0	0	0	0	0	0	0	0
Cassava	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	262	53	262	53	0
Yams	0	0	0	0	0	0	0	0
Coco Yam	0	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>53</b>		<b>53</b>	<b>0</b>
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	262	71	262	71	0
Cowpeas	0	0	0	175	27	175	27	0
Green gram	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0
<b>PULSES</b>	0	0	0	437	97	437	97	0
Sunflower	0	0	0	0	0	0	0	0
Simsim	0	0	0	2,882	1,114	2,882	1,114	0
Groundnut	0	0	0	87	35	87	35	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>1,149</b>		<b>1,149</b>	<b>0</b>
Okra	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0
Bitteer Aubergine	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0	0
Tomatoes	87	35	0	87	35	175	71	50
Spinach	0	0	0	0	0	0	0	0
Carrot	0	0	0	0	0	0	0	0
Chillies	0	0	0	0	0	0	0	0
Amaranths	87	18	0	0	0	87	18	100
Pumpkins	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
<b>FRUITS &amp; VEGETABLES</b>		<b>53</b>	<b>0</b>		<b>35</b>		<b>88</b>	<b>60</b>
Cotton	0	0	0	0	0	0	0	0
Jute	0	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
<b>Total</b>		<b>124</b>	<b>3,056,810</b>		<b>8,798</b>		<b>8,922</b>	<b>1</b>

**5.147 Planted Area & Number of Crop Growing Households by Organic Fertilizer and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - Mafia District**

Crop	Organic Fertilizer							
	Number of Households using Organic Fertilizer	Planted Area Applied with Organic Fertilizer	Cost (Tshs) of Organic Fertilizer	Number of Households NOT using Organic Fertilizer	Planted Area Without Organic Fertilizer	Total Number of Households Planting in Masika	Total Planted Area in Masika	% of area planted using Organic Fertilizer
Maize	87	15	455,032	494	130	581	145	10
Paddy	494	188	10,478,007	3,371	1,321	3,806	1,509	12
Sorghum	58	6	337,235	145	25	203	32	20
Bulrush Millet	0	0	0	0	0	0	0	0
Wheat	0	0	0	0	0	0	0	0
<b>CEREALS</b>		<b>210</b>	<b>11,270,274</b>		<b>1,476</b>		<b>1,686</b>	<b>12</b>
Yam	0	0	0	291	100	291	100	0
Cassava	0	0	0	116	30	116	30	0
Sweet Potato	0	0	0	320	68	320	68	0
Yams	0	0	0	29	3	29	3	0
Coco Yam	0	0	0	0	0	0	0	0
<b>ROOTS &amp; TUBERS</b>		<b>0</b>	<b>0</b>		<b>201</b>		<b>201</b>	<b>0</b>
Mung Bean	0	0	0	0	0	0	0	0
Beans	0	0	0	116	26	116	26	0
Cowpeas	0	0	0	116	9	116	9	0
Green gram	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0
<b>PULSES</b>	0	0	0	232	36	232	36	0
Sunflower	0	0	0	0	0	0	0	0
Simsim	0	0	0	0	0	0	0	0
Groundnut	0	0	0	116	26	116	26	0
<b>OIL SEEDS &amp; OIL NUTS</b>		<b>0</b>	<b>0</b>		<b>26</b>		<b>26</b>	<b>0</b>
Okra	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0
Bitter Aubergine	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0
Cabbage	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	58	24	58	24	0
Spinach	0	0	0	0	0	0	0	0
Carrot	0	0	0	0	0	0	0	0
Chillies	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	174	32	174	32	0
Cucumber	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0
<b>FRUITS &amp; VEGETABLES</b>		<b>0</b>	<b>0</b>		<b>56</b>		<b>56</b>	<b>0</b>
Cotton	0	0	0	0	0	0	0	0
Jute	0	0	0	0	0	0	0	0
<b>CASH CROPS</b>		<b>0</b>	<b>0</b>		<b>0</b>		<b>0</b>	<b>0</b>
<b>Total</b>		<b>210</b>	<b>11,270,274</b>		<b>1,795</b>		<b>2,004</b>	<b>10</b>

**AGRICULTURAL CREDIT**

**5.148 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	%
Bagamoyo	0	.0	44,868	100.0	44,868	100.0
Kibaha	90	.5	18,186	99.5	18,277	100.0
Kisarawe	173	.7	23,183	99.3	23,356	100.0
Mkuranga	108	.2	43,825	99.8	43,933	100.0
Rufiji	262	.7	35,110	99.3	35,372	100.0
Mafia	29	.3	8,688	99.7	8,717	100.0
<b>Total</b>	<b>663</b>	<b>.4</b>	<b>173,860</b>	<b>99.6</b>	<b>174,523</b>	<b>100.0</b>

**5.149 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	%
Bagamoyo	4,815	78	1,361	22	6,175	100
Kibaha	2,275	61	1,459	39	3,734	100
Kisarawe	3,027	74	1,060	26	4,086	100
Mkuranga	957	54	821	46	1,778	100
Rufiji	3,334	81	771	19	4,105	100
Mafia	428	65	235	35	663	100
<b>Total</b>	<b>248</b>	<b>40</b>	<b>370</b>	<b>60</b>	<b>618</b>	<b>100</b>

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

District	Family, friend or relative		Bank		Savings & credit Soc		Cooperative		Savings & credit Soc		Trader/trade store		Private individual		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Bagamoyo																
Kibaha	0	0.0	45	1.2	132	3.5	45	1.2	0	0.0	0	0.0	0	0.0	3,734	6
Kisarawe	0	0.0	58	1.4	63	1.5	115	2.8	0	0.0	0	0.0	0	0.0	4,086	6
Mkuranga	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	108	6.1	1,778	6
Rufiji	175	4.3	0	0.0	0	0.0	0	0.0	87	2.1	0	0.0	0	0.0	4,105	6
Mafia	0	0.0	29	4.4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	663	4
<b>Total</b>	<b>175</b>	<b>28.2</b>	<b>132</b>	<b>21.3</b>	<b>105</b>	<b>17.1</b>	<b>160</b>	<b>25.9</b>	<b>87</b>	<b>14.1</b>	<b>0</b>	<b>0.0</b>	<b>108</b>	<b>17.5</b>	<b>618</b>	<b>124</b>

**5.151 Provision of credit A by sex and District During the 2007/08 Agriculture Year**

District	Male		Female		Total	
	Number	%	Number	%	Number	%
Bagamoyo	0	.0	90	100.0	90	100.0
Kibaha	115	66.7	58	33.3	173	100.0
Kisarawe	108	100.0	0	.0	108	100.0
Mkuranga	175	66.7	87	33.3	262	100.0
Rufiji	29	100.0	0	.0	29	100.0
Mafia	428	64.5	235	35.5	663	100.0
<b>Total</b>						

**5.152 Provision of credit B by sex and District During the 2007/08 Agriculture Year**

District	Male		Female		Total	
	Number	%	Number	%	Number	%
Bagamoyo	0	0	0	0	0	0
Kibaha	0	0	45	100	45	100
Kisarawe	0	0	0	0	0	0
Mkuranga	0	0	0	0	0	0
Rufiji	0	0	0	0	0	0
Mafia	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>45</b>	<b>100</b>	<b>45</b>	<b>100</b>

**5.153 Provision of credit C by sex and District During the 2007/08 Agriculture Year**

District	Male		Female		Total	
	Number	%	Number	%	Number	%
Bagamoyo	0	0	0	0	0	0
Kibaha	0	0	45	100	45	100
Kisarawe	0	0	0	0	0	0
Mkuranga	0	0	108	100.0	108	100.0
Rufiji	0	0	0	0	0	0
Mafia	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>153</b>	<b>100</b>	<b>153</b>	<b>0</b>

**PERMANENT CROPS**

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

Region	Have Crops/Fruit Trees		Does Not Have Crops/Fruit Trees		Total	
	Number	%	Number	%	Number	%
Bagamoyo	19,387	43.2	25,480	56.8	44,868	100.0
Kibaha	12,410	67.9	5,867	32.1	18,277	100.0
Kisarawe	20,588	88.1	2,768	11.9	23,356	100.0
Mkuranga	40,245	91.6	3,688	8.4	43,933	100.0
Rufiji	19,826	56.0	15,546	44.0	35,372	100.0
Mafia	6,974	80.0	1,743	20.0	8,717	100.0
<b>Total</b>	<b>119,430</b>	<b>68.4</b>	<b>55,093</b>	<b>31.6</b>	<b>174,523</b>	<b>100.0</b>

**5.155 Planted Area and Area harvested by Type of Planting and District, 2007/08 Agriculture Year**

Region	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	
Bagamoyo	12,186	10,261	11,522	11,785	19,277	22,045	16,456
Kibaha	6,182	5,332	8,484	7,438	12,410	12,769	11,076
Kisarawe	9,861	6,666	12,918	13,896	20,588	20,563	15,105
Mkuranga	21,587	26,764	29,831	111,010	40,245	137,775	50,648
Rufiji	11,878	9,740	11,791	31,287	19,738	41,027	17,811
Mafia	3,981	4,754	4,300	7,226	6,974	11,980	6,140
<b>Total</b>	<b>65,676</b>	<b>63,518</b>	<b>78,846</b>	<b>182,641</b>	<b>119,232</b>	<b>246,159</b>	<b>117,237</b>

**5.156 Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop- BAGAMOYO**

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	3,545	6,889	3,509	561	561,346	.2	160.0
Banana	3,324	585	463	3,666	3,666,420	7.9	7,921.5
Mango	4,210	1,456	997	964	963,827	1.0	966.8
Pigeon pea	332	306	305	80	79,987	.3	262.0
Coconut	3,988	2,532	2,244	844	843,625	.4	375.9
Orange	4,210	1,705	1,417	2,062	2,061,592	1.5	1,455.4
Sugar Cane	332	140	128	1,086	1,085,690	8.5	8,495.6
Palm Oil	222	9	7	0	0	.0	.0
Other	17,726	8,424	7,386	24,125	24,124,919	3.3	3,266.2
<b>Total</b>	<b>3,341,143</b>	<b>1,483,171</b>	<b>1,371,849</b>	<b>4,220,394</b>	<b>4,220,394,032</b>	<b>3.1</b>	<b>3,076.4</b>

**5.157 Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop- KIBAHA**

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	4,513	2,724	1,724	1,123	1,123,314	.7	651.6
Banana	1,805	510	457	1,312	1,311,947	2.9	2,872.3
Mango	2,166	607	503	1,808	1,807,672	3.6	3,592.8
Pigeon pea	812	946	946	40	39,848	.0	42.1
Coconut	3,204	1,656	1,565	2,408	2,407,642	1.5	1,538.3
Orange	2,347	957	869	6,222	6,222,451	7.2	7,156.6
Palm Oil	271	41	36	57	57,312	1.6	1,610.3
Other	10,605	5,329	4,976	11,785	11,785,092	2.4	2,368.6
<b>Total</b>	<b>25,723</b>	<b>12,769</b>	<b>11,076</b>	<b>24,755</b>	<b>24,755,277</b>	<b>2.2</b>	<b>2,235.0</b>

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

Regions	Cashewnut								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)	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	Number of households	Area	Number of households	Area	Number of households	Area	Area	tons
Bagamoyo	1,440	3,790	2,216	3,098	3,545	6,889	3,509	561	1,329	292	2,770	292	3,324	585	463	3,666
Kibaha	1,354	838	3,520	1,886	4,513	2,724	1,724	1,123	316	82	1,670	428	1,805	510	457	1,312
Kisarawe	1,096	591	3,749	1,798	4,844	2,390	740	782	231	91	2,076	538	2,307	629	537	2,677
Mkuranga	11,499	12,567	22,238	67,421	29,397	79,988	14,341	13,180	1,302	410	5,207	972	5,966	1,382	1,028	2,871
Rufiji	5,764	3,968	7,074	10,410	11,791	14,378	2,871	5,617	1,397	487	2,707	507	3,493	994	709	3,477
Mafia	785	399	1,714	2,344	1,947	2,743	802	284	726	227	1,598	153	2,063	380	296	931
<b>Total</b>	<b>21,937</b>	<b>22,154</b>	<b>40,511</b>	<b>86,959</b>	<b>56,037</b>	<b>109,112</b>	<b>23,987</b>	<b>21,549</b>	<b>5,302</b>	<b>1,589</b>	<b>16,028</b>	<b>2,891</b>	<b>18,958</b>	<b>4,479</b>	<b>3,490</b>	<b>14,935</b>

**Cont. 5.158 Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District**

Regions	Mango								Pigion 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)	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	Number of households	Area	Number of households	Area	Number of households	Area	Area	tons
Bagamoyo	886	84	3,656	1,372	4,210	1,456	997	964	0	.	332	306	332	306	305	80
Kibaha	316	92	2,121	514	2,166	607	503	1,808	271	901	542	45	812	946	946	40
Kisarawe	231	57	2,191	570	2,422	627	320	1,983	980	208	1,557	596	2,537	804	710	208
Mkuranga	868	367	8,353	4,226	8,895	4,593	2,471	3,543	868	179	3,037	1,022	3,905	1,202	560	362
Rufiji	175	69	524	202	699	271	139	441	175	103	262	69	437	172	172	65
Mafia	232	42	755	224	872	265	97	378	29	6	0	.	29	6	6	3
<b>Total</b>	<b>2,708</b>	<b>710</b>	<b>17,601</b>	<b>7,109</b>	<b>19,264</b>	<b>7,819</b>	<b>4,525</b>	<b>9,116</b>	<b>2,323</b>	<b>1,397</b>	<b>5,730</b>	<b>2,038</b>	<b>8,053</b>	<b>3,435</b>	<b>2,699</b>	<b>757</b>



**Cont. 5.158 : Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District**

Regions	Coconut								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)	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	Number of households	Area	Number of households	Area	Number of households	Area	Area	tons
Bagamoyo	665	294	3,434	2,237	3,988	2,532	2,244	844	1,108	208	3,767	1,497	4,210	1,705	1,417	2,062
Kibaha	316	155	2,978	1,502	3,204	1,656	1,565	2,408	361	175	2,076	782	2,347	957	869	6,222
Kisarawe	288	123	4,383	1,575	4,671	1,697	1,153	2,418	923	381	5,536	2,210	6,401	2,591	1,984	15,875
Mkuranga	3,905	3,041	14,861	16,321	17,248	19,362	9,297	12,194	1,302	641	9,438	3,265	9,980	3,906	2,151	12,380
Rufiji	2,271	1,061	2,358	10,518	3,668	11,579	2,291	2,713	1,310	423	2,533	1,280	3,319	1,703	1,379	7,558
Mafia	2,906	2,567	4,010	3,821	5,928	6,389	3,910	10,021	174	35	785	225	843	260	116	759
<b>Total</b>	<b>10,351</b>	<b>7,241</b>	<b>32,025</b>	<b>35,975</b>	<b>38,707</b>	<b>43,215</b>	<b>20,459</b>	<b>30,598</b>	<b>5,178</b>	<b>1,863</b>	<b>24,134</b>	<b>9,260</b>	<b>27,099</b>	<b>11,123</b>	<b>7,915</b>	<b>44,856</b>

**Cont. 5.158 Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District**

Regions	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
Bagamoyo	111	44	222	97	332	140	128	1,086
Kisarawe	58	11	0	.	58	11	11	110
Mkuranga	0	.	217	18	217	18	17	5
Mafia	87	17	87	2	116	19	6	1
<b>Total</b>	<b>256</b>	<b>72</b>	<b>526</b>	<b>116</b>	<b>723</b>	<b>188</b>	<b>162</b>	<b>1,201</b>

**Cont. 5.158 Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District**

Regions	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
Bagamoyo	0	.	222	9	222	9	7	0
Kibaha	0	.	271	41	271	41	36	57
Kisarawe	0	.	231	37	231	37	20	142
Mkuranga	217	64	2,387	309	2,495	373	288	373
Rufiji	262	65	437	115	437	180	134	202
<b>Total</b>	<b>479</b>	<b>129</b>	<b>3,546</b>	<b>511</b>	<b>3,655</b>	<b>640</b>	<b>485</b>	<b>774</b>

**Cont. 5.158 Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District**

Regions	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
Bagamoyo	10,968	5,548	10,525	2,876	17,726	8,424	7,386	24,125
Kibaha	5,190	3,089	6,814	2,240	10,605	5,329	4,976	11,785
Kisarawe	8,593	5,205	12,111	6,571	20,184	11,776	9,630	50,209
Mkuranga	15,404	9,495	33,411	17,456	43,825	26,951	20,496	50,285
Rufiji	7,249	3,564	11,703	8,185	16,594	11,749	10,117	29,800
Mafia	1,976	1,462	2,063	456	3,371	1,918	908	2,244
<b>Total</b>	<b>49,379</b>	<b>28,363</b>	<b>76,627</b>	<b>37,785</b>	<b>112,304</b>	<b>66,148</b>	<b>53,513</b>	<b>168,449</b>

## **ACCESS TO EQUIPMENTS**

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

District	Equipment/Asset Name												Total number of Agricultural Households
	Sword		Hand Hoe		Hand Sprayer		Grater, Chipper, Oil Press na Oil Mill		Oxplough		Oxplanter		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Bagamoyo	44,314	98.8	44,092	98.3	3,213	.0	222	.5	111	.2	0	.0	44,868
Kibaha	17,419	95.3	17,780	97.3	2,663	.0	45	.2	226	1.2	90	.5	18,277
Kisarawe	23,068	98.8	23,183	99.3	346	.0	58	.2	0	.0	115	.5	23,356
Mkuranga	42,740	97.3	42,523	96.8	2,603	.0	0	.0	0	.0	0	.0	43,933
Rufiji	34,062	96.3	34,062	96.3	2,969	.0	87	.2	349	1.0	87	.2	35,372
Mafia	8,136	93.3	8,368	96.0	523	.0	814	9.3	58	.7	29	.3	8,717
Total	169,739	97.3	170,009	97.4	12,317	.0	1,225	.7	744	.4	322	.2	174,523

**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		Treкта		Tractor plough		Tractor Harrow		Castrated bulls		Uncastrated bulls		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Bagamoyo	0	.0	222	.5	0	.0	111	.2	111	.2	443	1.0	44,868
Kibaha	45	.2	226	1.2	90	.5	226	1.2	226	1.2	587	3.2	18,277
Kisarawe	58	.2	58	.2	115	.5	0	.0	58	.2	58	.2	23,356
Mkuranga	108	.2	108	.2	108	.2	108	.2	325	.7	217	.5	43,933
Rufiji	262	.7	87	.2	0	.0	0	.0	349	1.0	175	.5	35,372
Mafia	0	.0	0	.0	0	.0	29	.3	174	2.0	465	5.3	8,717
<b>Total</b>	<b>473</b>	<b>.3</b>	<b>701</b>	<b>.4</b>	<b>314</b>	<b>.2</b>	<b>474</b>	<b>.3</b>	<b>1,243</b>	<b>.7</b>	<b>1,944</b>	<b>1.1</b>	<b>174,523</b>

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

District	Equipment/Asset Name										Total number of Agricultural Households
	Cow		Donkey		Thrasher		Power tiller		Rigder		
	Number	%	Number	%	Number	%	Number	%	Number	%	
Bagamoyo	443	1.0	0	.0	111	.2	0	.0	0	.0	44,868
Kibaha	903	4.9	90	.5	90	.5	181	1.0	45	.2	18,277
Kisarawe	0	.0	0	.0	0	.0	0	.0	0	.0	23,356
Mkuranga	217	.5	108	.2	0	.0	0	.0	0	.0	43,933
Rufiji	262	.7	87	.2	0	.0	0	.0	175	.5	35,372
Mafia	785	9.0	262	3.0	0	.0	0	.0	0	.0	8,717
Total	2,609	1.5	548	.3	201	.1	181	.1	220	.1	174,523

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

District	Equipment/Asset Name											
	Sword		Hand Hoe		Hand Sprayer		Grater, Chipper, Oil Press na Oil Mill		Oxplough		Oxplanter	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Bagamoyo	87,631	37.7	121,420	52.3	3,988	1.7	4,875	2.1	3,324	1.4	.	.
Kibaha	34,477	34.3	46,662	46.4	4,242	4.2	45	.0	1,218	1.2	1,038	1.0
Kisarawe	43,310	37.7	62,456	54.4	346	.3	1,730	1.5	.	.	2,537	2.2
Mkuranga	87,107	37.9	119,868	52.2	5,532	2.4	.	.	.	.	.	.
Rufiji	77,818	36.3	112,316	52.4	3,581	1.7	1,921	.9	1,135	.5	1,921	.9
Mafia	13,918	33.5	18,742	45.1	1,424	3.4	901	2.2	87	.2	639	1.5
<b>Total</b>	<b>344,261</b>	<b>36.9</b>	<b>481,463</b>	<b>51.6</b>	<b>19,113</b>	<b>2.0</b>	<b>9,472</b>	<b>1.0</b>	<b>5,765</b>	<b>.6</b>	<b>6,136</b>	<b>.7</b>

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

District	Equipment/Asset Name											
	Ox cart		Trekt		Tractor plough		Tractor Harrow		Castrated bulls		Uncastrated bulls	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Bagamoyo	.	.	2,659	1.1	.	.	2,437	1.0	332	.1	2,991	1.3
Kibaha	45	.0	1,986	2.0	90	.1	271	.3	316	.3	1,670	1.7
Kisarawe	115	.1	1,730	1.5	1,269	1.1	.	.	115	.1	1,153	1.0
Mkuranga	2,387	1.0	2,387	1.0	2,387	1.0	2,387	1.0	3,797	1.7	542	.2
Rufiji	3,057	1.4	1,921	.9	.	.	.	.	3,843	1.8	1,223	.6
Mafia	.	.	.	.	.	.	29	.1	697	1.7	1,424	3.4
<b>Total</b>	<b>5,604</b>	<b>.6</b>	<b>10,682</b>	<b>1.1</b>	<b>3,745</b>	<b>.4</b>	<b>5,124</b>	<b>.5</b>	<b>9,101</b>	<b>1.0</b>	<b>9,003</b>	<b>1.0</b>

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

District	Equipment/Asset Name									
	Cow		Donkey		Thrasher		Power tiller		Rigder	
	Number	%	Number	%	Number	%	Number	%	Number	%
Bagamoyo	2,326	1.0	.	.	222	.1	.	.	.	.
Kibaha	4,377	4.4	1,038	1.0	90	.1	2,888	2.9	45	.0
Kisarawe	.	.	.	.	.	.	.	.	.	.
Mkuranga	868	.4	2,387	1.0	.	.	.	.	.	.
Rufiji	961	.4	2,620	1.2	.	.	.	.	1,834	.9
Mafia	3,342	8.0	320	.8	.	.	.	.	.	.
<b>Total</b>	<b>11,874</b>	<b>1.3</b>	<b>6,364</b>	<b>.7</b>	<b>312</b>	<b>.0</b>	<b>2,888</b>	<b>.3</b>	<b>1,879</b>	<b>.2</b>

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

Region	Oxen		Bulls		Cows		Donkeys		Tractor		Power Tiller	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Bagamoyo	0	.0	0	.0	0	.0	0	.0	222	100.0	0	.0
Kibaha	45	9.1	0	.0	0	.0	45	9.1	361	72.7	45	9.1
Kisarawe	0	.	0	.	0	.	0	.	0	.	0	.
Mkuranga	217	100.0	0	.0	0	.0	0	.0	0	.0	0	.0
Rufiji	175	25.0	0	.0	87	12.5	0	.0	437	62.5	0	.0
Mafia	116	80.0	29	20.0	0	.0	0	.0	0	.0	0	.0
<b>Total</b>	<b>553</b>	<b>31.1</b>	<b>29</b>	<b>1.6</b>	<b>87</b>	<b>4.9</b>	<b>45</b>	<b>2.5</b>	<b>1,019</b>	<b>57.3</b>	<b>45</b>	<b>2.5</b>

**6.4 Number of Tractors/Draft animals Owned by Type and Region for 2007/08 agriculture year**

Region	Oxen		Bulls		Cows		Donkeys		Tractor		Power Tiller	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Bagamoyo	.	.	.	.	.	.	.	.	111	4.8	2,216	95.2
Kibaha	45	14.3	90	28.6	45	14.3	45	14.3	45	14.3	45	14.3
Kisarawe	.	.	.	.	.	.	.	.	.	.	.	.
Mkuranga	.	.	.	.	.	.	.	.	.	.	.	.
Rufiji	349	80.0	.	.	87	20.0	.	.	.	.	.	.
Mafia	116	100.0	.	.	.	.	.	.	.	.	.	.
Total	511	16.0	90	2.8	132	4.1	45	1.4	156	4.9	2,261	70.8

**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	%
Bagamoyo	443	1.0	44,425	99.0	44,868	100.0
Kibaha	632	3.5	17,645	96.5	18,277	100.0
Kisarawe	115	.5	23,241	99.5	23,356	100.0
Mkuranga	1,519	3.5	42,415	96.5	43,933	100.0
Rufiji	1,747	4.9	33,625	95.1	35,372	100.0
Mafia	58	.7	8,659	99.3	8,717	100.0
<b>Total</b>	<b>4,514</b>	<b>2.6</b>	<b>170,009</b>	<b>97.4</b>	<b>174,523</b>	<b>100.0</b>

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

District	Main Source of Irrigation Water						
	River	Borehole	Lake	Canal	Dam	Tap Water	Well
Bagamoyo	111	0	0	0	0	0	332
Kibaha	361	0	181	45	119	0	0
Kisarawe	58	0	0	58	108	0	0
Mkuranga	651	0	108	759	0	0	0
Rufiji	1,659	0	0	87	284	0	0
Mafia	29	0	0	0	0	0	0
<b>Total</b>	<b>2,869</b>	<b>0</b>	<b>289</b>	<b>949</b>	<b>154</b>	<b>0</b>	<b>332</b>

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

District	Main method of Obtaining Water				
	Gravity	Hand bucket	Hand pump	motor pump	Other
Bagamoyo	111	332	0	0	0
Kibaha	45	451	45	45	0
Kisarawe	0	58	0	58	0
Mkuranga	0	1,519	0	0	0
Rufiji	1,310	437	0	0	0
Mafia	0	29	0	0	0
<b>Total</b>	<b>1,466</b>	<b>2,826</b>	<b>45</b>	<b>103</b>	<b>0</b>



## **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	%
Bagamoyo	1,773	4.0	43,095	96.0	44,868	100.0
Kibaha	316	1.7	17,961	98.3	18,277	100.0
Kisarawe	519	2.2	22,837	97.8	23,356	100.0
Mkuranga	759	1.7	43,174	98.3	43,933	100.0
Rufiji	262	.7	35,110	99.3	35,372	100.0
Mafia	174	2.0	8,543	98.0	8,717	100.0
<b>Total</b>	<b>3,803</b>	<b>2.2</b>	<b>170,720</b>	<b>97.8</b>	<b>174,523</b>	<b>100.0</b>

**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	%
Bagamoyo	443	1.0	44,425	99.0	44,868	100.0
Kibaha	226	1.2	18,051	98.8	18,277	100.0
Kisarawe	288	1.2	23,068	98.8	23,356	100.0
Mkuranga	325	.7	43,608	99.3	43,933	100.0
Rufiji	87	.2	35,284	99.8	35,372	100.0
Mafia	58	.7	8,659	99.3	8,717	100.0
<b>Total</b>	<b>1,428</b>	<b>.8</b>	<b>173,095</b>	<b>99.2</b>	<b>174,523</b>	<b>100.0</b>

**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
Bagamoyo	4,985	665	0	0	0	0	0	0
Kibaha	181	226	0	316	135	0	0	0
Kisarawe	1,326	865	2,883	346	0	0	288	0
Mkuranga	3,797	0	0	0	5,424	0	0	0
Rufiji	0	0	0	0	0	0	0	0
Mafia	0	0	0	0	0	0	0	87
<b>Total</b>	<b>10,289</b>	<b>1,755</b>	<b>2,883</b>	<b>662</b>	<b>5,559</b>	<b>0</b>	<b>288</b>	<b>87</b>

**CROP EXTENSION**

**7.1 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	%	
Bagamoyo	29,690	61.7	13,959	38.3	43,649
Kibaha	14,666	67.6	3,114	32.4	17,780
Kisarawe	16,032	59.5	7,209	40.5	23,241
Mkuranga	28,638	63.5	15,295	36.5	43,933
Rufiji	24,018	43.5	11,354	56.5	35,372
Mafia	3,574	43.7	5,143	56.3	8,717
<b>Total</b>	<b>116,619</b>	<b>43.5</b>	<b>56,074</b>	<b>56.5</b>	<b>172,692</b>

**7.2 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	%
Bagamoyo	0	.0	44,868	100.0	44,868	100
Kibaha	271	1.5	18,006	98.5	18,277	100
Kisarawe	0	.0	23,356	100.0	23,356	100
Mkuranga	868	2.0	43,066	98.0	43,933	100
Rufiji	262	.7	35,110	99.3	35,372	100
Mafia	29	.3	8,688	99.7	8,717	100
<b>Total</b>	<b>1,430</b>	<b>.8</b>	<b>173,093</b>	<b>99.2</b>	<b>174,523</b>	<b>100</b>

**7.3 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	%
Bagamoyo	0	.0	44,868	100.0	44,868	100
Kibaha	271	1.5	18,006	98.5	18,277	100
Kisarawe	0	.0	23,356	100.0	23,356	100
Mkuranga	651	1.5	43,283	98.5	43,933	100
Rufiji	175	.5	35,197	99.5	35,372	100
Mafia	58	.7	8,659	99.3	8,717	100
<b>Total</b>	<b>1,154</b>	<b>.7</b>	<b>173,368</b>	<b>99.3</b>	<b>174,523</b>	<b>100</b>

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

District	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		Total Households that received advices
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Bagamoyo	25,813	86.9	554	1.9	222	.7	1,883	6.3	6,869	23.1	5,650	19.0	332	1.1	29,690
Kibaha	14,305	97.5	2,031	13.8	181	1.2	271	1.8	4,468	30.5	2,978	20.3	135	.9	14,666
Kisarawe	13,956	87.1	2,134	13.3	173	1.1	634	4.0	2,018	12.6	3,633	22.7	231	1.4	16,032
Mkuranga	25,601	89.4	3,363	11.7	1,953	6.8	1,627	5.7	7,919	27.7	6,509	22.7	542	1.9	28,638
Rufiji	22,271	92.7	1,659	6.9	349	1.5	1,048	4.4	4,367	18.2	1,572	6.5	87	.4	24,018
Mafia	3,400	95.1	145	4.1	0	.0	0	.0	262	7.3	232	6.5	0	.0	3,574
<b>Total</b>	<b>105,346</b>	<b>90.3</b>	<b>9,886</b>	<b>8.5</b>	<b>2,877</b>	<b>2.5</b>	<b>5,464</b>	<b>4.7</b>	<b>25,902</b>	<b>22.2</b>	<b>20,575</b>	<b>17.6</b>	<b>1,328</b>	<b>1.1</b>	<b>116,619</b>

**7.5 Number of households receiving extension advice on Spacing by Distric during the 2007/08 agriculture year**

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Bagamoyo	20,606	90.2	222	1.5	0	0.1	443	0.4	775	4.4	2,548	3.1	222	0.2	24,816
Kibaha	12,500	90.4	45	3.0	0	0.6	0	0.8	632	1.5	226	3.6	0	0.2	13,403
Kisarawe	12,168	87.9	288	1.8	58	0.2	115	0.5	634	3.5	1,326	5.9	58	0.2	14,648
Mkuranga	19,634	87.8	217	0.9	0	0.3	325	0.8	1,193	2.5	1,844	7.3	108	0.3	23,323
Rufiji	20,350	81.0	87	3.0	0	0.0	437	0.8	1,572	6.1	786	8.7	0	0.3	23,232
Mafia	2,615	86.0	58	0.9	0	0.1	0	1.3	29	4.7	58	6.6	0	0.4	2,760
Total	87,874	80.4	917	1.9	58	0.2	1,321	2.1	4,836	4.1	6,788	10.8	388	0.4	102,182

**7.6 Number of households receiving extension advice on Use of Agrochemicals by Distric during the 2007/08 agriculture year**

Distric	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Bagamoyo	9,527	83.4	111	3.5	0	0.2	0	0.5	665	8.1	443	4.1	0	0.1	10,746
Kibaha	9,296	90.1	90	3.6	0	0.6	0	1.3	948	1.1	181	2.9	0	0.4	10,515
Kisarawe	9,054	86.3	346	2.6	115	1.0	58	0.4	231	4.6	404	4.7	58	0.4	10,265
Mkuranga	15,295	85.6	868	3.3	1,193	0.5	217	0.7	1,302	4.0	1,627	5.9	0	0.0	20,502
Rufiji	16,769	70.4	175	3.3	87	0.6	262	1.1	611	9.3	175	14.5	0	0.9	18,079
Mafia	1,627	85.7	58	2.3	0	1.9	0	0.7	58	5.3	29	4.0	0	0.1	1,772
Total	61,569	79.5	1,648	3.6	1,396	0.3	537	2.3	3,814	5.2	2,858	8.4	58	0.7	71,880

**7.7 Number of households receiving extension advice on Erosion Control by Distric during the 2007/08 agriculture year**

Distric	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Bagamoyo	8,198	85.1	111	1.1	0	0.0	222	2.3	775	8.0	332	3.4	0	0.0	9,638
Kibaha	5,325	84.3	45	0.7	0	0.0	0	0.0	812	12.9	90	1.4	45	0.7	6,318
Kisarawe	6,863	90.8	231	3.1	115	1.5	58	0.8	115	1.5	115	1.5	58	0.8	7,555
Mkuranga	7,919	85.9	217	2.4	108	1.2	0	0.0	651	7.1	325	3.5	0	0.0	9,221
Rufiji	9,432	87.8	437	4.1	0	0.0	175	1.6	699	6.5	0	0.0	0	0.0	10,743
Mafia	610	95.5	0	0.0	0	0.0	0	0.0	29	4.5	0	0.0	0	0.0	639
<b>Total</b>	<b>38,347</b>	<b>86.9</b>	<b>1,040</b>	<b>2.4</b>	<b>224</b>	<b>0.5</b>	<b>454</b>	<b>1.0</b>	<b>3,082</b>	<b>7.0</b>	<b>863</b>	<b>2.0</b>	<b>103</b>	<b>0.2</b>	<b>44,113</b>

**7.8 Number of households receiving extension advice on Organic Fertilizer use by Distric during the 2007/08 agriculture year**

Distric	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Bagamoyo	9,195	87.2	111	2.1	0	0.2	554	1.2	1,219	3.9	222	4.9	0	0.5	11,300
Kibaha	8,800	78.9	226	8.4	0	0.4	90	1.6	993	3.2	361	7.5	0	0.0	10,470
Kisarawe	7,497	82.1	346	2.4	58	0.5	115	1.0	231	5.3	634	7.8	58	0.9	8,939
Mkuranga	10,305	79.4	651	4.1	0	0.5	217	0.8	1,085	4.0	976	11.0	108	0.2	13,343
Rufiji	12,664	65.9	349	10.9	0	0.0	175	1.0	437	10.6	0	11.2	0	0.5	13,625
Mafia	1,656	84.2	29	2.9	0	0.1	0	1.9	87	6.8	87	3.8	0	0.3	1,860
Total	50,118	70.6	1,712	3.6	58	0.5	1,151	3.8	4,051	8.4	2,280	12.3	166	0.7	59,535

**7.9 Number of households receiving extension advice on use of Inorganic Fertilizer by Distric during the 2007/08 agriculture year**

Distric	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Bagamoyo	10,081	75.3	0	4.3	0	0.3	222	0.4	443	15.8	111	3.4	111	0.4	10,968
Kibaha	7,627	82.8	45	5.1	45	0.3	135	1.3	1,218	4.7	316	5.7	0	0.0	9,387
Kisarawe	6,920	85.0	461	2.0	58	0.9	0	1.1	173	5.0	692	5.6	115	0.4	8,420
Mkuranga	8,678	78.7	542	4.4	0	2.0	108	1.1	2,061	8.9	976	4.9	0	0.0	12,366
Rufiji	13,188	76.2	437	5.0	0	0.4	0	1.4	873	7.0	0	9.2	0	0.7	14,498
Mafia	1,337	83.8	0	2.6	0	0.2	0	0.8	58	8.5	58	3.8	0	0.4	1,453
Total	47,831	72.0	1,486	5.5	103	1.6	465	2.7	4,827	7.7	2,153	10.2	226	0.3	57,091

**7.10 Number of households receiving extension advice on Use of Improved Seeds by Distric during the 2007/08 agriculture year**

Distric	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Bagamoyo	15,178	89.9	111	1.6	111	0.1	111	0.5	1,108	5.5	222	2.2	0	0.2	16,839
Kibaha	11,778	86.4	45	4.1	45	0.5	45	1.1	948	3.7	135	4.0	0	0.2	12,997
Kisarawe	9,342	87.2	404	1.4	0	0.6	58	0.5	231	5.2	1,384	4.6	115	0.6	11,534
Mkuranga	13,451	82.1	759	2.9	217	0.8	108	0.9	2,061	6.8	1,410	6.3	0	0.1	18,007
Rufiji	16,594	79.8	262	3.8	87	0.4	0	1.0	1,048	6.2	175	8.7	0	0.0	18,166
Mafia	2,063	85.7	58	2.1	0	0.6	0	0.4	58	6.8	58	4.2	0	0.1	2,237
Total	68,407	72.2	1,639	4.7	460	0.2	322	3.2	5,453	6.8	3,384	10.9	115	2.0	79,781

**7.11 Number of households receiving extension advice on Mechanization and Labor Saving Technologies by Distric during the 2007/08 agriculture year**

Distric	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Bagamoyo	11,078	84.6	0	3.4	111	0.1	443	1.1	1,440	6.0	111	4.8	0	0.1	13,183
Kibaha	9,026	83.8	181	4.6	45	0.6	0	1.7	1,128	3.2	181	5.9	45	0.2	10,605
Kisarawe	7,555	74.9	346	3.3	0	0.7	58	0.6	115	13.8	1,096	5.8	58	0.9	9,227
Mkuranga	11,499	73.9	759	4.7	217	1.9	325	2.1	2,603	11.4	759	6.1	217	0.0	16,380
Rufiji	11,703	72.5	524	3.3	0	0.2	262	2.9	961	11.1	87	9.9	0	0.2	13,537
Mafia	1,308	81.2	0	2.8	0	0.6	0	1.7	0	9.7	29	3.5	0	0.5	1,337
Total	52,168	75.6	1,810	3.1	373	0.4	1,088	1.8	6,248	11.1	2,263	6.4	320	1.6	64,269



**7.12 Number of households receiving extension advice on Irrigation Technologies by Distric during the 2007/08 agriculture year**

Distric	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Bagamoyo	6,536	74.5	0	6.4	111	0.0	0	1.1	1,551	9.9	111	7.8	0	0.2	8,309
Kibaha	5,551	79.4	181	10.7	0	0.7	0	1.6	1,489	3.4	181	4.2	0	0.0	7,401
Kisarawe	5,825	74.0	346	2.0	58	1.6	58	2.4	288	7.2	346	11.0	58	1.8	6,978
Mkuranga	5,424	71.8	651	3.1	108	2.2	0	1.9	2,387	9.7	651	11.0	0	0.3	9,221
Rufiji	8,472	66.2	349	5.5	0	0.3	0	1.1	1,397	10.1	175	15.7	0	1.1	10,393
Mafia	465	75.4	0	3.6	0	0.6	0	0.1	29	16.7	0	3.4	0	0.1	494
Total	32,272	68.0	1,527	4.2	277	1.4	58	5.7	7,142	8.6	1,463	12.1	58	0.0	42,795

**7.13 Number of households receiving extension advice on Crop Storage by Distric during the 2007/08 agriculture year**

Distric	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Bagamoyo	12,519	83.7	0	3.2	111	0.2	222	1.1	1,994	5.1	1,219	6.2	0	0.5	16,064
Kibaha	8,213	83.8	135	4.8	45	0.9	0	1.6	1,489	3.7	406	5.2	0	0.0	10,289
Kisarawe	8,650	79.1	231	2.1	0	2.5	0	2.1	231	4.0	1,211	8.3	58	1.9	10,381
Mkuranga	6,075	76.6	651	2.7	108	1.0	217	0.9	1,085	6.8	976	10.9	0	1.1	9,112
Rufiji	10,568	74.7	175	3.0	0	0.1	175	0.2	1,223	8.4	175	13.0	0	0.6	12,315
Mafia	1,191	79.4	29	2.1	0	0.4	0	1.0	58	10.2	29	6.8	0	0.1	1,308
Total	47,216	69.2	1,221	3.6	264	0.9	613	1.1	6,080	12.3	4,016	13.0	58	0.0	59,468

**7.14 Number of households receiving extension advice on Vermin Control by Distric during the 2007/08 agriculture year**

Distric	Source of Crop Extension														Total Number of Households	
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)			
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%		
Bagamoyo	11,632	80.5	0	1.7	0	0.0	222	0.7	997	6.0	1,883	10.7	0	0.4	14,734	
Kibaha	8,394	80.1	45	3.5	0	0.4	45	1.3	587	4.0	1,399	10.4	0	0.3	10,470	
Kisarawe	9,054	75.2	404	1.5	58	1.8	173	1.8	865	5.1	2,422	12.5	58	2.1	13,033	
Mkuranga	8,244	67.6	434	4.2	0	0.9	325	1.7	868	3.9	1,844	21.5	108	0.3	11,824	
Rufiji	13,363	72.1	0	4.4	175	0.0	87	0.4	699	4.2	437	16.8	87	2.1	14,847	
Mafia	1,598	78.5	58	1.4	0	0.3	0	1.3	0	6.0	29	12.0	0	0.4	1,685	
Total	52,285	65.6	941	4.5	232	1.9	852	0.8	4,015	8.9	8,014	17.9	253	0.5	66,594	

**AGRICULTURE CONSTRAINTS**

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

District	Constraint							
	Access to Land		Ownership of Land		Poor Soil Cultivation Equipment		Soil Fertility	
	Number	%	Number	%	Number	%	Number	%
Bagamoyo	2,105	4.7	3,324	7.4	23,043	51.4	665	1.5
Kibaha	1,173	6.4	135	.7	6,318	34.6	135	.7
Kisarawe	1,153	4.9	923	4.0	9,458	40.5	173	.7
Mkuranga	2,278	5.2	759	1.7	16,814	38.3	1,736	4.0
Rufiji	1,223	3.5	2,882	8.1	17,293	48.9	349	1.0
Mafia	1,104	12.7	291	3.3	2,034	23.3	203	2.3
<b>Total</b>	<b>9,037</b>	<b>5.2</b>	<b>8,314</b>	<b>4.8</b>	<b>74,960</b>	<b>43.0</b>	<b>3,261</b>	<b>1.9</b>

### Cont. 8.1 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	%
Bagamoyo	665	1.5	222	.5	443	1.0	997	2.2
Kibaha	857	4.7	361	2.0	226	1.2	1,670	9.1
Kisarawe	519	2.2	0	.0	115	.5	1,672	7.2
Mkuranga	1,085	2.5	434	1.0	325	.7	3,797	8.6
Rufiji	1,397	4.0	437	1.2	437	1.2	1,747	4.9
Mafia	465	5.3	145	1.7	203	2.3	349	4.0
<b>Total</b>	<b>4,988</b>	<b>2.9</b>	<b>1,598</b>	<b>.9</b>	<b>1,750</b>	<b>1.0</b>	<b>10,231</b>	<b>5.9</b>

### Cont 8.1 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	%
Bagamoyo	1,108	2.5	0	.0	0	.0	111	.2
Kibaha	1,309	7.2	45	.2	0	.0	0	.0
Kisarawe	1,326	5.7	58	.2	0	.0	0	.0
Mkuranga	4,231	9.6	976	2.2	108	.2	0	.0
Rufiji	1,659	4.7	175	.5	87	.2	0	.0
Mafia	436	5.0	87	1.0	29	.3	0	.0
<b>Total</b>	<b>10,069</b>	<b>5.8</b>	<b>1,341</b>	<b>.8</b>	<b>225</b>	<b>.1</b>	<b>111</b>	<b>.1</b>

**Cont. 8 1 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	%
Bagamoyo	111	.2	0	.0	222	.5	222	.5
Kibaha	0	.0	0	.0	45	.2	45	.2
Kisarawe	0	.0	404	1.7	115	.5	115	.5
Mkuranga	108	.2	0	.0	1,085	2.5	108	.2
Rufiji	175	.5	0	.0	0	.0	87	.2
Mafia	29	.3	29	.3	0	.0	0	.0
<b>Total</b>	<b>423</b>	<b>.2</b>	<b>433</b>	<b>.2</b>	<b>1,467</b>	<b>.8</b>	<b>578</b>	<b>.3</b>

**Cont. 8.1 Number of Agricultural Households Reporting the FIRST most important Constraint by District, 2007/08 Agricultural Year**

District	Constraint							
	Destruction by Animals		Stealing		Pest and Disease		Local Government Taxation	
	Number	%	Number	%	Number	%	Number	%
Bagamoyo	2,770	6.2	443	1.0	0	.0	111	.2
Kibaha	948	5.2	316	1.7	135	.7	0	.0
Kisarawe	3,345	14.3	173	.7	1,269	5.4	58	.2
Mkuranga	5,207	11.9	325	.7	976	2.2	108	.2
Rufiji	4,018	11.4	175	.5	873	2.5	0	.0
Mafia	668	7.7	58	.7	349	4.0	0	.0
<b>Total</b>	<b>16,955</b>	<b>9.7</b>	<b>1,490</b>	<b>.9</b>	<b>3,602</b>	<b>2.1</b>	<b>277</b>	<b>.2</b>

**Cont. 8.1 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	%
Bagamoyo	6,315	14	1,108	2.5	44,868	100
Kibaha	1,760	10	1,534	8.4	18,277	100
Kisarawe	404	2	0	.0	23,356	100
Mkuranga	1,736	4	0	.0	43,933	100
Rufiji	873	2	0	.0	35,372	100
Mafia	407	5	552	6.3	8,717	100
<b>Total</b>	<b>11,494</b>	<b>7</b>	<b>3,194</b>	<b>1.8</b>	<b>174,523</b>	<b>100</b>

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

District	Constraint							
	Access to Land		Ownership of Land		Poor Soil Cultivation Equipment		Soil Fertility	
	Number	%	Number	%	Number	%	Number	%
Bagamoyo	222	.5	997	2.2	5,982	13.3	2,437	5.4
Kibaha	90	.5	451	2.5	2,888	15.8	1,038	5.7
Kisarawe	173	.7	865	3.7	3,633	15.5	750	3.2
Mkuranga	108	.2	976	2.2	8,895	20.2	1,736	4.0
Rufiji	611	1.7	786	2.2	5,590	15.8	349	1.0
Mafia	378	4.3	349	4.0	1,453	16.7	465	5.3
<b>Total</b>	<b>1,582</b>	<b>.9</b>	<b>4,424</b>	<b>2.5</b>	<b>28,441</b>	<b>16.3</b>	<b>6,775</b>	<b>3.9</b>

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**Cont. 8.2 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	%
Bagamoyo	9,527	21	2,326	5.2	886	2.0	4,099	9
Kibaha	2,166	12	1,264	6.9	857	4.7	2,527	14
Kisarawe	2,595	11	346	1.5	461	2.0	3,806	16
Mkuranga	3,580	8	651	1.5	1,953	4.4	7,593	17
Rufiji	6,725	19	1,747	4.9	2,882	8.1	5,590	16
Mafia	843	10	232	2.7	291	3.3	872	10
<b>Total</b>	<b>25,436</b>	<b>15</b>	<b>6,566</b>	<b>3.8</b>	<b>7,330</b>	<b>4.2</b>	<b>24,487</b>	<b>14</b>

**Cont. 8.2 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	%
Bagamoyo	2,437	5.4	0	.0	0	.0	1,440	3.2
Kibaha	632	3.5	45	.2	45	.2	993	5.4
Kisarawe	1,211	5.2	115	.5	0	.0	1,961	8.4
Mkuranga	976	2.2	0	.0	108	.2	1,085	2.5
Rufiji	1,921	5.4	0	.0	87	.2	873	2.5
Mafia	639	7.3	58	.7	29	.3	349	4.0
<b>Total</b>	<b>7,817</b>	<b>4.5</b>	<b>219</b>	<b>.1</b>	<b>270</b>	<b>.2</b>	<b>6,701</b>	<b>3.8</b>

**Cont. 8.2 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	%
Bagamoyo	2,880	6.4	443	1.0	222	.5	0	.0
Kibaha	1,805	9.9	0	.0	0	.0	45	.2
Kisarawe	2,134	9.1	115	.5	0	.0	0	.0
Mkuranga	3,580	8.1	1,627	3.7	0	.0	0	.0
Rufiji	1,747	4.9	873	2.5	175	.5	0	.0
Mafia	785	9.0	0	.0	58	.7	0	.0
<b>Total</b>	<b>12,930</b>	<b>7.4</b>	<b>3,059</b>	<b>1.8</b>	<b>454</b>	<b>.3</b>	<b>45</b>	<b>.0</b>

**Cont. 8.2 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	%
Bagamoyo	222	.5	0	.0	332	.7	222	.5
Kibaha	45	.2	0	.0	135	.7	45	.2
Kisarawe	0	.0	634	2.7	115	.5	288	1.2
Mkuranga	0	.0	217	.5	2,387	5.4	434	1.0
Rufiji	175	.5	175	.5	437	1.2	0	.0
Mafia	58	.7	0	.0	0	.0	58	.7
<b>Total</b>	<b>499</b>	<b>.3</b>	<b>1,026</b>	<b>.6</b>	<b>3,406</b>	<b>2.0</b>	<b>1,047</b>	<b>.6</b>

**Cont. 8.2 Number of Agricultural Households Reporting the SECOND most important Constraint by District, 2007/08 Agricultural Year**

District	Constraint							
	Destruction by Animals		Stealing		Pest and Disease		Local Government Taxation	
	Number	%	Number	%	Number	%	Number	%
Bagamoyo	5,318	12	332	.7	886	2.0	0	.0
Kibaha	587	3	316	1.7	677	3.7	0	.0
Kisarawe	2,653	11	634	2.7	634	2.7	58	.2
Mkuranga	3,905	9	976	2.2	1,736	4.0	0	.0
Rufiji	2,707	8	87	.2	1,048	3.0	0	.0
Mafia	581	7	145	1.7	465	5.3	0	.0
<b>Total</b>	<b>15,751</b>	<b>9</b>	<b>2,492</b>	<b>1.4</b>	<b>5,446</b>	<b>3.1</b>	<b>58</b>	<b>.0</b>

**Cont. 8.2 Number of Agricultural Households Reporting the SECOND most important Constraint by District, 2007/08 Agricultural Year**

District	Constraint					
	Extended dry spell		Crop Farmers/Livestock keepers Conflicts		Total	
	Number	%	Number	%	Number	%
Bagamoyo	3,102	7	554	1.2	44,868	100
Kibaha	1,399	8	226	1.2	18,277	100
Kisarawe	173	1	58	.2	23,414	100
Mkuranga	1,410	3	0	.0	43,933	100
Rufiji	699	2	87	.2	35,372	100
Mafia	523	6	87	1.0	8,717	100
<b>Total</b>	<b>7,306</b>	<b>4</b>	<b>1,012</b>	<b>.6</b>	<b>174,580</b>	<b>100</b>

### 8.3 Number of Agricultural Households Reporting the THIRD Most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Access to Land		Ownership of Land		Poor Soil Cultivation Equipment		Soil Fertility	
	Number	%	Number	%	Number	%	Number	%
Bagamoyo	111	.2	554	1.2	4,985	11.1	1,662	3.7
Kibaha	181	1.0	135	.7	1,895	10.4	677	3.7
Kisarawe	115	.5	58	.2	3,229	13.9	519	2.2
Mkuranga	542	1.2	976	2.2	5,098	11.6	1,519	3.5
Rufiji	611	1.7	175	.5	3,843	10.9	349	1.0
Mafia	291	3.3	145	1.7	1,308	15.0	262	3.0
<b>Total</b>	<b>1,851</b>	<b>1.1</b>	<b>2,043</b>	<b>1.2</b>	<b>20,359</b>	<b>11.7</b>	<b>4,987</b>	<b>2.9</b>

### Cont. 8.3 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	%
Bagamoyo	3,767	8.4	1,329	3.0	3,434	7.7	5,428	12.1
Kibaha	993	5.4	677	3.7	1,218	6.7	3,655	20.0
Kisarawe	1,672	7.2	231	1.0	577	2.5	3,576	15.3
Mkuranga	2,061	4.7	651	1.5	1,953	4.4	8,461	19.3
Rufiji	2,445	6.9	699	2.0	3,144	8.9	4,716	13.3
Mafia	726	8.3	87	1.0	814	9.3	1,133	13.0
<b>Total</b>	<b>11,665</b>	<b>6.7</b>	<b>3,674</b>	<b>2.1</b>	<b>11,140</b>	<b>6.4</b>	<b>26,970</b>	<b>15.5</b>

### Cont. 8.3 Number of Agricultural Households Reporting the THIRD Most important Constraint by District, 2007/08 Agricultural Year

Ta	Constraint							
	Extension Services		Access to Forest Resources		Hunting and Gathering		Access to Potable Water	
	Number	%	Number	%	Number	%	Number	%
Bagamoyo	2,770	6.2	0	.0	0	.0	1,662	3.7
Kibaha	812	4.4	0	.0	0	.0	677	3.7
Kisarawe	865	3.7	0	.0	0	.0	2,826	12.1
Mkuranga	1,410	3.2	0	.0	0	.0	434	1.0
Rufiji	3,319	9.4	87	.2	0	.0	611	1.7
Mafia	814	9.3	87	1.0	29	.3	262	3.0
<b>Total</b>	<b>9,990</b>	<b>5.7</b>	<b>175</b>	<b>.1</b>	<b>29</b>	<b>.0</b>	<b>6,471</b>	<b>3.7</b>

### Cont. 8.3 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	%
Bagamoyo	6,758	15.1	554	1.2	0	.0	332	.7
Kibaha	2,166	11.9	271	1.5	0	.0	45	.2
Kisarawe	3,172	13.6	346	1.5	58	.2	173	.7
Mkuranga	6,617	15.1	2,061	4.7	108	.2	108	.2
Rufiji	6,463	18.3	1,223	3.5	0	.0	262	.7
Mafia	668	7.7	145	1.7	87	1.0	0	.0
<b>Total</b>	<b>25,844</b>	<b>14.8</b>	<b>4,600</b>	<b>2.6</b>	<b>253</b>	<b>.1</b>	<b>921</b>	<b>.5</b>



**Cont. 8.3 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	%
Bagamoyo	332	.7	0	.0	554	1.2	0	.0
Kibaha	45	.2	90	.5	226	1.2	135	.7
Kisarawe	173	.7	461	2.0	519	2.2	577	2.5
Mkuranga	108	.2	217	.5	2,712	6.2	759	1.7
Rufiji	262	.7	175	.5	873	2.5	175	.5
Mafia	0	.0	29	.3	0	.0	203	2.3
<b>Total</b>	<b>921</b>	<b>.5</b>	<b>972</b>	<b>.6</b>	<b>4,884</b>	<b>2.8</b>	<b>1,849</b>	<b>1.1</b>

**Cont. 8.3 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	%
Bagamoyo	4,210	9.4	1,551	3.5	1,662	3.7	0	.0
Kibaha	812	4.4	451	2.5	1,399	7.7	0	.0
Kisarawe	2,249	9.7	404	1.7	865	3.7	231	1.0
Mkuranga	3,471	7.9	1,193	2.7	1,085	2.5	0	.0
Rufiji	2,882	8.1	699	2.0	786	2.2	0	.0
Mafia	610	7.0	320	3.7	320	3.7	29	.3
<b>Total</b>	<b>14,235</b>	<b>8.2</b>	<b>4,618</b>	<b>2.6</b>	<b>6,116</b>	<b>3.5</b>	<b>260</b>	<b>.1</b>

**Cont. 8.3 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	%
Bagamoyo	2,326	5.2	1,219	2.7	44,868	100
Kibaha	1,715	9.4	45	.2	18,277	100
Kisarawe	577	2.5	0	.0	23,298	100
Mkuranga	2,495	5.7	0	.0	43,933	100
Rufiji	1,747	4.9	87	.2	35,372	100
Mafia	203	2.3	145	1.7	8,717	100
<b>Total</b>	<b>9,063</b>	<b>5.2</b>	<b>1,496</b>	<b>.9</b>	<b>174,465</b>	<b>100</b>

**8.4 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	%
Bagamoyo	111	.2	111		3,767	8	665	1.5
Kibaha	90	.5	271	1	1,218	7	496	2.7
Kisarawe	115	.5	0		1,326	6	115	.5
Mkuranga	325	.7	651	1	4,122	9	651	1.5
Rufiji	87	.2	349	1	3,493	10	87	.2
Mafia	320	3.7	145	2	755	9	174	2.0
<b>Total</b>	<b>1,049</b>	<b>.6</b>	<b>1,527</b>	<b>1</b>	<b>14,683</b>	<b>8</b>	<b>2,189</b>	<b>1.3</b>

**Cont. 8.4 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	%
Bagamoyo	3,102	6.9	1,551	3	2,659	6	3,434	8
Kibaha	857	4.7	542	3	451	2	2,392	13
Kisarawe	1,845	7.9	865	4	807	3	2,364	10
Mkuranga	2,929	6.7	651	1	2,495	6	4,014	9
Rufiji	2,096	5.9	786	2	1,659	5	1,834	5
Mafia	378	4.3	232	3	668	8	901	10
<b>Total</b>	<b>11,208</b>	<b>6.4</b>	<b>4,627</b>	<b>3</b>	<b>8,740</b>	<b>5</b>	<b>14,939</b>	<b>9</b>

**Cont. 8.4 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	%
Bagamoyo	2,770	6.2	0	.0	0	.0	1,773	4.0
Kibaha	587	3.2	45	.2	45	.2	451	2.5
Kisarawe	865	3.7	0	.0	58	.2	1,269	5.4
Mkuranga	2,061	4.7	0	.0	0	.0	868	2.0
Rufiji	1,921	5.4	0	.0	0	.0	611	1.7
Mafia	814	9.3	87	1.0	0	.0	291	3.3
<b>Total</b>	<b>9,017</b>	<b>5.2</b>	<b>132</b>	<b>.1</b>	<b>103</b>	<b>.1</b>	<b>5,262</b>	<b>3.0</b>

**Cont. 8.4 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	%
Bagamoyo	5,982	13.3	997	2.2	0	.0	0	.0
Kibaha	3,024	16.5	406	2.2	45	.2	0	.0
Kisarawe	2,480	10.6	980	4.2	58	.2	0	.0
Mkuranga	3,580	8.1	1,410	3.2	108	.2	108	.2
Rufiji	4,716	13.3	2,271	6.4	87	.2	0	.0
Mafia	988	11.3	174	2.0	0	.0	29	.3
<b>Total</b>	<b>20,770</b>	<b>11.9</b>	<b>6,239</b>	<b>3.6</b>	<b>299</b>	<b>.2</b>	<b>138</b>	<b>.1</b>

**Cont. 8.4 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	%
Bagamoyo	775	1.7	0	.0	1,883	4.2	775	1.7
Kibaha	181	1.0	226	1.2	181	1.0	135	.7
Kisarawe	288	1.2	288	1.2	1,153	4.9	750	3.2
Mkuranga	217	.5	868	2.0	3,363	7.7	1,410	3.2
Rufiji	611	1.7	1,223	3.5	2,271	6.4	437	1.2
Mafia	58	.7	58	.7	174	2.0	262	3.0
<b>Total</b>	<b>2,131</b>	<b>1.2</b>	<b>2,663</b>	<b>1.5</b>	<b>9,025</b>	<b>5.2</b>	<b>3,769</b>	<b>2.2</b>

**Cont. 8.4 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	%
Bagamoyo	4,764	10.6	997	2.2	2,105	4.7	111	.2
Kibaha	2,031	11.1	451	2.5	1,760	9.6	0	.0
Kisarawe	4,325	18.5	1,384	5.9	1,038	4.4	173	.7
Mkuranga	3,905	8.9	1,519	3.5	4,556	10.4	0	.0
Rufiji	4,804	13.6	1,048	3.0	2,707	7.7	0	.0
Mafia	959	11.0	232	2.7	523	6.0	29	.3
<b>Total</b>	<b>20,787</b>	<b>11.9</b>	<b>5,632</b>	<b>3.2</b>	<b>12,689</b>	<b>7.3</b>	<b>313</b>	<b>.2</b>

**Cont. 8.4 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	%
Bagamoyo	5,096	11	1,440	3.2	44,868	100
Kibaha	1,986	11	406	2.2	18,277	100
Kisarawe	807	3	0	.0	23,356	100
Mkuranga	4,122	9	0	.0	43,933	100
Rufiji	1,921	5	349	1.0	35,372	100
Mafia	262	3	203	2.3	8,717	100
<b>Total</b>	<b>14,194</b>	<b>8</b>	<b>2,399</b>	<b>1.4</b>	<b>174,523</b>	<b>100</b>

**8.5 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	%
Bagamoyo	554	1	886	2.0	3,988	8.9	997	2.2
Kibaha	226	1	271	1.5	1,625	8.9	406	2.2
Kisarawe	0		115	.5	1,326	5.7	231	1.0
Mkuranga	434	1	759	1.7	2,495	5.7	868	2.0
Rufiji	786	2	349	1.0	2,620	7.4	524	1.5
Mafia	320	4	232	2.7	581	6.7	232	2.7
<b>Total</b>	<b>2,319</b>	<b>1</b>	<b>2,614</b>	<b>1.5</b>	<b>12,635</b>	<b>7.2</b>	<b>3,258</b>	<b>1.9</b>

**Cont. 8.5 Number of Agricultural Households Reporting the FIFTH 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	%
Bagamoyo	2,880	6	997	2.2	2,216	4.9	3,988	9
Kibaha	722	4	722	4.0	406	2.2	1,399	8
Kisarawe	1,903	8	346	1.5	692	3.0	3,114	13
Mkuranga	3,363	8	651	1.5	1,193	2.7	4,339	10
Rufiji	2,358	7	611	1.7	1,397	4.0	1,223	3
Mafia	378	4	174	2.0	465	5.3	988	11
<b>Total</b>	<b>11,604</b>	<b>7</b>	<b>3,502</b>	<b>2.0</b>	<b>6,369</b>	<b>3.7</b>	<b>15,051</b>	<b>9</b>

**Cont. 8.5 Number of Agricultural Households Reporting the FIFTH 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	%
Bagamoyo	2,216	5	0	.0	222	.5	1,219	3
Kibaha	857	5	45	.2	0	.0	632	3
Kisarawe	807	3	58	.2	0	.0	980	4
Mkuranga	1,736	4	217	.5	0	.0	325	1
Rufiji	1,048	3	0	.0	0	.0	699	2
Mafia	843	10	87	1.0	29	.3	174	2
<b>Total</b>	<b>7,507</b>	<b>4</b>	<b>407</b>	<b>.2</b>	<b>251</b>	<b>.1</b>	<b>4,029</b>	<b>2</b>

**Cont. 8.5 Number of Agricultural Households Reporting the FIFTH important Constraint by District, 2007/08 Agricultural Year**

District	Constraint							
	Access to Credit		Access to Off Farm Income		Threshing		Harvesting	
	Number	%	Number	%	Number	%	Number	%
Bagamoyo	3,102	7	554	1.2	0	0	–	–
Kibaha	2,076	11	316	1.7	0	0	–	–
Kisarawe	1,730	7	634	2.7	58	0.2	–	–
Mkuranga	3,905	9	2,170	5	0	0	–	–
Rufiji	2,707	8	1,485	4.2	87	0.2	–	–
Mafia	988	11	116	1.3	58	0.7	–	–
<b>Total</b>	<b>14,509</b>	<b>8</b>	<b>5,275</b>	<b>3</b>	<b>203</b>	<b>0.1</b>	–	–

**Cont. 8.5 Number of Agricultural Households Reporting the FIFTH important Constraint by District, 2007/08 Agricultural Year**

District	Constraint							
	Destruction by Animals		Stealing		Pest and Disease		Local Government Taxation	
	Number	%	Number	%	Number	%	Number	%
Bagamoyo	3,434	8	1,773	4.0	2,880	6.4	222	.5
Kibaha	1,444	8	587	3.2	2,527	13.8	0	.0
Kisarawe	1,672	7	2,249	9.6	2,076	8.9	115	.5
Mkuranga	3,037	7	2,603	5.9	4,773	10.9	542	1.2
Rufiji	4,280	12	524	1.5	5,852	16.5	175	.5
Mafia	726	8	320	3.7	610	7.0	0	.0
<b>Total</b>	<b>14,594</b>	<b>8</b>	<b>8,055</b>	<b>4.6</b>	<b>18,718</b>	<b>10.7</b>	<b>1,054</b>	<b>.6</b>

**Cont. 8.5 Number of Agricultural Households Reporting the FIFTH important Constraint by District, 2007/08 Agricultural Year**

District	Constraint					
	Extended dry spell		Crop Farmers/Livestock keepers Conflicts		Total	
	Number	%	Number	%	Number	%
Bagamoyo	6,647	15	3,545	7.9	44,868	100
Kibaha	2,392	13	361	2.0	18,277	100
Kisarawe	2,710	12	58	.2	23,356	100
Mkuranga	4,231	10	217	.5	43,825	100
Rufiji	4,629	13	349	1.0	35,372	100
Mafia	523	6	145	1.7	8,717	100
<b>Total</b>	<b>21,132</b>	<b>12</b>	<b>4,675</b>	<b>2.7</b>	<b>174,414</b>	<b>100</b>

**Cont. 8.5 Number of Agricultural Households Reporting the FIFTH important Constraint by District, 2007/08 Agricultural Year**

District	Constraint							
	Crop Storage		Crop Processing		Marketing Information		Higher Transport Costs	
	Number	%	Number	%	Number	%	Number	%
Bagamoyo	775	1.7	0	.0	1,108	2.5	665	1.5
Kibaha	226	1.2	361	2.0	542	3.0	135	.7
Kisarawe	404	1.7	231	1.0	1,038	4.4	807	3.5
Mkuranga	217	.5	434	1.0	3,254	7.4	2,061	4.7
Rufiji	175	.5	1,223	3.5	2,183	6.2	87	.2
Mafia	116	1.3	58	.7	116	1.3	436	5.0
<b>Total</b>	<b>1,913</b>	<b>1.1</b>	<b>2,306</b>	<b>1.3</b>	<b>8,241</b>	<b>4.7</b>	<b>4,192</b>	<b>2.4</b>

**8.6 Total Number of Households Rearing Cattle by District during 2007/08 Agriculture Year**

Districts	Households rearing cattle		Households not rearing cattle		Total Agriculture households	Total Number of Households Rearing Livestock
	Number	%	Number	%		
Bagamoyo	4,210	9	40,658	91	44,868	10,303
Kibaha	2,256	12	16,020	88	18,277	3,520
Kisarawe	346	1	23,010	99	23,356	1,730
Mkuranga	651	1	43,283	99	43,933	5,641
Rufiji	524	1	34,848	99	35,372	3,493
Mafia	2,789	32	5,928	68	8,717	3,371
<b>Total</b>	<b>10,777</b>	<b>6</b>	<b>163,746</b>	<b>94</b>	<b>174,523</b>	<b>28,058</b>

**8.7 Number of Cattle by Type and District as of 1st October 2008**

Districts	Indigenous			Improved Beef			Improved Dairy			Total		
	Number of households	Number of Cattle	%	Number of households	Number of Cattle	%	Number of households	Number of Cattle	%	Number of households	Number of Cattle	%
Bagamoyo	2,991	141,583	90	111	111	0.1	1,883	15,510	9.9	4,210	157,203	100
Kibaha	542	39,532	83	90	451	0.9	1,805	7,627	16.0	2,256	47,610	100
Kisarawe	231	9,169	95	58	58	0.6	115	404	4.2	346	9,631	100
Mkuranga	434	1,410	36	108	434	11.1	325	2,061	52.8	651	3,905	100
Rufiji	349	18,428	99	0	0	0.0	175	175	0.9	524	18,603	100
Mafia	2,615	15,487	85	29	87	0.5	407	2,731	14.9	2,789	18,306	100
<b>Total</b>	<b>7,162</b>	<b>225,610</b>	<b>88</b>	<b>396</b>	<b>1,141</b>	<b>0.4</b>	<b>4,711</b>	<b>28,507</b>	<b>11.2</b>	<b>10,777</b>	<b>255,258</b>	<b>100</b>

**8.8 Number of Households rearing cattle, Head of Cattle and Average Head per Household by Herd size During the 2007/08 Agricultural Year**

Herd size	Cattle Rearing Households	%	Herd of Cattle	Average Per Household
1 - 5	5,172	48	13,954	2.70
6 - 10	2,542	24	19,460	7.66
11 - 15	468	4	6,123	13.09
16 - 20	323	3	5,719	17.73
21 - 30	420	4	11,100	26.46
31 - 40	554	5	21,271	38.40
41 - 50	267	2	12,444	46.66
51 - 60	87	1	4,481	51.67
61 -100	58	1	5,767	100.00
101 -150	377	4	51,407	136.18
151+	510	5	103,530	203.02
<b>Total</b>	<b>10,777</b>	<b>100</b>	<b>255,258</b>	<b>23.69</b>

**8.9 Total Number of Cattle by Type, 2007/08 Agricultural Year - Pwani Region**

Cattle Types	Indigeneous	Improved Beef	Improved Dairy	Total Cattle	%
Castrated Bulls (Oxen)	16,844	108	174	17,127	6
Uncastrated Bulls	19,462	167	3,014	22,642	15
Cows	92,682	140	12,160	104,982	27
Steers	8,756	.	843	9,599	5
Heifers	37,820	181	4,588	42,588	15
Male Calves	24,772	365	3,296	28,434	15
Female Calves	25,274	181	4,431	29,886	17
<b>Total</b>	<b>225,610</b>	<b>1,141</b>	<b>28,507</b>	<b>255,258</b>	<b>100</b>

**8.9 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	%
Bagamoyo	15,178	10	11,411	16	55,282	21	3,102	6	25,259	14	15,288	17	16,064	15	141,583	100
Kibaha	361	8	4,648	14	12,997	27	4,468	5	7,672	8	5,460	19	3,926	19	39,532	100
Kisarawe	346	11	634	16	2,653	16	692	11	2,076	21	1,211	11	1,557	16	9,169	100
Mkuranga	.		325	22	542	33	.		108	11	108	11	325	22	1,410	100
Rufiji	349	9	1,135	18	13,712	27	.		1,223	18	961	9	1,048	18	18,428	100
Mafia	610	5	1,308	12	7,497	30	494	3	1,482	13	1,743	15	2,354	20	15,487	100
Total	16,844	8	19,462	15	92,682	25	8,756	5	37,820	14	24,772	16	25,274	17	225,610	100

**8.10 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	%
Bagamoyo	.		.		111	100	.		.		.		.		111	100
Kibaha	.		.		.		.		181	50	90	25	181	25	451	100
Kisarawe	.		.		.		.		.		58	##	.		58	100
Mkuranga	108	33	108	33	.		.		.		217	33	.		434	100
Rufiji	.		.		.		.		.		.		.		.	
Mafia	.		58	50	29	50	.		.		.		.		87	100
Total	108	15	167	19	140	19	.		181	12	365	29	181	6	1,141	100

**8.11 Total Number Households rearing Cattle and Method of Cattle Identification by Region during, 2007/08 Agricultural Year**

Region	Branding		Cattle Clan		Ear notching		Colour		Earrings		Others		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Bagamoyo	886	15	775	13	1,773	31	1,219	21	0	.0	1,108	19	5,761	100
Kibaha	135	5	542	19	90	3	1,444	50	181	6.3	496	17	2,888	100
Kisarawe	0		58	10	115	20	173	30	0	.0	231	40	577	100
Mkuranga	108	5	759	32	108	5	217	9	108	4.5	1,085	45	2,387	100
Rufiji	87	8	87	8	0		437	42	0	.0	437	42	1,048	100
Mafia	174	6	436	14	0		2,237	73	0	.0	232	8	3,080	100
Total	1,392	9	2,657	17	2,087	13	5,727	36	289	1.8	3,589	23	15,740	100

### 8.12 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
Bagamoyo	4,764	33,235	37,999	4,099	28,582	32,681
Kibaha	3,204	4,964	8,168	2,978	2,256	5,235
Kisarawe	115	1,730	1,845	115	1,153	1,269
Mkuranga	1,193	.	1,193	1,085	108	1,193
Rufiji	175	5,502	5,677	.	2,882	2,882
Mafia	726	2,906	3,632	639	2,383	3,022
<b>Total</b>	<b>10,177</b>	<b>48,337</b>	<b>58,515</b>	<b>8,917</b>	<b>37,366</b>	<b>46,282</b>

### 8.13 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)
Bagamoyo	6	2	3	4	1	2
Kibaha	8	2	7	6	2	5
Kisarawe	10	1	3	6	1	3
Mkuranga	5	.	5	4	2	4
Rufiji	7	3	5	.	2	2
Mafia	3	2	2	3	2	2
<b>Total</b>	<b>7</b>	<b>2</b>	<b>4</b>	<b>5</b>	<b>1</b>	<b>3</b>

### 8.14 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
Bagamoyo	194	160	174	180	155	166
Kibaha	205	137	189	216	99	192
Kisarawe	180	225	210	90	180	150
Mkuranga	202	.	202	167	10	128
Rufiji	165	55	110	.	41	41
Mafia	108	94	96	124	90	94
<b>Total</b>	<b>191</b>	<b>134</b>	<b>161</b>	<b>189</b>	<b>119</b>	<b>153</b>

### 8.15 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
Bagamoyo	461	300	363	475	368	410
Kibaha	478	388	460	491	431	479
Kisarawe	800	667	700	1,000	733	800
Mkuranga	600	.	600	600	450	563
Rufiji	800	450	625	.	450	450
Mafia	550	443	461	600	450	464
<b>Total</b>	<b>507</b>	<b>370</b>	<b>433</b>	<b>509</b>	<b>418</b>	<b>458</b>



## GOAT PRODUCTION

**8.16 Number of Agriculture Households Rearing Goats by District during the 2007/08 Agricultural Year**

District	Raising goats		Not raising goats		Total	Total Number of Households Rearing Livestock
	No of households	%	No of households	%		
Bagamoyo	6,647	15	38,221	85	44,868	10,303
Kibaha	1,354	7	16,923	93	18,277	3,520
Kisarawe	1,153	5	22,203	95	23,356	1,730
Mkuranga	2,170	5	41,764	95	43,933	5,641
Rufiji	1,135	3	34,236	97	35,372	3,493
Mafia	203	2	8,514	98	8,717	3,371
<b>Total</b>	<b>12,663</b>	<b>7</b>	<b>161,860</b>	<b>93</b>	<b>174,523</b>	<b>28,058</b>

**8.17 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
Bagamoyo	6,647	108,015	97	332	1,329	1	222	2,437	2	7,201	111,782
Kibaha	1,218	15,614	74	0	0	0	542	5,370	26	1,760	20,984
Kisarawe	1,153	11,649	95	0	0	0	58	577	5	1,211	12,226
Mkuranga	1,844	14,428	89	217	542	3	434	1,193	7	2,495	16,163
Rufiji	1,135	10,743	100	0	0	0	0	0	0	1,135	10,743
Mafia	203	872	100	0	0	0	0	0	0	203	872
<b>Total</b>	<b>12,202</b>	<b>161,320</b>	<b>93</b>	<b>549</b>	<b>1,872</b>	<b>1</b>	<b>1,255</b>	<b>9,577</b>	<b>6</b>	<b>14,006</b>	<b>172,769</b>

**8.18 Number of Households Rearing Goats, Head of Goats and Average Head per Household by Herd Size as of 1st October 2008- Pwani**

Herd Size	Goat rearing households		Herd of Goats		Average Goats per household
	Number	%	Number	%	
1 - 4	3,871	31	10,379	6	3
5 - 9	2,941	23	19,371	11	7
10 - 14	2,058	16	23,988	14	12
15 - 19	573	5	9,637	6	17
20 - 24	1,008	8	21,585	12	21
25 - 29	618	5	16,387	9	26
30 - 34	402	3	12,776	7	32
35 - 39	423	3	14,972	9	35
40+	768	6	43,673	25	57
<b>Total</b>	<b>12,663</b>	<b>100</b>	<b>172,769</b>	<b>100</b>	<b>14</b>

**8.19 Total Number of Goats by Category and Type of Goat as of 1st October 2008 - Pwani**

Category	Indigenous		Improved Meat		Improved Dairy		Total	
	Number	%	Number	%	Number	%	Number	%
Billy Goats	25,956	86	1,436	5	2,873	9	30,264	18
She Goats	9,126	100	0	0	0	0	9,126	5
Castrated Goat	79,991	95	325	0	3,685	4	84,001	49
Male Kid	22,452	99	0	0	271	1	22,722	13
She Kid	23,796	89	111	0	2,749	10	26,656	15
<b>Total</b>	<b>161,320</b>	<b>93</b>	<b>1,872</b>	<b>1</b>	<b>9,577</b>	<b>6</b>	<b>172,769</b>	<b>100</b>

**8.20 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	%
Bagamoyo	14,956	14	7,201	7	55,171	51	14,956	14	15,731	15	108,015	100
Kibaha	2,978	19	993	6	7,266	47	1,895	12	2,482	16	15,614	100
Kisarawe	2,422	21	519	4	4,960	43	1,788	15	1,961	17	11,649	100
Mkuranga	3,037	21	325	2	6,075	42	2,387	17	2,603	18	14,428	100
Rufiji	2,445	23	87	1	6,026	56	1,223	11	961	9	10,743	100
Mafia	116	13	0	0	494	57	203	23	58	7	872	100
<b>Total</b>	<b>25,956</b>	<b>16</b>	<b>9,126</b>	<b>6</b>	<b>79,991</b>	<b>50</b>	<b>22,452</b>	<b>14</b>	<b>23,796</b>	<b>15</b>	<b>161,320</b>	<b>100</b>

**8.21 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	%
Bagamoyo	1,219	92	0	0	0	0	0	0	111	8	1,329	100
Kibaha	0	0	0	0	0	0	0	0	0	0	0	0
Kisarawe	0	0	0	0	0	0	0	0	0	0	0	0
Mkuranga	217	40	0	0	325	60	0	0	0	0	542	100
Rufiji	0	0	0	0	0	0	0	0	0	0	0	0
Mafia	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>1,436</b>	<b>77</b>	<b>0</b>	<b>0</b>	<b>325</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>111</b>	<b>6</b>	<b>1,872</b>	<b>100</b>

**8.22 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	%
Bagamoyo	111	5	0	0	111	5	0	0	2,216	91	2,437	100
Kibaha	2,437	45	0	0	2,347	44	271	5	316	6	5,370	100
Kisarawe	0	0	0	0	577	100	0	0	0	0	577	100
Mkuranga	325	27	0	0	651	55	0	0	217	18	1,193	100
Rufiji	0	0	0	0	0	0	0	0	0	0	0	0
Mafia	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>2,873</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>3,685</b>	<b>38</b>	<b>271</b>	<b>3</b>	<b>2,749</b>	<b>29</b>	<b>9,577</b>	<b>100</b>

**8.23 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			Average number of days for goats on milked			Average price per litre per season		
	Wet Season	Dry Season	Total	Wet Season	Dry Season	Total	Wet Season	Dry Season	Total	Wet Season	Dry Season	Total
	Sum	Sum	Sum	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
Bagamoyo	111	111	222	1.5	1.5	1.5	90	90	90	500	500	500
Kibaha	903	903	1,805	1.8	1.3	1.5	85	80	83	650	650	650
Kisarawe	0	0	0	0	0	0	0	0	0	0	0	0
Mkuranga	759	542	1,302	2.8	1.3	2.0	80	67	74	650	713	681
Rufiji	437	0	437	.5	0	.5	2	90	31	500	0	500
Mafia	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>2,209</b>	<b>1,556</b>	<b>3,765</b>	<b>2.0</b>	<b>1.3</b>	<b>1.7</b>	<b>69</b>	<b>76</b>	<b>72</b>	<b>607</b>	<b>663</b>	<b>632</b>

**SHEEP PRODUCTION**

**8.24 Number of Households Rearing Sheep by District during the 2007/08 Agriculture Year**

Districts	Number of households raising or managing sheep	%	Number of households not raising or managing sheep	%	Number of agriculture households	Total livestock keeping households
Bagamoyo	1,773	4.0	43,095	96.0	44,868	10,303
Kibaha	361	2.0	17,916	98.0	18,277	3,520
Kisarawe	115	.5	23,241	99.5	23,356	1,730
Mkuranga	217	.5	43,716	99.5	43,933	5,641
Rufiji	262	.7	35,110	99.3	35,372	3,493
Mafia	0	.0	8,717	100.0	8,717	3,371
<b>Total</b>	<b>2,728</b>	<b>1.6</b>	<b>171,795</b>	<b>98.4</b>	<b>174,523</b>	<b>28,058</b>

**8.25 Number of Households Rearing Sheep and Number of Sheep by District as of 1st October 2008**

Districts	Total			
	Number of households raising or managing sheep	%	Total Sheep	%
Bagamoyo	1,773	65.0	30,577	70.9
Kibaha	361	13.2	2,798	6.5
Kisarawe	115	4.2	5,709	13.2
Mkuranga	217	8.0	651	1.5
Rufiji	262	9.6	3,406	7.9
Mafia	0	.0	0	0.0
<b>Total</b>	<b>2,728</b>	<b>100.0</b>	<b>43,141</b>	<b>100.0</b>

**8.26 Total Number of Indigenous Sheep by Category of Sheep and District as of 1st October 2007/08 Agriculture year**

District	Number of Indigenous					Total
	Ram	Castrated Sheep	She Sheep	Male Lamb	She Lamb	
Bagamoyo	2,880	2,105	15,842	4,321	5,428	30,577
Kibaha	632	0	1,715	181	271	2,798
Kisarawe	634	404	2,537	980	1,153	5,709
Mkuranga	325	0	217	108	.	651
Rufiji	1,135	0	1,659	175	437	3,406
Mafia	0	0	0	0	0	0
<b>Total</b>	<b>5,607</b>	<b>2,509</b>	<b>21,971</b>	<b>5,765</b>	<b>7,289</b>	<b>43,141</b>

**8.27 Number of Households Rearing Sheep, Head of Sheep and Average Head per Household by Herd Size as of 1st October 2008**

Herd Size	Number of Household	%	Number of sheep	Average per household
1 - 4	286	10.49	774	2.70
5 - 9	898	32.91	5,523	6.15
10 - 14	513	18.80	5,264	10.26
15 - 19	332	12.18	5,650	17.00
20 - 24	111	4.06	2,216	20.00
30 - 34	420	15.39	12,702	30.26
40+	168	6.18	11,013	65.38
<b>Total</b>	<b>2,728</b>	<b>100.00</b>	<b>43,141</b>	<b>15.81</b>

**8.28 Total Number of Sheep by Breed Type During the 2007/08 Agriculture Year - PWANI REGION**

Category	Indigeneous	%	Improved Beef	%	Total Sheep	%
Billy Sheep	5,607	100	0	0	5,607	13
Castrated Sheep	2,509	100	0	0	2,509	6
She Sheep	21,971	100	0	0	21,971	51
Male Kid	5,765	100	0	0	5,765	13
She Kid	7,289	100	0	0	7,289	17
<b>Total</b>	<b>43,141</b>	<b>100</b>	<b>0</b>	<b>0</b>	<b>43,141</b>	<b>100</b>

**PIG PRODUCTION**



**8.29 Number of Households Raising Pigs by Region during 2007/08 Agriculture Year**

Region	During the 2007/2008 Agriculture Year					
	rearing Pigs		Not rearing pigs		Total	
	No of households	%	No of households	%	No of households	%
Bagamoyo	665	1	44,203	99	44,868	100
Kibaha	722	4	17,555	96	18,277	100
Kisarawe	0		23,356	100	23,356	100
Mkuranga	0		43,933	100	43,933	100
Rufiji	0		35,372	100	35,372	100
Mafia	0		8,717	100	8,717	100
<b>Total</b>	<b>1,387</b>	<b>1</b>	<b>173,136</b>	<b>99</b>	<b>174,523</b>	<b>100</b>

**8.30 Number of Households Rearing Pigs, Head of Pigs and Average Head per Household by Herd Size as of 1st October 2008 – Pwani**

Flock Size	Pig rearing households		Herd of pigs	Average Number of Pigs Per Household
	Number	%	Number	
1 - 4	312	22	915	3
5 - 9	382	28	2,199	6
10 - 14	377	27	4,530	12
15 - 19	181	13	2,843	16
20 - 24	45	3	903	20
30 - 39	90	7	3,069	34
<b>Total</b>	<b>1,387</b>	<b>100</b>	<b>14,458</b>	<b>10</b>

**8.31 Total Number of Pigs by Type of Pigs and District as of 1st October 2008**

District	Pig Type					Total
	Boar	Castrated Male	Sow / Gilt	Male Piglet	She Piglet	
Bagamoyo	665	332	2,326	1,108	775	5,207
Kibaha	1,264	948	2,708	1,850	2,482	9,251
Kisarawe	.	.	.	.	.	.
Mkuranga	.	.	.	.	.	.
Rufiji	.	.	.	.	.	.
Mafia	.	.	.	.	.	.
<b>Total</b>	<b>1,928</b>	<b>1,280</b>	<b>5,034</b>	<b>2,958</b>	<b>3,258</b>	<b>14,458</b>

**8.32 Number of Pigs per Household by Region as of 1st October 2008**

Region	Number of households	Number of pigs	Average per household
Bagamoyo	665	5,207	8
Kibaha	722	9,251	13
Kisarawe	0	0	0
Mkuranga	0	0	0
Rufiji	0	0	0
Mafia	0	0	0
<b>Total</b>	<b>1,387</b>	<b>14,458</b>	<b>10</b>

**CHICKEN AND OTHER LIVESTOCK**

**8.33 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	%
Bagamoyo	26,699	422,200	80	443	33,900	6	111	44,314	8	27,142	500,414	100
Kibaha	11,237	170,717	61	226	72,655	26	226	27,077	10	11,508	270,449	100
Kisarawe	16,666	271,854	98	0	0	0	0	0	0	16,666	271,854	100
Mkuranga	27,553	426,642	81	108	75,934	14	217	868	0	27,770	503,444	100
Rufiji	19,040	261,488	98	87	961	0	0	0	0	19,127	262,449	100
Mafia	5,172	67,064	96	29	58	0	0	0	0	5,172	67,122	100
<b>Total</b>	<b>106,367</b>	<b>1,619,965</b>	<b>83</b>	<b>894</b>	<b>183,508</b>	<b>9</b>	<b>553</b>	<b>72,258</b>	<b>4</b>	<b>107,386</b>	<b>1,875,732</b>	<b>100.0</b>

**8.34 Number of Households Keeping Chickens and Average Number of Chickens per Household by Flock Size as of 1st October 2008**

Heard Size	Indigineous chicken				Layers				Broilers					
	Number of Households	Number of Indigineous Chicken	%	Number of Animal Per Household	Number of Households	Number of Layers	%	Number of Animal Per Household	Number of Households	Number of Broilers	%	Number of Animal Per Household	No of Chicken	%
1-49	26,699	1,348,487	99.3	13	383	7,674	0.6	20	262	2,222	0.2	8	500,414	100
50-99	11,237	223,301	96.6	57	111	5,539	2.4	50	45	2,256	1.0	50	270,449	100
100-299	16,666	48,177	51.4	124	111	22,157	23.6	200	135	23,466	25.0	173	271,854	100
300-499	27,553	0	0.0	0	135	45,128	50.5	333	111	44,314	49.5	400	503,444	100
500-699	19,040	0	0.0	0	45	27,077	100.0	600	0	0	0.0	0	262,449	100
700+	5,172	0	0.0	0	108	75,934	100.0	700	0	0	0.0	0	67,122	100
<b>Total</b>	<b>106,367</b>	<b>1,619,965</b>	<b>86.4</b>	<b>15</b>	<b>894</b>	<b>183,508</b>	<b>9.8</b>	<b>205</b>	<b>553</b>	<b>72,258</b>	<b>3.9</b>	<b>131</b>	<b>1,875,732</b>	<b>100</b>

**8.35 Number of Other Livestock by Type of livestock and Region as of 1st October 2008**

District	Ducks	Guine pigs	Turkeys	Rabbits	Donkeys	Horses	Dogs
Bagamoyo	14,291	665	.	111	.	.	10,192
Kibaha	4,603	.	722	1,354	226	.	2,978
Kisarawe	5,190	.	.	.	.	.	807
Mkuranga	14,428	1,519	.	3,471	.	.	1,627
Rufiji	1,834	.	2,620	.	.	.	87
Mafia	349	552	.	.	523	.	1,220
<b>Total</b>	<b>40,695</b>	<b>2,735</b>	<b>3,342</b>	<b>4,936</b>	<b>749</b>	.	<b>16,913</b>

**FISH FARMING**

**8.36 Number of Agriculture Households Practising Fish Farming by District during the 2007/08 Agriculture Year**

District	Was Fish farming carried out by this household during 2007/08				
Bagamoyo	332	0.7	44,868	99	45,200
Kibaha	90	0.5	18,277	100	18,367
Kisarawe	58	0.2	23,356	100	23,414
Mkuranga	0	0.0	43,933	100	43,933
Rufiji	524	1.5	35,372	99	35,896
Mafia	145	1.6	8,717	98	8,862
<b>Total</b>	<b>1,150</b>	<b>0.7</b>	<b>174,523</b>	<b>99</b>	<b>175,672</b>

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

District	system of fish farming			
	Natural Pond	Dug out Pond	Water Reservoir	Other
Bagamoyo	0	116	0	116
Kibaha	0	122	0	122
Kisarawe	0	702	0	702
Mkuranga	0	825	0	825
Rufiji	88	158	0	246
Mafia	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>122</b>

**8.38 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)	%
Bagamoyo	0	0	0	0	0	0
Kibaha	6,100	1	610	1	0	0
Kisarawe	177,751	44	6,592	12	3,251	11
Mkuranga	186,819	46	32,495	57	25,480	83
Rufiji	4,387	1	7,019	12	0	0
Mafia	33,089	8	9,861	17	1,863	6
<b>Total</b>	<b>408,146</b>	<b>100</b>	<b>56,577</b>	<b>100</b>	<b>30,594</b>	<b>100</b>

**8.39 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	%	
Bagamoyo	16	0	0	0	0	0	0	0		0
Kibaha	27	300	100.0	0	0	0	0	0		300
Kisarawe	61	128	100.0	0	0	0	0	0		128
Mkuranga	59	91	87.9	13	12.1	0	0	0		103
Rufiji	34	49	100.0	0	0	0	0	0		49
Mafia	99	547	100.0	0	0	0	0	0		547
Total	0	0	0.0	0	0	0	0	0		0

**8.40 Number of Agricultural Households By frequency of stocking of Fingerings in fish ponds and District, 2007/08 Agricultural Year**

District	Frequency of stocking				Total
	Tilapia	Milkfish	Prawns/Crabs	Lulu	
Bagamoyo	116	0	0	0	116
Kibaha	122	0	0	0	122
Kisarawe	351	351	0	0	702
Mkuranga	722	103	0	0	825
Rufiji	228	0	0	18	246
Mafia	0	0	0	0	0
Total	122	0	0	0	122

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

District	Kiwango cha Huduma ya bwawa				Total
	High	Meadium/Average	Low	8	
Bagamoyo	0	0	116	0	116
Kibaha	0	0	122	0	122
Kisarawe	0	615	87	0	702
Mkuranga	103	413	206	103	825
Rufiji	0	18	140	88	246
Mafia	0	0	0	0	0
Total	0	122	0	0	122

**LIVESTOCK EXTENSION**



**8.42 Number of households receiving extension advice by region during the 2007/08 agriculture year**

Region	Receiving Livestock services		Not Receiving Livestock Extension services		Total
	Number	%	Number	%	
Bagamoyo	13,848	58	10,192	42	24,040
Kibaha	8,710	74	3,024	26	11,733
Kisarawe	7,843	88	1,038	12	8,881
Mkuranga	13,885	87	2,061	13	15,946
Rufiji	9,432	86	1,572	14	11,005
Mafia	2,296	83	465	17	2,760
Total	56,014	75	18,352	25	74,366

**8.43 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	%	
Bagamoyo	12,186	50.7	775	3.2	665	2.8	1,994	8.3	5,761	24.0	2,659	11.1	24,040
Kibaha	8,168	69.6	767	6.5	361	3.1	90	0.8	1,850	15.8	496	4.2	11,733
Kisarawe	7,151	80.5	1,038	11.7	173	1.9	58	0.6	173	1.9	288	3.2	8,881
Mkuranga	12,366	77.6	1,410	8.8	325	2.0	0	0.0	1,302	8.2	542	3.4	15,946
Rufiji	8,908	81.0	524	4.8	175	1.6	0	0.0	1,135	10.3	262	2.4	11,005
Mafia	2,150	77.9	291	10.5	0	0.0	58	2.1	145	5.3	116	4.2	2,760
Total	50,930	68.5	4,806	6.5	1,699	2.3	2,200	3.0	10,366	13.9	4,364	5.9	74,366

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

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Bagamoyo	6,426	87.9	332	4.5	222	3.0	0	0.0	222	3.0	111	1.5	0	0.0	7,312
Kibaha	4,829	89.9	0	0.0	135	2.5	0	0.0	316	5.9	45	0.8	45	0.8	5,370
Kisarawe	4,152	91.1	173	3.8	58	1.3	58	1.3	0	0.0	115	2.5	0	0.0	4,556
Mkuranga	4,448	91.1	217	4.4	0	0.0	0	0.0	108	2.2	108	2.2	0	0.0	4,881
Rufiji	6,638	93.8	175	2.5	0	0.0	0	0.0	262	3.7	0	0.0	0	0.0	7,074
Mafia	1,279	89.8	87	6.1	0	0.0	0	0.0	29	2.0	29	2.0	0	0.0	1,424
Total	27,770	90.7	984	3.2	415	1.4	58	0.2	937	3.1	409	1.3	45	0.1	30,617

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

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Bagamoyo	8,863	87.0	222	2.2	0	0.0	222	2.2	443	4.3	443	4.3	0	0.0	10,192
Kibaha	5,280	86.7	135	2.2	0	0.0	45	0.7	542	8.9	45	0.7	45	0.7	6,092
Kisarawe	4,729	92.1	173	3.4	0	0.0	58	1.1	0	0.0	173	3.4	0	0.0	5,133
Mkuranga	6,617	83.6	325	4.1	108	1.4	0	0.0	759	9.6	108	1.4	0	0.0	7,919
Rufiji	6,288	93.5	87	1.3	0	0.0	0	0.0	262	3.9	87	1.3	0	0.0	6,725
Mafia	1,017	81.4	145	11.6	0	0.0	0	0.0	87	7.0	0	0.0	0	0.0	1,249
Total	32,794	87.9	1,088	2.9	108	0.3	324	0.9	2,093	5.6	857	2.3	45	0.1	37,310

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

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Bagamoyo	3,545	55	332	5	111	2	222	3	1,883	29	332	5	0	0	6,426
Kibaha	1,895	88	90	4	45	2	0	0	90	4	0	0	45	2	2,166
Kisarawe	1,269	88	115	8	0	0	0	0	0	0	58	4	0	0	1,442
Mkuranga	868	57	542	36	0	0	0	0	108	7	0	0	0	0	1,519
Rufiji	2,533	94	0	0	0	0	0	0	175	6	0	0	0	0	2,707
Mafia	1,046	84	116	9	0	0	0	0	58	5	29	2	0	0	1,249
Total	11,156	72	1,197	8	156	1	222	1	2,315	15	419	3	45	0	15,509

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

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Bagamoyo	1,773	34.0	332	6.4	0	0.0	665	12.8	1,551	29.8	886	17.0	0	0.0	5,207
Kibaha	903	76.9	0	0.0	45	3.8	0	0.0	181	15.4	45	3.8	0	0.0	1,173
Kisarawe	1,269	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,269
Mkuranga	542	41.7	434	33.3	0	0.0	0	0.0	217	16.7	108	8.3	0	0.0	1,302
Rufiji	2,620	93.8	0	0.0	0	0.0	0	0.0	87	3.1	87	3.1	0	0.0	2,795
Mafia	465	88.9	58	11.1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	523
Total	7,571	61.7	824	6.7	45	0.4	665	5.4	2,036	16.6	1,127	9.2	0	0.0	12,268

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

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Bagamoyo	7,755	76.1	222	2.2	222	2.2	332	3.3	1,219	12.0	443	4.3	0	0.0	10,192
Kibaha	5,325	89.4	45	0.8	45	0.8	0	0.0	406	6.8	90	1.5	45	0.8	5,957
Kisarawe	4,441	92.8	231	4.8	0	0.0	0	0.0	0	0.0	115	2.4	0	0.0	4,787
Mkuranga	7,051	87.8	434	5.4	0	0.0	0	0.0	542	6.8	0	0.0	0	0.0	8,027
Rufiji	6,026	88.5	175	2.6	0	0.0	0	0.0	524	7.7	87	1.3	0	0.0	6,812
Mafia	1,366	87.0	29	1.9	0	0.0	29	1.9	29	1.9	87	5.6	29	1.9	1,569
Total	31,964	85.6	1,135	3.0	267	0.7	361	1.0	2,720	7.3	823	2.2	74	0.2	37,344

**8.49 Number of households receiving extension advice on Herd/Flock size and selection 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		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
District	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Bagamoyo	4,653	62.7	111	1.5	0	0.0	665	9.0	1,440	19.4	554	7.5	0	0.0	7,423
Kibaha	1,760	79.6	90	4.1	0	0.0	0	0.0	271	12.2	90	4.1	0	0.0	2,211
Kisarawe	1,096	82.6	115	8.7	58	4.3	0	0.0	0	0.0	58	4.3	0	0.0	1,326
Mkuranga	2,603	82.8	325	10.3	0	0.0	0	0.0	108	3.4	108	3.4	0	0.0	3,146
Rufiji	3,581	85.4	0	0.0	87	2.1	0	0.0	524	12.5	0	0.0	0	0.0	4,192
Mafia	726	89.3	29	3.6	0	0.0	0	0.0	29	3.6	29	3.6	0	0.0	814
Total	14,419	75.4	671	3.5	145	0.8	665	3.5	2,373	12.4	839	4.4	0	0.0	19,112

**8.50 Number of households receiving extension advice on Pasture Establishment 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		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
District	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Bagamoyo	2,216	38.5	111	1.9	111	1.9	0	0.0	2,880	50.0	443	7.7	0	0.0	5,761
Kibaha	1,399	86.1	45	2.8	45	2.8	0	0.0	90	5.6	45	2.8	0	0.0	1,625
Kisarawe	1,096	86.4	173	13.6	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,269
Mkuranga	868	72.7	217	18.2	0	0.0	0	0.0	108	9.1	0	0.0	0	0.0	1,193
Rufiji	3,493	90.9	87	2.3	0	0.0	0	0.0	262	6.8	0	0.0	0	0.0	3,843
Mafia	436	88.2	29	5.9	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	494
Total	9,508	67.0	662	4.7	156	1.1	0	0.0	3,341	23.6	488	3.4	0	0.0	14,184

**8.51 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		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Bagamoyo	5,982	85.7	222	3.2	111	1.6	111	1.6	332	4.8	222	3.2	0	0.0	6,979
Kibaha	3,475	73.3	361	7.6	226	4.8	0	0.0	632	13.3	45	1.0	0	0.0	4,738
Kisarawe	4,671	84.4	634	11.5	115	2.1	0	0.0	0	0.0	115	2.1	0	0.0	5,536
Mkuranga	2,603	72.7	651	18.2	108	3.0	0	0.0	108	3.0	108	3.0	0	0.0	3,580
Rufiji	6,376	93.6	0	0.0	87	1.3	0	0.0	262	3.8	87	1.3	0	0.0	6,812
Mafia	494	85.0	58	10.0	0	0.0	0	0.0	0	0.0	29	5.0	0	0.0	581
Total	23,601	83.6	1,926	6.8	648	2.3	111	0.4	1,335	4.7	607	2.2	0	0.0	28,227

**8.52 Number of households receiving extension advice on Calf Rearing 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		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
District															
Bagamoyo	2,880	43.3	332	5.0	111	1.7	332	5.0	1,662	25.0	1,329	20.0	0	0.0	6,647
Kibaha	1,625	76.6	45	2.1	0	0.0	0	0.0	271	12.8	135	6.4	45	2.1	2,121
Kisarawe	1,384	82.8	115	6.9	0	0.0	0	0.0	115	6.9	58	3.4	0	0.0	1,672
Mkuranga	1,844	73.9	434	17.4	108	4.3	0	0.0	108	4.3	0	0.0	0	0.0	2,495
Rufiji	2,620	85.7	175	5.7	0	0.0	0	0.0	175	5.7	87	2.9	0	0.0	3,057
Mafia	1,220	85.7	58	4.1	0	0.0	29	2.0	58	4.1	58	4.1	0	0.0	1,424
Total	11,574	66.5	1,160	6.7	219	1.3	361	2.1	2,389	13.7	1,668	9.6	45	0.3	17,416

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

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Bagamoyo	2,105	37.3	111	2.0	222	3.9	332	5.9	2,770	49.0	111	2.0	0	0.0	5,650
Kibaha	1,489	84.6	0	0.0	45	2.6	45	2.6	135	7.7	45	2.6	0	0.0	1,760
Kisarawe	1,038	94.7	58	5.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,096
Mkuranga	651	54.5	217	18.2	0	0.0	0	0.0	325	27.3	0	0.0	0	0.0	1,193
Rufiji	2,620	90.9	0	0.0	0	0.0	0	0.0	262	9.1	0	0.0	0	0.0	2,882
Mafia	581	95.2	29	4.8	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	610
Total	8,484	64.3	414	3.1	267	2.0	377	2.9	3,492	26.5	156	1.2	0	0.0	13,191

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

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Bagamoyo	2,659	55.8	222	4.7	111	2.3	111	2.3	1,551	32.6	111	2.3	0	0.0	4,764
Kibaha	3,700	84.5	45	1.0	0	0.0	0	0.0	451	10.3	135	3.1	45	1.0	4,377
Kisarawe	2,768	98.0	0	0.0	0	0.0	0	0.0	58	2.0	0	0.0	0	0.0	2,826
Mkuranga	1,953	85.7	217	9.5	0	0.0	0	0.0	108	4.8	0	0.0	0	0.0	2,278
Rufiji	4,804	91.7	87	1.7	0	0.0	0	0.0	349	6.7	0	0.0	0	0.0	5,240
Mafia	610	91.3	29	4.3	0	0.0	0	0.0	0	0.0	29	4.3	0	0.0	668
Total	16,494	81.8	600	3.0	111	0.5	111	0.5	2,518	12.5	275	1.4	45	0.2	20,153

**BEE KEEPING**



**8.55 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	%
Bagamoyo	332	.7	44,535	99.3	44,868	100.0
Kibaha	90	.5	18,186	99.5	18,277	100.0
Kisarawe	58	.2	23,298	99.8	23,356	100.0
Mkuranga	0	.0	43,933	100.0	43,933	100.0
Rufiji	524	1.5	34,848	98.5	35,372	100.0
Mafia	145	1.7	8,572	98.3	8,717	100.0
Total	1,150	.7	173,373	99.3	174,523	100.0

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

District	Stingless Bee					Stingbee				
	Yes	%	No	%	Total	Yes	%	No	%	Total
Bagamoyo	16,221	94.8	888	5.2	17,110	4,768	88.3	629	11.7	5,398
Kibaha	6,125	96.4	231	3.6	6,356	1,525	71.0	624	29.0	2,149
Kisarawe	5,181	98.4	87	1.6	5,268	3,679	93.6	250	6.4	3,929
Rufiji	4,500	99.0	45	1.0	4,546	875	100.0	0	0.0	875
Mafia	2,391	100.0	0	0.0	2,391	458	100.0	0	0.0	458
Total	865	88.6	111	11.4	976	349	75.9	111	24.1	460

**8.57 Number of Bee hives by Type, Size of Bees and District during the 2007/08 Agriculture Year**

District	Sting Bee				Stinglessbee				Total
	Improved Bee hive		Local Bee hive		Improved Bee hive		Local Bee hive		
	Number	%	Number	%	Number	%	Number	%	
Bagamoyo	332	0	332	997	111	0	111	222	886
Kibaha	90	90	90	1,625	0	.	0	.	181
Kisarawe	0	.	0	.	58	0	58	115	115
Rufiji	437	262	437	1,834	262	524	262	437	1,397
Mafia	116	174	116	2,470	29	116	29	58	291
Total	976	527	976	6,926	460	640	460	832	2,870

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

District	Stingless Bee				Bee				Total	
	Honey Harvested		Honey Sold		Honey Harvested		Honey Sold		Honey Sold	Honey Harvested
	Quantity (Its)	%	Quantity (Its)	%	Quantity (Its)	%	Quantity (Its)	%		
Bagamoyo	1,108	9	111	2	11,300	91	6,758	98	6,869	12,408
Kibaha	0	0	0	0	2,617	100	2,617	100	2,617	2,617
Kisarawe	288	100	58	100	0	0	0	0	58	288
Rufiji	6,201	42	262	3	8,734	58	8,210	97	8,472	14,935
Mafia	0	0	29	0	14,616	100	13,337	100	13,366	14,616
Total	7,597	17	460	1	37,267	83	30,922	99	31,382	44,864

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

District	Stingless Bee (Price per Litre)	Bee (Price per Litre)	Average Price Per Litre
Bagamoyo	1,000	332	1,148
Kibaha	0	90	1,865
Kisarawe	2,000	0	2,821
Rufiji	2,567	437	1,544
Mafia	0	116	1,735
Total	1,956	976	2,132

**8.60 Number of Agriculture Households by Location of Selling Honey and Region during the 2007/08 Agriculture Year**

Region	Neighbour		Local market		Secondary market		Processing industry		Large scale farm	Trade at farm		Did not sell		Other		Total	
	Stingbee	Stingless Bee	Sting bee	Stingless Bee	Sting bee	Stingless Bee	Stingbee	Stingless Bee	Stingless Bee	Sting bee	Stingless Bee	Sting bee	Stingless Bee	Sting bee	Stingless Bee	Sting bee	Stingless Bee
Bagamoyo	111	332	0	0	0	0	0	0	222	0	0	0	0	0	507	111	332
Kibaha	0	90	0	0	0	0	0	0	0	0	0	0	0	122	0	0	90
Kisarawe	58	0	0	0	0	0	250	63	0	0	0	0	0	0	0	58	0
Mkuranga	0	0	0	0	87	87	0	0	0	0	0	0	0	0	84	0	0
Rufiji	0	175	0	0	0	0	0	0	0	175	175	0	262	0	0	262	437
Mafia	0	87	0	0	87	87	0	0	0	0	29	29	29	0	0	29	116
<b>Total</b>	<b>168</b>	<b>684</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>175</b>	<b>204</b>	<b>29</b>	<b>460</b>	<b>0</b>	<b>0</b>	<b>460</b>	<b>976</b>

**PESTS AND PARASITES**

**8.61 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	%
Bagamoyo	7,755	25	22,711	75	30,466	100
Kibaha	3,971	33	8,213	67	12,184	100
Kisarawe	1,384	8	15,974	92	17,359	100
Mkuranga	3,688	13	25,275	87	28,963	100
Rufiji	1,310	6	19,913	94	21,223	100
Mafia	1,017	15	5,666	85	6,683	100
Total	19,126	16	97,753	84	116,878	100

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

District	Cattles				Goats/Sheep				Pig				Chicken			
	Households that dewormed	Households that DID NOT deworm	Not Applicable	Total	Households that dewormed	Households that DID NOT deworm	Not Applicable	Total	Households that dewormed	Households that DID NOT deworm	Not Applicable	Total	Households that dewormed	Households that DID NOT deworm	Not Applicable	Total
Bagamoyo	3,434	665	3,767	7,866	4,321	997	2,659	7,976	554	665	6,536	7,755	2,548	4,321	1,773	8,641
Kibaha	2,031	135	1,895	4,061	948	271	2,843	4,061	677	271	3,114	4,061	2,437	3,159	587	6,182
Kisarawe	231	115	1,211	1,557	404	115	980	1,499	0	115	1,384	1,499	923	1,845	173	2,941
Mkuranga	542	108	3,254	3,905	976	434	2,495	3,905	0	108	3,797	3,905	3,363	2,929	108	6,400
Rufiji	437	0	873	1,310	524	175	699	1,397	0	87	1,223	1,310	786	2,096	437	3,319
Mafia	610	145	262	1,017	58	29	930	1,017	0	29	988	1,017	320	581	145	1,046
Total	7,285	1,169	11,262	19,717	7,230	2,021	10,606	19,857	1,231	1,276	17,042	19,548	10,376	14,931	3,223	28,530

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

District	Tick Problem		No Tick Problem		Not Applicable		Total	
	Number	%	Number	%	Number	%	Number	%
Bagamoyo	5,650	19	1,773	6	22,157	75	29,580	100
Kibaha	1,805	15	993	8	9,161	77	11,959	100
Kisarawe	519	3	750	4	15,628	92	16,897	100
Mkuranga	651	2	1,302	5	26,685	93	28,638	100
Rufiji	1,048	5	786	4	18,254	91	20,088	100
Mafia	2,266	35	552	9	3,574	56	6,393	100
Total	11,940	11	6,155	5	95,459	84	113,554	100

**8.64 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	%
Bagamoyo	332	1	5,539	19	332	1	23,376	79	0	0	29,580	100
Kibaha	135	1	2,166	18	271	2	9,387	78	0	0	11,959	100
Kisarawe	115	1	346	2	577	3	15,859	94	0	0	16,897	100
Mkuranga	108	0	1,085	4	434	2	27,011	94	0	0	28,638	100
Rufiji	87	0	786	4	699	3	18,516	92	0	0	20,088	100
Mafia	58	1	1,976	31	407	6	3,952	62	0	0	6,393	100
Total	837	1	11,898	10	2,719	2	98,099	86	0	0	113,554	100

**8.65 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	%
Bagamoyo	3,545	12	4,210	14	21,825	74	29,580	100
Kibaha	1,083	9	1,625	14	9,251	77	11,959	100
Kisarawe	346	2	750	4	15,801	94	16,897	100
Mkuranga	434	2	1,519	5	26,794	93	28,747	100
Rufiji	873	4	873	4	18,341	91	20,088	100
Mafia	523	8	2,266	35	3,603	56	6,393	100
Total	<b>6,804</b>	<b>6</b>	<b>11,243</b>	<b>10</b>	<b>95,615</b>	<b>84</b>	<b>113,662</b>	<b>100</b>

**8.66 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	%
Bagamoyo	222	1	3,656	12	443	1	25,148	85	111	0	29,580	100
Kibaha	181	2	1,805	15	316	3	9,657	81	0	0	11,959	100
Kisarawe	58	0	461	3	404	2	15,974	95	0	0	16,897	100
Mkuranga	108	0	976	3	325	1	27,228	95	0	0	28,638	100
Rufiji	175	1	437	2	611	3	18,778	93	87	0	20,088	100
Mafia	29	0	872	14	174	3	5,317	83	0	0	6,393	100
<b>Total</b>	<b>772</b>	<b>1</b>	<b>8,207</b>	<b>7</b>	<b>2,274</b>	<b>2</b>	<b>102,103</b>	<b>90</b>	<b>198</b>	<b>0</b>	<b>113,554</b>	<b>100</b>

**8.67 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	%
Bagamoyo	19,387	66	7,866	27	2,326	8	29,580	100
Kibaha	8,619	72	2,798	23	542	5	11,959	100
Kisarawe	10,727	63	5,421	32	750	4	16,897	100
Mkuranga	17,248	60	10,088	35	1,302	5	28,638	100
Rufiji	11,179	56	8,210	41	699	3	20,088	100
Mafia	4,765	75	668	10	959	15	6,393	100
<b>Total</b>	<b>71,926</b>	<b>63</b>	<b>35,051</b>	<b>31</b>	<b>6,577</b>	<b>6</b>	<b>113,554</b>	<b>100</b>



**8.68 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	%
Bagamoyo	7,755	26	9,306	31	12,519	42	29,580	100
Kibaha	5,145	43	3,159	26	3,655	31	11,959	100
Kisarawe	3,979	24	4,441	26	8,477	50	16,897	100
Mkuranga	5,858	20	7,268	25	15,512	54	28,638	100
Rufiji	4,978	25	5,066	25	10,044	50	20,088	100
Mafia	552	9	1,860	29	3,981	62	6,393	100
Total	28,267	25	31,099	27	54,188	48	113,554	100

**8.69 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	%
Bagamoyo	7,090	24	19,941	67	2,548	9	29,580	100
Kibaha	2,437	20	8,845	74	677	6	11,959	100
Kisarawe	7,670	45	8,996	53	231	1	16,897	100
Mkuranga	8,570	30	19,309	67	759	3	28,638	100
Rufiji	3,319	17	15,983	80	786	4	20,088	100
Mafia	1,511	24	4,359	68	523	8	6,393	100
Total	30,597	27	77,433	68	5,524	5	113,554	100

**8.70 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	%
Bagamoyo	1,773	6	3,988	13	23,819	81	29,580	100
Kibaha	1,173	10	2,166	18	8,619	72	11,959	100
Kisarawe	2,249	13	3,922	23	10,727	63	16,897	100
Mkuranga	1,193	4	5,207	18	22,238	78	28,638	100
Rufiji	175	1	2,882	14	17,031	85	20,088	100
Mafia	0	0	1,947	30	4,446	70	6,393	100
Total	6,563	6	20,112	18	86,879	77	113,554	100

**8.71 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	%
Bagamoyo	665	2	3,767	13	24,816	85	29,247	100
Kibaha	1,489	13	948	8	8,845	78	11,282	100
Kisarawe	173	1	404	3	15,052	96	15,628	100
Mkuranga	434	2	651	2	26,143	96	27,228	100
Rufiji	262	1	1,572	8	16,856	90	18,690	100
Mafia	0	0	2,499	39	3,894	61	6,393	100
<b>Total</b>	<b>3,023</b>	<b>3</b>	<b>9,840</b>	<b>9</b>	<b>95,605</b>	<b>88</b>	<b>108,468</b>	<b>100</b>

**8.72 Number of Livestock Rearing Households normally Encountering Lympyskin Disease Problems by Region during 2007/08 Agriculture Year**

Region	Households Encountering Lympyskin Disease		Households NOT Encountering Lympyskin Disease		Not Applicable		Total	
	Number	%	Number	%	Number	%	Number	%
Bagamoyo	443	2	4,099	14	24,594	84	29,136	100
Kibaha	857	8	1,670	15	8,755	78	11,282	100
Kisarawe	115	1	404	3	15,109	97	15,628	100
Mkuranga	325	1	651	2	26,143	96	27,119	100
Rufiji	0	0	1,834	10	16,856	90	18,690	100
Mafia	58	1	2,615	41	3,748	58	6,422	100
<b>Total</b>	<b>1,799</b>	<b>2</b>	<b>11,273</b>	<b>10</b>	<b>95,206</b>	<b>88</b>	<b>108,278</b>	<b>100</b>

**POVERTY MODULE**

### 9.1 Number of households reporting average number of rooms and type of building Materials and Region, 2007/08 Agricultural Year

District	Roofing Materials								Total number of Agriculture Househlds
	Mean Number of rooms	Iron Sheets	Tiles	Concrete	Asbestos	Grass/Leaves	Grass & Mud	Other	
Bagamoyo	3	24,151	222	0	111	17,504	2,659	222	44,868
Kibaha	3	11,733	181	45	181	5,731	406	0	18,277
Kisarawe	3	10,727	461	58	0	11,303	750	58	23,356
Mkuranga	3	15,078	651	0	1,953	25,709	434	108	43,933
Rufiji	3	10,306	611	87	262	23,756	349	0	35,372
Mafia	3	1,366	58	29	0	7,206	58	0	8,717
<b>Total</b>	<b>3</b>	<b>73,361</b>	<b>2,184</b>	<b>219</b>	<b>2,506</b>	<b>91,209</b>	<b>4,656</b>	<b>388</b>	<b>174,523</b>
<b>Percentage</b>		<b>42</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>52</b>	<b>3</b>	<b>0</b>	<b>100</b>

### 9.2 Number of households reporting Average number of Rooms by type of Floor Materials and District, 2007/08 Agricultural Year

District	Floor Materials							
	Mean Number of rooms	Earth,Sand, Dung	Wood Planks, Bamboo, Palm	Parquet Or Polished Wood	Ceramic Tiles, Terrazzo	Cement	Other	Total number of Agriculture Househlds
Bagamoyo	3	35,451	665	111	0	8,641	0	44,868
Kibaha	3	11,598	496	0	181	5,912	90	18,277
Kisarawe	3	19,492	577	0	0	3,287	0	23,356
Mkuranga	3	35,689	1,519	217	0	6,509	0	43,933
Rufiji	3	30,655	786	0	0	3,930	0	35,372
Mafia	3	6,509	58	0	0	2,150	0	8,717
Total	3	139,394	4,101	328	181	30,429	90	174,523
Percentage		80	2	0	0	17	0	100

### 9.3 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
Bagamoyo	6,204	33,014	443	1,440	222	3,213	0	332	44,868
Kibaha	2,843	9,702	542	316	181	4,648	0	45	18,277
Kisarawe	2,653	18,685	288	519	115	980	0	115	23,356
Mkuranga	2,929	36,774	1,085	108	434	2,278	217	108	43,933
Rufiji	3,057	28,647	699	349	524	2,009	87	0	35,372
Mafia	1,337	5,986	174	29	87	610	494	0	8,717
<b>Total</b>	<b>19,022</b>	<b>132,807</b>	<b>3,231</b>	<b>2,762</b>	<b>1,563</b>	<b>13,738</b>	<b>798</b>	<b>601</b>	<b>174,523</b>
<b>Percentage</b>	<b>11</b>	<b>76</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>100</b>

**9.4 Number of Agricultural Households reporting ownership of Assets by District, 2007/08 Agricultural Year**

District	Radio			Landline phone			Mobile phone			Iron			Wheelbarrow		
	Yes	No	Total	Yes	No	Total	Yes	No	Total	Yes	No	Total	Yes	No	Total
Bagamoyo	35,340	9,527	44,868	443	44,425	44,868	22,932	21,935	44,868	11,078	33,789	44,868	1,662	43,206	44,868
Kibaha	13,809	4,468	18,277	271	18,006	18,277	9,702	8,574	18,277	5,776	12,500	18,277	2,076	16,201	18,277
Kisarawe	16,147	7,209	23,356	346	23,010	23,356	10,323	13,033	23,356	3,749	19,608	23,356	750	22,606	23,356
Mkuranga	35,472	8,461	43,933	542	43,391	43,933	20,285	23,648	43,933	12,041	31,892	43,933	2,495	41,438	43,933
Rufiji	27,162	8,210	35,372	262	35,110	35,372	14,847	20,524	35,372	8,908	26,463	35,372	1,747	33,625	35,372
Mafia	7,322	1,395	8,717	87	8,630	8,717	4,242	4,475	8,717	1,947	6,770	8,717	232	8,485	8,717
<b>Total</b>	<b>135,253</b>	<b>39,269</b>	<b>174,523</b>	<b>1,951</b>	<b>172,571</b>	<b>174,523</b>	<b>82,333</b>	<b>92,190</b>	<b>174,523</b>	<b>43,500</b>	<b>131,023</b>	<b>174,523</b>	<b>8,962</b>	<b>165,561</b>	<b>174,523</b>

**Cont. 9.4 Number of Agricultural Households reporting ownership of Assets by District, 2007/08 Agricultural Year**

District	Bicycle			Vehicle			Television / Video			Refrigerator			Motor Cycle		
	Yes	No	Total	Yes	No	Total	Yes	No	Total	Yes	No	Total	Yes	No	Total
Bagamoyo	25,259	19,609	44,868	1,551	43,317	44,868	2,216	42,652	44,868	1,108	43,760	44,868	2,105	42,763	44,868
Kibaha	9,702	8,574	18,277	1,399	16,878	18,277	2,256	16,020	18,277	1,579	16,697	18,277	1,038	17,239	18,277
Kisarawe	11,592	11,765	23,356	1,326	22,030	23,356	577	22,779	23,356	288	23,068	23,356	519	22,837	23,356
Mkuranga	19,092	24,841	43,933	3,037	40,896	43,933	868	43,066	43,933	542	43,391	43,933	759	43,174	43,933
Rufiji	18,952	16,419	35,372	1,834	33,538	35,372	524	34,848	35,372	437	34,935	35,372	699	34,673	35,372
Mafia	4,068	4,649	8,717	349	8,368	8,717	320	8,397	8,717	174	8,543	8,717	145	8,572	8,717
<b>Total</b>	<b>88,665</b>	<b>85,858</b>	<b>174,523</b>	<b>9,496</b>	<b>165,026</b>	<b>174,523</b>	<b>6,760</b>	<b>167,762</b>	<b>174,523</b>	<b>4,129</b>	<b>170,394</b>	<b>174,523</b>	<b>5,265</b>	<b>169,258</b>	<b>174,523</b>

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

District	Mains Electricity	Solar	Gas (Biogas)	Hurricane Lamp	Pressure Lamp	Wick Lamp	Candles	Firewood	Other	Total
Bagamoyo	1,883	0	111	12,297	2,880	26,810	111	554	222	44,868
Kibaha	1,986	226	0	4,061	812	11,146	0	45	0	18,277
Kisarawe	58	346	0	1,788	1,038	19,608	0	519	0	23,356
Mkuranga	434	108	0	7,160	651	35,147	217	217	0	43,933
Rufiji	262	0	0	5,502	1,397	27,948	0	262	0	35,372
Mafia	232	87	0	2,964	436	4,794	29	174	0	8,717
<b>Total</b>	<b>4,855</b>	<b>767</b>	<b>111</b>	<b>33,772</b>	<b>7,215</b>	<b>125,453</b>	<b>357</b>	<b>1,771</b>	<b>222</b>	<b>174,523</b>
<b>Percentage</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>19</b>	<b>4</b>	<b>72</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>100</b>

**9.6 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)	Parraffin / Kerosine	Charcoal	Firewood	Crop Residues	Livestock Dung	Other	Total
Bagamoyo	0	0	111	111	222	6,204	37,999	222	0	0	44,868
Kibaha	90	45	0	135	90	2,933	14,892	90	0	0	18,277
Kisarawe	0	0	58	0	173	577	22,549	0	0	0	23,356
Mkuranga	325	0	0	0	0	1,085	42,415	108	0	0	43,933
Rufiji	87	0	0	0	87	2,096	32,926	175	0	0	35,372
Mafia	29	29	0	29	0	785	7,816	29	0	0	8,717
<b>Total</b>	<b>532</b>	<b>74</b>	<b>168</b>	<b>275</b>	<b>572</b>	<b>13,679</b>	<b>158,597</b>	<b>624</b>	<b>0</b>	<b>0</b>	<b>174,523</b>
<b>Percentage</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>91</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100</b>

**9.7 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	Uprotected Well	Unprotected Spring	Surface Water (Lake / Dam / River / Stream)	Covered Rainwater Catchment	Uncovered Rainwater Catchment	Water Vendor	Tanked Truck	Bottled water	Other	Total
Bagamoyo	20,274	1,662	332	6,204	1,440	9,084	775	4,985	111	0	0	0	44,868
Kibaha	7,311	2,076	226	4,784	316	3,114	45	271	45	90	0	0	18,277
Kisarawe	577	3,979	173	13,149	288	1,442	865	2,710	58	0	0	115	23,356
Mkuranga	1,953	10,305	759	26,577	542	0	1,085	2,170	0	0	0	542	43,933
Rufiji	2,445	1,397	349	19,913	3,057	3,756	87	2,096	0	0	0	2,271	35,372
Mafia	349	1,656	378	4,097	814	523	262	639	0	0	0	0	8,717
<b>Total</b>	<b>32,908</b>	<b>21,076</b>	<b>2,217</b>	<b>74,723</b>	<b>6,457</b>	<b>17,918</b>	<b>3,119</b>	<b>12,871</b>	<b>214</b>	<b>90</b>	<b>0</b>	<b>2,928</b>	<b>174,523</b>
<b>Percentage</b>	<b>19</b>	<b>12</b>	<b>1</b>	<b>43</b>	<b>4</b>	<b>10</b>	<b>2</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>100</b>

**9.8 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
Bagamoyo	16,618	4,985	0	13,294	6,647	1,662	1,662	0	0	44,868
Kibaha	4,061	4,061	0	4,061	5,415	0	677	0	0	18,277
Kisarawe	3,460	0	0	4,325	11,246	1,730	1,730	865	0	23,356
Mkuranga	13,017	11,390	0	14,644	3,254	1,627	0	0	0	43,933
Rufiji	9,170	2,620	0	3,930	15,721	2,620	1,310	0	0	35,372
Mafia	2,615	2,179	1,308	2,179	436	0	0	0	0	8,717
<b>Total</b>	<b>48,942</b>	<b>25,236</b>	<b>1,308</b>	<b>42,435</b>	<b>42,719</b>	<b>7,639</b>	<b>5,379</b>	<b>865</b>	<b>0</b>	<b>174,523</b>
<b>Percentage</b>	<b>28</b>	<b>14</b>	<b>1</b>	<b>24</b>	<b>24</b>	<b>4</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>100</b>

**9.9 Number of Agricultural Households Reporting Time Spent to and from Main Source of Drinking Water during Wet Season by District, 2007/08 Agricultural Year**

District	Less than 10	10-19 Minutes	20-29 Minutes	30-39 Minutes	40-49 Minutes	50-59 Minutes	one hour and	Total
Bagamoyo	14,956	9,971	0	14,956	0	0	4,985	44,868
Kibaha	8,123	3,385	2,031	3,385	0	0	1,354	18,277
Kisarawe	1,730	865	0	12,976	0	0	7,785	23,356
Mkuranga	11,390	6,509	4,881	19,526	1,627	0	0	43,933
Rufiji	5,240	5,240	0	13,101	1,310	0	10,480	35,372
Mafia	4,359	2,179	1,308	436	0	0	436	8,717
<b>Total</b>	<b>45,798</b>	<b>28,148</b>	<b>8,220</b>	<b>64,379</b>	<b>2,937</b>	<b>0</b>	<b>25,041</b>	<b>174,523</b>
<b>Percentage</b>	<b>26</b>	<b>16</b>	<b>5</b>	<b>37</b>	<b>2</b>	<b>0</b>	<b>14</b>	<b>100</b>



**9.10 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	Other	Total HH
Bagamoyo	22,379	3,434	222	5,982	665	8,198	0	3,102	111	775	0	0	44,868
Kibaha	7,536	1,760	271	4,152	632	2,708	0	45	1,173	0	0	0	18,277
Kisarawe	577	3,691	750	13,206	404	1,211	577	2,710	173	0	0	58	23,356
Mkuranga	1,519	9,763	759	29,072	651	1,193	108	868	0	0	0	0	43,933
Rufiji	2,358	2,009	87	21,834	1,747	5,852	611	437	262	87	87	0	35,372
Mafia	639	2,208	378	4,300	726	58	29	349	0	0	29	0	8,717
<b>Total</b>	<b>35,008</b>	<b>22,865</b>	<b>2,466</b>	<b>78,547</b>	<b>4,824</b>	<b>19,220</b>	<b>1,326</b>	<b>7,511</b>	<b>1,719</b>	<b>863</b>	<b>116</b>	<b>58</b>	<b>174,523</b>
<b>Percentage</b>	<b>20</b>	<b>13</b>	<b>1</b>	<b>45</b>	<b>3</b>	<b>11</b>	<b>1</b>	<b>4</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>100</b>

**9.11 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
Bagamoyo	16,618	4,985	0	6,647	4,985	6,647	0	4,985	0	44,868
Kibaha	4,738	4,061	0	4,738	3,385	677	0	677	0	18,277
Kisarawe	4,325	0	0	865	7,785	4,325	2,595	3,460	0	23,356
Mkuranga	6,509	8,136	0	13,017	9,763	6,509	0	0	0	43,933
Rufiji	6,550	2,620	0	5,240	17,031	2,620	1,310	0	0	35,372
Mafia	1,743	2,179	872	2,179	436	0	436	436	436	8,717
<b>Total</b>	<b>40,484</b>	<b>21,982</b>	<b>872</b>	<b>32,687</b>	<b>43,385</b>	<b>20,778</b>	<b>4,341</b>	<b>9,558</b>	<b>436</b>	<b>174,523</b>
<b>Percentage</b>	<b>23</b>	<b>13</b>	<b>0</b>	<b>19</b>	<b>25</b>	<b>12</b>	<b>2</b>	<b>5</b>	<b>0</b>	<b>100</b>

**9.12 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
Bagamoyo	18,279	6,647	0	8,309	0	0	11,632	44,868
Kibaha	6,092	1,354	2,031	3,385	0	0	5,415	18,277
Kisarawe	0	2,595	0	3,460	865	0	16,436	23,356
Mkuranga	4,881	1,627	6,509	6,509	4,881	0	19,526	43,933
Rufiji	5,240	5,240	0	13,101	1,310	0	10,480	35,372
Mafia	3,487	2,179	1,308	0	0	0	1,743	8,717
<b>Total</b>	<b>37,980</b>	<b>19,643</b>	<b>9,847</b>	<b>34,763</b>	<b>7,057</b>	<b>0</b>	<b>65,233</b>	<b>174,523</b>
<b>Percentage</b>	<b>22</b>	<b>11</b>	<b>6</b>	<b>20</b>	<b>4</b>	<b>0</b>	<b>37</b>	<b>100</b>

**9.13 Number of Agricultural Households Reporting type of TOILET the household normally use by District, 2007/08 Agricultural Year**

District	No Toilet / Bush	Flush Toilet	Traditional Pit Latrine	Improved Pit Latrine - hh Owned	Other Type	Total
Bagamoyo	4,542	443	37,445	2,437	0	44,868
Kibaha	587	812	14,396	2,482	0	18,277
Kisarawe	1,672	115	20,127	1,442	0	23,356
Mkuranga	2,929	434	38,835	1,736	0	43,933
Rufiji	3,930	87	28,909	2,445	0	35,372
Mafia	2,005	87	5,957	668	0	8,717
<b>Total</b>	<b>15,665</b>	<b>1,979</b>	<b>145,668</b>	<b>11,210</b>	<b>0</b>	<b>174,523</b>
<b>Percentage</b>	<b>9</b>	<b>1</b>	<b>83</b>	<b>6</b>	<b>0</b>	<b>100</b>

**9.14 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
Bagamoyo	332	11,743	32,792	44,868
Kibaha	1,038	6,814	10,424	18,277
Kisarawe	750	7,785	14,821	23,356
Mkuranga	1,519	17,790	24,624	43,933
Rufiji	262	9,782	25,328	35,372
Mafia	87	2,702	5,928	8,717
<b>Total</b>	<b>3,988</b>	<b>56,617</b>	<b>113,918</b>	<b>174,523</b>
<b>Percentage</b>	<b>2</b>	<b>32</b>	<b>65</b>	<b>100</b>

**9.15 Number of Agricultural Households Reporting Number of days the household Consumed Meat during the Preceeding Week by District, 2007/08 Agricultural Year**

District	Not Eaten	One	Two	Three	Four	Five	Six	Seven	Total
Bagamoyo	17,504	13,737	8,974	2,770	775	997	111	0	44,868
Kibaha	7,491	6,589	2,572	1,264	271	45	0	45	18,277
Kisarawe	5,882	10,554	5,017	1,038	807	58	0	0	23,356
Mkuranga	21,045	16,055	5,424	976	434	0	0	0	43,933
Rufiji	15,633	13,013	4,716	1,048	524	175	175	87	35,372
Mafia	5,637	2,179	581	232	0	29	0	58	8,717
<b>Total</b>	<b>73,193</b>	<b>62,127</b>	<b>27,284</b>	<b>7,328</b>	<b>2,812</b>	<b>1,304</b>	<b>285</b>	<b>191</b>	<b>174,523</b>
<b>Percentage</b>	<b>42</b>	<b>36</b>	<b>16</b>	<b>4</b>	<b>2</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>100</b>

**9.16 Number of Agricultural Households Reporting Number of days the household Consumed Fish during the Preceeding Week by District, 2007/08 Agricultural Year**

District	Not Eaten	One	Two	Three	Four	Five	Six	Seven	Total
Bagamoyo	12,186	10,303	10,081	3,988	3,213	3,656	1,108	332	44,868
Kibaha	4,693	4,648	4,919	2,166	1,083	406	271	90	18,277
Kisarawe	2,941	9,169	4,844	3,345	2,249	461	288	58	23,356
Mkuranga	3,580	5,858	8,027	6,726	5,749	4,881	3,688	5,424	43,933
Rufiji	961	2,096	5,852	5,415	6,987	6,201	3,581	4,280	35,372
Mafia	145	145	349	494	872	1,017	1,511	4,184	8,717
<b>Total</b>	<b>24,506</b>	<b>32,220</b>	<b>34,072</b>	<b>22,134</b>	<b>20,153</b>	<b>16,623</b>	<b>10,447</b>	<b>14,368</b>	<b>174,523</b>
<b>Percentage</b>	<b>14</b>	<b>18</b>	<b>20</b>	<b>13</b>	<b>12</b>	<b>10</b>	<b>6</b>	<b>8</b>	<b>100</b>





**9.17 Number of Agricultural Households Reporting the status of food satisfaction of the household during the Preceeding Year by District, 2007/08 Agricultural Year**

District	Never	Seldom	Sometimes	Often	Always	Total
Bagamoyo	14,513	18,833	5,096	4,985	1,440	44,868
Kibaha	4,061	6,182	3,339	3,339	1,354	18,277
Kisarawe	7,612	8,708	2,537	2,595	1,903	23,356
Mkuranga	16,706	17,248	4,231	3,363	2,387	43,933
Rufiji	14,847	12,140	3,406	3,231	1,747	35,372
Mafia	3,719	3,225	465	901	407	8,717
<b>Total</b>	<b>61,459</b>	<b>66,337</b>	<b>19,075</b>	<b>18,415</b>	<b>9,237</b>	<b>174,523</b>
<b>Percentage</b>	<b>35</b>	<b>38</b>	<b>11</b>	<b>11</b>	<b>5</b>	<b>100</b>

**9.18 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
Bagamoyo	25,924	2,105	2,326	3,102	1,219	3,988	1,219	2,659	554	1,219	332	222	44,868
Kibaha	8,710	271	767	1,895	1,354	1,444	1,309	2,211	181	0	45	90	18,277
Kisarawe	14,994	173	58	865	807	2,595	577	1,961	519	0	115	692	23,356
Mkuranga	24,733	108	325	8,027	2,061	2,712	1,193	1,953	1,302	1,302	217	0	43,933
Rufiji	21,048	87	0	3,756	786	3,057	437	611	961	4,454	175	0	35,372
Mafia	2,906	174	494	1,598	58	1,133	174	407	174	1,424	58	116	8,717
<b>Total</b>	<b>98,314</b>	<b>2,919</b>	<b>3,971</b>	<b>19,243</b>	<b>6,285</b>	<b>14,929</b>	<b>4,908</b>	<b>9,802</b>	<b>3,690</b>	<b>8,398</b>	<b>943</b>	<b>1,120</b>	<b>174,523</b>
<b>Percentage</b>	<b>56</b>	<b>2</b>	<b>2</b>	<b>11</b>	<b>4</b>	<b>9</b>	<b>3</b>	<b>6</b>	<b>2</b>	<b>5</b>	<b>1</b>	<b>1</b>	<b>100</b>

**APPENDIX III QUESTIONNAIRES**

<b>United Republic of Tanzania</b>							
<b>ACQI</b>							
<b>CONFIDENTIAL</b>							
<b>Small holder/Small Scale Farmer questionnaire</b>							
Identification <span style="border: 1px solid black; display: inline-block; width: 20px; height: 20px;"></span> <span style="border: 1px solid black; display: inline-block; width: 20px; height: 20px;"></span> <span style="border: 1px solid black; display: inline-block; width: 20px; height: 20px;"></span> <span style="border: 1px solid black; display: inline-block; width: 20px; height: 20px;"></span> <span style="border: 1px solid black; display: inline-block; width: 20px; height: 20px;"></span> <span style="border: 1px solid black; display: inline-block; width: 20px; height: 20px;"></span> <span style="border: 1px solid black; display: inline-block; width: 20px; height: 20px;"></span>							
<b>Agricultural Sample Census 2007/2008</b>							
							
							
<b>Enumerator Name</b> ..... <b>Signature</b> .....							
<b>Date of Enumeration</b>							
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">d</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">d</div> <div style="margin: 0 5px;">/</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">m</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">m</div> <div style="margin: 0 5px;">/</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">y</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">y</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">y</div> <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">y</div> </div>	Start Time  End Time						
<table border="1" style="margin: auto;"> <thead> <tr> <th style="padding: 5px;">Hour</th> <th style="padding: 5px;">Minutes</th> </tr> </thead> <tbody> <tr> <td style="border: 1px solid black; width: 30px; height: 30px;"></td> <td style="border: 1px solid black; width: 30px; height: 30px;"></td> </tr> <tr> <td style="border: 1px solid black; width: 30px; height: 30px;"></td> <td style="border: 1px solid black; width: 30px; height: 30px;"></td> </tr> </tbody> </table>		Hour	Minutes				
Hour	Minutes						
<b>Field level checking by:</b>							
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							
<b>District checking in Office</b>							
District Supervisor	Name ..... Signature ..... Date ..... / ..... / .....						
All questionnaires must be checked at the district office.							
<b>For Use at Regional Level Only</b>							
Data entered by:	Name ..... Signature ..... Date ..... / ..... / .....						
Queried	Name ..... Signature ..... Date ..... / ..... / .....						
See the back page for details of queries							
Ministry of Agriculture and Food Security, Ministry of Livestock and Fisheries Development, Ministry of Agriculture and Environment of Zanzibar, Ministry of Water and Irrigation, Prime Ministers' Office Regional Administration and Local Government, Ministry of Industry Trade and Marketing, National Bureau of Statistics, and the Office of the Government Statistician General of Revolution Government of Zanzibar							

## 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		Identification	
1.1	Location		
<b>Na.</b>	<b>Location Name</b>	<b>Codes</b>	
1.1.1	Region .....		
1.1.2	District .....		
1.1.3	Ward .....		
1.1.4	Village .....		
1.2	Details of the respondent or household head		
<b>Na.</b>		<b>Codes</b>	
1.2.1	Name and number of local leader		
1.2.2	Name and number of household head .....		
1.2.3	<b>Sex of household head</b>		
1.2.4	Name of respondent .....		
1.2.5	<b>Relationship of Respondent to household head</b>		
<b>Relationship to household head codes (Q 1.2.5)</b> Head of Household .....1      Son /Daughter.....3      Grandson/Granddaughter.....5      No relationship.....7 Spouse.....2      Father/Mother.....4      Other relatives.....6			
2.0	<b>ACTIVITIES OF THE HOUSEHOLD</b>		
2.1	Type of Agriculture Household		
<b>Household agricultural activities codes(Q 2.1)</b> Crops only.....1      Livestock only .....2      Pastoralist.....3      Crops and Livestock .....4			



**Definition and working page for page 2**
**Question Specific Definitions:**
**Relation to head (Col 2):**

**Household Head:** A person who is acknowledged by all other members of the household either by virtue of their age or standing as the household head.

**Read and Write (Col 8)**
**Any other language: Must be a written language.**

For someone who can read and write in Kiswahili and any other language apart from English, the correct code is 1. For one who can read and write in English and any other language apart from Kiswahili the correct code is 2. Code 4 should only be used for any other language which is not English or Kiswahili.

**Education Level Reached (Col 10):**

Ask the respondent the highest educational level reached. This aims at establishing whether at the time of enumeration the member of the household is studying has completed or has never studied. Make further enquiry for the level of education reached for those who have completed studies. Establish if the member had attained any training after graduation for the purposes for completing column number 9. For those who still continue attending studies during the period of this survey, establish their learning stage. For instance for a household member who studied up to Standard Three but did not complete his/her education at this level, then his/her highest education level reached is Standard Two. For those indicated under code 3 (not studied) in column 8 should be marked code 99 (Not applicable) in column 9.

**Section 3.0 Note**

Make sure that you define the hh proper to ensure that all the members of the hh are included. Ensure that you stress that the hh is not just the hh heads direct family and that it includes other people living and eating together with the family.

If you notice that the hh is large or you see many people around the hh and you have been given a smaller number of the hh members, make further enquiries until you are sure that you have captured all the hh members.

**Section 3.0 Household information.**

- ii) For each household member complete columns 1, 2, 3 and 3  
After completing columns 1, 2, 3 and 3 for each household member, go back to the first household member and complete the remaining columns for that member.
- iii) Repeat step 2 for the rest of the household members.

3.0 HOUSEHOLD INFORMATION													
3.1 Give details of personal particulars of all hh members beginning with hh head								Identification					
Na.	Names of hh members (Start with hh Head)	Ex Start with hh Head	Sex M = 1 F = 2	Age (98 years or more enter 97, under one year old write 00)	Marit al 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						
						Not applicable for children under 5 years							
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
01	.....	1											
02	.....												
03	.....												
04	.....												
05	.....												
06	.....												
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27	.....												
28	.....												
29	.....												
30	.....												
31	.....												
32	.....												
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...8  
 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 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>			
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			<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>			
4.1.2	Area owned under customary law			<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>			
4.1.3	Area bought			<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>		4.1.9 Do you consider to have enough land for your household? (Yes=1, No=2) <input type="checkbox"/>	
4.1.4	Area rented from others			<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>			
4.1.5	Area borrowed from others			<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>			
4.1.6	Area share cropped from others			<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>		4.1.10 Is there any female who owns land or has customary rights to land ownership in this household? (Yes=1, No=2) <input type="checkbox"/>	
4.1.7	Area under other forms of tenure			<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>			
Total area			<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>				
4.2 LAND USE							
Area used by the household for various agricultural activities during 2007/08 agricultural season							
Enter area as reported by the respondent in acres				Area in acre		Working space for calculations	
4.2.1	Area planted temporary monocrops			<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>			
4.2.2	Area planted temporary mixed crops (e.g. maize and beans)			<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>			
4.2.3	Area planted permanent monocrops			<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>			
4.2.4	Area planted permanent mixed crops (e.g. banana, coffee, trees)			<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>			
4.2.5	Area planted permanent and temporary mixed crops (e.g. maize and banana)			<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>			
4.2.6	Area under pasture			<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>			
4.2.7	Area under fallow			<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>			
4.2.8	Area under natural forest			<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>			
4.2.9	Area planted trees			<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>			
4.2.10	Area rented to others			<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>			
4.2.11	Area unsuitable for agriculture			<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>			
4.2.12	Uncultivated arable land (minus area under fallow)			<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>			
Total area			<input type="text"/> <input type="text"/> <input type="text"/> . <input type="text"/> <input type="text"/>				

## Definitions and working page for page 4

Working table for the calculation area for annual mixed crops					
Mixed crops 1	Crop Name	Total area of mixed (acre)	Area for plants (acre)	Total number of plants	Total area of plants (acre)
(a)	(b)	(c)	(d)	(e)	(f)=(d)*(e)
Permanent crop 1			0.000		
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/ 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 Mellon  
05 nyanyachungu  
02 Oca  
03 Radish  
01 Green Beans  
04 Bizari

#### Crop Codes Legumes and Oil

Code Crop  
31 Beans  
32 Cowpeas  
33 Green Gram  
34 Chick Peas  
35 Dengu  
36 Bambara nuts  
37 Njegere  
41 Sun flower  
42 Simsim  
43 Ground uts  
47 Soya beans  
48 Caster Seed

#### Instructions for calculating the area of mixed crops in a mixture

- 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.
  - 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 instructions for page 8) in column 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 Column 3.
- Once the quantity harvested is obtained , calcluate 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..

---

*Pwani Region Agriculture Sample Census – 2007/08*

ANNUAL CROPS AND VEGETABLE PRODUCTION-LONG RAINY SEASON CONTINUED ...															
5.2		Provide the following details for each crop planted during the short rainy season for 2007/08 agricultural year										Identification			
Name of crop	Crop code	Use of fungicides (If 6 is the answer in col 20 proceed to col 24)				Use of pesticides (If 6 is the answer in col 24 proceed to col 28)				Harvesting and Storage			Marketing		
	Area used	Size		Cost	Area used	Size		Cost	Quantity harvested (kg)	Quantity stored (kg)	Main storage methods	Quantity sold (kg)	Where was the crop mostly sold?	Main problems in crop marketing	
		Quantity	Used			Quantity	Used								
(1)	(2)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)

**Use of farm inputs (Col 20&24)**

For the whole crop.....1

3/4 of the whole crop.....2

1/2 of the whole crop.....3

1/4 of the whole crop.....4

Under 1/4 of the whole crop...5

Not used .....6

**Quantity (Col 21&25)**

Kg .....1

Litre.....2

Gram.....3

Millilitre.....6

**Main Storage mechanisms (Col 30)**

Local storage facilities.....1

Improved Local storage facilities.....2

Modern store.....3

Open drums/sacks.....4

Cealed drums.....5

In heaps.....6

not Stored.....7

Other means (Specify).....8

**Where the crop was sold(Col 32)**

Neighbours.....01 Private Businessman.....08

Open markets.....02 Contract farming....09

Auctions.....03 Not sold.....10

Main Market.....04 Others.....98

Cooperative Union....05

Farmers Association..06

Large Scale farm.....07

**Marketing problems (Col 33)**

Very low prices.....01 No problem .....11

No transport.....02 Others (Specify ).....98

High transport costs.....03 Not applicable .....99

Lack of crop buyers .....04

Markets located far away ..05

Problems with farmers Associations ...7

Problems with cooperative Unions ....7

Problems with Businessmen Association ...8

Stringent Government Conditions ...9



## Definitions and working page for page 5

**Storage (Col. 30, Q 5.1.1):**

- **Traditionally Made structures:** The design of storage structures villagers have inherited from forefathers .
- **Improved Traditionally made structures:** The design of traditional storagesrutures improved through modern technology.

**Marketing Challenges Q 5.1.1 Col. 33:**

- **Farmers' Association:** Village farmers who came together and started an association for the puporses of purchasing inputs/selling/storage of crops aiming at fetching better prices.
- **Cooperative Union:** A large inter-village/community set up in the district/ region or at national level for providing inputs, markets and storage of farmers' crops.
- **Government Regulatory laws for crops marketing:** Government instituted laws for regulatina 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 usde in protecting plants or killing pests.
- Fungicides:** Protects plants from fungi attack.
- Herbicide:** Chemicals used to control or kills weeds.
- Improved seeds:** Scientifically attested to be suitable for agricultural use.

## Questions specific definitions

**Q 5.1.1. Instructions on crops storage:**

1. For the listed crops establish whether or not the household stored crops for 2007/2008 agricultural season.
2. For the listed crops give explanations on storage.

**Crops storage is keeping/reserving crops in a container or a special place for future use.**

**Q 5.1.1 Col 31**

1. For each of crops listed indicate major marketing problems for 2007/2008 agricultural season.

**Working area/calculation space**

## Definitions and working page for page 6

Working table for the calculation area for annual mixed crops					
Mixed crops 1	Crop Name	Total area of mixed (acre)	Area for plants (acre)	Total number of plants	Total area of plants (acre)
(a)	(b)	(c)	(d)	(e)	(f)=(d)*(e)
Permanent crop 1			0.000		0 . . . . .
Permanent crop 2			0.000		0 . . . . .
Permanent crop 3			0.000		0 . . . . .
Permanent crop 4			0.000		0 . . . . .
Total Area for mixed crops			Total area for permanent crops		0 . . . . .
The remaining area for temp crops				% of temporary	Area for permanent crop
Name of the crop temp/permanent 1					0 . . . . .
Name of the crop temp/permanent 2					0 . . . . .
Name of the crop temp/permanent 3					0 . . . . .
Check total area			Check total area for temporary crops		

Mazao mchanganyiko 2	Name of plant	Total area mix (acre)	Area for the plant (acre)	Total of plants	Total area for plants (acre)
(a)	(b)	(c)	(d)	(e)	(f)=(d)*(e)
Permanent crop 1			0.000		0 . . . . .
Permanent crop 2			0.000		0 . . . . .
Permanent crop 3			0.000		0 . . . . .
Permanent crop 4			0.000		0 . . . . .
Total area for mixed crops			Total area for permanent crops		0 . . . . .
The remaining area for temp crops				% of temporary	Area for permanent crop
Name of the crop temp/permanent 1					0 . . . . .
Name of the crop temp/permanent 2					0 . . . . .
Name of the crop temp/permanent 3					0 . . . . .
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	Burush Millet
15	Finger Millet
16	Wheat
17	Barley
22	Sweet Potatoes
23	Irish Potatoes
24	Yams
25	Cocoyams
26	Onions
27	Ginger

**Vegetable Codes:**

Code	Crop
86	Cabbage
87	Tomatoes
88	Spinach
89	Carrot
90	Chillies
91	Amaranth
92	Pumpkin
93	Cucumber
94	Egg plant
95	Water melon
96	Cauliflower
06	Mellon
05	nyanyachungu
02	Oca
03	Radish
01	Green Beans
04	Bizari

**Crop Codes Legumes and Oil**

Code	Crop
31	Beans
32	Cowpeas
33	Green Gram
34	Chick Peas
35	Dengu
36	Bambara nuts
37	Njegere
41	Sun flower
42	Simsim
43	Ground uts
47	Soya beans
48	Caster Seed

**Instructions for calculating the area of mixed crops in a mixture**

**A.** If the mixed crop is mixed annual ly only enter the total area of the field in the remaining area under temporary Crop and go to step one of these instructions

**B.** If the mixed crop is mixed permanent and annual try to work tyhe percent age taken by the different crops and calculatet 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 tyhe permanent crop in collumn b and enter the ground area per acre for each permanent crop ( from instructions for page 8) in collumn d.
- Enter the number of permanent trees in the mix in collumn e as will be provided to you by the respondent
- Calculate the area occpyed by each crop by multiplying collumn d and collumn e and sum up these to obatin the total area of permanent crops in the mix.
- 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.

**1.** Enter the name of each temporary crop in tyhe crop mix and estimate percentages of each crop.

**2. Using the percentage for each crop, calculate the are for each crop from the remaining area under temporary crop.**

**3.** After completing the excrise for all the fields, sum the area of each crop in tyhe mix plus any monocrops and uenter the totals in section 5.1.1 Collumn 3.

**4. Once the quantity harvested is obtained , 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..**

## 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
-------	--

[illegible]

**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 storages structures improved through modern technology.

**Marketing Challenges Q 5.2.1 Col. 33:**

- **Farmers' Association:** Village farmers who came together and started an association for the purposes of purchasing inputs/selling/storage of crops aiming at fetching better prices.
- **Cooperative Union:** A large inter-village/community set up in the district/ region or at national level for providing inputs, markets and storage of farmers' crops.
- **Government Regulatory laws for crops marketing:** Government instituted laws for regulating transportation and selling of crops.

**Inputs (Q 5.2.1)**

- Farm Yard Manure:** An organics fertiliser made on farm from animal dung. .
- Compost:** An organic fertiliser made on farm from decomposed plant materials.
- Insecticides:** This is the chemical used in protecting plants or killing pests.
- Fungicides:** Protects plants from fungi attack.
- Herbicide:** Chemicals used to control or kills weeds.
- Improved seeds:** Scientifically attested to be suitable for agricultural use.

## Questions specific definitions

**Q 5.2.1. Instructions on crops storage:**

1. For the listed crops establish whether or not the household stored crops for 2007/2008 agricultural season.
2. For the listed crops give explanations on storage.

**Crops storage is keeping/reserving crops in a container or a special place for future use.**

**Q 5.2.1 Col 33**

1. For each of crops listed indicate major marketing problems for 2007/2008 agricultural season.

**Working area/calculation space**

Definitions and working page for page 8																																																																																																																																																						
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>Permanent Crops:</b> These are crops once planted last longer in the farm and need not be replanted after each annual harvest. Most of the permanent plants include tress such as coconut tress, apple trees, grape trees, banana trees, pineapple trees etc.</p> <p><b>Number of Trees:</b> These include manure trees and premature trees.</p> <p><b>Number of mature plants:</b> A total of fruit bearing tress (e.g. mango trees, orange trees, avocado trees e.t.c).</p> <p><b>Instructions for permanent monocrops and crop mix:</b>  <b>A.</b> For a field with permanent monocrop enter farm size in column. 3.  <b>B.</b> For a field with a permanent crop mix or a temporary crop mix, enter the number of trees only in column 4.  <b>C.</b> For a field with a permanent crop mix /temporary annual crops , either:            -Enter the area in column 4, if the total arae for permanent crops was obatined through calcuation of percentages of each crop            OR            Enter the number of tree in column 5, if the number of plants/ seedlings of permanent crops was evcluded</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p><b>21 Cassava:</b> Cassava is a temporary crop, in order to simplify data collection on areas of production, data on cassava will be collected from areas under permanent crops.</p> </div> </div> <div style="width: 50%;"> <div style="border: 1px solid black; 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## Definitions and working page for page 9

**Storage (Col. 33, Q 5.3.1):**

- **Traditionally Made structures:** The design of storage structures villagers have inherited from forefathers .
- **Improved Traditionally made structures:** The design of traditional 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 obatining water. .

2. **See Col 10**, Q. 5.1.1 and 5.2.1 and **Col 12**, Q 5.3.1 to see if irrigation was applied to any crop.

#### Farm implements, Q 6.1:

1. Collumn 2 Indicate whether or not inputs were used

2. Complete collumn 3 by entering the number of inputs used.

#### Farm inputs: Sections 6.3 and 6.4

1. Column 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"/>						
Uncastrated bulls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
Cows	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
Donkeys	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
Shredding Machine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
Power Tiller	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
Oxen pulled plough for making terraces	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						

<b>ACCES TO INPUTS</b>			
Give details on inputs used during 2007/08 agricultural year			
Name of inputs	Used (Yes=1, No=2)	Source	Distance
(1)	(2)	(3)	(4)
Inorganic fertilisers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Farm yard manure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Compost	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insecticides/Fungicide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pest and weeds control chemicals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Improved seeds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<b>Source (Col.3)</b> Government.....01 Cooperative Union.....02 Farm inputs store/market.....03 Auction.....04 Development project.....05 Corp buyers.....06 Large Scake farms.....07 Made by the household.....08 Form neighbour.....09 Cooperative Union.....10 Others .....98 Not applicable.....99			
---	--	--	--

<b>KQuantity (Col 3)</b> Kg.....1 Ton.....2	
---	--

<b>Distance from the source (Cola 4)</b> Under 1 kilometre .....1 Between One and three kilometres .....2 Between three and 10 kilometres.....3 Between 10 and 20 Kilometres .....4 Over 20 Kilometres.....5 Not applicable.....9	
---	--

<b>Source of irrigation water (Col 1)</b> River.....1 Wells .....4 Lake .....2 Deep wells.....5 Dams.....3 Cannals .....6 Tape water.....7	
--	--

<b>Means of obtaining water(C0/2)</b> Flwoing. (gravity).....1 Using a bucket.....2 Water pump (using hand or leg).....3 Electric /fuel driven pump/ mafuta.....4 Other (Specify).....8	
--	--

<b>IRRIGATED FARMING</b>				
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"/>

## 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.

<b>6.6 SOIL EROSION</b>										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"/> <input type="checkbox"/> <input type="checkbox"/>																																																	
6.6.1 Did the household experience soil erosion during 2007/08 agriculture year?										<input type="checkbox"/>																																																	
(Yes=1, No=2)																																																											
6.6.2 Did the household applied any methods for erosion contro/water harvesting during 2007/08 agricultural year?										<input type="checkbox"/>																																																	
(Yes=1, No =2) (If the answer is No, Proceed to Section 7.0)																																																											
<table border="1"> <thead> <tr> <th>Na.</th> <th>Mechanisms of controlling erosion/ Water harvesting (1)</th> <th>Number of water harvesting (2)</th> <th>Year of construction (3)</th> </tr> </thead> <tbody> <tr> <td>6.6.3</td> <td>Terraces</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>6.6.4</td> <td>Bunks for erosion control</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>6.6.5</td> <td>Gabions/sand bags</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>6.6.6</td> <td>Vetiva leaves</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>										Na.	Mechanisms of controlling erosion/ Water harvesting (1)	Number of water harvesting (2)	Year of construction (3)	6.6.3	Terraces	<input type="checkbox"/>	<input type="checkbox"/>	6.6.4	Bunks for erosion control	<input type="checkbox"/>	<input type="checkbox"/>	6.6.5	Gabions/sand bags	<input type="checkbox"/>	<input type="checkbox"/>	6.6.6	Vetiva leaves	<input type="checkbox"/>	<input type="checkbox"/>	<table border="1"> <thead> <tr> <th></th> <th>Type of erosion control/water harvesting (1)</th> <th>Number of water harvesting (2)</th> <th>Year of construction (3)</th> </tr> </thead> <tbody> <tr> <td>6.6.7</td> <td>Tree belt</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>6.6.8</td> <td>Soil bunks of water harvesting</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>6.6.9</td> <td>Trenches</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>6.6.10</td> <td>Other</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>											Type of erosion control/water harvesting (1)	Number of water harvesting (2)	Year of construction (3)	6.6.7	Tree belt	<input type="checkbox"/>	<input type="checkbox"/>	6.6.8	Soil bunks of water harvesting	<input type="checkbox"/>	<input type="checkbox"/>	6.6.9	Trenches	<input type="checkbox"/>	<input type="checkbox"/>	6.6.10	Other	<input type="checkbox"/>	<input type="checkbox"/>
Na.	Mechanisms of controlling erosion/ Water harvesting (1)	Number of water harvesting (2)	Year of construction (3)																																																								
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6.6.9	Trenches	<input type="checkbox"/>	<input type="checkbox"/>																																																								
6.6.10	Other	<input type="checkbox"/>	<input type="checkbox"/>																																																								
<b>7.0 ACCESS TO ON FARM CREDITS</b>																																																											
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) Relative.....1 Saccos.....4 NGO/Development projects.....7 Bank.....2 Businessman/Shop.....5 Cooperative Union.....3 Private individuals.....6 Other.....9										Source of credit 7.1.1a <input type="checkbox"/> 7.1.2a <input type="checkbox"/> 7.1.3a <input type="checkbox"/> Credit provided to 7.1.1b <input type="checkbox"/> 7.1.2b <input type="checkbox"/> 7.1.3b <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																																																											
<b>8.0 ADVISORY SERVICES IN AGRICULTURE</b>																																																											
8.1 Did the household participate in outgrowers scheme during 2007/08 agriculture year? (Yes=1, No=2)																																																											
<input type="checkbox"/>																																																											
8.2 Did the household participate in the contract farming during 2007/08 agriculture year? (Yes=1, No=2)																																																											
<input type="checkbox"/>																																																											
8.3 Did your household receive agricultural advise on the following : (IF THE ANSWER IS NO IN COL 2 PROCEED TO THE FOLLOWING QUESTION)																																																											
Na. Advise on agriculture (1)										Received advice (Yes=1, No=2) (2)					Source of advise (3)																																												
8.3.1 Spacing										<input type="checkbox"/>					<input type="checkbox"/>																																												
8.3.2 Use of agrochemicals										<input type="checkbox"/>					<input type="checkbox"/>																																												
8.3.3 Soil erosion control										<input type="checkbox"/>					<input type="checkbox"/>																																												
8.3.4 Use of organic manure										<input type="checkbox"/>					<input type="checkbox"/>																																												
8.3.5 Matumizi ya mbolea za viwandani										<input type="checkbox"/>					<input type="checkbox"/>																																												
8.3.6 Use of improved seeds										<input type="checkbox"/>					<input type="checkbox"/>																																												
8.3.7 Use of modern farm implements										<input type="checkbox"/>					<input type="checkbox"/>																																												
8.3.8 Irrigation										<input type="checkbox"/>					<input type="checkbox"/>																																												
8.3.9 Crop Storage										<input type="checkbox"/>					<input type="checkbox"/>																																												
8.3.10 Pest control										<input type="checkbox"/>					<input type="checkbox"/>																																												
8.3.11 Other (Specify)										<input type="checkbox"/>					<input type="checkbox"/>																																												
Source of agricultural advice (Cokl. 3) Government.....1 NGO/Development project.....2 Cooperative.....3 Large Scale farmer.....4 Radio/Newspapers.....5 Neighbour.....6 Other source.....8																																																											

### Definitions and working page for page 12

**Q 9.1 and 9.3 :** What is required is to establish whether or not the household kept or raised the listed livestock during 2007/08 agricultural season (i.e. from October 2007 to September 2008). Also to establish the number of livestock as of 1st October 2008

**Keeping or raising livestock** is to to keep livestock at home while providing the livestock with animal feeds and medication and other services. The livestock could be owned by the farmer or kept on behalf of relatives or neighbours .

### Sections 9.1.1 to 9.1.7 Cattle

**Note:**

**Q 9.1** is for the actual number of cattle owned or kept by the household (as of 1st October 2008). This number does not include herds of cattle kept on behalf by relatives or neighbours; that is, the cattle outside the residential area of the household under survey.

1. If the the household keep mature fecund female cattle, it is expected that such a household will have calves which will be entered in question 9.1.6 or 9.1.7

### Type of cattle (section 9.1.1 to 9.1.7)

**Bull:** Mature uncastrated male cattle used for breeding

**Cow:** Mature female cattle that has given birth at least once

**Ox:** Castrated male cattle used for farm work

**Steer:** Castrated male cattle used for meat

**Heifer:** Female cattle of 1 year up to the first calving

### Section 9.3 Goat

**Note:**

**Question 9.3** is for the actual number of owned or raised by the household (as of 1st October 2008) This number does not include goats kept on behalf by relatives or neighbours, that is the goat outside the residential area of the household under survey.

1. If the household has she goats, you would normally expect them to have kids

### Type of Goat (Qs 9.3.1 to 9.3.5)

**Billy Goat (he-goat):** Mature Uncastrated male goat used for breeding

**Castrated goat:** Male goat that has been castrated

**She Goat:** Mature female goat over 9 months of age

<b>9.0 LIVESTOCK (LIVESTOCK AND FISH)</b>						
Identification <input type="text"/>						
<b>9.1 CATTLE</b>						
Did your household keep or raise cattle during 2007/08 agriculture year? Yes=1, No= 2 (If the answer is No proceed to <input type="text"/> )						
Section 9.3)						
Number of cattle as of 1.10.2008						
No.	Type of cattle	Number of indigenous cattle (2)	Number of improved cattle (3)		Total (5)	
			for meat	Dairy		
9.1.1	Castrated bulls	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
9.1.2	uncastrated bulls	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
9.1.3	Cows	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
9.1.4	Steers	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
9.1.5	Heifer	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
9.1.6	Male calves	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
9.1.7	Female calves	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
					Grand total	<input type="text"/>
9.1.8 What main methods do you use to identify your cattle? <input type="text"/>						
<b>Cattle identificatio methods</b> Iron stamp (chapa moto).....1 Throat.....2 Ear/tail cutting.....3 Colour.....4 Earrings...5 Other .....8						
<b>9.2 Milk production: CATTLE</b>						
Na.	Season (1)	Type of cattle (2)	Number of milked cows (3)	Average of milk per cow per day (litre) (4)	Average number of days which your cows were milked (5)	Average price per litre per season (6)
9.2.1	Rainy	Improved	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
9.2.2		Indigenous	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
9.2.3	Dry	Improved	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
9.2.4		Indigenous	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>9.3 GOAT</b>						
Did your household keep or raise cattle during 2007/08 agriculture year? Yes=1, No= 2 (If the answer is No proceed to Section 9.3) <input type="text"/>						
Number of goats as of 1.10.2008						
Na.	Type of goat (1)	Number of indigenous goat (2)	Number of improved (3)		Total (5)	
			for meat	Dairy		
9.3.1	Male uncastrated goat	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
9.3.2	Male castrated goat	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
9.3.3	She goat	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
9.3.4	Male kid	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
9.3.5	She kid	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
					Grand total	<input type="text"/>
<b>Milk Production: GOAT</b>						
Na.	Season (1)	Number of ilked goats (2)	Average of milk per goat per day (litre) (3)	Average number of days which your she goats were milked (4)	Average price per litre per season (5)	
9.3.6	Rainy	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
9.3.7	Dry	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

### Definitions and working page for page 13

**Q 9.1 and 9.3 :** What is required is to establish whether or not the household kept or raised the listed livestock during 2007/08 agricultural season (i.e. from October 2007 to September 2008). Also to establish the number of livestock as of 1st October 2008

**Keeping or raising livestock** is to keep livestock at home while providing the livestock with animal feeds and medication and other services. The livestock could be owned by the farmer or kept on behalf of relatives or neighbours .

### Sections 9.4 Sheep

**Note:**

**Q 9.4 is for the actual number of sheep owned or kept by the household (as of 1st October 2008). This number does not include sheep kept on behalf by relatives or neighbours; that is, the sheep outside the residential area of the household under survey.**

1. If the the household keep ewes, it is expected that such a household will have calves which will be entered in question 9.1.6 or 9.1.7

### Type of Sheepe (Section 9.4.1 to 9.4.5)

**Ram:** Mature Uncastrated male sheept used for breeding

**Castrated sheep:** Male sheep that has been castrated

**Ewe:** Mature female sheep over 9 months of age

**Lamb:** Young sheep under 9 months of age.

### Section 9.5 Pigs

**Note:**

**Question 9.3 is for the actual number of pigs owned or raised by the household (as of 1st October 2008). This number does not include pigs kept on behalf by relatives or neighbours, that is the cattle outside the residential area of the household under survey. .**

1. If the household has she goats, you would normally expect them to have kids in column

### Type of Pigs (Qs 9.5.1 to 9.5.5)

**Boar:** Mature Uncastrated male pig used for breeding

**Sow:** Mature female pig that has given birth to at least one litter of pigs.

**Gilt;** Female pig of over 3 months up to the first farrowing

**Piglet:** Young pig less than 3 months of age

Identification <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>				
<b>9.4</b>	<b>SHEEP</b>			
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) <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>				
<b>Number of sheep as of 1.10.2008</b>				
Na.	<b>Type of sheep</b>	<b>Number of indigenous sheep</b>	<b>Number of improved</b>	<b>Total</b>
	(1)	(2)	(3)	(5)
9.4.1	Ram	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>
9.4.2	Castrated sheep	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>
9.4.3	She sheep	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>
9.4.4	Male lamb	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>
9.4.5	Female lamb	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>
<b>Grand total</b>				<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>
<b>9.5</b>	<b>PIGS</b>			
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) <span style="border: 1px solid black; padding: 2px 5px;">  </span>				
<b>Number of pigsp as of 1.10.2008</b>				
Na.	<b>Type Pigs</b>	<b>Number of pigs</b>		
	(1)	(2)		
9.5.1	Boar	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>		
9.5.2	Castrated male	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>		
9.5.3	Sow/Gilt	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>		
9.5.4	Male piglet	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>		
9.5.5	Female piglet	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>		
<b>Grand total</b>				<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>
<b>9.6</b>	<b>OTHER LIVESTOCK</b>			
	<b>Type of animal</b>	<b>Number as of 1 October 2008</b>	<b>Number of eggs</b>	
	(1)	(2)	(3)	
9.6.1	Local chicken	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>	
9.6.2	Layers	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>	
9.6.3	Broilers	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>		
9.6.4	Ducks	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>	
9.6.5	Guinea pigs	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>		
	<b>Type of animal</b>	<b>Number as of 1 October 2008</b>	<b>Number of Eggs</b>	
	1	(2)	(3)	
9.6.6	Turkeys	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>	
9.6.7	Rabbit	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>		
9.6.8	Donkeys	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>		
9.6.9	Horses	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>		
9.6.10	Dogs	<span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span> <span style="border: 1px solid black; padding: 2px 5px;">  </span>		

**Definitions and working page for page 14****Control of livestock diseases causing bugs**

**Livestock worm control medicine:** Medicine used to kill or control livestock on livestock. It is often used for cattle, goats, sheep and pigs.

**Tiick:** Is a dangerous bug that sucks blood from livestock and transmits animals diseases from one to the other animal.

**Tse tse fly:** A fly like bug that sucks blood from livestock and transmits diseases spreading sickness from one to the other animal.

**Livestock advice (Section 9.8)**

IA service provided by extension officers to livestock keepers for increasing livestock production.



9.7 LIVESTOCK DISEASES AND PEST CONTROL			Identificatio
Did you livestock during 2007/08 agriculture year? (Yes=1, No=2) (If the answer is No proceed to Section 9.7.5)		<input type="checkbox"/>	<input type="checkbox"/>
Which animals did your deworm? ( Yes=1, No =2, Not applicable=3 in the relevant box)			<input type="checkbox"/>
9.7.1 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"/>
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"/>	<b>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</b>
9.7.7 Do you experience Tse tse problem with your livestock? (Yes =1, No = 2, Not applicable 3)		<input type="checkbox"/>	
9.7.8 How did you control Tse tse problem with your livestock? <u>Control method (Q. 9.7.8):</u> Dipping.....1 Spaying.....2 Traps.....3 None..4 Other.....8		<input type="checkbox"/>	
9.7.9 Do you experience Newcastle disease problem with your poultry? (Yes =1, No = 2, Not applicable 3)		<input type="checkbox"/>	
9.7.10 How do you control Newcastle disease problem with your poultry? <u>Control/curative methods (Q. 9.7.10):</u> Vaccination..1 Herbs.....2 None..3		<input type="checkbox"/>	
9.7.11 Did you experience Fowl Typhoid with your poultry? Yes=1, No=2, Not applicable=3		<input type="checkbox"/>	
9.7.12 How did you control/ cure Fowl Typhoid with your poultry? <u>Control/curative methods (Swali 9.7.12):</u> Vaccination..1 Herbs.....2 None..3		<input type="checkbox"/>	
9.7.13 Were your cattle vaccinated against the following diseases? (Yes = 1, No = 2, Not applicable=3). <b>9.7.13 A:</b> Foot and Mouth diseases <input type="checkbox"/> <b>9.7.13 B:</b> Skin disease <input type="checkbox"/>			
<b>9.8 Extension services on livestock</b> Did you receive the following extension advice on the following? (IF THE ANSWER IS NO IN COL 2 PROCEED TO THE FOLLOWING QUESTION)			
Na.	Livestock extension advice	Received Extension advice (Yes=1, No=2)	Source of Extension
	(1)	(2)	(3)
9.8.1	Feed and better feeding methods	<input type="checkbox"/>	<input type="checkbox"/>
9.8.2	Improved livestock shed (Goat, Dairy cattle, Poultry and pigs)	<input type="checkbox"/>	<input type="checkbox"/>
9.8.3	Milking and hygiene	<input type="checkbox"/>	<input type="checkbox"/>
9.8.4	Cattle fattening	<input type="checkbox"/>	<input type="checkbox"/>
9.8.5	Livestock diseases control	<input type="checkbox"/>	<input type="checkbox"/>
9.8.6	Livestock keeping in line with land availability	<input type="checkbox"/>	<input type="checkbox"/>
9.8.7	Pasture establishment and maintenance	<input type="checkbox"/>	<input type="checkbox"/>
9.8.8	Forming and strengthening groups/cooperatives	<input type="checkbox"/>	<input type="checkbox"/>
9.8.9	Calf rearing	<input type="checkbox"/>	<input type="checkbox"/>
9.8.10	Basics of production and use of improved bulls (AI)	<input type="checkbox"/>	<input type="checkbox"/>
9.8.11	Animals feed production	<input type="checkbox"/>	<input type="checkbox"/>
9.8.12	Other extension advice (Specify) .....	<input type="checkbox"/>	<input type="checkbox"/>
<u>Source of agriculture extension (Swali 3)</u> Government.....1 NGO/Development project.....2 Cooperative Union.....3 Large Scale farmer.....4 Radio/TV/Newspaper.....5 Neighbour.....6 Other source .....8			

## Definitions and working page for page 15

## General definitions

**Fish farming:** Refers to the rearing/production of fish. It is different from fishing in that in fish farming the fish have to be reared. While in fishing, fishing nets or traps are used to catch fish from rivers, lakes and the sea; thus fishing should not be included in this section

I

## Question Specific Definitions (Q 9.9 )

Production unit number (Col 1): A production unit is a pond river/lake which is treated as a separate entity for the production of fish eg it may be by virtue of manageable size, maturity of fish, 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 <span style="border: 1px solid black; padding: 2px;">  </span> <span style="border: 1px solid black; padding: 2px;">  </span> <span style="border: 1px solid black; padding: 2px;">  </span> <span style="border: 1px solid black; padding: 2px;">  </span> <span style="border: 1px solid black; padding: 2px;">  </span> <span style="border: 1px solid black; padding: 2px;">  </span> <span style="border: 1px solid black; padding: 2px;">  </span> <span style="border: 1px solid black; padding: 2px;">  </span>					
Did your household practice fish farming? Yes=1, No=2 (If the answer is no proceed to section 9.10)														<input type="checkbox"/>					
Give details on the fish farming during 2007/08 agriculture year																			
No.	Number of Ponds	Aina ya ufugaji	Square area of pond (m <sup>2</sup> )	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		waliovuliwa (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  
 Other .....8

**Standard of services to the pond (Col 6)**  
 High leve .....1  
 Intermediate level.....2  
 Low leve.....3  
 Don't know.....8

**Source of fingerings (Col 4)**  
 From the pond.....1 Neighbour.....4  
 Government.....2 Business man.....5  
 NGO/Development Project...3 Natural Pond.....6  
 Other .....8

**mainly sold to? (Col 14)**  
 Neighbour...1 Auction.....3 Large Scale farmers.....5  
 Open market....2 Fish processing industry..4 Private business people ....6  
 Did not sell.....7 Other .....8

9.10 HONEY PRODUCTION								
Is there honey production/harvesting in your household? Yes=1, No=2 (If answer is no PROCEED to Section 9.11)								
Give details on honery harvesting during 2007/08 agriculture year								
Number	Type of honey	Harvesting done ? (Yes=1, No=2)	Number of improved bee hives	Number of local bee hives	Amount sold per year (Litre)	Amount of honey sold (litre)	Price per litre	Main market
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
9.10.1	Small bees							
9.10.2	Large bees							

**Honey outlet Co 8**  
 Neighbour...1 Auction.....3  
 Large Scale farmers.....5  
 Open market....2 Fish processing industry..4  
 Private business people ....6  
 Did not sell.....7

9.11 AGRICULTURAL CHALLENGES		
From the list of cahhalengs in farming on the right of the page, SELECT FIVE MAIN CHALLENGES WHICH constrain your development in agriculture		
No	With first five priorities	Code
	(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  
14 Lack of off farm incomes  
15 Harvesting problems  
16 Kupukuchua  
17 Crop storage  
18 Crop processing  
19 Market information  
20 High transporation costs  
21 Destructive animals  
22 Crop theft  
23 Pests and diseases  
24 Advice from Local government  
25 Long dry spells  
26 Conflicts between livetsock keepera and pastoralists

**Definitions and working page for page 16****10.0 Household poverty indicators****Number of rooms used for sleeping in the household (Q 10.1.4)**

Include sitting room, dining room, kitchen, etc if used for sleeping.

It also includes rooms outside the main dwelling

A room is defined as a space which is separate from the rest of the building by a permanent wall or division. A building / house that is not divided into rooms is considered to have one room.

**Household assets (Q 10.2):**

These assets must be functional. Do not include if broken.

**Access to drinking water (Q 10.4):**

If there is more than one source use the one, which the hh uses most frequently.

**Main source of hh cash income:(Q 10.7:**

Activity that provides the hh with the most cash during 2007/08 agricultural season.




*Pwani Region Agriculture Sample Census – 2007/08*

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*Pwani Region Agriculture Sample Census – 2007/08*

## Appendix V

## Community Level Questionnaire

<b>ACQ 3</b>	<b>United Republic of Tanzania</b>		<b>CONFIDENTIAL</b>						
									
 <b>Village/Community Level Formats</b> Access to and Use of Community Resources Farm Gate Prices of commodities produced by the village									
 <b>Agricultural Sample Census 2007/2008</b>			<b>NUMBER OF FARMERS HH IN THE VILLAGE</b> <i>To be filled by the enumerator after completing form ACLF2</i> <table border="1" style="width: 100%; height: 20px;"> <tr><td></td></tr> </table> <b>NUMBER OF HH MEMBERS</b> <i>To be filled by the enumerator after completing form ACLF2</i> <table border="1" style="width: 100%; height: 20px;"> <tr><td></td></tr> </table>						
Region	<input type="text"/>	Ward	<input type="text"/>						
District	<input type="text"/>	Village	<input type="text"/>						
<b>Enumerator Name</b> _____ <b>Signature</b> _____ <b>Date of Enumeration</b> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> / <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>              d d m m y y y y           </div> <div style="text-align: center;">             Start Time              End Time           </div> <div style="border: 1px solid black; padding: 5px;"> <table style="width: 100%;"> <tr> <th style="width: 50%;">Hour</th> <th style="width: 50%;">Minutes</th> </tr> <tr> <td><input type="text"/> <input type="text"/></td> <td><input type="text"/> <input type="text"/></td> </tr> <tr> <td><input type="text"/> <input type="text"/></td> <td><input type="text"/> <input type="text"/></td> </tr> </table> </div> </div>				Hour	Minutes	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>
Hour	Minutes								
<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>								
<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>								
<b>Field level checking by:</b> District Supervisor      Name _____ Signature _____ Date ____/____/____ Regional Supervisor      Name _____ Signature _____ Date ____/____/____ National Supervisor      Name _____ Signature _____ Date ____/____/____			<i>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</i>  <i>All questionnaires must be checked at the district office.</i>						
<b>District checking in Office</b> District Supervisor      Name _____ Signature _____ Date ____/____/____									
<b>For Use at Regional Level Only</b> Data entered by:      Name _____ Signature _____ Date ____/____/____ Queried      Name _____ Signature _____ Date ____/____/____			<i>See the back page for details of queries</i>						
Ministry of Agriculture and Food Security, Ministry of Livestock and Fisheries Development, Ministry of Agriculture and Environment of Zanzibar, Ministry of Water and Irrigation, Prime Ministers' Office Regional Administration and Local Government, Ministry of Industry Trade and Marketing, National Bureau of Statistics, and the Office of the Government Statistician General of Revolution Government of Zanzibar									

## 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)									
Area of Community, Village, Ward resources					Area in acre				
1.1.1 Total area of communal land					Official figures from the leader				
1.1.2 Area of squatting farmers in communal land					Key informant (Leader/Extension officer etc.)				
1.1.3 Remaining available communal land					Key informant (Leader/Extension officer etc.)				
1.1.4 Government reserve land					Key informant (Leader/Extension officer etc.)				
1.2 UPATIKANAJI NA MATUMIZI YA MALIASILI ZA JUMUIYA/KULIJISHEHIA									
Community Resources		Distance from the resource in Km -season		Main Use		<p>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</p> <p>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</p>			
		Dry		Rainy					
(1)		(2)		(3)					
(4)		(5)		(6)					
1.2.1 Water for human consumption									
1.2.2 Water for livestock									
1.2.3 Communal grazing land									
1.2.4 Communal firewood									
1.2.5 Wood for charcoal burning									
1.2.6 Wood for building poles									
1.2.7 Forest for bee keeping (honey)									
1.2.8 Hunting									
1.2.9 Fishing									
2.0 COMMUNITY PLANTED TREES									
2.1 Did your village have community planted trees during 2007/08 agriculture year? (Yes=1, No=2) <input type="checkbox"/>									
(If the answer is no proceed to Section 3.0)									
Details of the community tree planting scheme									
No.	Distance from the community forest	Forest Area (acre)	Type of Planting	Type of Trees	Source of seeds/ Seedlings	Number of Years since the start of planting	Main uses 2007/08 agriculture year	Main uses of communal forest products	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		
2.2									
Type of planting (Col. 3) Pole/seedling 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 uses of revenue (Col. 8) Village development fund.....1 Household use.....2 Household income.....3			
Type of trees (Col. 4) Indigenous trees.....1 Exotic tree.....2 Both types.....3									
3.0 Non governmental Organisation (NGOs) Contact									
3.1 Did any NGO visit the village during 2007/08 agriculture year? (Yes=1, No=2) (If no proceed to Section 4) <input type="checkbox"/>									
Na.	Type of NGO	Visited Yes=1, No=2	Number of visits	Distance to the Office (km)					
3.2	Extension/ Research								
3.3	Service /input provision								
3.4	Community Development								
3.5	Other								
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	Nd=1, Hap=2							
4.2	Extension/ Research								
4.3	Service /input provision								
4.4	Community Development								
4.5	Other								
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 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.

<u>Type of livestock(Col 2)</u>	
Cattle.....01	Ducks.....07
Goat.....02	Turkey.....08
Sheep.....03	Rabbit.....09
Pigs.....04	Kanga.....10
Poultry.....05	Simbilisi.....11
Donkeys.....06	

Cereals.....01	Flowers eg. Pyrethrum.....07
Green maize.....02	Vegetables.....08
Green leaves and stem.....03	Fruit.....09
Straw, dry stems etc.....04	Other.....10
Roots and tubers, etc.....05	
Leaves (Tobacco etc).....06	

Live animals.....01  
Meat .....02  
Milk.....03  
Eggs.....04

Kg.....1  
Number.....2  
Litre.....3  
portion/piece 1.4


## Appendix V

## Village Community Level formats

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**ACLF 1**



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**Agriculture Sample Census 2007/08**

**Sub-village /ward leader listing from**

Region \_\_\_\_\_ Code   Ward \_\_\_\_\_ Code


District \_\_\_\_\_ Code   Village \_\_\_\_\_ Code

Sub village leader Number	Name of Ward village leader	Number of Households		Comments
		Form Office Register	After enumeration	
(1)	(2)	(3)	(4)	(5)
<input type="text"/> <input type="text"/> <input type="text"/>		<input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/>	
<input type="text"/> <input type="text"/> <input type="text"/>		<input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/>	
<input type="text"/> <input type="text"/> <input type="text"/>		<input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/>	
<input type="text"/> <input type="text"/> <input type="text"/>		<input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/>	

UNITED REPUBLIC OF TANZANIA



**CONFIDENTIAL**

**ACLF 2**



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**Agriculture Sample Census 2007/08**

**Household listing from-for listing hh heads and agriculture activities**

Region \_\_\_\_\_ Code   Name of sub village leader \_\_\_\_\_

District \_\_\_\_\_ Code   Name of sub village \_\_\_\_\_

Ward \_\_\_\_\_ Code

Village \_\_\_\_\_ Code

Household number	Household head name	Fields a	Number of								Kuku/Bata/ Rabbit	If the Respondent Qualifies X	Farmer Serial Number
			Cattle				Goats	Sheep	Pigs				
			Total	Bulls	Cows	Calves							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
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*Pwani Region Agriculture Sample Census – 2007/08*