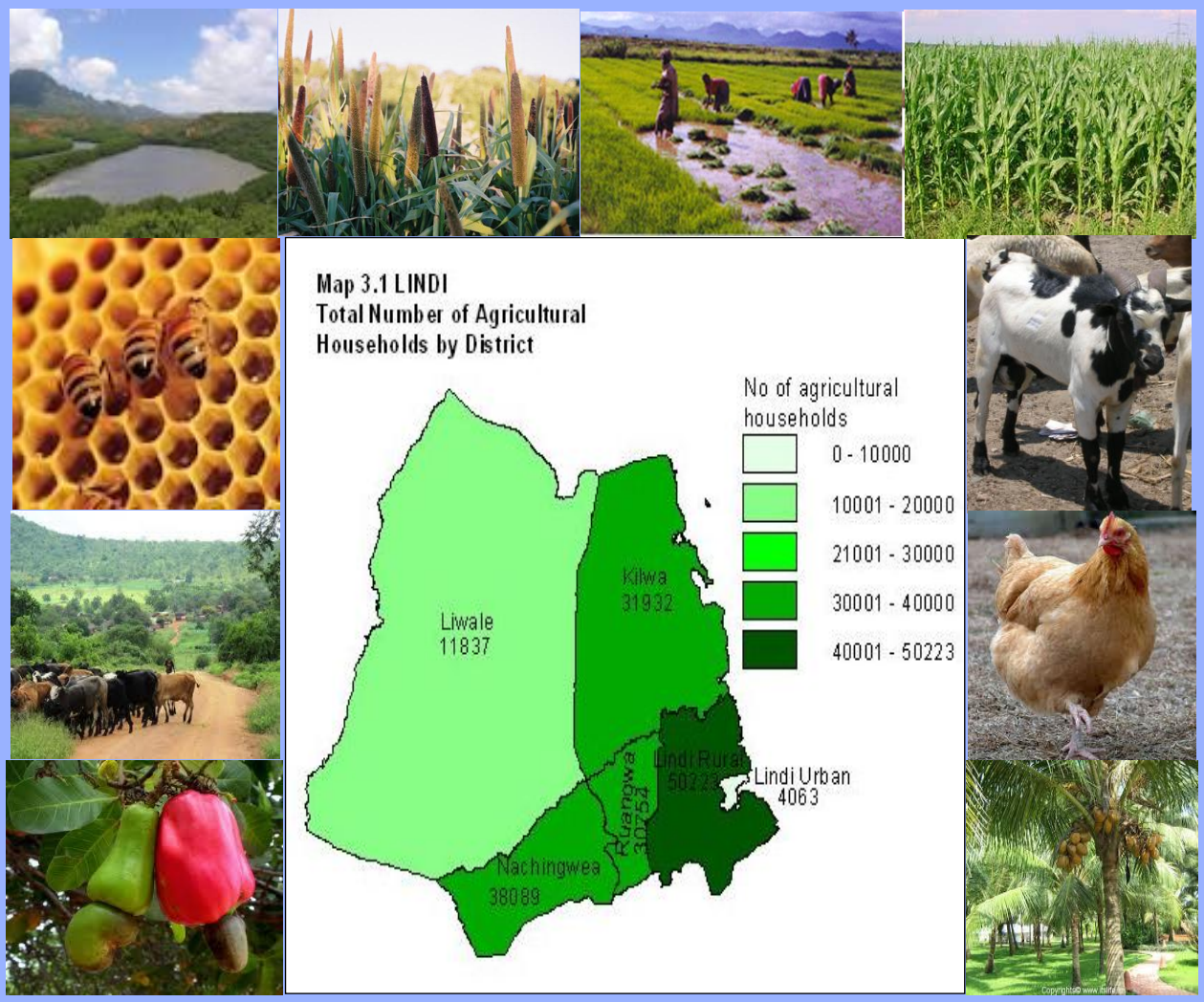
The United Republic of Tanzania

NATIONAL SAMPLE CENSUS OF AGRICULTURE 2007/2008

Volume Vh: REGIONAL REPORT: LINDI REGION



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

JULY, 2012

The United Republic of Tanzania

NATIONAL SAMPLE CENSUS OF AGRICULTURE 2007/2008

Volume Vh: REGIONAL REPORT: LINDI REGION

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

JULY, 2012

TABLE OF CONTENTS

ACRONYMS AND ABBREVIATIONS

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

OCGS	Office of Chief Government Statistician Zanzibar
PMO-RALG	Prime Ministers Office, Regional Administration and Local Government
PPS	Probability Proportional to Size
PSU	Primary Sampling Unit
RS	Regional Supervisor
RSM	Regional Statistical Manager
SPSS	Statistical Package for Social Science
SRS	Short Rainy Season
TOT	Training of Trainers
UNDP	United Nations Development Programme
UNFAO	United Nations Food and Agriculture Organization

PREFACE

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

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

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

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

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

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

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

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

ILLUSTRATIONS

List of Tables

List of Charts

List of Maps

EXECUTIVE SUMMARY

This report presents survey results for Lindi region as a sub-set of the National Sample Census of Agriculture 2007/08. The report covers small-scale agricultural households in rural areas of Lindi region which were selected using statistical sampling techniques. The result in the report excludes large-scale farms. The highlights are described under relevant sub headings 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 the agricultural households in the region.

i) Household Characteristics

The total number of agricultural households in Lindi region was 166,898 of which, 89% had crop production as their major agricultural activity. Only Kilwa district had a few livestock only agricultural households (79 households) but none of the districts had any pastoralist households, Male population was dominated by relatively older people of 80 – 84 years while female population was dominated by the age bracket 25-29 years were the major group

Literacy, described as the ability to read and write in any language, was above 65% in all the districts with Nachingwea having the highest rate (89%) and Kilwa recording the lowest rate (69%). Liwale district had the highest proportion of population (35%) attending school, while in the case of those who completed school; Nachingwea district had the highest percentage of h 50%. The district with the highest proportion of the population of never attended school was Lindi Rural (32%). None of the heads of household, in any of the districts, had university or other tertiary level of education.

ii) Crop Production

Land Area

The total usable land available was 351,498 ha. The district with the largest usable land was Nachingwea (100,746 ha) while Lindi Urban had the smallest usable land (4,355 ha). The usable land area per household was the largest in Liwale (1.6 ha) while Lindi Urban was the only district with a usable land area below one hectare. In all the districts, the planted area was less than the usable land available but land utilization ratio for the districts was generally high, the lowest being 78.7% in Lindi Urban and the highest was in Liwale district 90.3%.

Land Use Types

Generally, most of the regional land was put under crops, either temporary or permanent in monoculture or mixtures and very limited land was devoted to other land use types. At the time of the census, an estimated 31,259 ha were under fallow; 13,584 ha were usable but uncultivated, 480 ha were under natural pastures and 4,611 ha under natural bush. Tree planting was the least common land use type with a planted area of 32 ha (0.01%) planted.

Planted Area

Nachingwea, Kilwa, Lindi Uural and Lindi Urban planted all their land with annual crops during the long rainy season and none during the short rainy season while in Liwale and Ruangwa districts, relatively larger areas were planted during the long rain season as compared to the short rainy season. The long rainy season was the main season for planting of all crop types.

iii) Crop Types

Cereals were the main types of crops grown in the region occupying 133,024 ha (79 % of the total planted area under annual crops and vegetables) followed by oil seeds and oil nuts (25,743 ha, 15%). Roots and tuber crops, fruits and vegetables, pulses and other cash crops each were each planted on less than 1% of the planted area.

Cereal Production

The major cereals planted were maize, sorghum and paddy. The planted area was the largest for maize (76,188 ha, 57.3%) followed by sorghum (37,973 ha, 28.5%), paddy (18,499 ha, 13.9%). For each cereal crops,yield was generally below one ton/ha with paddy having the highest yield (0.91 t/ha), followed by maize (0.82 t/ha), finger millet (0.75 t/ha) and sorghum (0.7 t/ha).

- **Maize**

Maize was planted in all the districts and predominantly in Nachingwea (29,571 ha, 38.6% of the total planted area by 36,678 households, 30.3%). Maize was also a significant cereal in Ruangwa involving 28,096 households (23.2%). Lindi Urban district had the least involvement in maize production (623 ha p, 0.5%) was planted with the crop. Land area planted with maize per household was the largest in Nachingwea (0.8 ha/household) and the smallest in Lindi urban (0.3 ha/household).

- **Paddy**

Paddy was planted in all the districts by a total of 36,067 households (24.3% of the total 148,721 crops-only households in the region). Lindi Rural and Kilwa districts were the major districts for paddy production with a combined planted area of 14,863 ha (80.3% of the total area planted with paddy in the region).

- **Other Cereals**

Other cereals (sorghum, bulrush millet, and finger millet) were planted in all the districts on a total of 38,288 ha by a total of 72,625 households. Kilwa had the largest planted area (12,600 ha, 32.9% of the total area planted with other cereals). Planted areas per households were in the range of 0.4-ha/household.in Lindi Urban to 0.7 ha/houeholds

Roots and Tuber Crops Production

Cassava was the main root crop planted by the largest number of households (287, 42.2% of the total households which planted root crops) followed by sweet potato (269 hh, 39.6%) and yam (124 hh, 18.2%). Planted areas were largest for cassava (134 ha, 63.5%), followed by sweet potatoes (56 ha, 26.5%) and yams (20 ha, 9.5%).

- **Cassava**

Cassava was planted in three districts in the region the largest planted area was in Liwale district (75 ha, 56% of the total area planted with cassava in the region) and the total harvested cassava was 204 tonnes with Liwale producing the largest quantity (166 tonnes, 81.4 %). The crop was planted on small land areas the largest being 0.6 ha/hh in Liwale district.

- **Sweet Potato**

Sweet potatoes were a minor crop planted by 269 households on 56ha.The largest area planted was 48 ha (85.7% of the planted area) in Liwale district and the remaining 14.3% of the planted area was in Nachingwea. The crop was most productive in Liwale district (2.2 t/ha) as compared to Nachingwea (0.2 t/ha).

Pulse Crops

The main pulse planted crop in Lindi region was cowpeas (5,889 ha, 74.6% of the total area planted with pulses), planted by the largest number of growing households (18,112 hh 72.9% of all households that planted pulses). Other relatively important pulses in the region were bambaranuts (971 ha, 12.3%) and beans (877 ha, 11.1%)

- **Cowpeas**

The largest planted area for cowpeas was in Nachingwea district (2,864 ha, 48.6% of the total area planted with cowpeas). Cowpeas were least important in Lindi Urban. Nachingwea district had the largest proportion of land planted with cowpeas in the region (30.3%) and contributed 51.6 %(1,762 tonnes) of the total 3,413 tonnes harvested in the region. Ruangwa and Lindi Rural contributed 33% (1,124 tonnes) of the total harvested quantity in the region. Planted areas per household were the largest in Nachingwea and Lindi Rural districts each with0.4 ha/hh

- **Beans**

Beans were planted on a total of 877 ha (11.1% of total area planted with pulses) by t 11% (2,711 households) of the total 24,829 household that planted pulses in the region. The area planted with beans was largest in Nachingwea district with 351 ha (40% of the total area planted with beans) while the proportion of land planted with beans was the highest for Ruangwa (0.45). The districts with the highest yields were Ruangwa (0.9t/ha) and Nachingwea (0.5 t/ha) while in the other bean growing districts, yields were at an average of 0.2t/ha.

Oil Seeds and Oil Nuts' Production

A total of 25,743 ha (equivalent to 8.5% of the total 302,044 ha planted area in the region), were planted with oil seed and oil nut crops. The largest area (23,252 ha, 90.3% of the area planted with oil seed crops was planted with simsim, and a 2,432 ha was planted with groundnut (9.4%). Sunflower was a minor crop accounting for the 0.3% of the area planted with oil seeds and oil nut crops.

- **Simsim**

Simsim was planted in all the districts by a total of 48,908 households on 23,252 ha equivalent to 90.3% of the total 25,743 ha planted with oil seed and oil nut crops in the region. Yields was the

highest in Kilwa (0.56 t/ha). Kilwa district had also the largest planted area (7,304 ha, 31.4% of the total planted area in the region) and had the largest proportion of land planted with the crop (12.4% of the total planted area) Nachingwea had the largest number of households which planted the crop (14,295 hh, 25.8%). Planted area per household was the largest in Kilwa (0.64 ha), and smallest in Lindi Urban (0.29 ha/hh)

- **Groundnuts**

The land area planted with groundnut in the region was 2,432 ha planted mostly in Lindi Rural district (1,180 ha, 49% of the area planted with groundnuts in the region), followed by Nachingwea (564ha, 23.2%) Liwale (240 ha, 9.9%), and Liwale district had the. Highest yield (0.78 t/ha) followed by Ruangwa (0.67 t/ha) and Lindi Urban (0.59 t/ha))

Fruits and Vegetables

Tomato and onion were the two most dominant vegetable crops. The area planted with tomato was 395 ha equivalent to 40.8% of the area planted with fruits and vegetables .The area planted with onion was365 ha equivalent to 37.7% of the total area planted with fruits and vegetables

- **Tomato**

Tomato was was planted in all the districts predominantly in Ruangwa (164 ha, 41.5% followed by Lindi Rural (133 ha, 33.7%). Planted areas per household were in the range of 0.1to0.28 ha/household. Generally, tomato was allocated small proportions of land for planting,the highest being in Ruangwa (0.35) and lowest in Lindi Rural (0.18)

- **Onions**

The crop was planted on a total of 367 ha of which, 364 ha (99.2%) were planted in Ruangwa district by 1,367 (99.7%) households and a haverst of 926 tonnes or 99.7 % of the total harvest in the region.

Production of Other Annual Crops

The only other annual crop planted in the region was tobacco (also regarded as cash crop)s planted on a very small area of 46 ha.

iv) Perennial or Permanent Crops

The allocation of land between annual and perennial crops was slightly more for perennial (204,544 ha, 58%) compared to annual (149,047 ha, 42%). Cashewnut was planted on the largest area (123,015 ha, 60% of the area planted with permanent crops).

Other important perennial crops were coconut (23,755 ha, 12%), pigeon peas (15,862 ha, 8%) and cassava (16,707 ha, 8%). Minor perennial crops planted in the region were mango, banana and orange. Nachingwea district had the largest area planted with perennial crops (63,507 ha, 33.8% of the total planted area) by 33,386 households (30.3% of total number of households that planted perennial crops).

The land area planted with perennial crops was the largest in Liwale (2.28 ha/household) and the smallest in Lindi Urban (0.8 ha/household).

- **Cashewnut**

Nachingwea t was the most important district for cashewnut production (44,026 ha, 35.8% of the total 123,015 ha planted area with the crop) All other districts, except Lindi Urban where cashewnut production was insignificant, had between 14,000 and 25,000 ha, equivalent to between 12% and 20% of the total area planted with cashewnut in the region. Planted area per household was largest in Liwale district (2.3 ha/household) and the smallest in Lindi Urban (one ha/household).

- **Coconut**

Coconut was planted in all the districts in variable proportions. Kilwa district had the largest planted area (12,469 ha, 52.5% of the total planted area with coconut in the region). Other districts were Lindi Rural (6,997 ha, 23.5%) and Nachingwea (3,724 ha, 14.4%). The largest planted area per household was in Nachingwea (2.5 ha). In all other districts except Kilwa and Lindi Rural, the planted areas were in the range of 0.1 to 0.7 ha/household.

- **Pigeon Pea**

The total production of pigeon peas by smallholders was 6,903 tonnes grown by 40,405 households, 12.5% of the total crop growing households.The average area planted with pigeon peas

per pigeon peas growing household was 0.4 ha. The average yield obtained by smallholders was 0.51t/ha from the harvest area of 13,597 hectares

- **Banana**

Bananas were planted in all the districts in varying proportions. Kilwa had the largest planted area (1,190 ha, 48.4% of the total area planted with banana) and Lindi Urban had the smallest planted area (46 ha, 1.9%). The planted area per banana growing household was the largest in Nachingwea (0.5 ha/hh) and the smallest in Lindi Urban (0.2 ha/hh).

- **Mango**

Mango was a minor crop planted in the region. The most important districts for mango production were Kilwa (1,500 ha, 50.6%) and Nachingwea (1,334 ha, 45%) with almost negligible areas planted in Lindi Rural, Lindi Urban and Liwale districts.

v) Use of Inputs

Use of Un-mechanized Agricultural Equipment

The majority of the households in the region depended much on the hand hoe and the sword as the major implements for most farm operations. Amongst other equipments, only the hand sprayer was used in all the districts though at a low level, the highest was only 3.0% (1,488 households) in Lindi Rural and Liwale (351 hh, 3.0 %) .

Use of Mechanized Agricultural Equipment

The use of mechanized agricultural equipment in the region was relatively low Tractor was the most commonly used mechanized equipment used for ploughing and harrowing even though to a very limited extent. The use of tractor for ploughing was most common in Liwale even though still very low (1.7% of the total number of agricultural households (1,286 households) and the use of the same equipment for harrowing was most common in Liwale (1,783 households) and Kilwa (1,577 households) equivalent to 3.1 % of the agricultural households in each district.

Use of Agricultural Animals

The Cow was the most widely used agricultural animal in the region particularly in Lindi Rural district (1,116 households, 0.5%) but was relatively very low in other districts Nachingwea (658

households, 0.4%) and 3% Other agricultural animals used to a limited extent were donkeys and oxen.

Use of Improved seed

Improved seed was used for planting during both the short and long rain seasons but was limited to relatively small areas equivalent to 47.7% of the total planted area (167,884 ha) for both seasons with small variations between districts. Almost twice as much land was planted with improved seed during the long rain season (1,66,590 ha) compared to the short rain season (1,294 ha) though proportionally the difference was large (average 99.3% of the planted area during long rains as compared to 0.7% during short rains.

Use of Inorganic Fertilizer

Organic fertilizers were preferred (588 ha, 35% of the planted area applied with fertilizers) over inorganic fertilizers (998 ha, 59%) in both seasons and in most districts all districts. However, in Kilwa district, organic fertilizers was not applied during any of the two seasons and in Lindi urban and Kilwa inorganic fertilizers were not used in either of the seasons.

Use of Pesticides

Pesticides (insecticides, fungicides, herbicides, rodenticides, nematicides, etc.) were applied on a total 6,510 ha. Overall, Kilwa, Lindi rural and Ruangwa districts were the three leading districts in pesticide use. Insecticides were the most dominant pesticide, applied on 45% of the planted area (2,917 ha) and herbicides were the least less used (1.126 ha, 17% of the planted area). Lindi rural had the largest area (1,207 ha, 41.4%) applied with insecticides while Kilwa had the largest proportion of land applied with fungicides (1,117 ha, 45.3%) and herbicide (830 ha, 73.7%).

vi) Area Planted With Irrigation

Water is a key input in crop production. Irrigation is the practice of applying water to enhance crop growth. The use of irrigation for agricultural activities in the region is negligible. The area planted under irrigation was 2,523 ha equivalent to 0.84% of the total planted area in the region.

About two thirds of the irrigated land was in Nachingwea (1,676 ha, 66.4% of the area planted using irrigation and another 548 ha (21.7%). In all other districts, the proportion of land planted

using irrigation was not more than 7%, the lowest being 2.3% in Liwale district. The majority of the households applying irrigation obtained irrigation water by gravity (1,443 households, 53.4%) while others used hand buckets (1,105 households, 40.9%) and hand pump (152 households, 5.6%).

vii) Crop Storage and Marketing

Methods of Storage

Crop storage was practiced by a relatively large proportion of households (153,856 (92%) of the total 166,819 crop growing households in the region). The leading districts practising crop storate were Lindi Rural (45,263 hh, 29.4% of the households storing crops in the region) and Nachingwea (37,242 hh, 24.2. The storage structures used by the majority of households were locally made traditional structure (154,764 hh 57% of the total households practicing crop storage) and sacks and open drums (55,780hh, 21%).

Crop Sales

Sale of crops was conducted in all the districts and Liwale had the highest of households (73%) selling crops. Relatively high proportions of households sold crops in other districts, in the range between 40 and 69% of the households which sold crops.

Marketing Problems

The majority of households that faced challenges in marketing cited low price in the open market (82,053 households, 28.7%). Other challenges cited included, government regulation problems, trade union problems, crop market being too far, high transport costs, lack of transport, lack of market information, and lack of buyers.

viii) Credit Sources

Access to credit was reported only in Lindi Rural, Liwale Nachingwea and Ruangwa districts. Savings and credit societies were the main sources of credit. Other sources were cooperatives, family, friends and relatives, as well as NGOs and development projects.

ix) Soil Erosion Control and Rain Water Harvesting

In all the districts only 1,355 households **(1%)** applied some measures of soil erosion control and/or had rain water harvesting facilities and in any one district, the number of households applying erosion control measures and/or had rain water harvesting facilities of not more than 3% of the total households.

x) Livestock Production

The livestock types in the region comprised animals (cattle, goats, sheep and pigs) and chicken.

- **Cattle**

Cattle were the recorded in all districts and in varying proportions. The total cattle population in the region was 30,784 heads comprising predominantly of indigenous cattle (85.9%). Kilwa had 62 % of the total cattle population in the region, the rest were mainly in Lindi Rural (6,200 heads 20.1%) and Nachingwea (4,232 heads, 13.7%).All improved beef cattle were only in Lindi Urban district and 92.8% of the improved dairy were in Lindi Rural and Nachingwea districts.

- **Goat**

Goats were in all the districts, the regional total being 159,322 heads. The largest goat population was f in Lindi Rural (65,352 heads 41% of total goat population in the region) while Lindi Urban had the smallest goat population equivalent to 1% of the total regional goat population.

- **Sheep**

The total number of sheep in the region was 4,908 heads concentrated mainly in three districts Kilwa (1,971 heads, 40.2% of the total sheep population in the region), Ruangwa (1,443 heads, 29.4%) and Nachingwea (1,035 heads, 21.1%).

- **Pigs**

The total pig population in the region was 7,063 heads kept in two districts, Nachingwea (3,950 heads, 55.9%) and Ruangwa (3,113 heads, (44.1%)

- **Chicken**

The total population of chicken, comprising both local and improved types, in the region was 1,574,474. The highest chicken population was in Kilwa (485,205) equivalent to 30.8% of total chicken population in the region and the least population was in Lindi Urban with 75,899 chicken (1.2%). Layers were recorded mostly in Kilwa district (6,229 chicken, 48.7%) and (2,351) chicken 8.4% the remaining distributed in other districts except Lindi Rural where there were none. Almost all the broilers chicken types were in Liwale (8,768 chicken, 99.1%).

xi) Incidences of Ticks and Tsetse Flies

Comparatively, larger proportions of households keeping livestock reported having problems with ticks (about 3.5-8.5% across the districts) as opposed to tsetse flies (1.5-3.5%). Liwale district was the most affected with tsetse-related livestock diseases, while Lindi Rural were the least affected. The largest proportion of households' dewormed chicken (39 – 100%) compared to the other types of livestock.

xii) Poverty Indicators

Toilet Facilities

The majority of agricultural households used the traditional pit latrine (156,226 hh 94% of households) with a very low level use of improved pit latrines (3,954 households, 2%) and flush toilets (1,216 hh, 1%). About 3% of the households had no toilet facilities.

Access to Drinking Water

During the dry season, the majority (44% of the total households) depended on unprotected well while some depended on piped water (17%), protected wells (16%) and surface water in, lakes or dams (12%). In the wet season, 26-28% accessed drinking water at a distance of 0.5-2 km while in the dry season; the largest proportion of the households (27%) accessed the main source of drinking water a distance of one to two kilometres. Only about 1% of the households accessed the main source of drinking water beyond 10 km in the dry season.

Roofing Material

The majority (71.3%) of the agricultural households in the region used grass/leaves as roofing materials , the proportions of the households which used this material were in Lindi Urban (3,341hh, 82.2%), Lindi Rural(37,698 hh, 75.1%),Kilwa (23,732hh,74.3%),Nachingwea (26,897hh,70.6%), Liwale (7,745hh, 65.4%) and Ruangwa (19,667hh, 63.9%) . iron sheets were the second roofing material used by 37,886 households or 22.7% of the total agricultural households in the region. Liwale district had the highest proportion (28.4%) of its households with iron sheets roofing followed by Ruangwa (25.2%), Nachingwea (24.4%), Lindi Rural (20.7%) , Kilwa (20.2%) and Lindi Urban (14.4%). Other roofing materials had a total proportion of 6% in the region.

Number of Meals per Day

The majority of households in Lindi region, on average, took three meals per day (50.8%), while 46.9% had two meals per day and the remaining 2.3% consumed one meal a day.

Meat 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, households that consumed meat did so less frequently than those households that consumed fish. Very few households consumed meat more than thrice a week or fish more than five times a week

1 BACKGROUND INFORMATION

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

1.1 Geographical Location and Boundaries

Lindi region was established in 1971. The region comprises six districts namely; Kilwa, Lindi Rural, Nachingwea, Liwale, Ruangwa, and Lindi Urban with Lindi Municipal Council being the headquarters Lindi region is situated in outhern Tanzania between latitudes 7^0 55' and 10^0 50' South of the equator and longitudes 36^0 51' to 40^0 East. Lindi shares borders with pwani region to the North, Indian Ocean to the East, Mtwara region to the South, Morogoro region to the West and Ruvuma region on the South West

1.2 Land Area

The region has an area of 67,000 square. Kilometers (7.56% of Tanzania Mainland's area). About a quarter of the region (18,000 square kilometer) is part of the Selous Game Reserve

1.3 Climate

1.3.1 Temperature

The dominant climate is hot and humid. The normal temperature throughout the year is between 24.5^0 C and 27^0 C. However air temperatures have a monthly mean ranging from 22.2^0 C in Nachingwea in July to 27.7^0 C in Kilwa in March. Humidity averages 87% in Lindi Town in March and April

1.3.2 Rainfall

The region has one rainy season which is the long rainy season (Masika) from November/December to April/May. The annual rainfall ranges between 980 mm to 1200 mm.

1.4 Population

According to the projections based on the 2002 Population and Housing Census, the population of Lindi region by the year 2008 was 887,434 people. It is among the moderately populated regions ranking last of the Tanzania Mainland population.

1.5 Socio- Economic Indicators

The regional Gross Domestic Product (GDP) at current prices for the year 2008 was estimated to be Tsh 474,128 million with a per capita income of shillings 534,268. The region held 19th position among regions on GDP and contributed about 1.91 percent to the national GDP.

The region is Famous for producing food crops. The main food crops in lindi region include maize, cassava, sorghum, paddy and simsim

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 Vh) 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 well-being 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 households living conditions.;

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

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

2.3 Census Scope and Coverage

The 2007/08 Agricultural Sample Census was conducted for both large and small scale farms. The data was collected from a sample of 52,635 small scale agricultural households of which 48,880 were from the Mainland and 4,755 from Zanzibar. To meet National estimates, data was also

collected from 1,006 Large Scale Farms (968 on the Mainland and 38 in Zanzibar) on a complete enumeration basis.

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

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

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

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

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

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

2.4 Census Methodology

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

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

2.4.1 Census Organization

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

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

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

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

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

2.4.2 Tabulation Plan Preparation

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

2.4.3 Sample Design

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

47,880 agricultural households. In Zanzibar, a total of 317 Enumeration Areas (EAs) were selected and 4,755 agricultural households were covered. National wide, all regions and districts were sampled except four urban districts (three from Mainland and one from Zanzibar).

In both Mainland and Zanzibar, a two stage sample was used. The number of villages/Enumeration Areas (EAs) was selected for the first stage with a probability proportional to the number of villages/EAs in each district. In the second stage, 15 households were selected from a list of households in each village/EA using systematic random sampling. Table 1.1 gives the sample size of households, villages and districts for the Mainland and Zanzibar.

Table 2.1: Census Sample

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

2.4.4 Questionnaire Design and Other Census Instruments

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

- Where feasible, all variables were extensively coded to reduce post enumeration coding errors;

- The definitions for each section were printed on the opposite page so that the enumerator could easily refer to the instructions whilst interviewing the respondent;

- The responses to all the questions were placed in boxes printed on the questionnaire, with one box per character. This feature made it possible to use scanning and Intelligent Character Recognition (ICR) technologies for data capture;

- Skip patterns were used to reduce unnecessary and incorrect coding of sections which do not apply to the respondent; and

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

Three other instruments were used

- Village Listing Forms were used for the listing of households in the village/EA and from this list, a systematic sample of 15 agricultural households were selected;

- A training manual which was used by the trainer for the cascade/pyramid training of supervisors and enumerators; and

- Enumerator's Instructions Manual was used as reference material.

2.4.5 Field Pilot-Testing of the Census Instruments

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

2.4.6 Training of Trainers, Supervisors and Enumerators

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

listing the households in the villages they belong and they were later terminated. The best trained enumerators were assigned to list the remaining villages. Each enumerator was assigned to enumerate two villages.

2.4.7 Information, Education and Communication (IEC) Campaign

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

2.4.8 Data Collection

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

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

During the household listing exercise, some 3,192 extension staff participated on the Mainland. A total of 177 enumerators participated during the listing exercise and enumeration using the small holder questionnaire in Zanzibar. A total of 1,596 enumerators were involved in data collection

using the small holder questionnaire on the Mainland. Additional five percent of the enumerators were held as reserves in case of drop outs during the enumeration exercise.

2.4.9 Field Supervision and Consistency Checks

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

2.4.10 Data Processing

Data processing involved the following process:

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

Data Entry

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

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

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

Batch Validation

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

Tabulation

Statistical Package for Social Sciences (SPSS) was used to produce the census tables and Microsoft Excel was used to organize the tables and compute the additional indicators.

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 strong emphasis was placed on data quality throughout the whole exercise, from planning; questionnaire design, training, supervision, data entry, validation and cleaning/editing. It is therefore believed that the census was 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 were within the norms for Tanzania and they followed the expected time series trends when compared to historical data.

2.5 Funding Arrangements

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

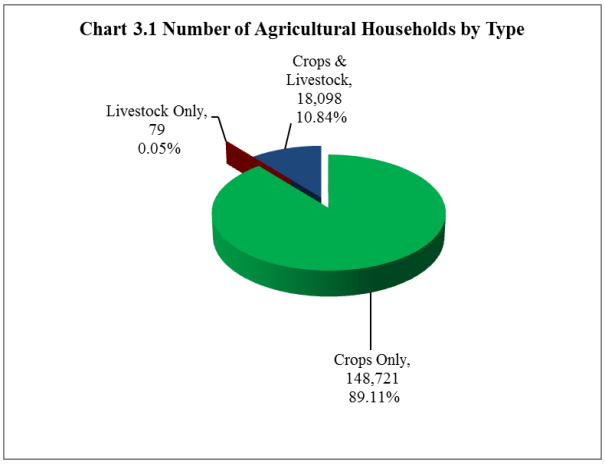
3 CENSUS RESULTS

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

3.1 Household characteristics

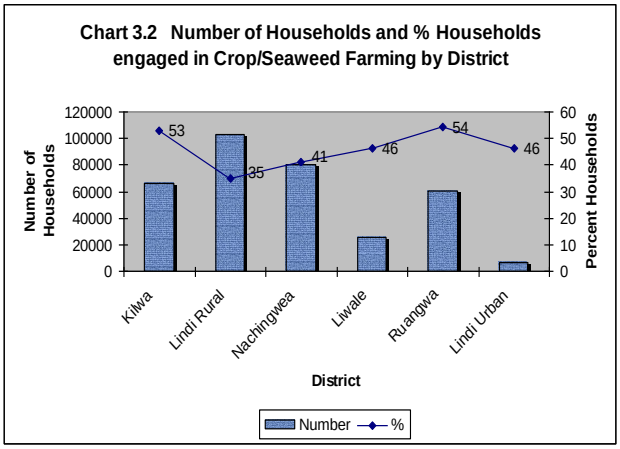
3.1.1 Type of Agriculture Households

The total number of agricultural households in Lindi region was 166,898 distributed between Lindi Rural (50,223 hh, 30.1% of the total agricultural households in the region), Nachingwea (38,089, 22.8%), Kilwa (31,932, 19.1%), Ruangwa (30,754, 18.4%), Liwale (11,837, 7.1%) and Lindi Urban (4,064, 2.4%), (Map 3.1) The highest density of agricultural households (Map 3.2) was in Lindi Urban (910 households/sq km) followed by Lindi Rural (578), Ruangwa (560) and Kilwa (473). Liwale was the most sparsely populated with agricultural households (313).

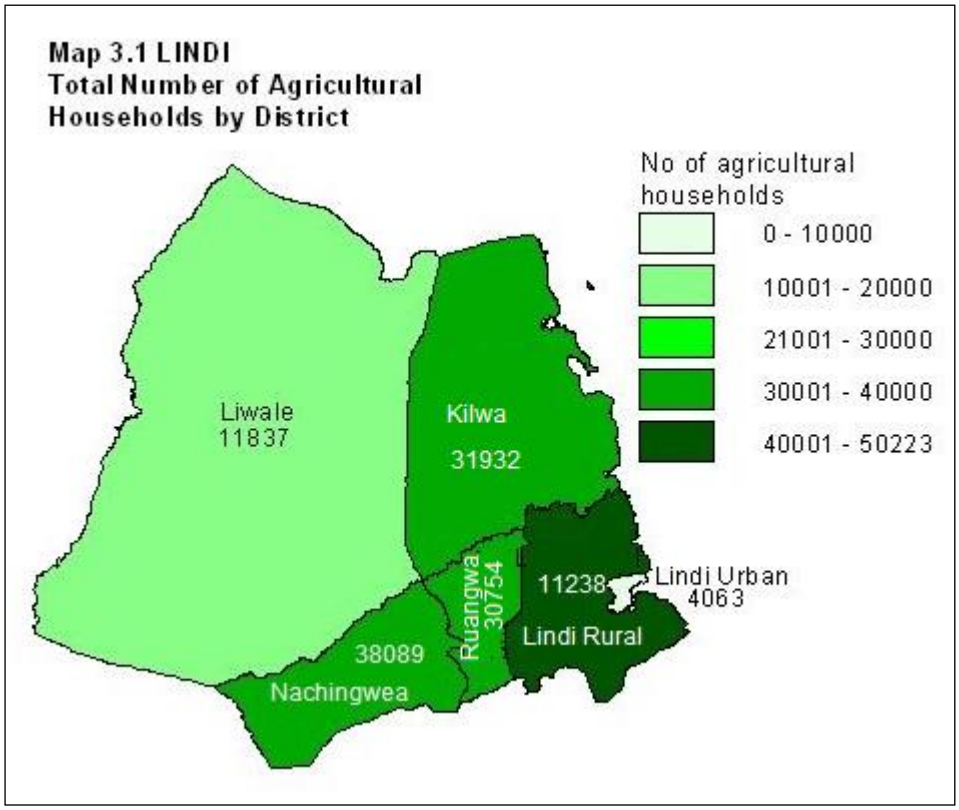


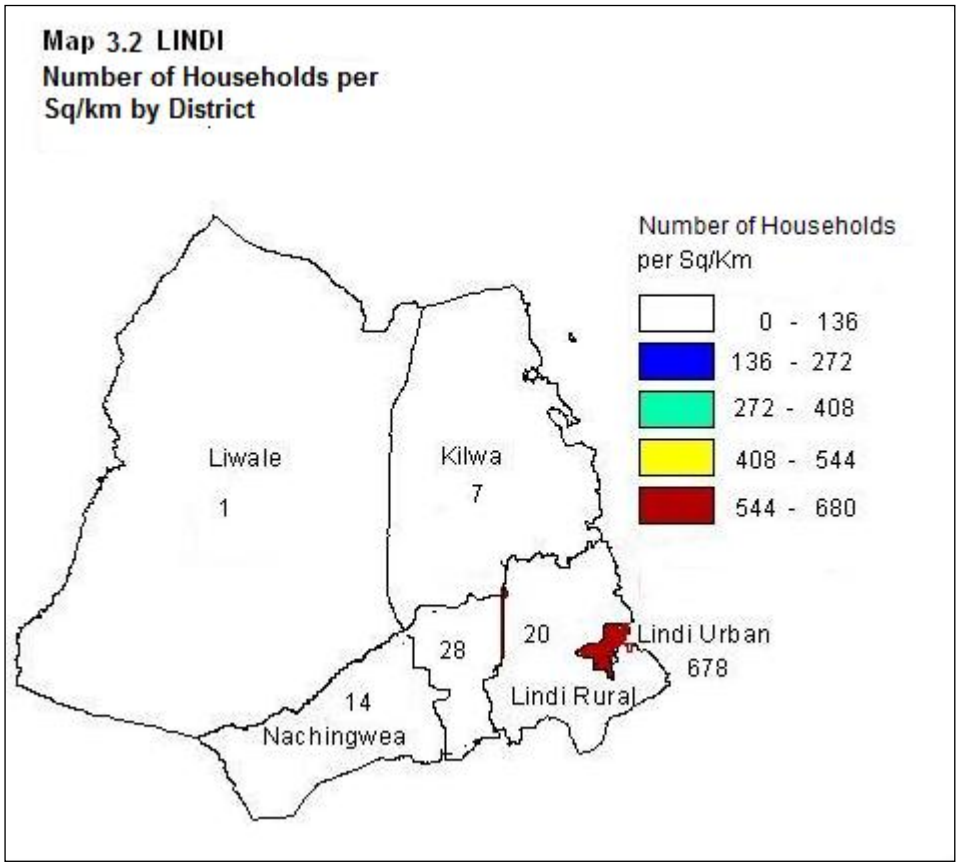
The majority of the households (89%) in the region were engaged in crop production (Chart 3.1 and Maps 3.3 and 3.4). About 0.05% kept livestock only and 10.8% were involved in crop production as well as livestock keeping. There were no pastoralists in the region (Chart 3.1). Among the districts, Lindi Rural had the largest number of crops only households (43,155, 29.2%), followed by Nachingwea (34,891, 23.5%), Ruangwa (29,007, 19.5%), Kilwa (26,886, 18.08%), Liwale (10,990, 7.4%) and Lindi Urban (3,793, 2.6%).

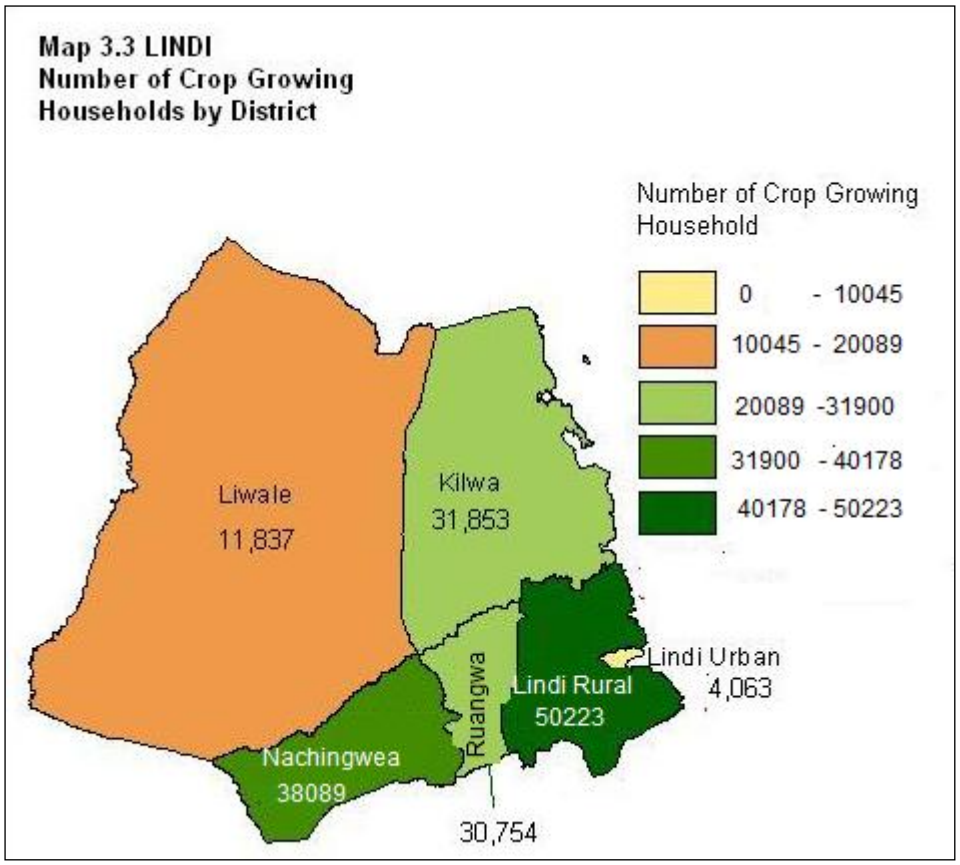
The density of crops only households was the highest in Lindi Urban (4,790 hh/sq. km) and the lowest in Lindi Rural (241 hh/sq. km). Generally, however, in any one district, the proportion of households that engaged in crop farming as the main occupation was more than 30%, the lowest being 35% in Lindi Rural district and highest being 54% in Ruangwa district (Chart 3.2, Map 3.5).

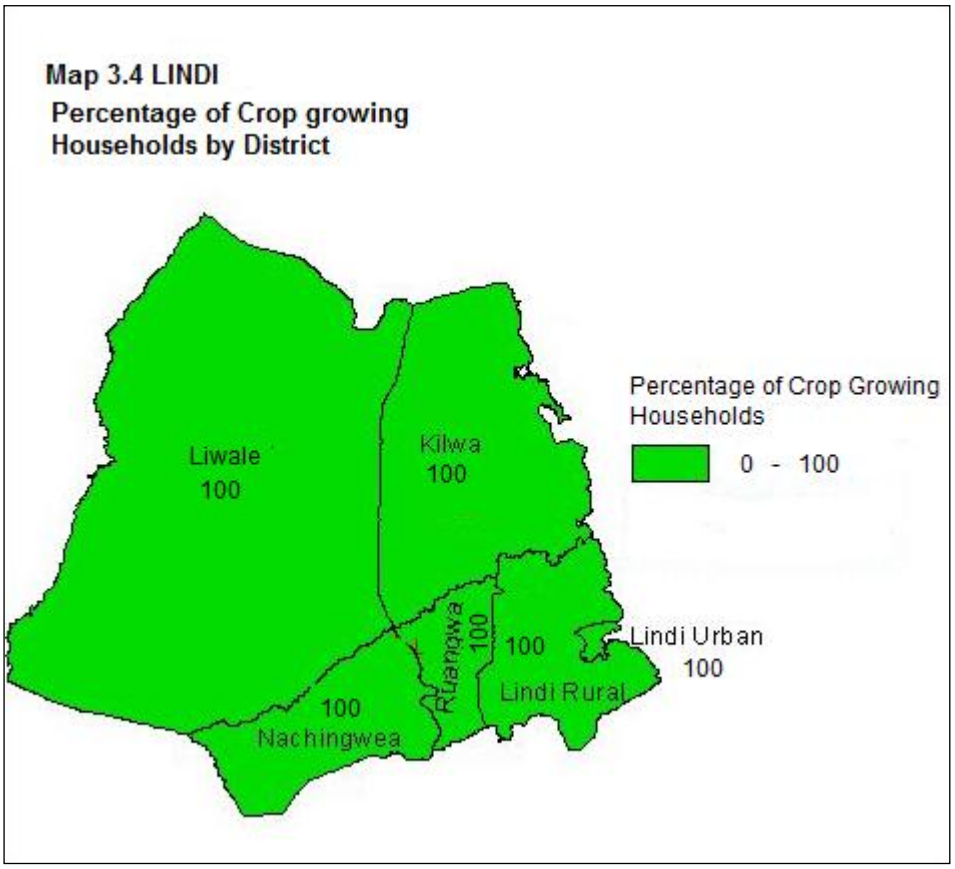


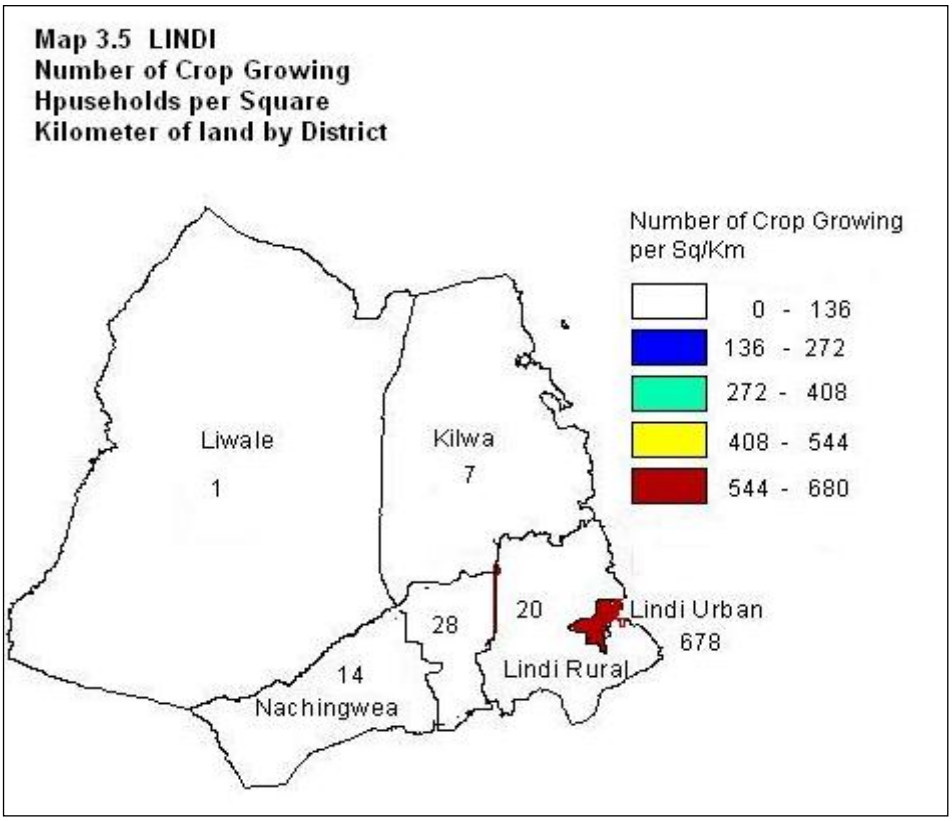
Kilwa district had the smallest number of livestock keeping households (79 households) but none of the districts had any pastoralist households. On the other hand, all the districts had households that were engaged in both crop and livestock production with the highest (4,967, 16% of the total households with crop and livestock in the district) in Kilwa district and the lowest (1,747, 6%) in Ruangwa district (Map 3.6).

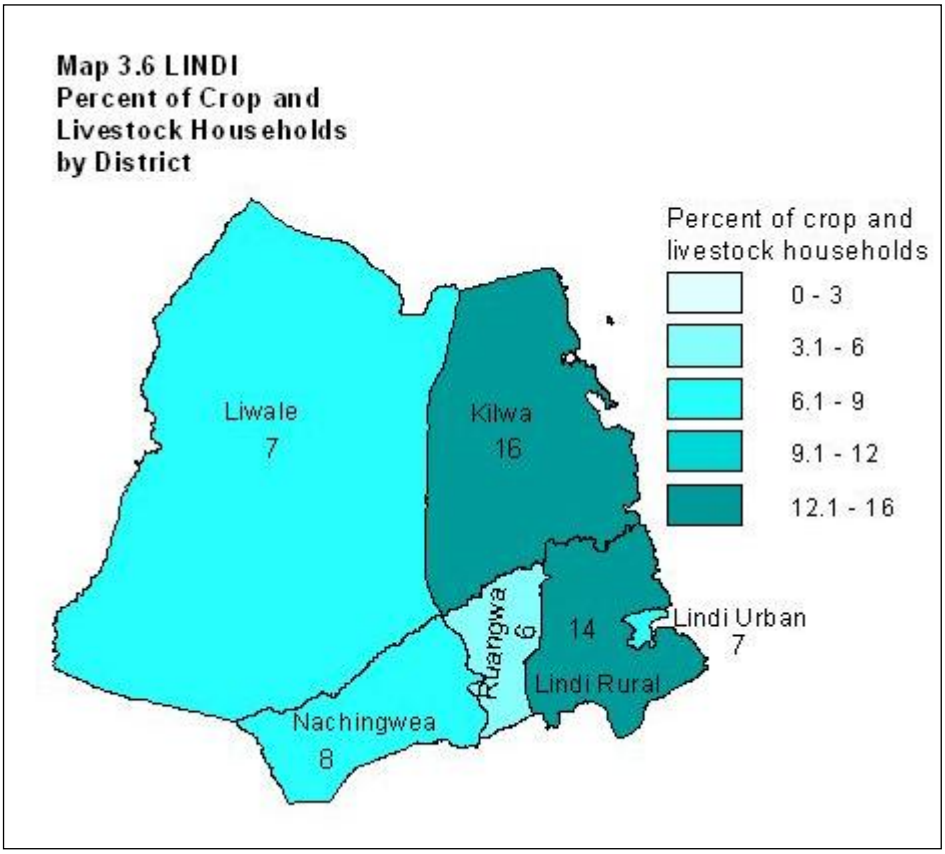

Map 3.1 LINDI
Total Number of Agricultural
Households by District
No of agricultural
households
0 - 10000
10001 - 20000
21001 - 30000
30001 - 40000
40001 - 50223
Liwale
11837
Kilwa
31932
Ruangwa
30754
11238
Lindi Urban
4063
Lindi Rural
38089
Nachingwea


Map 3.2 LINDI
Number of Households per
Sq/km by District
Number of Households
per Sq/Km
0 - 136
136 - 272
272 - 408
408 - 544
544 - 680
Liwale
1
Kilwa
7
28
20
Lindi Urban
678
14
Lindi Rural
Nachingwea


Map 3.3 LINDI
Number of Crop Growing
Households by District
Number of Crop Growing
Household
0 - 10045
10045 - 20089
20089 -31900
31900 - 40178
40178 - 50223
Liwale
11,837
Kilwa
31,853
Lindi Urban
4,063
Lindi Rural
50223
Ruangwa
Nachingwea
38089
30,754

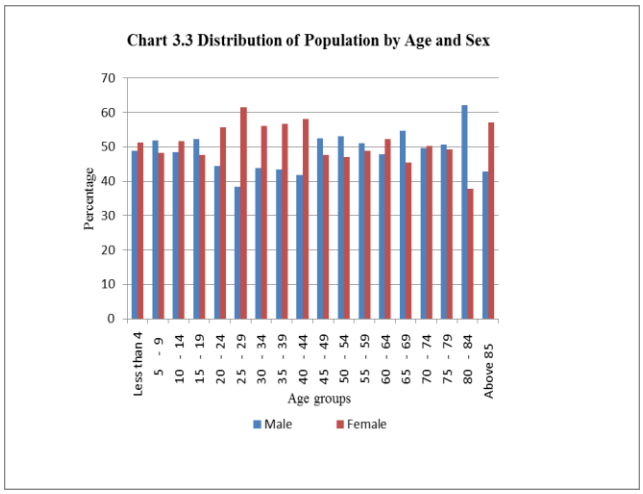

Map 3.4 LINDI
Percentage of Crop growing
Households by District
Percentage of Crop Growing
Households
0 - 100
Liwale
100
Kilwa
100
Ruangwa
100
100
Lindi Urban
100
Lindi Rural
100
Nachingwea


Map 3.5 LINDI
Number of Crop Growing
Hpuseholds per Square
Kilometer of land by District
Number of Crop Growing
per Sq/Km
0 - 136
136 - 272
272 - 408
408 - 544
544 - 680
Liwale
1
Kilwa
7
28
20
Lindi Urban
678
14
Lindi Rural
Nachingwea


Map 3.6 LINDI
Percent of Crop and
Livestock Households
by District
Percent of crop and
livestock households
0 - 3
3.1 - 6
6.1 - 9
9.1 - 12
12.1 - 16
Liwale
7
Kilwa
16
Ruangwa
6
14
Lindi Urban
7
Lindi Rural
Nachingwea
8

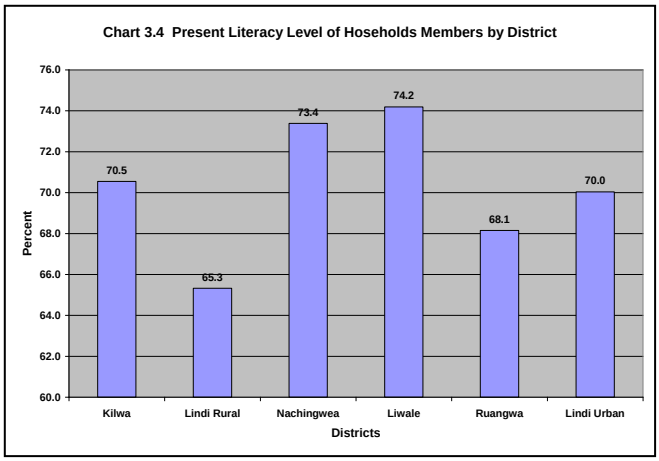
3.1.2 Distribution of the Population by Age and Sex

The age distribution of the agricultural household members indicated that the population was distributed over the entire age brackets in comparable proportions for most of the age brackets (Chart 3.3). However, the male population was dominated by relatively older people of 80 – 84 years bracket while females in the age bracket 25-29 years were the major group (Chart 3.3). This implies that females were more likely to be the major workforce for agricultural activities in the region.



3.1.3 Level of Education

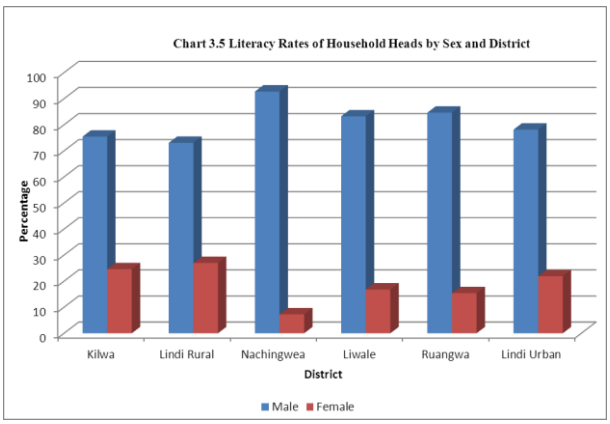
Data on literacy and education attainment were obtained for all persons aged five years and above in all the agricultural households.



Literacy

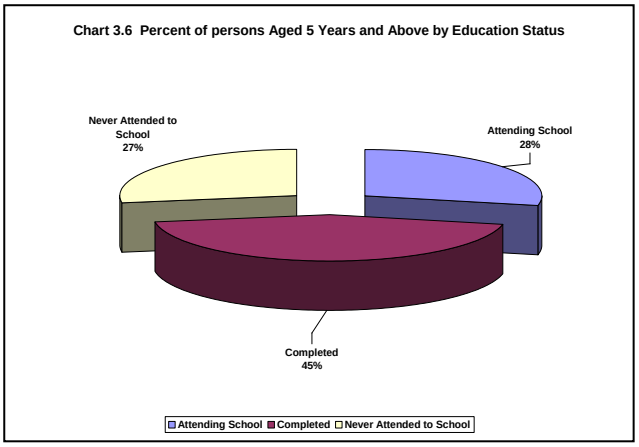
Literacy, described as the ability to read and write in any language was above 65% in all the districts (Chart 3.4). Literacy was the highest in Nachingwea (89%), followed by Ruangwa (76%), Liwale and Lindi Urban each with (75%). Kilwa district had the least literacy rate of 69 percent.

Generally, the literacy rates of male heads of household were higher than those of female heads in all the districts, (Chart 3.5). The literacy rate for male heads of household measured against their ability to read and write the Kiswahili language was above 50% in all the districts and was highest at 89% in Liwale and lowest at 70% in Lindi Urban. The highest literacy rates for female head of households were recorded in Lindi urban and lowest in Liwale (Chart 3.5).

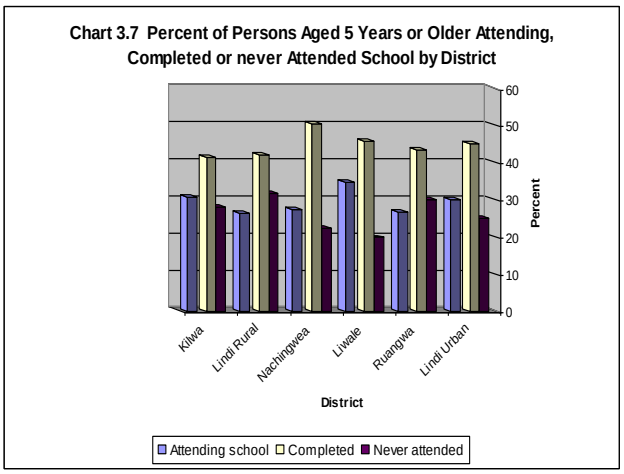


Educational status

The general education status of the region was examined on the basis of having attended and completed primary education, or had never never attended school. The result shows that an average 28.3% were attending school, 44.3% had completed school and 27.4% had never attended to school (Chart 3.6).



However, slight differences existed between districts (Chart 3.7 and Table 3.1) whereby, Liwale district had the highest proportion of population attending school (35%, 18,180 household members) followed by Kilwa (31%, 40,368 members) and Lindi Urban (30%, 4,063 household members).



In the category of those who completed school, all the districts were comparable except Nachingwea which had the highest percentage of 50% (66,021 members) having completed school while all other districts were in the range of 41-46%. The district with the highest proportion of the population of never attended school was Lindi Rural district (32%, 55,431 members) followed by Ruangwa (30%, 30,906 members) while Liwale had the lowest proportion (20%, 10,405 household members) in this category.

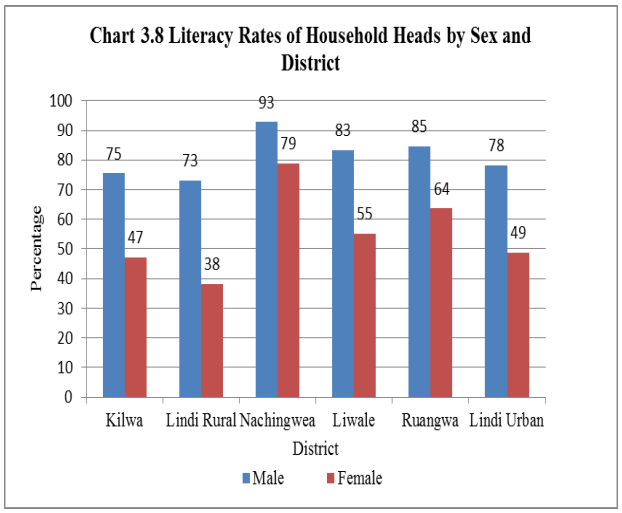
Table 3.1: Percentage of Household Members Aged 5 Years and Above by District and Educational Status

District	Attending School	% Attending School	Completed	% Completed	Never Attended to School	% Never Attended to School	Total
Kilwa	40,368	31	54,166	41	36,505	28	131,038
Lindi Rural	45,883	26	73,288	42	55,431	32	174,602
Nachingwea	35,832	27	66,021	50	29,436	22	131,289
Liwale	18,180	35	23,996	46	10,405	20	52,581
Ruangwa	27,413	27	44,574	43	30,906	30	102,892
Lindi Urban	4,063	30	6,140	45	3,386	25	13,590
Total	**171,738**	**28**	**268,185**	**44**	**166,069**	**27**	**605,993**

Literacy Rates for the Heads of Households

The average literacy rate for the heads of household in the region was 89 percent with male heads having a higher literacy rate (92%) that of female heads (74%). The district with the highest literacy rate for its heads of household was Nachingwea (90%) followed by Ruangwa (80%), Liwale (76%), Lindi Urban (73%), Kilwa (68%) and Lindi Urban (66%)

With regard to literacy rates by sex and district , the district with the highest literacy rate for its male heads of household was Nachingwea (93%) followed by Ruangwa (85%), Liwale (83%), Lindi Urban (78%), Kilwa (75%) and Lindi Rural (73%) whereas , the district with the highest literacy rate for its female heads of household was Lindi Rural (62%) followed by Kilwa (53%), , Lindi Urban (51%) , Liwale (45%) , Ruangwa (36%) and Nachingwea with the least percentage (21%), (Chart 3.8).

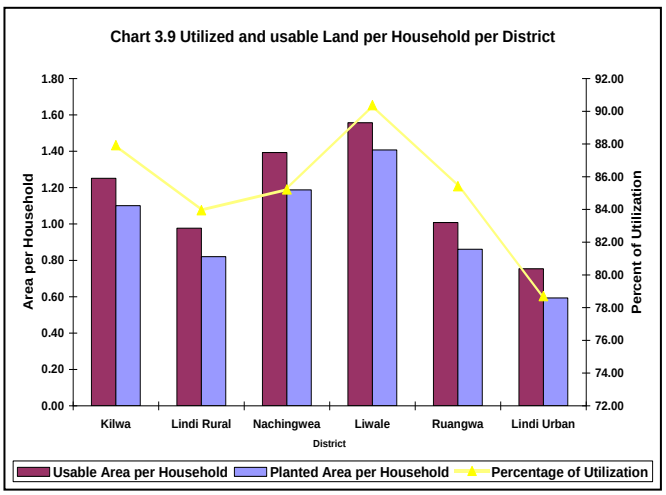


3.2 Land Use

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

3.2.1 Area of Land Utilized

The total usable land available was 351,498 ha. The district with the largest usable land was Nachingwea (100,746 ha) while Lindi Urban had the smallest usable land (4,355 ha). Other districts with relatively large usable land areas were Lindi Rural (86,576 ha), followed by

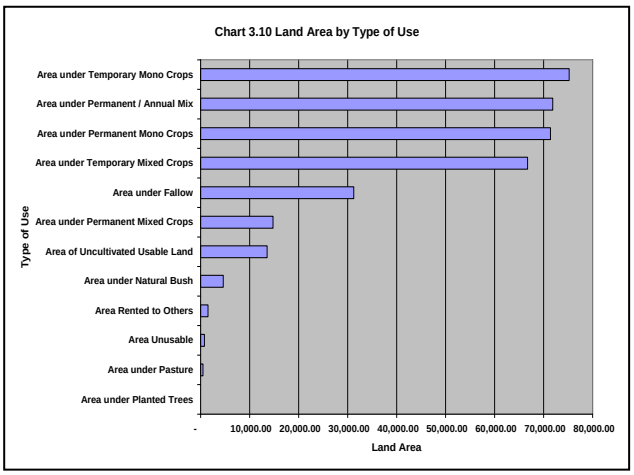


Kilwa (67,289 ha) and Ruangwa (54,723 ha). The usable land area per household (Chart 3.9 and Map 3.7) was the largest in Liwale (1.6 ha), followed by Nachingwea (1.4 ha) and Kilwa (1.3 ha). Lindi Urban was the only district with a usable land area below one hectare.

However, households in all the districts planted were less than the available land area. The percentage of land utilization for the districts was generally high, the lowest being 78.7% in Lindi Urban and the highest was 90.3% in Liwale district (Chart 3.9)

3.2.2 Land Use Types

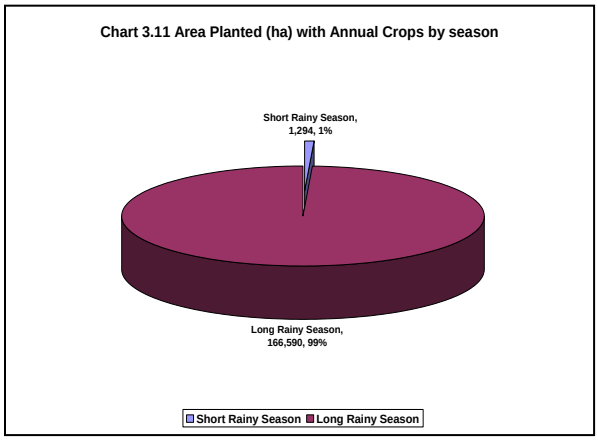
Generally, most of the regional land was under crops, either temporary or permanent in monoculture or mixtures and very limited land was devoted to other land use types (Chart 3.10). The four dominant land use types were planting of temporary (annual) crops planted in monoculture (75,227 ha), permanent and annual mix crops (71,875 ha), permanent mono crops (71,408 ha) and temporary mixed crops (66,728 ha). The four land use types together accounted for a total of 285,238 ha equivalent to 94.4% of the total planted area of 302,044 ha (Chart 3.10).



A total of 31,259 ha were under fallow while 13,584 ha were usable but uncultivated. About 480 ha were under natural pasture and 4,611 ha under natural bush. Tree planting was the least common land use type with a planted area of 32 ha (0.01%) planted. The relatively limited land area under natural bush coupled with the relatively small area planted with trees could be used as inferences of the extent of land clearing that has been done to give way to crop production.

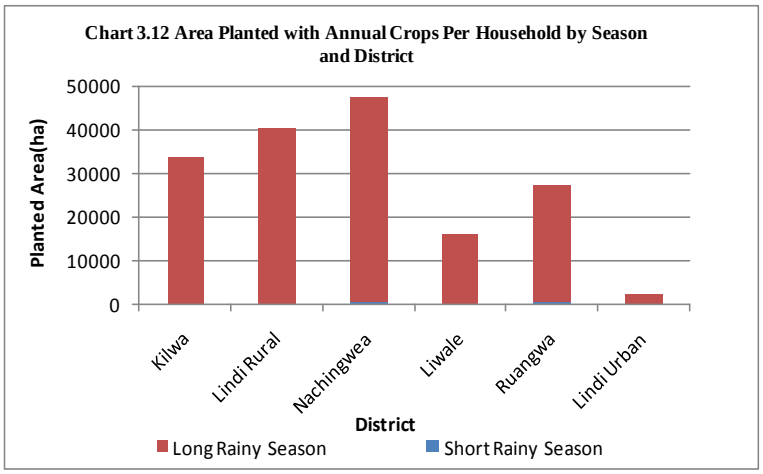
3.3 Annual Crop Production

Agricultural households in the region planted crops in two seasons within the year, the long rainy season and the short rainy season. However, the long rainy season was the most common season for crop production with 166,590 ha or 99 percent of the total area land planted during the two seasons, (Chart 3.11).



3.3.1 Area Planted

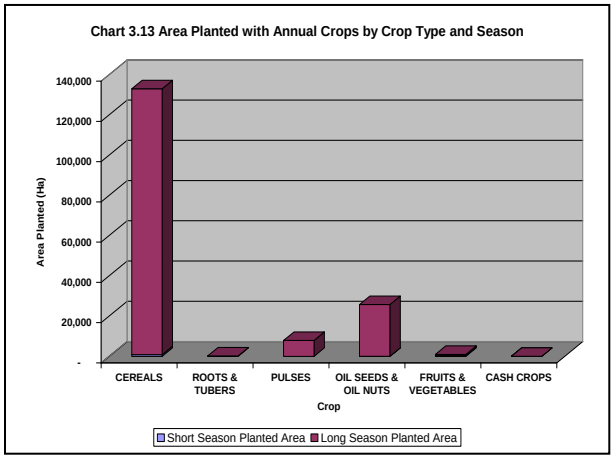
All areas planted with annual crops in Nachingwea, Kilwa, Lindi Rural and Lindi Urban were planted during the long rainy season while in Liwale and Ruangwa districts, relatively larger areas were planted during the long rainy season as compared to the short rainy season, (Chart 3.12 and Map 3.8).



However, the long rainy season was the main crop planting season for all crop types, (Chart 3.13)

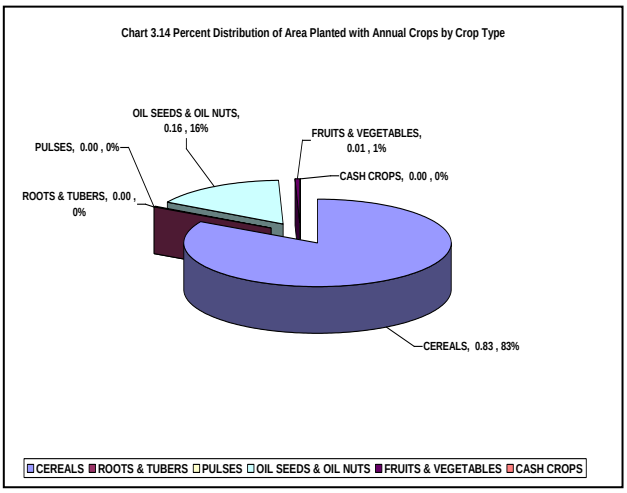
Analysis of Main Crops

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

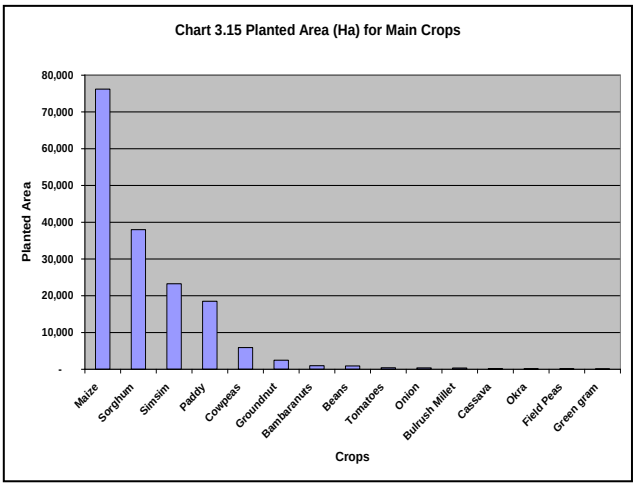


3.3.2 Crop Types

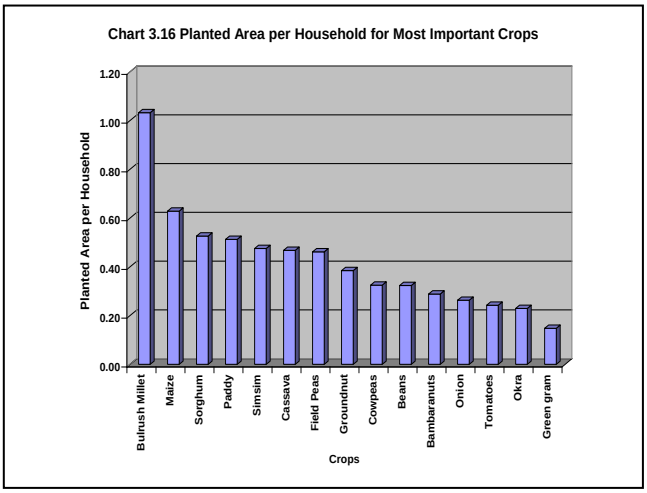
Cereals were the main types of crops grown in the region occupying 133,024 ha (79% of the planted area under annual crops and vegetable) followed by oil seeds and oil nuts (25,743 ha, 15%). Roots and tuber crops, fruits and vegetables, pulses and other cash crops were planted on a total land areaof the total planted area, (Chart 3.14)



Most of the households growing cereals planted maize (121,224 hh, 52.8% of the households that planted cereals in the region). Other cereals planted were sorghum (72,128hh, 31.4%), paddy (36,067hh, 15.7%) and bulrush millet (315hh, 0.14%). Other crops that were planted by relatively large numbers of households were simsim (48,908hh, 16.4%), cowpeas (18,112hh, 6.1%), groundnut (6,318hh, 2.1), bambaranuts (3,362hh, 1.1%) and beans (2,711hh, 0.9%). The only vegetable crops planted by at least 1,000 households were tomato (1,629hh, 0.5%) and okra (1,396hh, 0.4%). Other crops planted were by less than 500 households included cassava, field peas, okra and green gram.



The planted area for cereals was the largest for maize (76,188 ha, 57.3%), followed by sorghum (37,973 ha, 28.5%), and paddy (18,499 ha, 13.7%). Bulrush millet was the only cereal crop planted on less than 500 ha. Other crops planted on relatively large areas included simsim (23,252ha, 13.9% of the total planted area). Cowpeas (5,889 ha, 3.5%) and groundnut (2,432 ha, 1.4%) were the major pulses and oil seeds planted in the region while tomatoes and onions were the major vegetable crops though their planted areas were almost negligible (tomatoes planted on 395 ha, 0.1% and onion planted on 367 ha, 0.1%), (Chart 3.15).



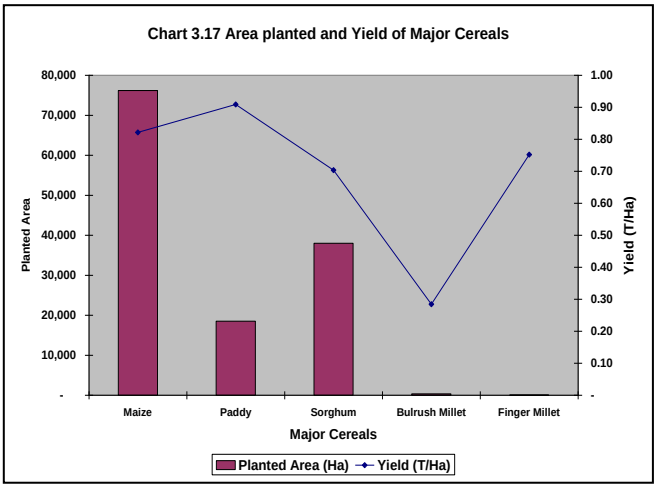
Crop area Planted per Household

Land allocation to different crops (Chart 3.16) indicates that bulrush millet, though planted by the least number of households compared to other cereals and, was the only crop planted on an average area of one hectare per household

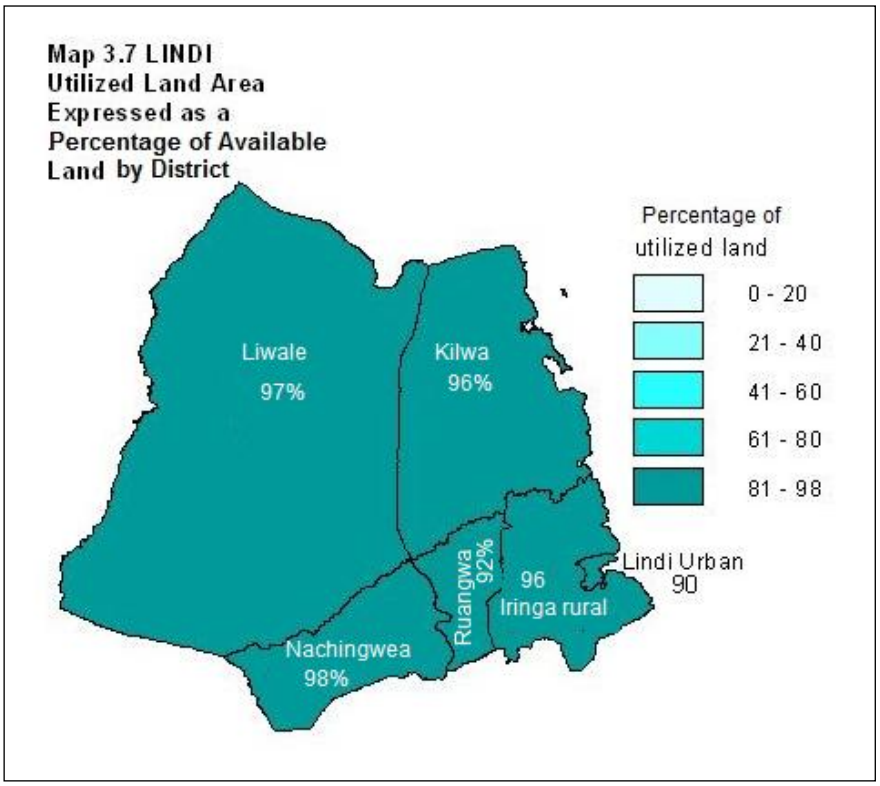
Other cereals; maize, sorghum and paddy were planted on land areas between 0.5-0.6 ha per household while simsim, cassava and field peas were planted on slightly more than 0.4 ha.per household All other crops were planted on land areas much smaller than 0.4 ha/household such as green gram 0.15ha per household.)

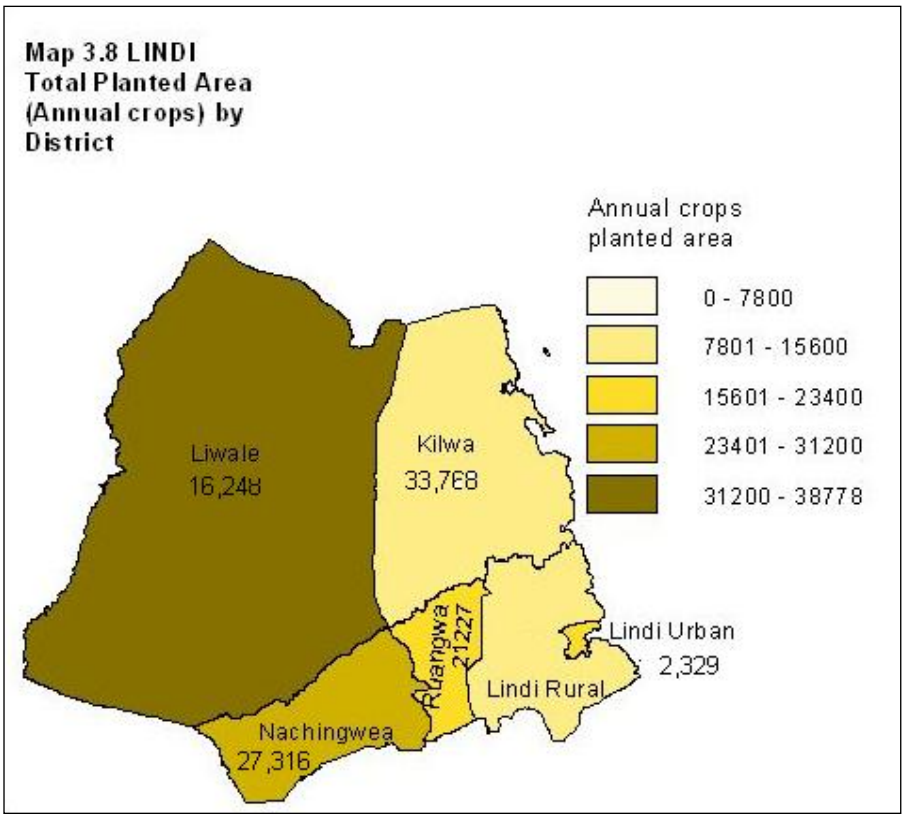
3.3.2.1 Cereal Crop Production

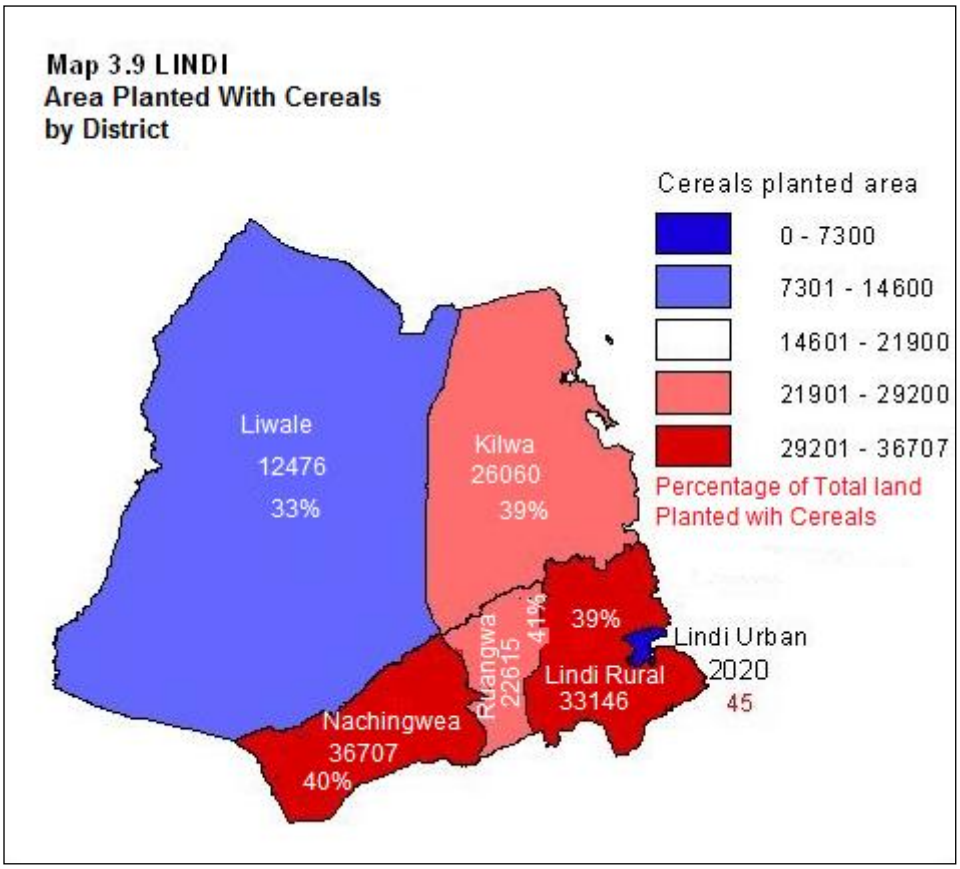
The planted area for cereals was the largest for maize (76,188 ha, 57.3%), followed by sorghum (37,973 ha, 28.5%), paddy (18,499 ha, 13.9%) and bulrush millet (326 ha, 0.2%), (Chart 3.17, Map 3.9).



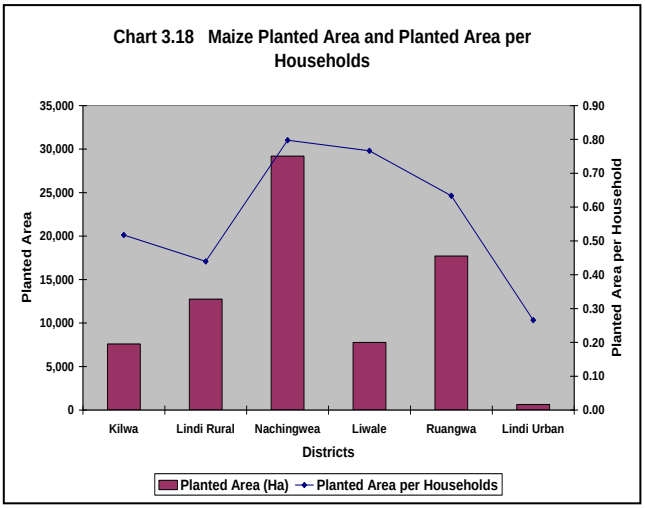
The total production of cereals was 106,185 tonnes and maize contributed most of the harvest (62,571 tonnes; 58.9% of the total harvested cereals), followed by Sorghum (26,707 tonnes, 25.2%), Paddy (16,814 tonnes, 15.8. %), Bulrush millet (93 tonnes, 0.1 %) and finger millet (28.4 tonnes, 0.03%). For each cereal crop, yield was generally below one ton/ha with paddy havingthe highest yield (0.91 t/ha), followed by maize (0.82 t/ha), finger millet (0.75 t/ha) and sorghum (0.7 t/ha). The productivity of bulrush millet was the lowest; with an average yield of 0.28 t/ha, (Chart 3.17).


Map 3.7 LINDI
Utilized Land Area
Expressed as a
Percentage of Available
Land by District
Percentage of
utilized land
0 - 20
21 - 40
41 - 60
61 - 80
81 - 98
Liwale
97%
Kilwa
96%
Ruangwa
92%
96
Iringa rural
Lindi Urban
90
Nachingwea
98%


Map 3.8 LINDI
Total Planted Area
(Annual crops) by
District
Annual crops
planted area
0 - 7800
7801 - 15600
15601 - 23400
23401 - 31200
31200 - 38778
Liwale
16,248
Kilwa
33,768
Ruangwa
21227
Lindi Urban
2,329
Lindi Rural
Nachingwea
27,316


Map 3.9 LINDI
Area Planted With Cereals
by District
Cereals planted area
0 - 7300
7301 - 14600
14601 - 21900
21901 - 29200
29201 - 36707
Percentage of Total land
Planted wih Cereals
Liwale
12476
33%
Kilwa
26060
39%
Ruangwa
22615
41%
39%
Lindi Urban
2020
45
Lindi Rural
33146
Nachingwea
36707
40%

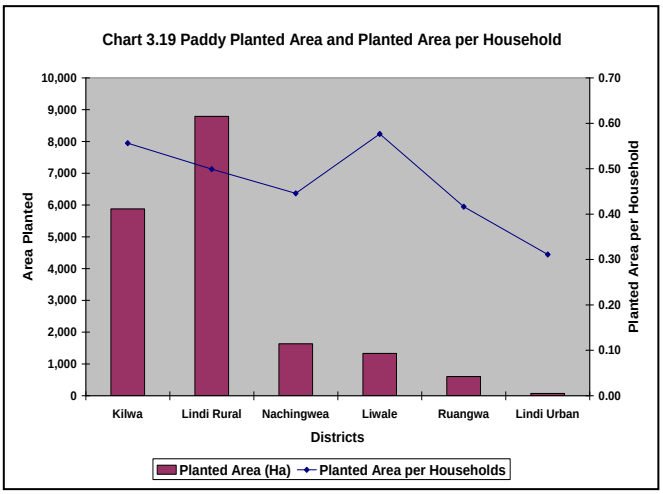
3.3.2.1.1 Maize



Maize was planted in all the districts (Chart 3.18 and Map 3.10) with Nachingwea having the largest planted area (29,571 ha, 38.8%) and number of households that planted the crop (, 36,678hh, 30.3% of the households growing maize) followed by Ruangwa 28,096hh, 23.2%) The areas planted with maize were smaller in the remaining districts, with Lindi Rural (12,743 ha, 10.6%), Liwale (7,776 ha, 6.4%), Kilwa 7,585 ha; 6.3%) and Lindi Urban (623 ha, 0.5%). Maize planted area per household was generally below one hectare (Map 3.11) and was the largest in Nachingwea (0.8 ha/household) and smallest in Lindi Urban (0.3 ha/household).

Maize yield in each district was below one tonne/ha and differences between districts were small (Map 3.10). However, it was the highest in Kilwa (0.96 t/ha), lowest in Lindi Urban (0.71 t/ha). The Maize planted area per growing household was generally small with Nachingwea having the largest (0.81 ha/household) in and Lindi Urban having the smallest (0.27 ha/household)

3.3.2.1.2 Paddy

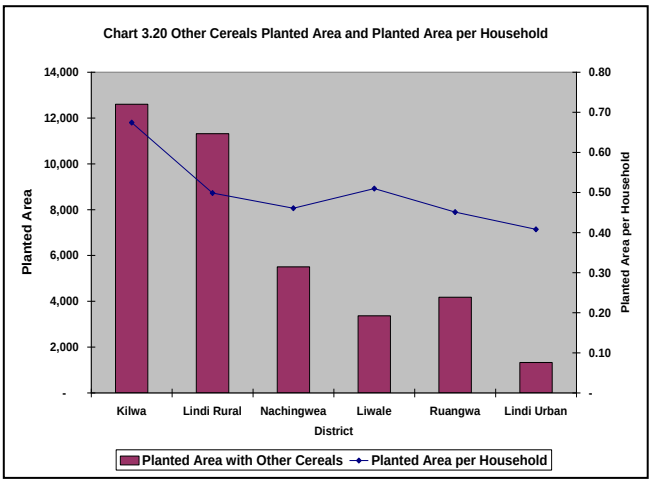


Paddy was planted in all the districts (Chart 3.19) on a total of 18,499 ha or 13.9 percent of the total 133,024 ha planted with cereals by a total of 36067 households 24.3 perent of the total 148,721households which grew crops-only in the region.

Lindi Rural and Kilwa districts were the major paddy producers. The two districts together, accounted for a total of 14,863 ha (80.3% of the total area planted with paddy in the region). Lindi Rural had the largest area planted with paddy (8,786 ha, 48%) followed by Kilwa (5,876 ha, 32.1%). Nachingwea, Liwale and Ruangwa districts had much smaller areas planted with paddy (601 -1634 ha) while Lindi Urban had the smallest area planted with the area planted with paddy (70 ha).

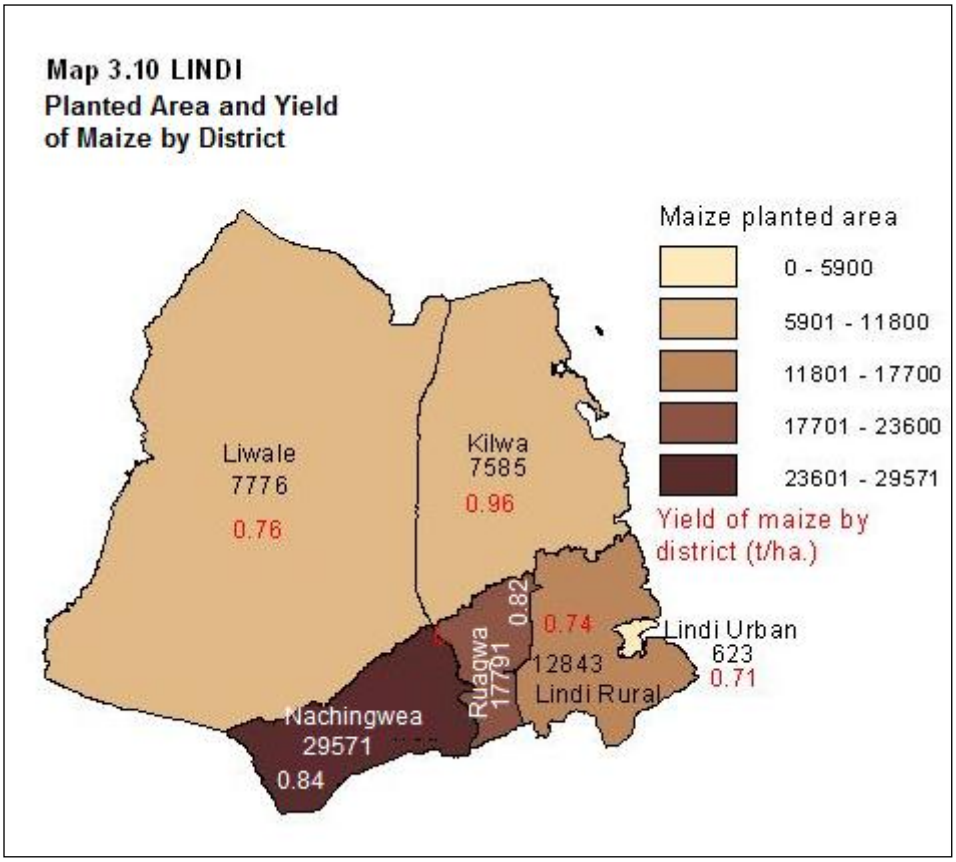
Lindi Rural district also had the largest number of paddy growing households (17,609 hh, 49.2%) followed by Kilwa (10,565 hh, 29.5%). Paddy production was done by a small number of households in the remaining districts with Lindi Urban having the smallest number of households. Planted areas per household were generally less than one hectare (Chart 3.19). The largest area per household was on an average of 0.6 ha for both Kilwa and Liwale districts while the smallest was in Lindi Urban district (0.3 ha/household).

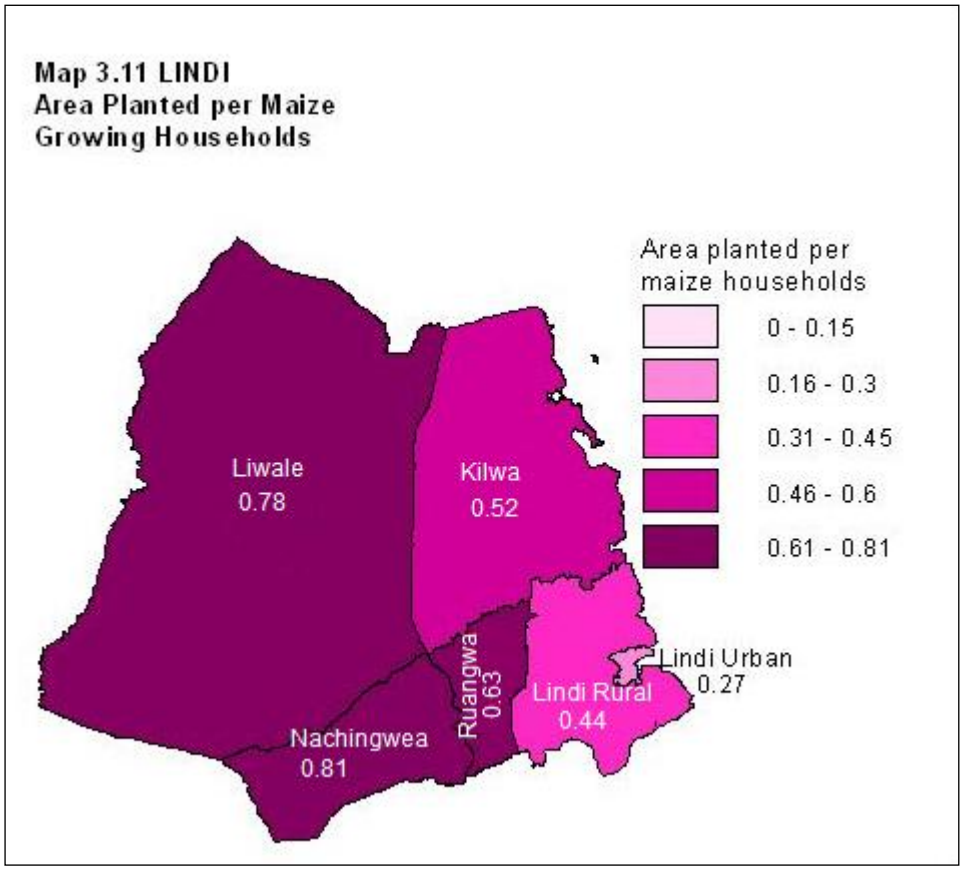
3.3.2.1.3 Other Cereals

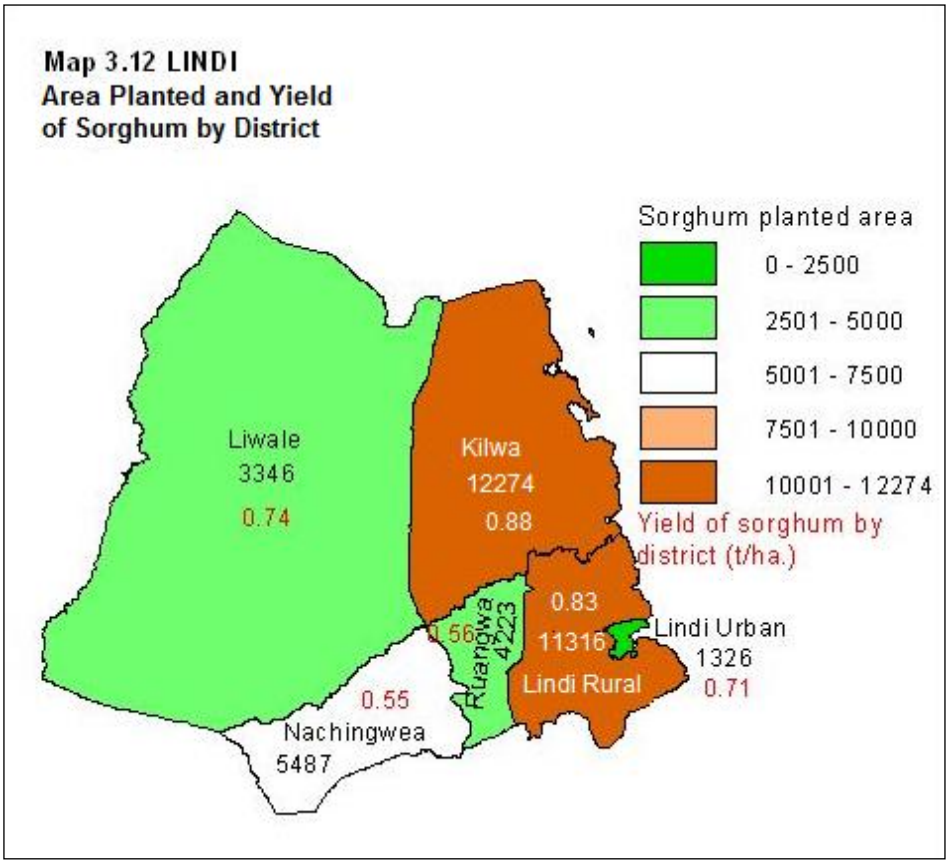


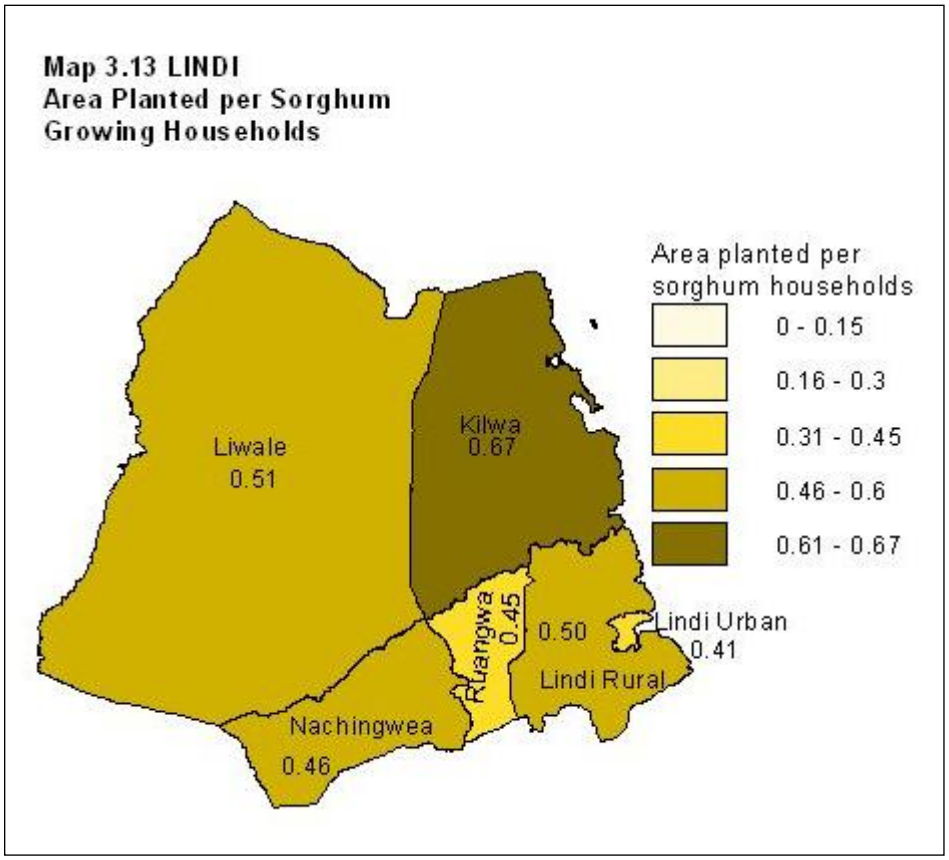
Other cereals (sorghum, bulrush millet, and finger millet) were planted in all the districts (Chart 3.20) on a total of 38,288 ha by a total of 72,625 households. Kilwa had the largest planted area (12,600 ha, 32.9% of the total area planted with other cereals) followed by Lindi Rural (11,316 ha, 29.6%). Smaller areas were planted with other cereals in Nachingwea, Liwale and Ruangwa and the smallest area was in Lindi Urban (1,236 ha, 3.2%). Planted areas per household were generally below one hectare for all the districts which ranged from 0.4 ha/household in Lindi Urban to 0.7 ha/household in Kilwa district.

Kilwa district had the largest area planted with sorghum (12,274ha,32.3%) and the largest (Chart 3.18 and Map 3.12) number of households that planted the crop (18,371hh, 25.5% of the total households growing sorghum) followed by Lindi Rural (22,693 hh,23.2%) . Othe areas planted with sorghum were in, Lindi Rural (11,316 ha, 29.8%) and Nachingwea (5,487 ha, 14.4%). The remaining districts had much smaller planted areas. Planted area per household was the smallest at in Lindi Urban (0.41ha/hh) and the largest in Kilwa (0.67 ha/hh) (Map 3.13)

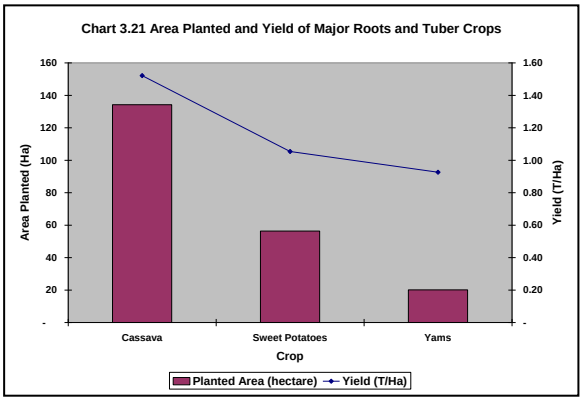

Map 3.10 LINDI
Planted Area and Yield
of Maize by District
Maize planted area
0 - 5900
5901 - 11800
11801 - 17700
17701 - 23600
23601 - 29571
Yield of maize by
district (t/ha.)
Liwale
7776
0.76
Kilwa
7585
0.96
Ruangwa
17791
0.82
0.74
12843
Lindi Rural
Lindi Urban
623
0.71
Nachingwea
29571
0.84


Map 3.11 LINDI
Area Planted per Maize
Growing Households
Area planted per
maize households
0 - 0.15
0.16 - 0.3
0.31 - 0.45
0.46 - 0.6
0.61 - 0.81
Liwale
0.78
Kilwa
0.52
Ruangwa
0.63
Lindi Rural
0.44
Lindi Urban
0.27
Nachingwea
0.81


Map 3.12 LINDI
Area Planted and Yield
of Sorghum by District
Sorghum planted area
0 - 2500
2501 - 5000
5001 - 7500
7501 - 10000
10001 - 12274
Yield of sorghum by district (t/ha.)
Liwale
3346
0.74
Kilwa
12274
0.88
0.83
11316
Lindi Rural
Lindi Urban
1326
0.71
Ruangwa
4223
0.56
0.55
Nachingwea
5487


Map 3.13 LINDI
Area Planted per Sorghum
Growing Households
Area planted per
sorghum households
0 - 0.15
0.16 - 0.3
0.31 - 0.45
0.46 - 0.6
0.61 - 0.67
Liwale
0.51
Kilwa
0.67
Ruangwa
0.45
0.50
Lindi Rural
Lindi Urban
0.41
Nachingwea
0.46

3.3.2.2 Roots and Tuber Crops Production



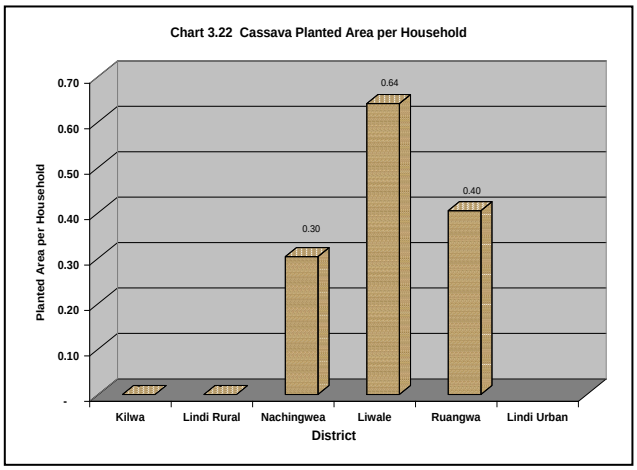
Roots and tuber crops were planted during both short and long rainy seasons by a limited number of households compared to the total crop-only households in the region (Table 3.2). A total of 680 households planted a variety of root crops of which cassava was planted by the largest number of households (287hh, 42.2%of the total households which planted root crops) followed by sweet potato (269hh, 39.6%) and yam (124 hh, 18.2%). Planted areas were relatively small for all roots and tuber crops produced in the region with cassava occupying the largest area (134 ha, 63.5%), followed by sweet potatoes (56 ha, 26.5%) and yams (20 ha, 9.5%), Chart3.21.

Table 3.2: Area, Production and Yield for Major Roots and Tuber Crops in Wet and Dry Season

Crop	Number of Households	Planted Area (hectare)	Quantity Harvested (tons)	Yield (t/ha)
Cassava	31,559	16,841	22,453	1.3
Sweet Potatoes	269	56	59	1.05
Yams	124	20	19	0.93
Total	**680**	**211**	**282**	

3.3.2.2.1 Cassava

The total area planted with cassava in the region was 16,841ha mostly in Kilwa, Nachingwea, Lindi Urban and Liwale districts (Chart 3.22) and a total of 31,559 growing households planted the crop. The largest planted area was in Kilwa district (4,836 ha, 29% of the total area planted with cassava in the region) while in Liwale, Ruangwa and Lindi Urban 2,241 ha (13%), Ruangwa 971 ha (6%) and Lindi Urban 441 ha (3%). respectively, were planted.

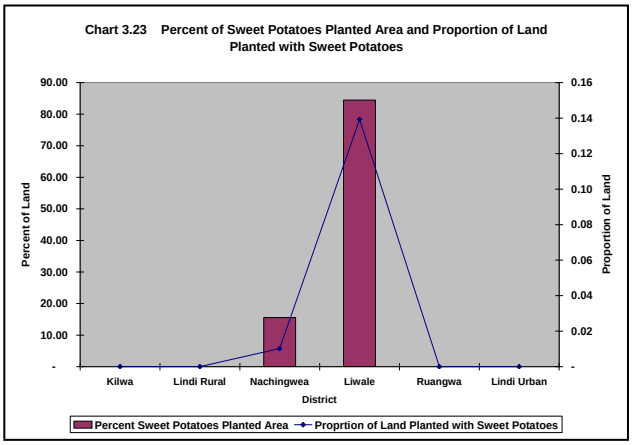


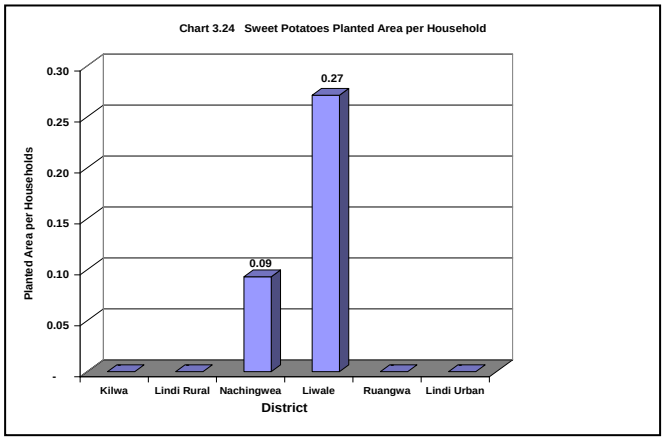
Generally, households planted less than a hectare of cassava in the range of 0.4 ha in nachingea to 0.8 ha in Liwale district (Chart 3.22).

The total harvested cassava roots were 22,453 tonnes of which the biggest proportion (4,901 tonnes, 22% of total harvested roots) was from Nachingweae district while Lindi Rural contributed 3,262tonnes (15%), Liwale 2,109 tonnes (9%).Ruangwa 1,078 tonnes (5%) and Lindi Urban 598 tonnes (3%). Yields were highly variable between districts. Lindi Urban gave the highest yield (1.4 t/ha) as compared to Nachingwea (1.1 t/ha) Liwale (0.9 t/ha) and Lindi Rural (0.8 t/ha). Nachingwea had the largest number of growing households (10,063 households, 32% of total growing households), followed by Lindi Rural (9,177 households, 29%), Liwale 2,718 households (9%), Ruangwa (2,278 households, 7%) and Lindi Urban 1,174 households (4%).

3.3.2.2.2 Sweet Potato

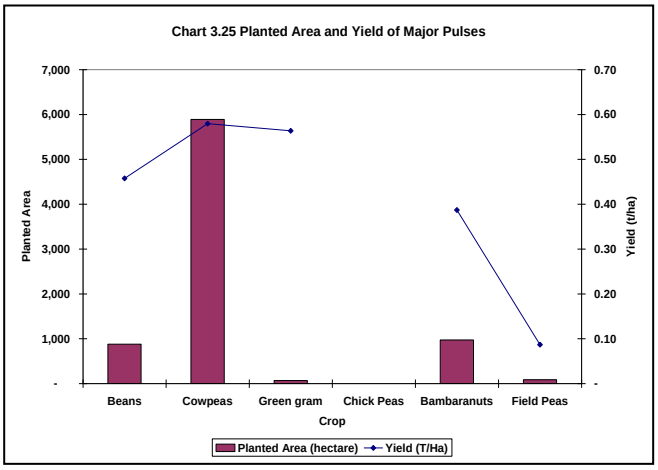
The total area planted with sweet potatoes in the region was 56 ha involving a total of 269 households. The crop had a small proportion of land for planting with a maximum of 0.14 in Liwale district (Chart 3.23). The largest planted area, 48 ha (85.7%) was in Liwale district and the remaining 14.3% of the planted area was in Nachingwea. Liwale had the highest yield (2.2 t/ha) as compared to Nachingwea (1.2 t/ha).





With regard to planted area per households, Liwale district had the largest area (0.27 ha/household) it also had the largest harvest (56tonnes, 95% of the total regional harvest).

3.3.2.3 Pulse Crops



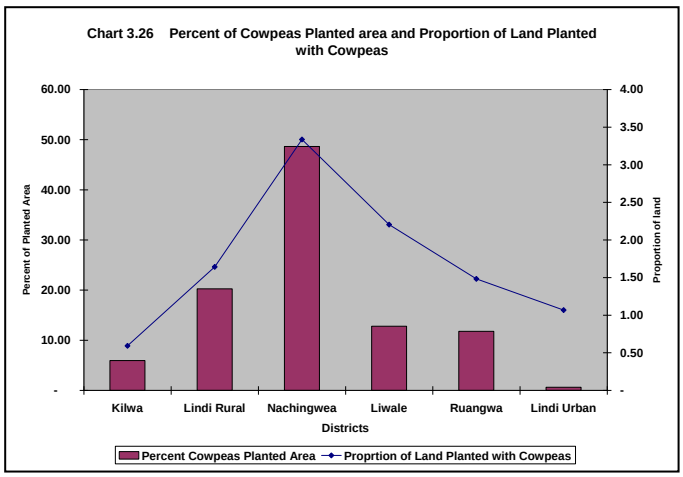
Pulses are leguminous crops that are primarily produced for grain used when dry. A total of 7,892 ha were planted with pulses in the region. The main pulse crop planted in Lindi region was cowpeas which were planted on 5,889 ha (74.6% of the total area planted with pulses) by the largest number of growing households (18,112ha, 72.9% of all households that planted pulses). Other pulses were bambaranus (971 ha, 12.3%) planted by 3,362 households (13.5%) and beans (877 ha, 11.1%) by 877 households (3.5%). Planted areas with field peas and green grams were very small or almost negligible, Chart 3.25.

Table 3.3: Area, Production and Yield of Major Pulses

Crop	Number of Household	Planted Area (hectare)	Quantity Harvested (tons)	Yield (T/Ha)
Beans	2,711	877	401	0.46
Cowpeas	18,112	5,889	3,413	0.58
Green gram	455	67	38	0.56
Bambaranuts	3,362	971	376	0.39
Field Peas	188	87	8	0.09
Total	24,829	7,892	4,236	0.54

Yields were the highest for cowpeas and green grams (0.6 t/ha each), 0.5 t/ha for beans and much less for other pulses The total harvested quantities were 4,236 tonnes of which cowpeas contributed 3,413tonnes (80.6% of total harvested pulses) and the remaining 19.4% was from other pulses Table 3.3

3.3.2.3.1 Cowpeas

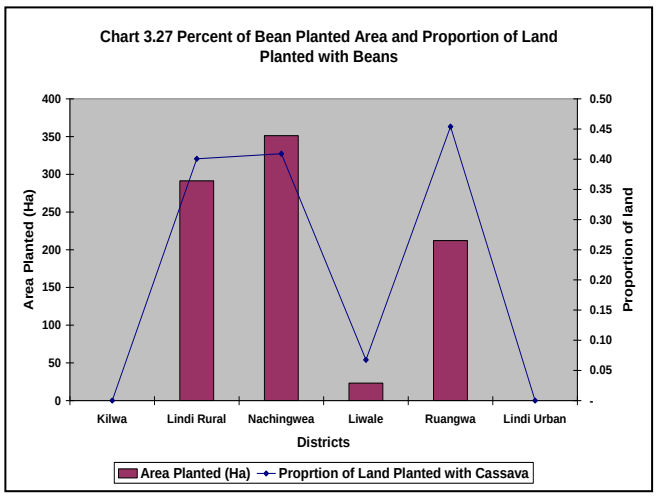


Cowpeas were planted on 5,889 ha (74.6 % of the total area planted with pulses) variably distributed in all the districts. The largest planted area was in Nachingwea district (2,864 ha, 48.6% of the total area planted with cowpeas) followed by Lindi Rural (1,193 ha, 20.3%), Liwale (753ha, 12.8%), Ruangwa and Kilwa (693ha, 11.8%) (350 ha, 5.9%). The crop was least important in Lindi Urban, (Chart 3.26)

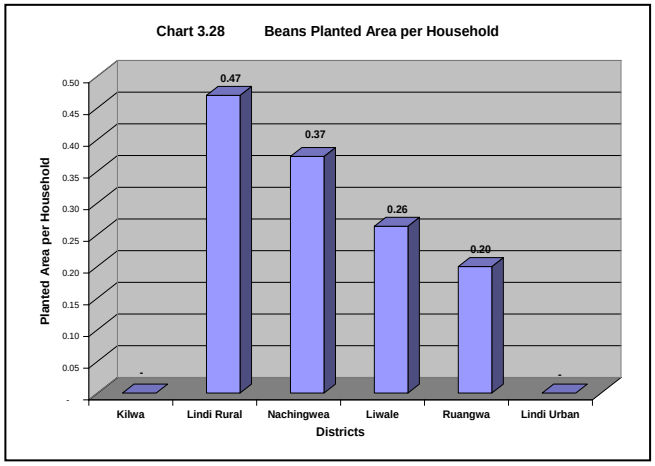
Nachingwea district had the largest proportion (30.3%) of land planted with cowpeas and largest harvest (1,762 tonnes, 51.6% of the total harvest in the region) with the remaining 48.4% produced largely by Ruangwa (565 tonnes, 16.6%), and Lindi Rural (559 tonnes, 16.4%). Cowpeas were generally planted on small holdings, the largest (0.4 ha/household) was in Nachingea and Lindi Rural and the smallest in Kilwa and Lindi Urban (0.2 ha/household).

3.3.2.3.2 Beans

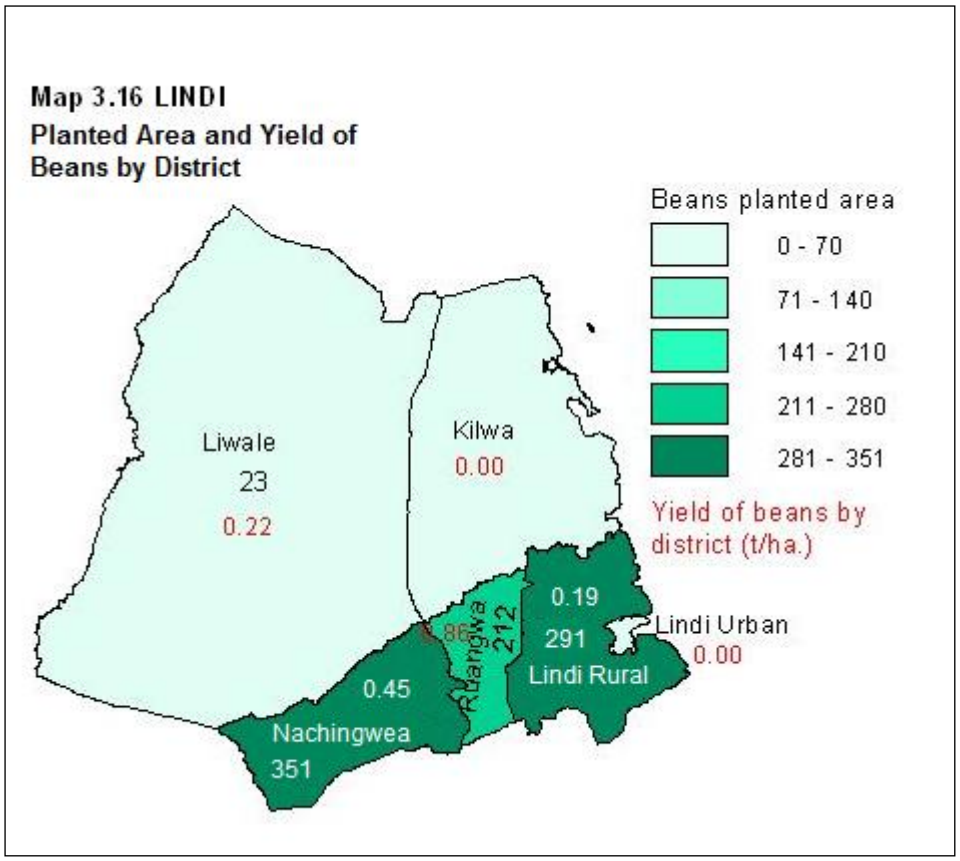
Beans were planted on a total of 877 ha (11.1% of the total area planted with pulses) 2,711 households (11%) of the total 24,829 households that planted pulses in the region. Beans were planted in Lindi Rural, Nachingwea, Liwale and Ruangwa on relatively small areas, (Chart 3.27 and Map 3.16). The area planted with beans was the largest in Nachingwea district with 351 ha (40% of the total area planted with beans) followed by Lindi Rural (291 ha, 33.2%) and Ruangwa (212 ha, (24.2%) while Liwale district had a relatively small area (23ha, 2.6%) planted with the crop. Beans were not planted in Kilwa and Lindi Urban districts.

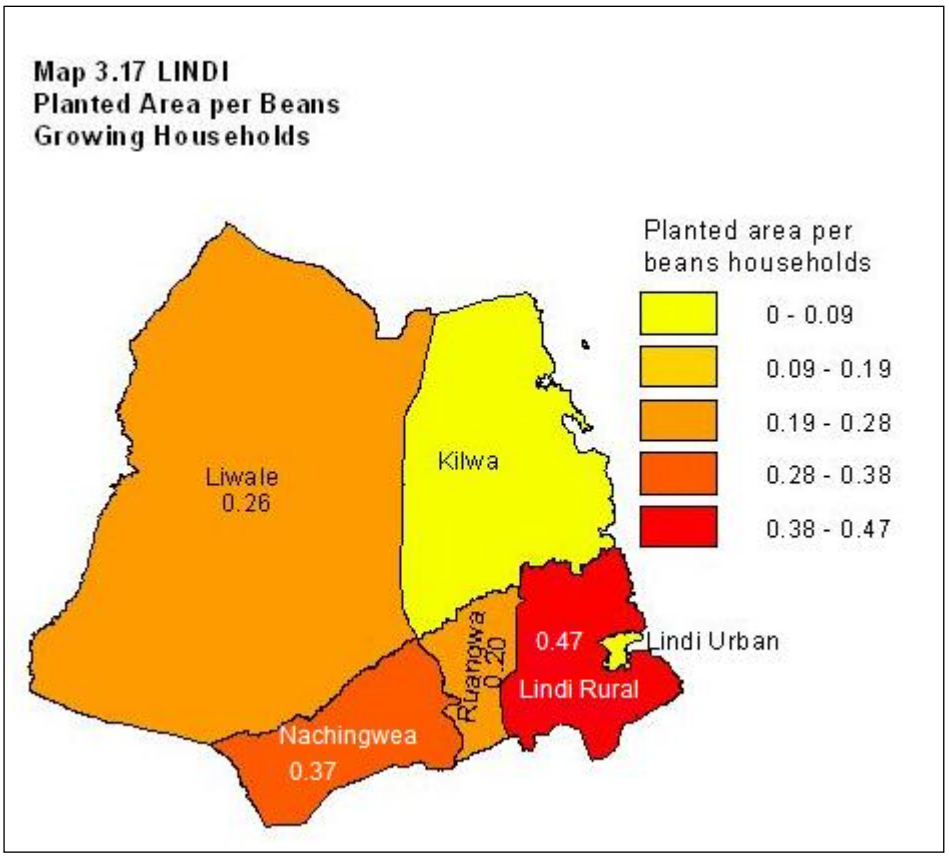


Planted areas per household were small (Chart 3.28 and Map 3.17) which did not exceed 0.5 ha/household. The largest planted area per household was in Lindi Rural district (0.5 ha/hh) and the smallest land planted area per household was in Ruangwa district (0.2 ha/hh).



A total of 401 tonnes of beans were harvested. Ruangwa had the largest harvest (183tonnes, 45.6%) followed by Nachingwea (158 tonnes, 39.4%) of the total harvested beans). Yields were variable with Ruangwa district having 0.9 t/ha, Nachingwea (0.5t/ha) while in other bean growing districts, yields were at an average of 0.2t/ha.

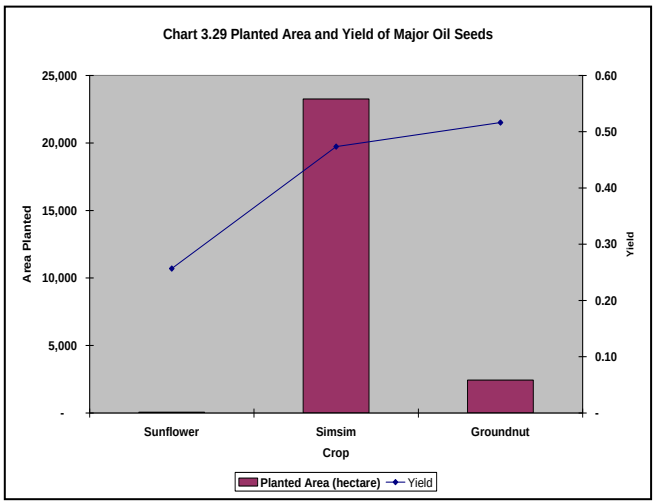

Map 3.16 LINDI
Planted Area and Yield of
Beans by District
Beans planted area
0 - 70
71 - 140
141 - 210
211 - 280
281 - 351
Yield of beans by
district (t/ha.)
Liwale
23
0.22
Kilwa
0.00
0.19
291
Lindi Rural
Lindi Urban
0.00
Ruangwa
212
0.45
Nachingwea
351


Map 3.17 LINDI
Planted Area per Beans
Growing Households
Planted area per
beans households
0 - 0.09
0.09 - 0.19
0.19 - 0.28
0.28 - 0.38
0.38 - 0.47
Liwale
0.26
Kilwa
0.47
Lindi Rural
Lindi Urban
Ruangwa
0.20
Nachingwea
0.37

3.3.2.4 Oil Seeds and Oil Nuts Production

A total of 25,743 ha (equivalent to 8.5% of the total 302,044 ha planted area in the region), were planted with oil seed and oil nut crops. The largest area (23,252 ha, 90.3%) of the total area planted with oil seed crops was planted with simsim, and (2,432 ha, 9.4%) was planted with groundnuts. Sunflower was a minor oil seeds and oil nuts crop (0.3% of planted area).

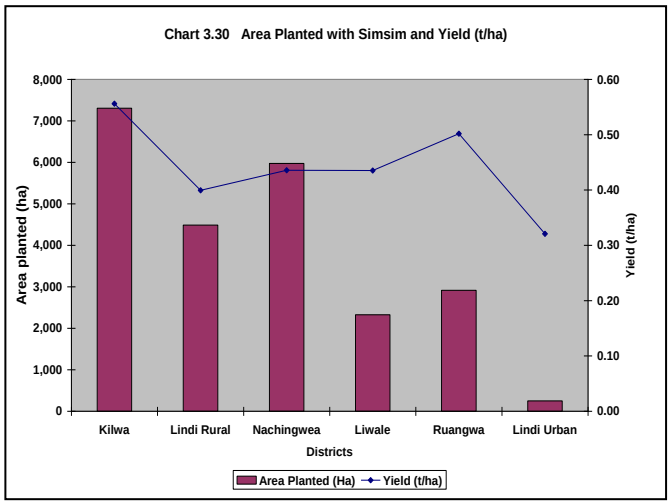
Productivity was generally low (Chart 3.29) but was relatively higher for groundnut (0.52 t/ha) as compared to simsim (0.47 t/ha) and sunflower (0.26 t/ha). The harvested quantities for oil seeds and oil nuts crops were 12,281 tonnes of which simsim had the largest proportion (11,010 tonnes, 89.7%) followed by groundnuts (1,256 tonnes 10.2%).



The majority of the households (, 48,908 hh, 88.3%households of the total 55,415 households that planted oil seed crops) planted simsim, while groundnut was planted by 6,318 households or 11.4 percent of the of oil seed and oil nut growers.

3.3.2.4.1 Simsim Production

The area planted with simsim in Lindi region was 23,252 ha, equivalent to 90.3% of the 25,743 ha planted with oil seed and oil nut crops. Simsim was planted in all the districts (Chart 3.30 and Map 3.18) by a total of 48,908 households. Planted land areas were larger than 1,000 hectares in each district except Lindi Urban where only 80 ha (0.34% of the planted area). Yield was the lowest in Lindi Urban (0.32 t/ha) and the highest in Kilwa (0.56 t/ha).

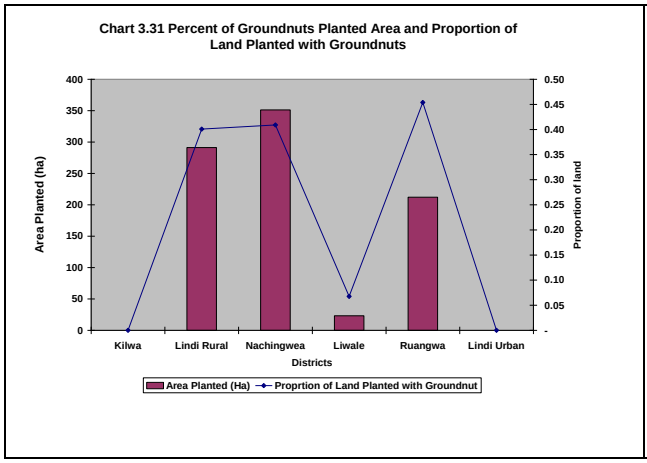


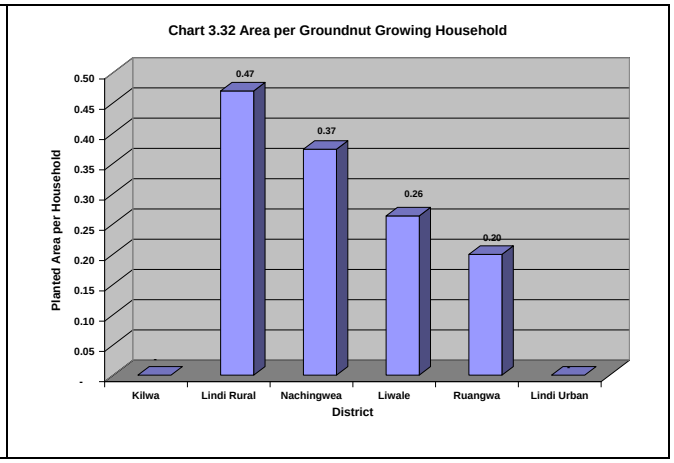
Kilwa district had the largest planted area (7,304 ha, 31.4% of the total planted area in the region) and had the largest proportion of land planted with the crop (12.4% of total planted area in the district). However, the total planted area in Kilwa, Lindi Rural and Nachingwea districts was equivalent to 76.4% (17,762 ha) of the total planted area in the region.

Nachingwea had the largest number of simsim growing households (14,295 hh, 25.8%) followed by Kilwa district (11,432 hh, 20.6%) and Lindi Rural (11,409 hh, 20.6%). Growing households were slightly lower in Ruangwa (6,910hh, 12.5%), Liwale (4,004hh, 7.2%) and lowest in Lindi Urban (858hh, 1.5 %). Planted area per household (Map 3.19) was the largest in Kilwa (0.64 ha/hh), intermediate in Liwale (0.58 ha/hh) and smallest in Lindi Urban (0.29 ha)

3.3.2.4.2 Groundnut Production

The land area planted with groundnuts in the region was 2,432 ha planted mostly in Lindi Rural district (1180 ha, 48.5% of the area planted with groundnuts in the region), followed Nachingwea (564ha, 23.2%) and Liwale (240 ha, 9.9%).



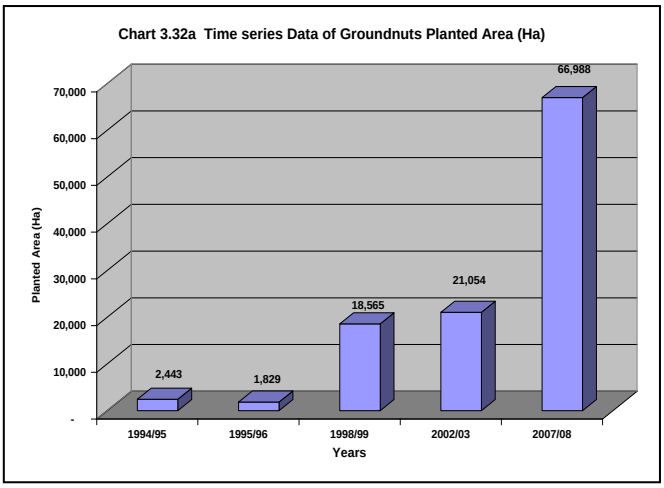


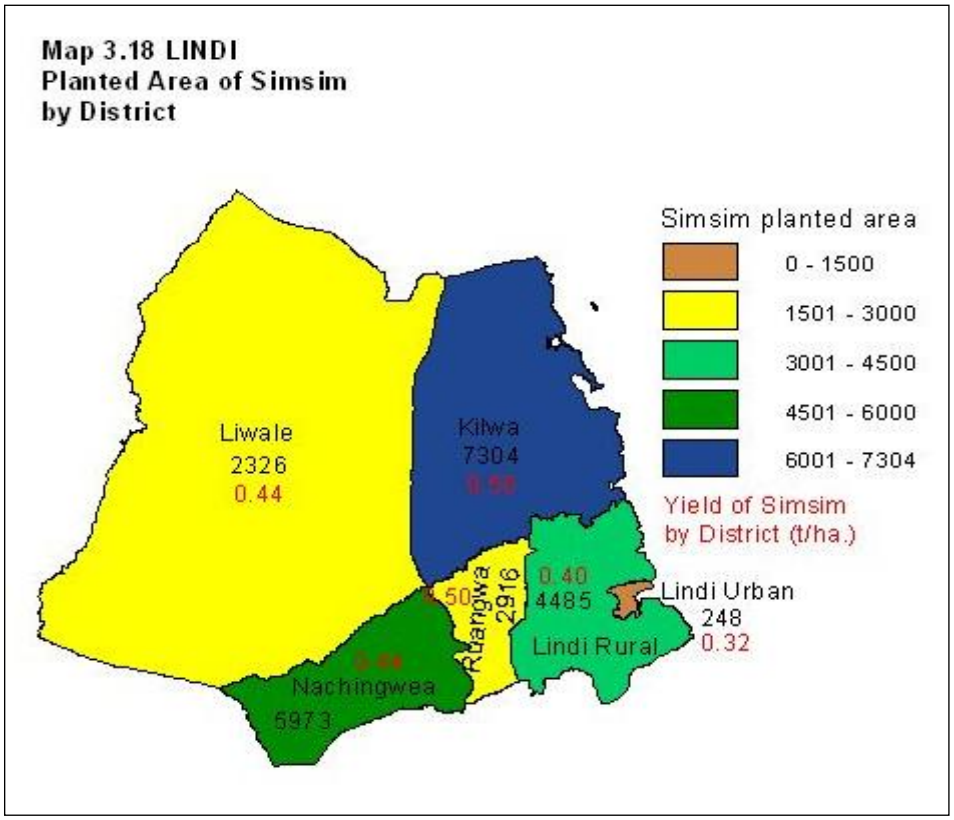
Liwale district had the yield in Liwale (0.78 t/ha) and followed by Ruangwa (0.67 t/ha) and Lindi Urban (0.59t/ha). Kilwa did not produce despite having a planted area (Table 3.4). Planted areas per household (Chart 3.32) was the smallest in Lindi Urban (0.1 ha/household) and the largest in Liwale (0.43 ha/household). Planted areas per household in other districts were generally not significant.

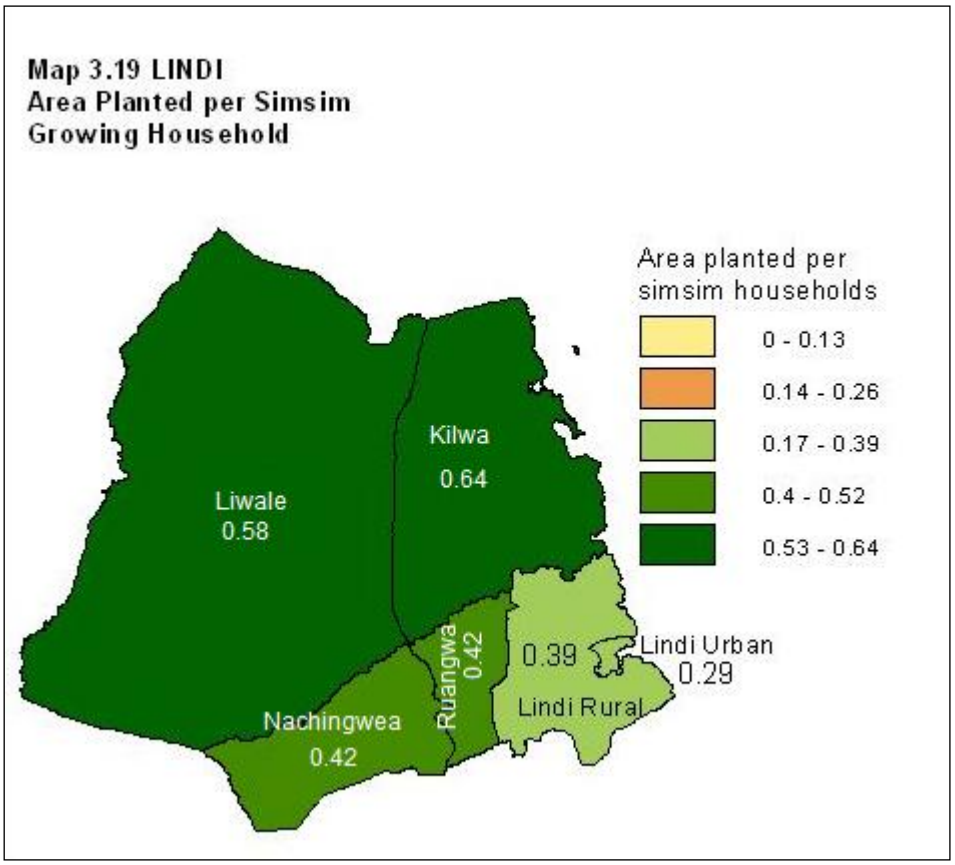
Table 3.4: Percent of Groundnuts Planted Area and Planted Area per Household

District	Number of Households	Area Planted (Ha)	Quantity Harvested (T)	Yield (T/ha)	Total Planted Area	Percentage of Groundnut Planted Area	Proportion of Land Planted with Groundnut	Planted Area per Household
Kilwa	0	0	0	0.00	33,768	-	-	-
Lindi Rural	2,728	1180	481	0.41	40,646	48.5	2.9	0.43
Nachingwea	1505	564	266	0.47	47,573	23.21	1.21	0.37
Liwale	994	432	338	0.78	16,248	17.7	2.7	0.43
Ruangwa	911	240	160	0.67	27,316	9.9	0.9	0.26
Lindi Urban	181	17	10	0.59	2,329	0.7	0.7	0.10
Total	6,318	2432	1256	0.52	167,884	100.00	1.4	0.38

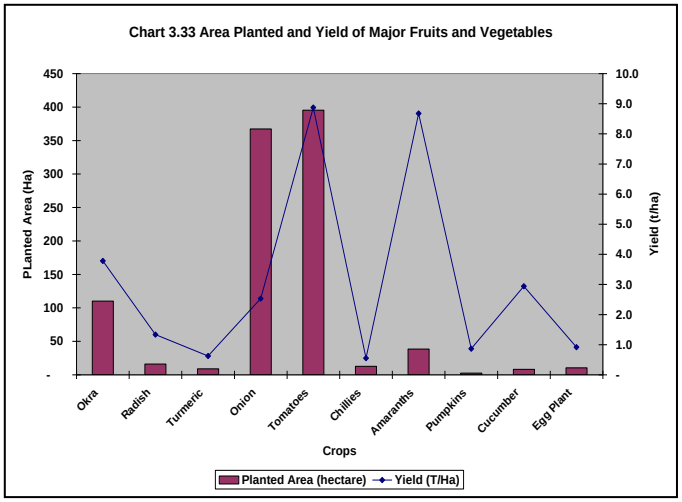
The general trend in groundnut planted area shows less than 3,000 ha were planted between 1984 and 1996. During 1998/99 planting season, groundnut planted area increased by 915% (18,686 ha) compared to 1996/98 when only 1,829 ha were planted (Chart 3.32a). Between 1998/99 and 2002/03, the planted area increased slightly before recording a 218% increase from 21,064 ha in 2002/03 to 66,988 ha in 2007/08. The planted area during 2007/08 was slightly more than three times the area planted in 2002/03 impling an increased importance of groundnut as a food and commercial crop.




Map 3.18 LINDI
Planted Area of Simsim
by District
Simsim planted area
0 - 1500
1501 - 3000
3001 - 4500
4501 - 6000
6001 - 7304
Yield of Simsim
by District (t/ha.)
Liwale
2326
0.44
Kilwa
7304
Ruangwa
2916
0.40
4485
Lindi Urban
248
0.32
Lindi Rural
Nachingwea
6973


Map 3.19 LINDI
Area Planted per Simsim
Growing Household
Area planted per
simsim households
0 - 0.13
0.14 - 0.26
0.17 - 0.39
0.4 - 0.52
0.53 - 0.64
Kilwa
0.64
Liwale
0.58
Ruangwa
0.42
0.39
Lindi Urban
0.29
Lindi Rural
Nachingwea
0.42

3.3.2.5 Fruits and Vegetables



A wide range of fruits and vegetables, mostly the annual or temporary crop types, were planted in Lindi region with tomato and onion being the two most dominant vegetable crops. The area planted with tomato was 395 ha, equivalent to 40.8% of the area planted with fruits and vegetables. The area planted with onion was 365 ha was equivalent to 37.7% of the total area planted with fruits and vegetables (Chart 3.33). Other popular fruits and vegetable crops planted in the region were okra (110 ha) and amaranths (38 ha) while radish chillies, tumeric, pumpkins, cucumber and egg plant were planted on land areas less than 20 ha each.Table 3.5

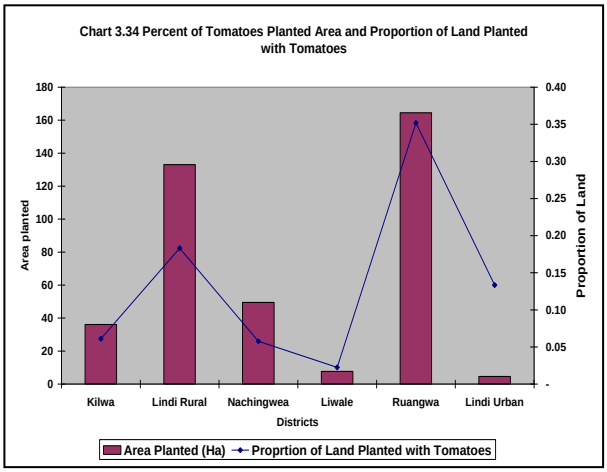
The distribution of growing households followed a similar trend to the planted areas whereby the largest number of growing households (1,629hh, 38.2% of total growing households) planted tomato, 1,396 households (32.8%) planted onion, 479 households (11.2%) planted okra and 312 households (7.3%) planted amaranths (Table 3.5).

Table 3.5: Area, Production and Yield of Fruits and Vegetables

Crop	Number of Household	Planted Area (ha)	Quantity Harvested (tons)	Yield (t/ha)
Okra	479	110	416	3.8
Radish	74	16	21	1.3
Turmeric	29	9	6	0.6
Onion	1,396	367	929	2.5
Tomatoes	1,629	395	3,507	8.9
Chillies	124	13	7	0.6
Amaranths	312	38	334	8.7
Pumpkins	29	2	2	0.9
Cucumber	94	8	24	2.9
Egg Plant	94	10	9	0.9
Total	**4,261**	**969**	**5,255**	

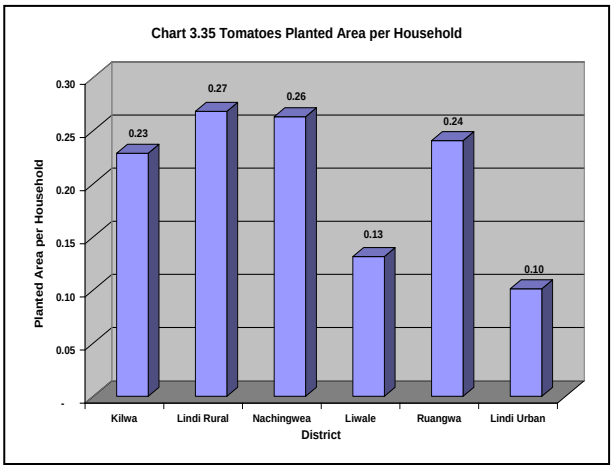
Tomato had the yield (8.9 t/ha), followed by amaranths (8.7 t/ha) while other fruits and vegetable crops had much lower yields, (Table 3.5). The fruit and vegetable crops that contributed significantly (Table 3.5) to the total harvested produce (5,255 tonnes) were tomatoes (3,507 tonnes,

66.7% of total harvested produce), onion (929 tonnes, 17.7%), okra (416 tonnes, 7.9%) and amaranths (334 tonnes, 6.4%).



3.3.2.5.1 Tomato

Tomato was the most important vegetable crop planted planted in all the districts (Chart 3.34). The total planted area (Map 3.20) was 395 ha predominantly in Ruangwa (164 ha, 41.5% of the total area planted with tomato in the region) and Lindi Rural (133 ha, 33.7%). The number of households that planted tomato was also the highest in Ruangwa (683 hh, 41.9%) followed by Lindi Rural (496 hh, 30.4%).



District which had at least 5% of the total area planted with tomatoes in the region were Nachingwea (49 ha, 12.5%) and Kilwa (39 ha, 9.1%). Tomato production had small district proportions of land area. The largest proportion of land area was in Ruangwa (0.35) followed by Lindi Rural (0.18) and much smaller land area in all other districts (Chart 3.34). Planted area per household was relatively small within the range of 0.1 ha/household in Lindi Urban to 0.28 ha/household in Nachingwea (Chart 3.35 and Map 3.21).

The productivity was highly variable between districts (Map 3.20) with the highest yield (22.8 t/ha) in Liwale district and the lowest recorded in Kilwa (0.8 t/ha). However, the total harvested quantity of tomatoes was 3,507 tonnes of which Lindi Rural had1, 739 tonnes, (49.6%) and Ruangwa1, 335 tonnes, (38.1%).

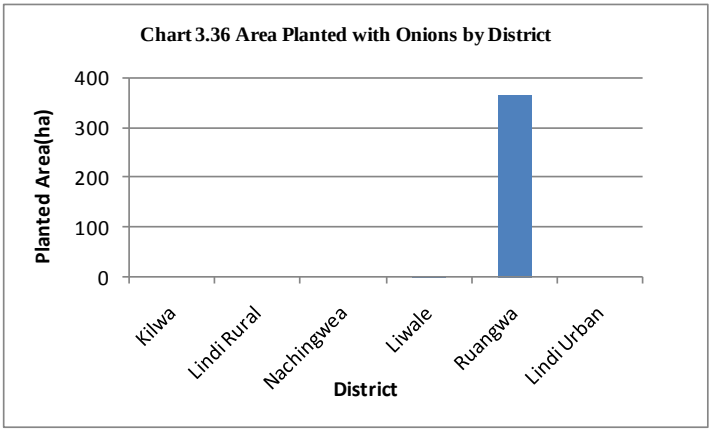
The 2007/08 data indicates that while tomato remained the vegetable crop planted on the largest area amongst the fruits and vegetable crops, as was the case in 2002/03, pumpkins which in 2002/03 were planted on 263 ha (27.8% of the area planted with fruits and vegetables), had declined in popularity and in 2007/08 had dropped to a non-significant status with very small planted area of just 2 ha planted by a total of 29 households in the region.

3.3.2.5.2 Pumpkin

Pumpkins was a relatively minor crop planted only in Liwale district on a total of 2 hectares with an average farm size of 0.08 ha/household

3.3.2.5.3 Onions

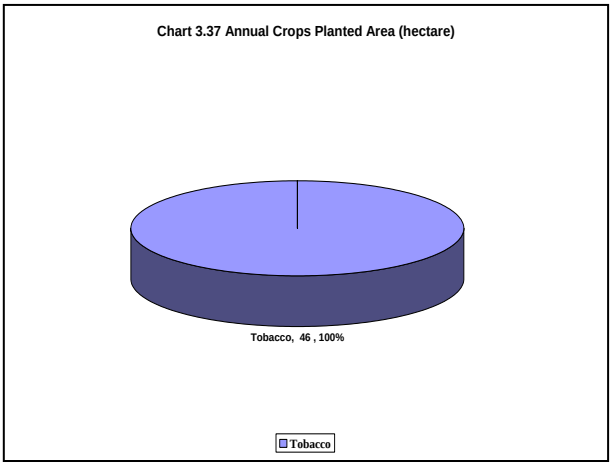
Onions were planted on a total of 367 ha of which, 364 ha (99.2%) were planted in Ruangwa district and the remaining area (3 ha) in Liwale (Chart 3.36 and Map 3.22). Similarly, the growing households were predominantly in Ruangwa district (1,367 hh or 97.9% of the total 1396 households that planted the crop in the region) with small holdings averaging at 0.27 ha/household (Map 3.23).

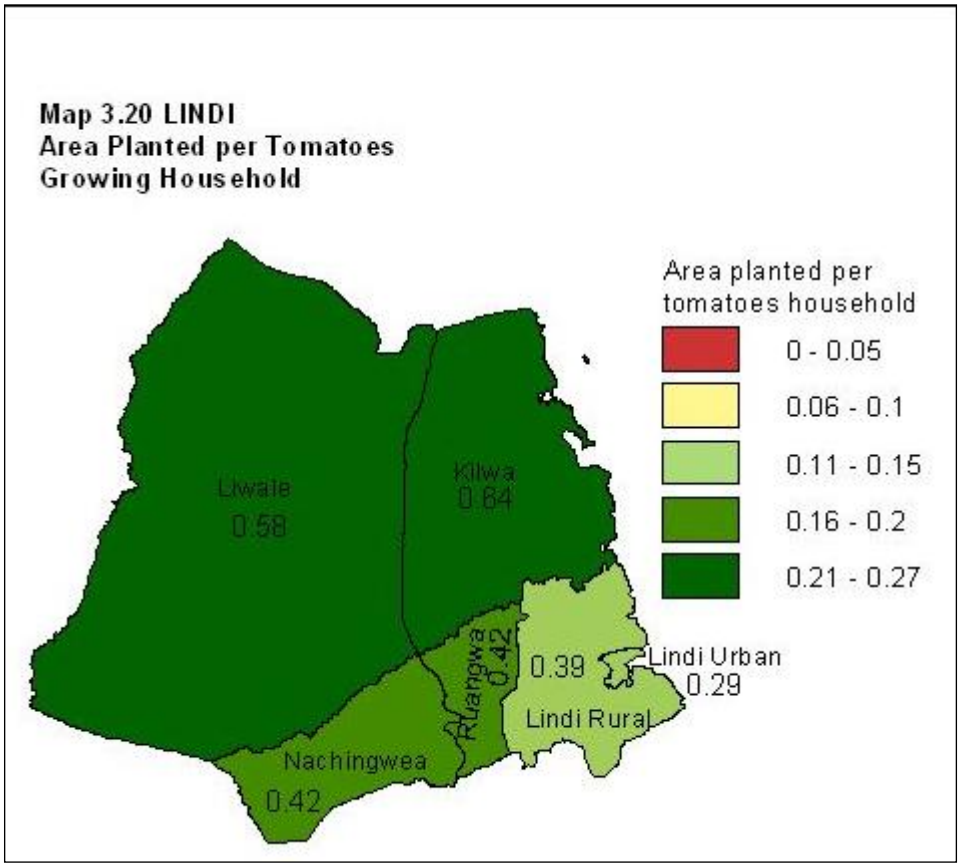


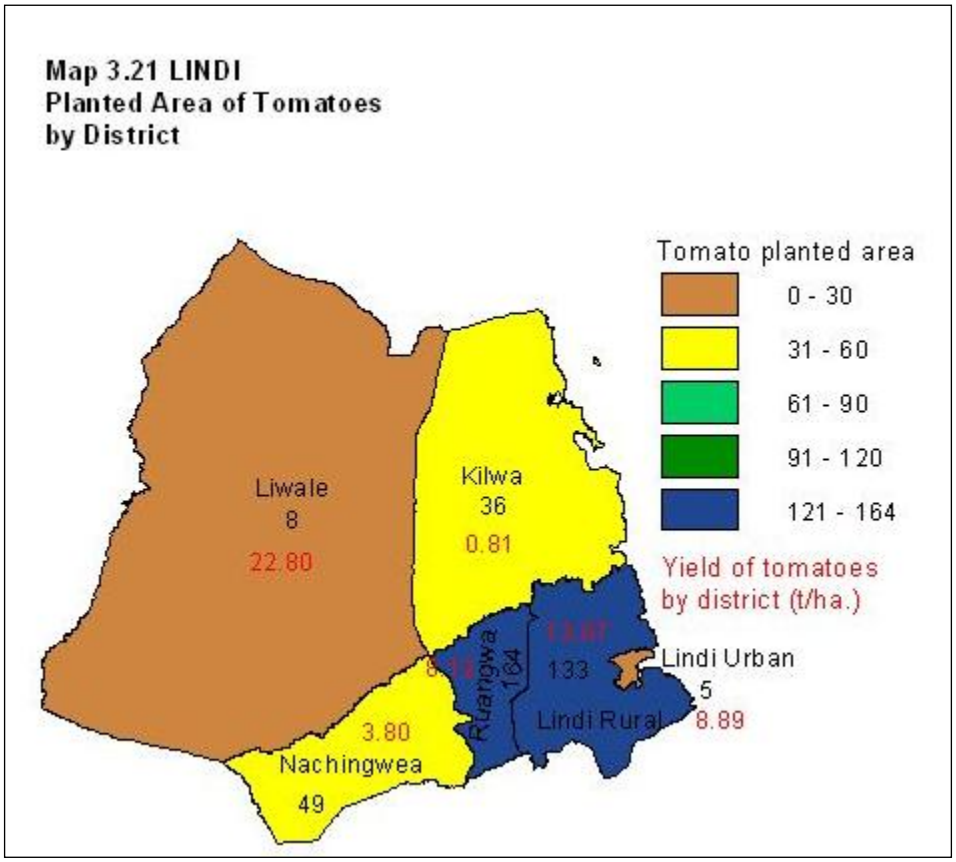
The total harvested quantities were 928.8 tonnes obtained mostly in Ruangwa district (925.9 tones, 99.7%).

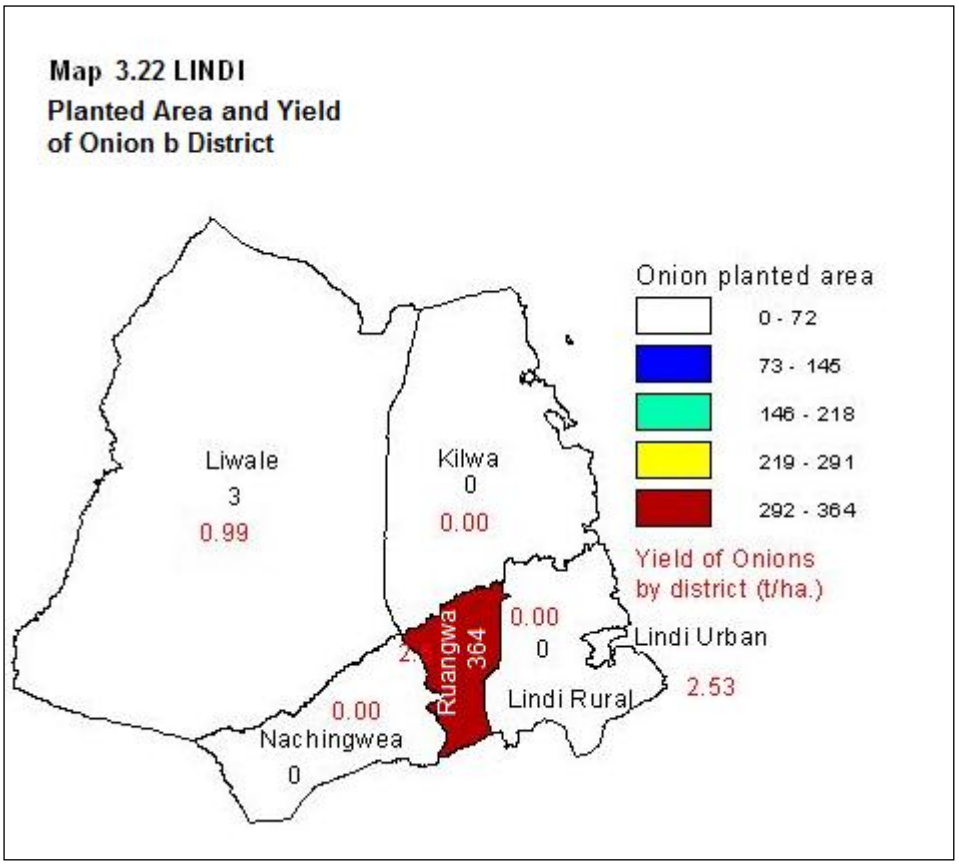
3.3.2.6 Production of Other Annual Crops

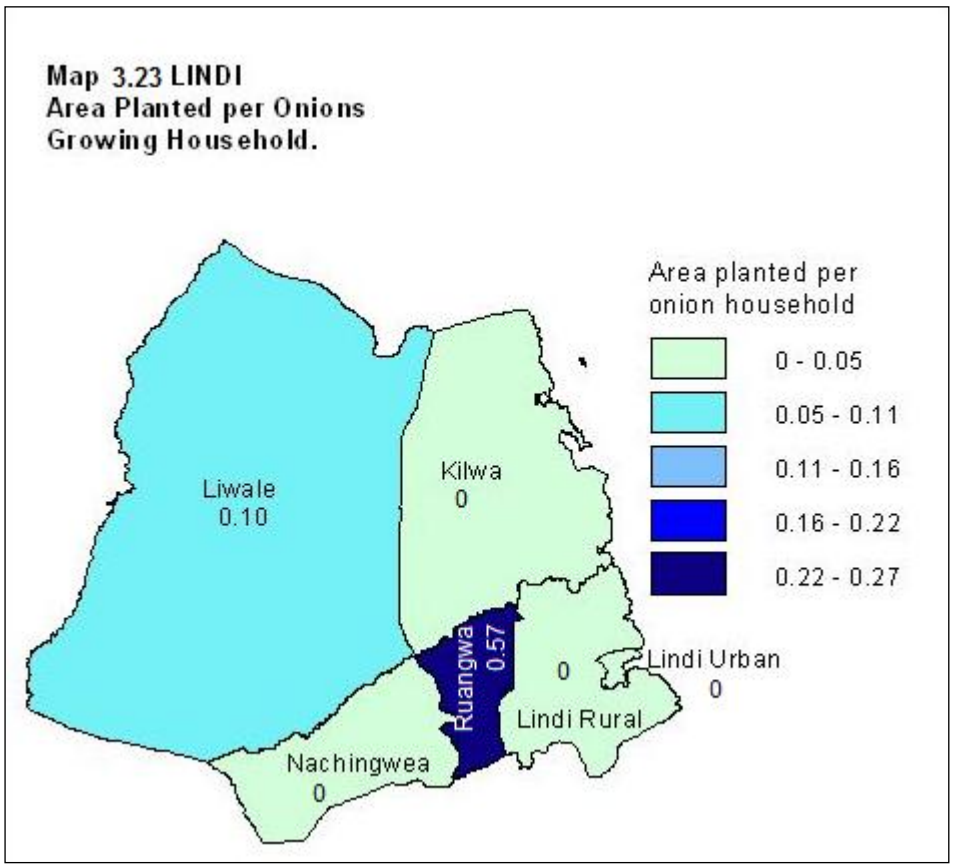
The only other annual crop planted in the region, was tobacco (also regarded as cash crop) planted on a very small area of 46 ha (Chart 3.37).




Map 3.20 LINDI
Area Planted per Tomatoes
Growing Household
Area planted per
tomatoes household
0 - 0.05
0.06 - 0.1
0.11 - 0.15
0.16 - 0.2
0.21 - 0.27
Liwale
0.58
Kilwa
0.64
Ruangwa
0.42
0.39
Lindi Urban
0.29
Lindi Rural
Nachingwea
0.42

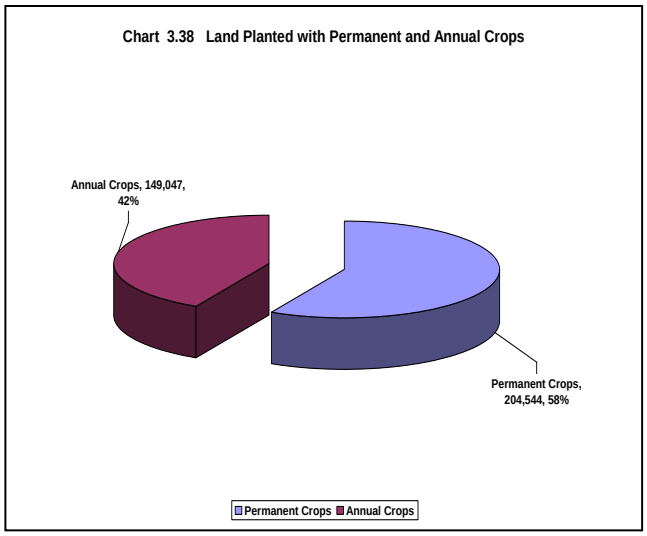

Map 3.21 LINDI
Planted Area of Tomatoes
by District
Tomato planted area
0 - 30
31 - 60
61 - 90
91 - 120
121 - 164
Yield of tomatoes
by district (t/ha.)
Liwale
8
22.80
Kilwa
36
0.81
Ruangwa
164
133
Lindi Urban
5
8.89
Lindi Rural
3.80
Nachingwea
49


Map 3.22 LINDI
Planted Area and Yield
of Onion b District
Onion planted area
0 - 72
73 - 145
146 - 218
219 - 291
292 - 364
Yield of Onions
by district (t/ha.)
Liwale
3
0.99
Kilwa
0
0.00
Ruangwa
364
0.00
0
Lindi Urban
2.53
Lindi Rural
0.00
Nachingwea
0


Map 3.23 LINDI
Area Planted per Onions
Growing Household.
Area planted per
onion household
0 - 0.05
0.05 - 0.11
0.11 - 0.16
0.16 - 0.22
0.22 - 0.27
Liwale
0.10
Kilwa
0
Ruangwa
0.57
0
Lindi Urban
0
Lindi Rural
Nachingwea
0

3.4 Permanent Crops

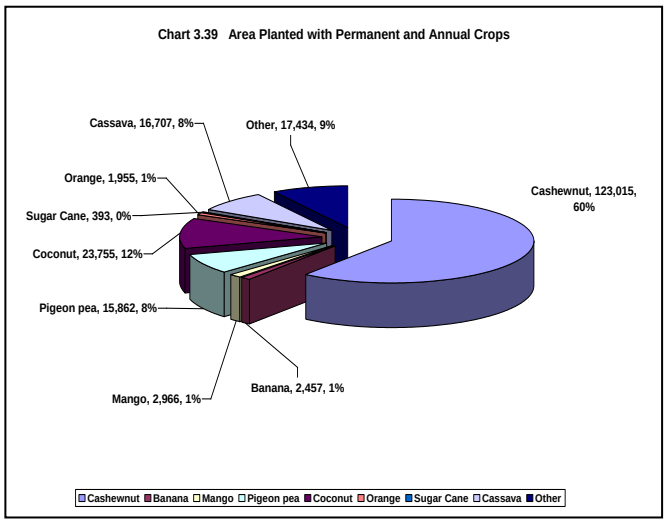
The allocation of land between annual and perennial crops (Chart 3.38) was slightly more for perennial (204,544 ha, 58%) compared to annual (149,047 ha, 42%). Perennial crops comprise a type of crops that normally require more than one season or year to mature and produce and would continue to do so for a number of seasons or years. Hence, in this report, perennial is synonymously used with permanent crops.



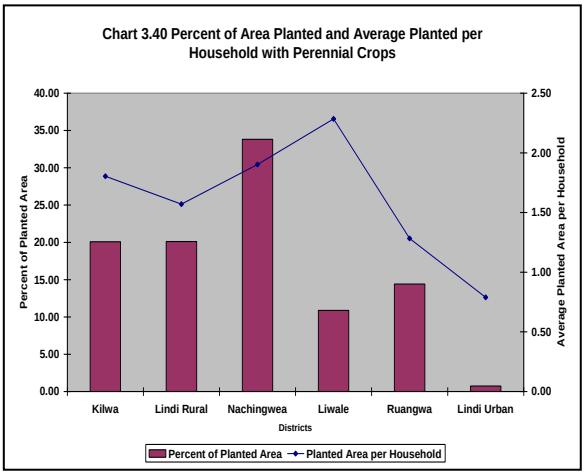
However, included under perennial crops, are crops that would normally mature and produce within one growing season or one year but they are able to remain in the field and continue producing over several seasons. Examples of crops of this nature include banana, pigeon pea and cassava.

A wide range of perennial crops were planted of which, cashewnut was planted on the largest area (123,015 ha, 60% of the total area planted with permanent crops).

Other perennial crops that occupied at least 5% of the planted area were coconut (23,755 ha, 12%), pigeon peas (15,862 ha, 8%) and cassava (16,707 ha, 8%). On the other hand, perennial crops planted on much smaller areas, were mango, banana, orange and sugarcane.



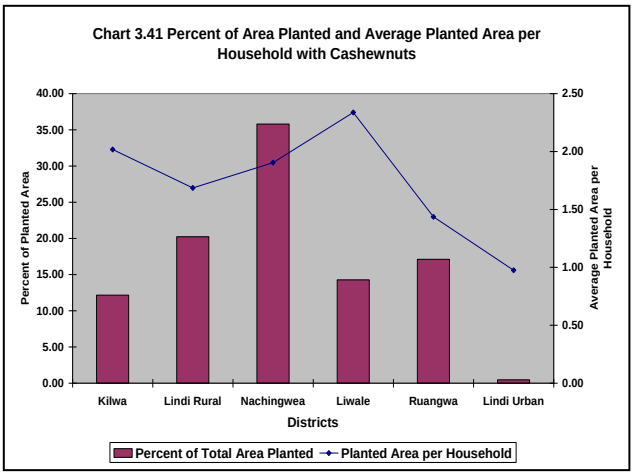
Nachingwea district (Chart 3.40) had the largest area planted with perennial crops (63,507 ha, 33.8% of the total planted area) by 33,386 households (30.3% of the total number of households that planted perennial crops). Other major districts with perennial crop production were Lindi Rural (37,759 ha, 20%) and Kilwa (37, 693 ha, 20%), and engaging 21.8% and 19% of the total growing households, in Lindi and Kilwa districts respectively (Chart 3.40). Liwale and Ruangwa districts had between 10% and 15% of their areas planted with perennial crops while Lindi Urban district had less than 1% of the area planted with perennial crops.



The land area planted with perennial crops was the largest in Liwale (2.28 ha/household) and was the only district where at least 2 ha/hh were allocated to this category of crops. Lindi Urban had the smallest land area planted with perennial crops (0.8 ha/household) while in the remaining districts, individual households planted perennial crops on land areas rangingfrom 1.3 to 1.9 ha (Chart 3.40).

3.4.1 Cashewnut

Nachingwea was the most important district for cashewnut production in Lindi region. The total area planted with cashewnut in the region was 123,015 ha of which, 44,026 ha (35.8% of the total planted area) was in Nachingwea district (Chart 3.41, Map 3.25). All other districts, except Lindi Urban where cashewnut production was insignificant, had between 14,000 and 25,000 ha equivalent to between 12% and 20% of the total area planted with cashewnut in the region. Planted area per household was the largest in Liwale district (2.3 ha/household) and the smallest in Lindi Urban (1 ha/household), (Map 3.26).



3.4.2 Pigeon Peas

Pigeon were planted in all the districts and Kilwa had the largest proportion of the total district land area planted with this crop (Table 3.6). However, the largest planted area (Table 3.6, Chart 3.42 and Map 3.27) was in Nachingwea (8,971 ha, 56.6% of the total atea planted with pigeon peas in the region), followed by Ruangwa (4,450 ha, 28.1%) and Lindi Rural (1,077 ha, 6.8%). Pigeon peas were planted on small plots in the range of 0.3 to 0.41 ha/household (Chart 3.42 and Map 3.28).

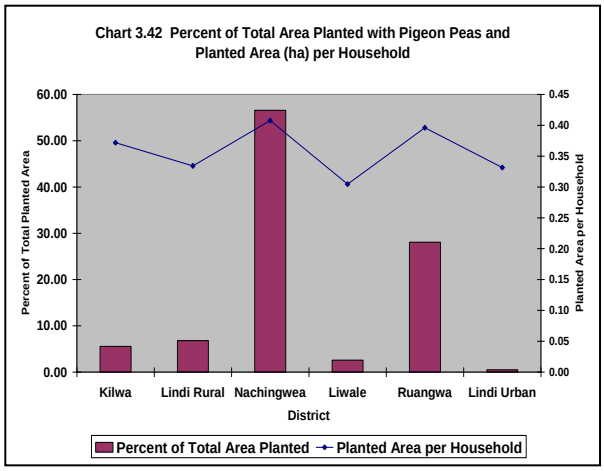
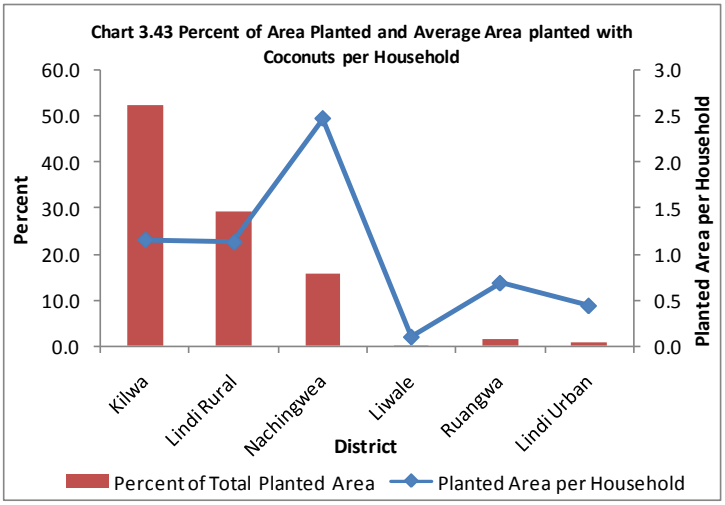


Table 3.6: Percentage of Area Planted and Average Planted Area with Pigeon peas

District	Number of households	Area Planted (ha)	Percentage of Total Area Planted with Pigeon Peas
Kilwa	2,365	879	48.44
Lindi Rural	3,224	1,077	20.82
Nachingwea	22,007	8,971	19.51
Liwale	1,344	409	5.44
Ruangwa	11,238	4,450	3.9
Lindi Urban	226	75	1.89
Total	**40,405**	**15,862**	**100**

3.4.3 Coconut

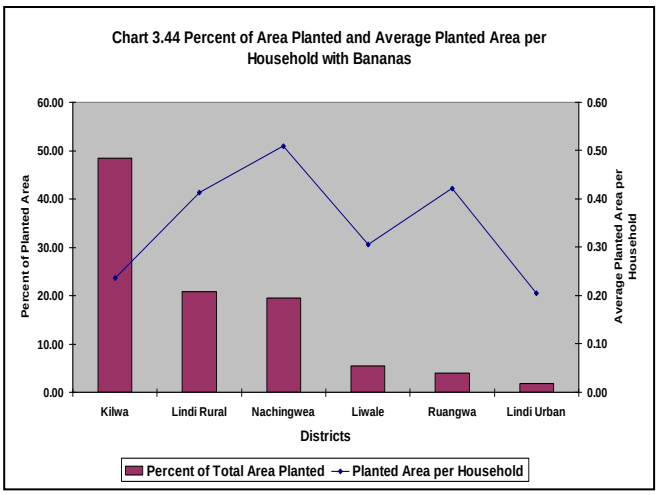
Coconut was planted in all the districts in variable proportions. Kilwa district had the largest planted area (12,469 ha, 52.5% of the total planted with coconut in the region). Other districts with substantial planted areas (Map 3.29) were Lindi Rural (6,997 ha, 23.5%) and Nachingwea (3,724 ha, 14.4%). The remaining three districts had 9.4% of the total planted area with coconuts with Liwale having a negligible area planted with the crop.(Chart 3.43)



The largest planted area per household was in Nachingwea (2.5 ha). In other districts, Kilwa and Lindi Rural each had planted area per household slightly more than one hectare while in the remaining districts, the planted areas were smaller in the range of 0.1 to 0.7 ha/household. (Map 3.30)

3.4.4 Oranges

Oranges were planted in all the districts except Ruangwa the total planted area in the region was 1,956 ha of which 75.5% (1,477 ha) was in Kilwa and 18% (352 ha) was planted in Lindi Rural. Much smaller land areas were planted with oranges in the other districts. Orange yield (Map 3.31) was the highest in Kilwa (5.6 t/ha) followed by Nachingwea (3.7 t/ha). Orange yields were lower than 2 t/ha in Liwale and Lindi Rural and almost negligible in Lindi Urban (0.4 t/ha). Planted area per household was less than 0.5 ha in all orange growing districts, the largest being 0.4 ha/household in Liwale and Kilwa districts and the smallest (0.02 ha/household) in Lindi Urban (Map 3.32)



3.4.5 Banana

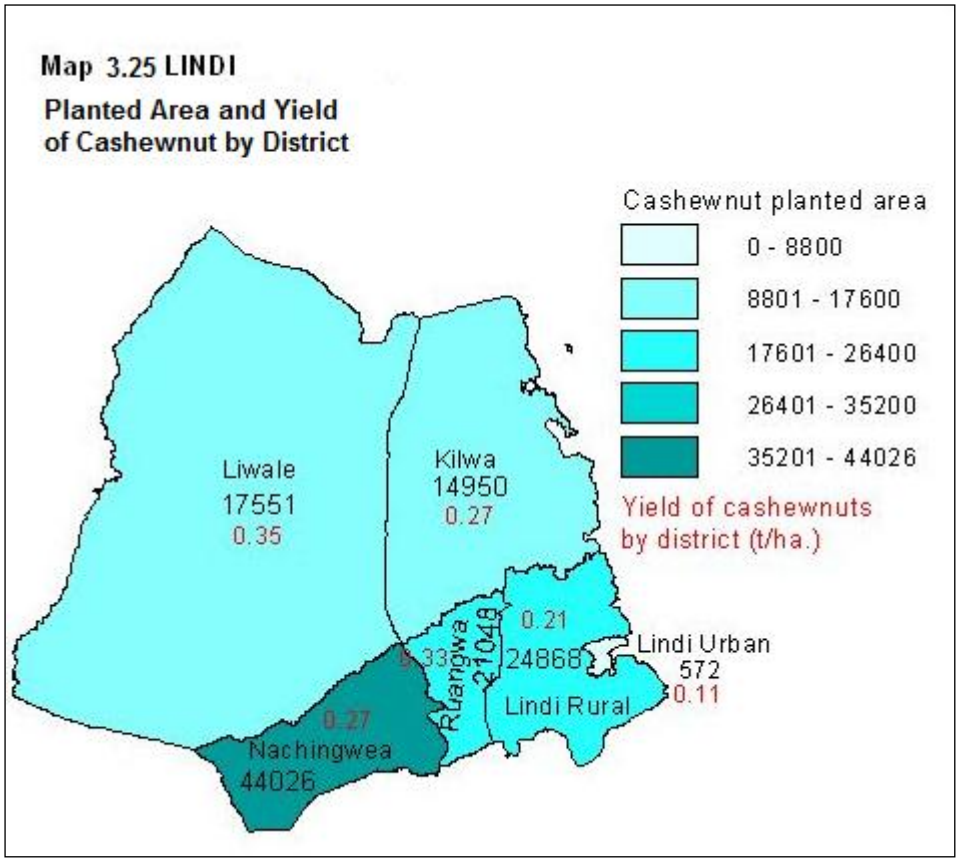
Households in all the districts planted banana in varying proportions (Chart 3.44). Kilwa had the largest planted area (1,190 ha, 48.4% of the total area planted with banana) and Lindi Urban had the smallest planted area (46 ha, 1.9%). Other districts had planted areas between 96 and 512 ha. However, Kilwa and Nachingwea districts together, accounted for 69.3% of the total planted area (1,702 ha) implying that the two districts were the most important for banana production in the region. The planted area per banana growing household was the largest in Nachingwea (0.5 ha/hh) and the smallest in Lindi Urban (0.2 ha/hh).

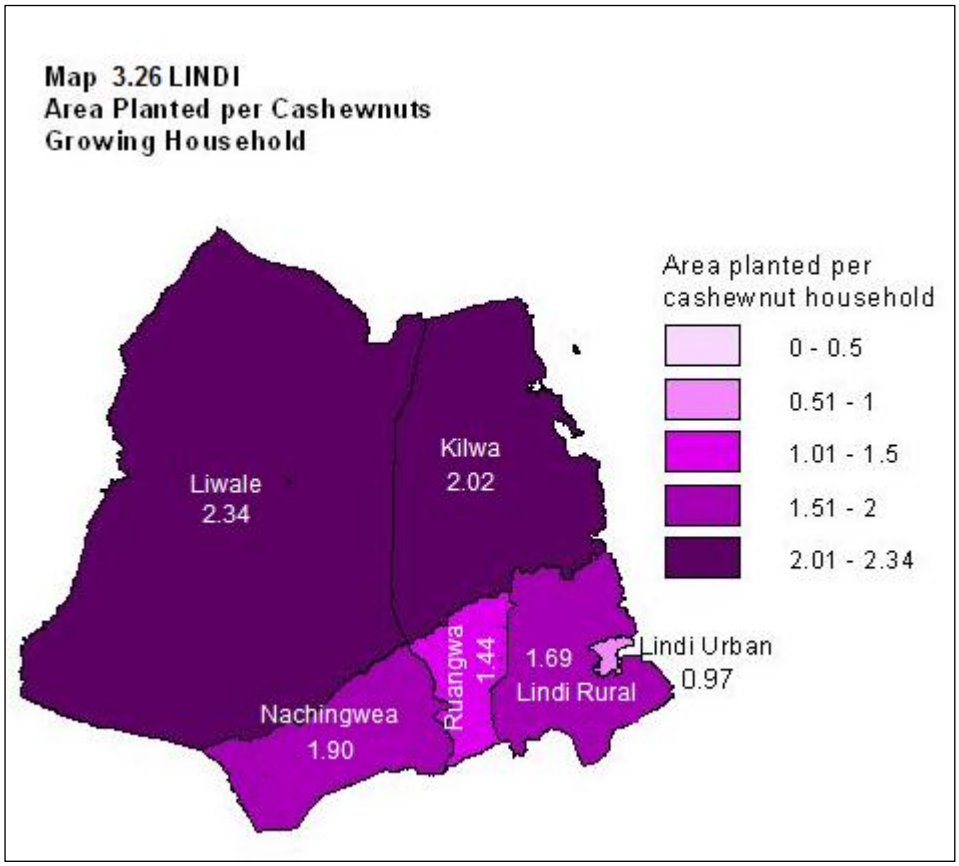
3.4.6 Mango

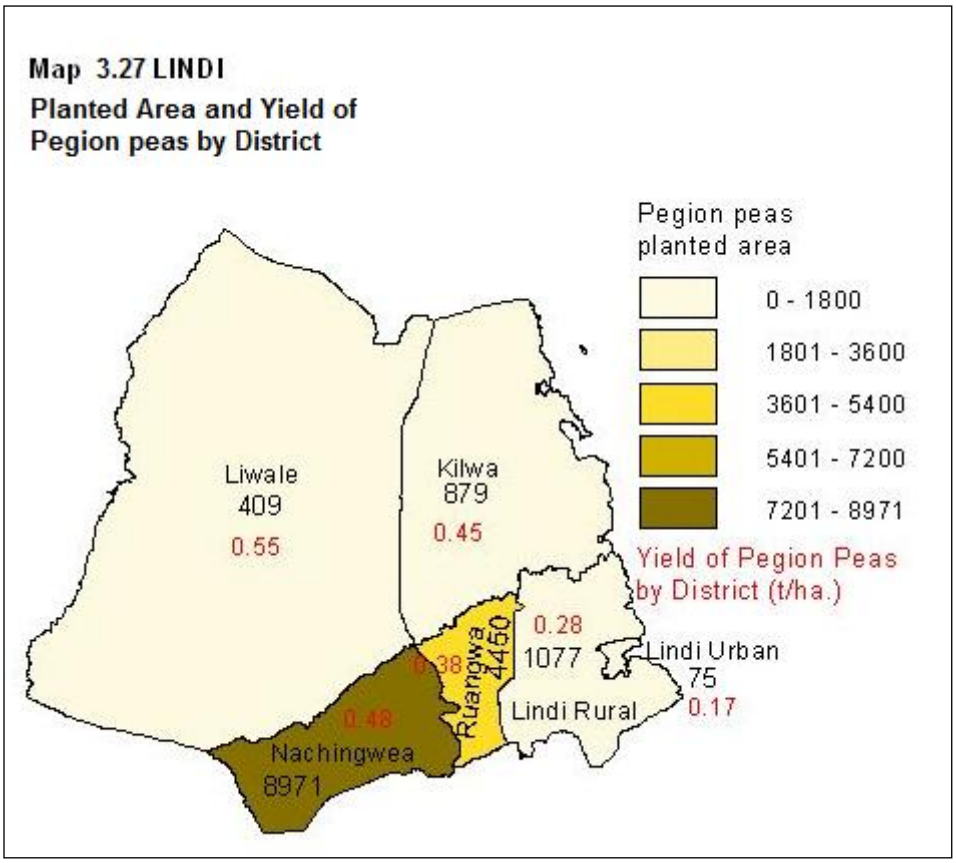
Mango was a minor crop planted in all the districts except Ruangwa (Table 3.7). The most important districts for mango production were Kilwa (1,500 ha, 50.6%) and Nachingwea (1,334 ha, 45%) with almost negligible areas planted in Lindi Rural, Lindi Urban and Liwale districts.

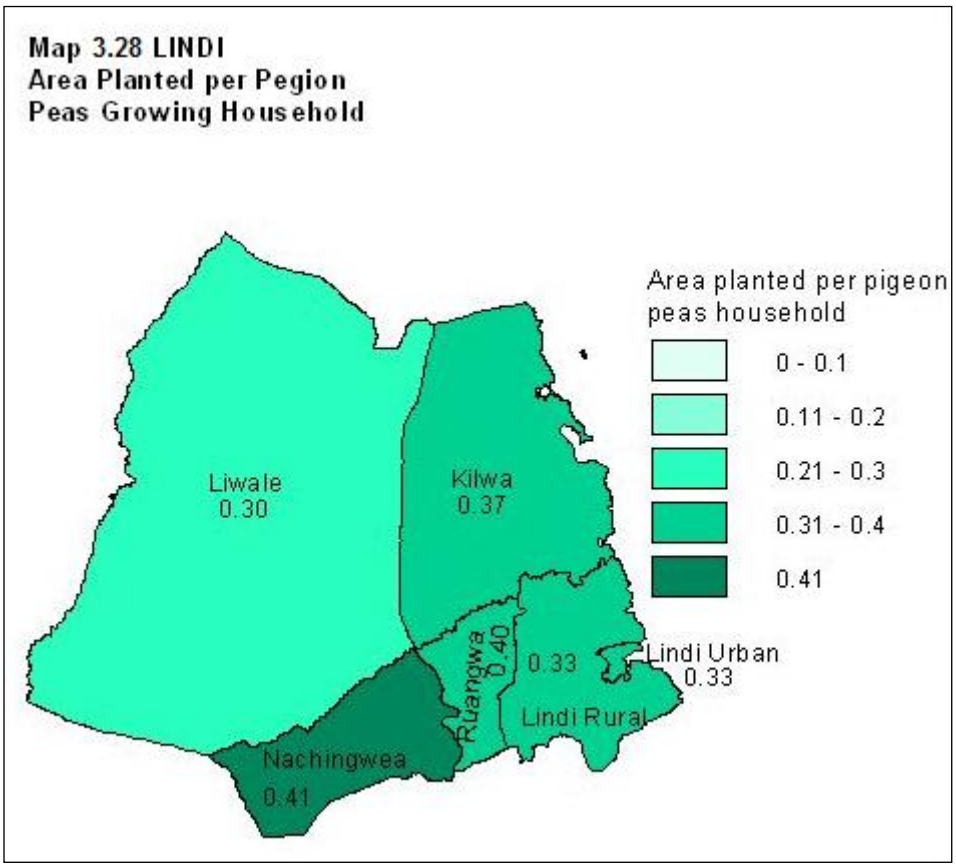
Table 3.7: Percent of Area Planted and Average Planted Area with Mango

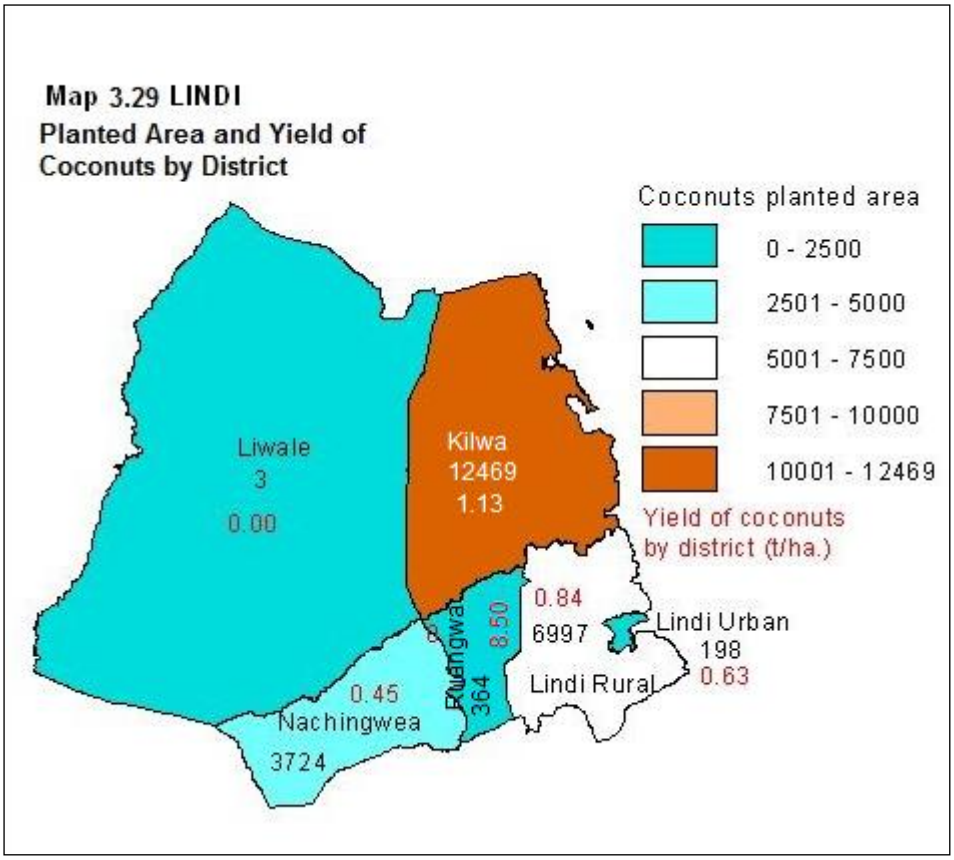
District	Number of households	Area Planted	Percent of Total Area Planted	Planted Area per Household
Kilwa	3,785	1,500	50.57	0.4
Lindi Rural	124	21	0.71	0.17
Nachingwea	940	1,334	44.99	1.42
Liwale	234	56	1.9	0.24
Ruangwa	0	0	0	0
Lindi Urban	226	54	1.83	0.24
Total	5,309	2,966	100	0.56

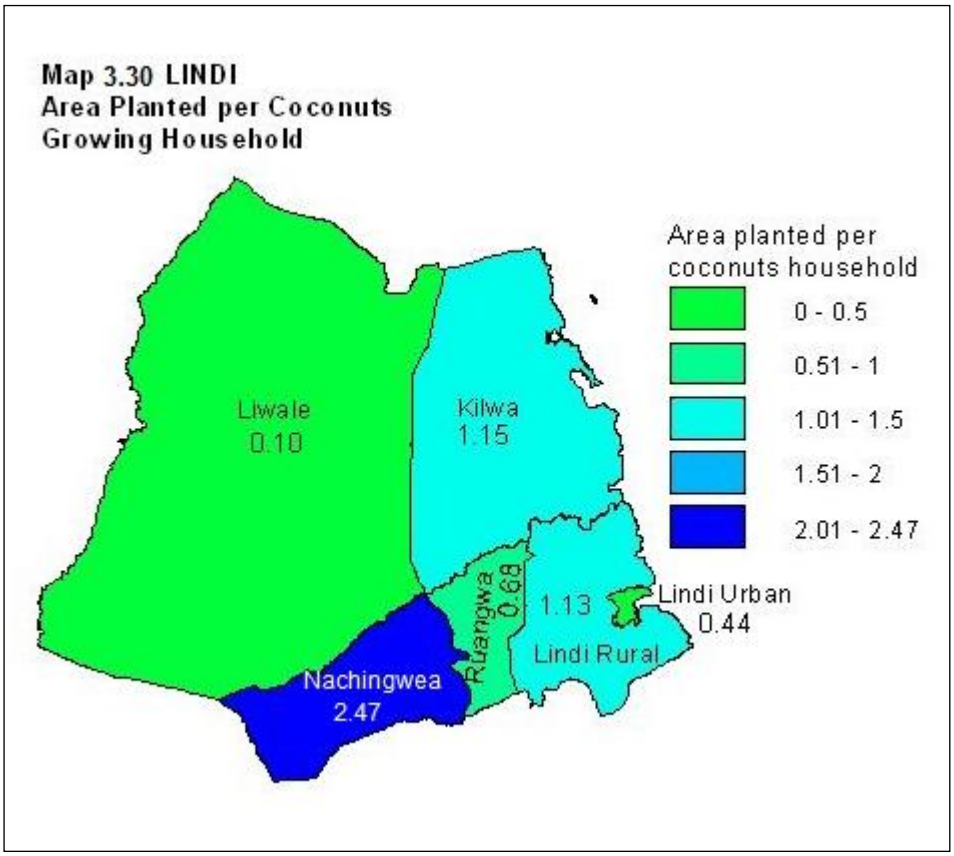

Map 3.25 LINDI
Planted Area and Yield
of Cashewnut by District
Cashewnut planted area
0 - 8800
8801 - 17600
17601 - 26400
26401 - 35200
35201 - 44026
Yield of cashewnuts
by district (t/ha.)
Liwale
17551
0.35
Kilwa
14950
0.27
0.21
24868
Ruangwa
21048
0.33
Lindi Urban
572
0.11
Lindi Rural
0.27
Nachingwea
44026

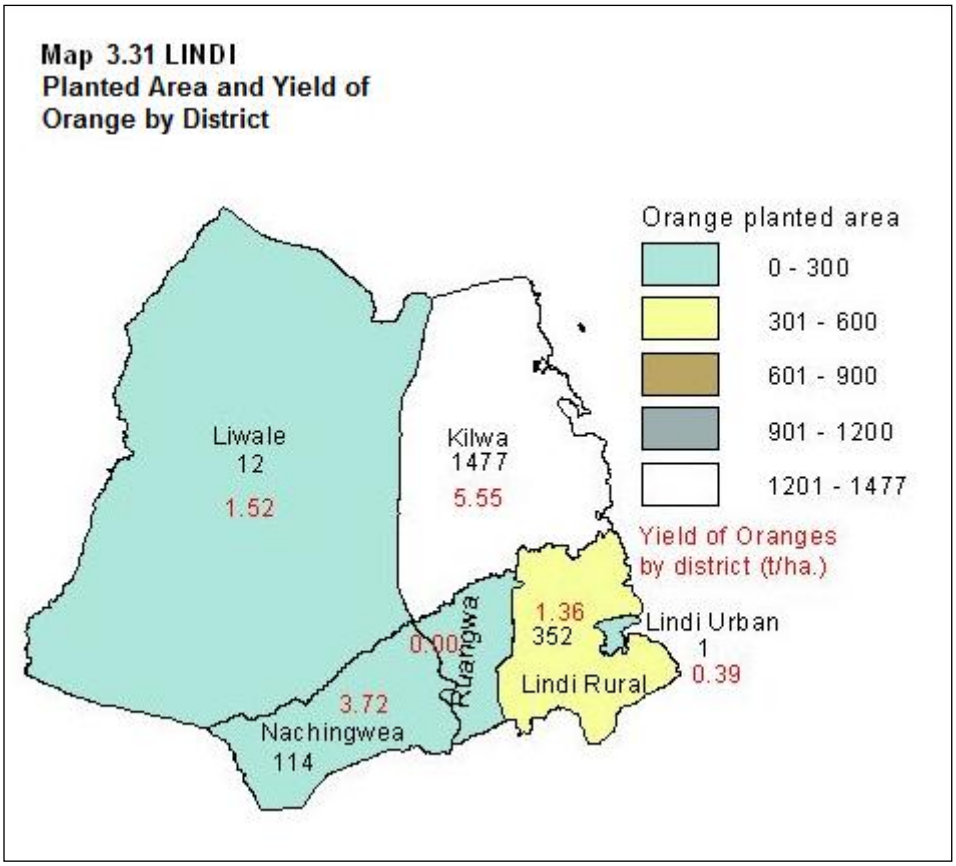

Map 3.26 LINDI
Area Planted per Cashewnuts
Growing Household
Area planted per
cashewnut household
0 - 0.5
0.51 - 1
1.01 - 1.5
1.51 - 2
2.01 - 2.34
Liwale
2.34
Kilwa
2.02
Ruangwa
1.44
1.69
Lindi Urban
0.97
Lindi Rural
Nachingwea
1.90

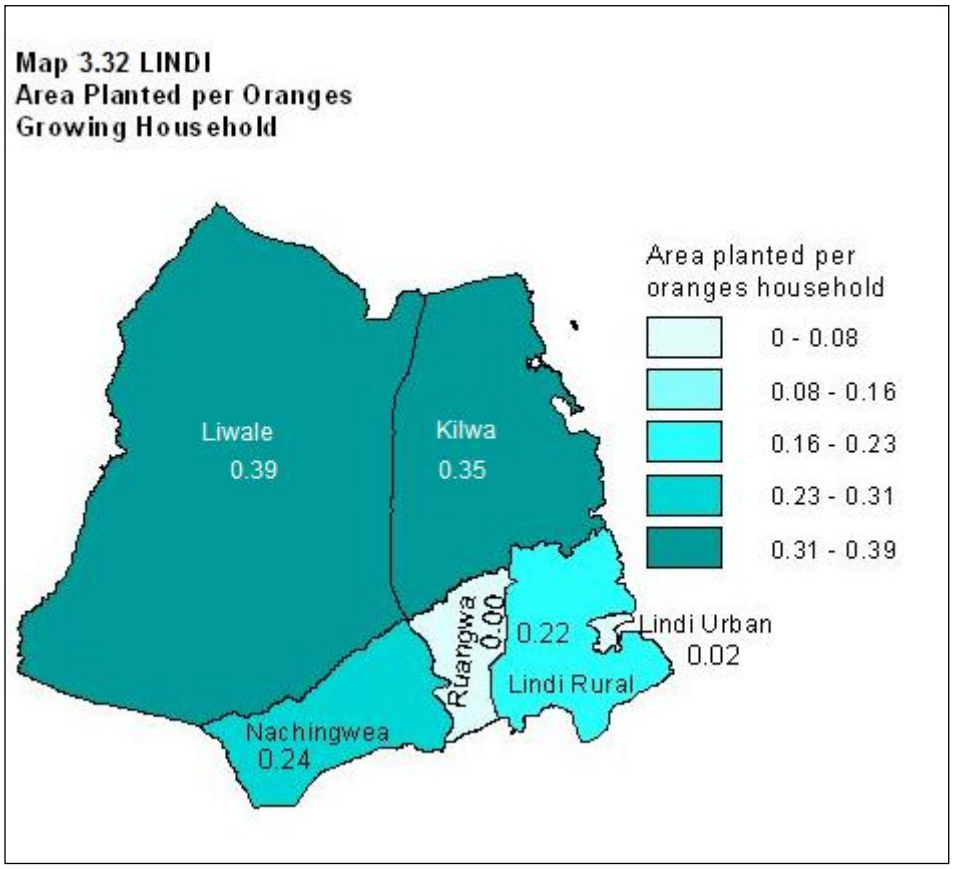

Map 3.27 LINDI
Planted Area and Yield of
Pegion peas by District
Pegion peas
planted area
0 - 1800
1801 - 3600
3601 - 5400
5401 - 7200
7201 - 8971
Yield of Pegion Peas
by District (t/ha.)
Liwale
409
0.55
Kilwa
879
0.45
Ruangwa
4450
0.38
0.28
1077
Lindi Urban
75
0.17
Lindi Rural
0.48
Nachingwea
8971


Map 3.28 LINDI
Area Planted per Pegion
Peas Growing Household
Area planted per pigeon
peas household
0 - 0.1
0.11 - 0.2
0.21 - 0.3
0.31 - 0.4
0.41
Liwale
0.30
Kilwa
0.37
Ruangwa
0.40
0.33
Lindi Urban
0.33
Lindi Rural
Nachingwea
0.41


Map 3.29 LINDI
Planted Area and Yield of
Coconuts by District
Coconuts planted area
0 - 2500
2501 - 5000
5001 - 7500
7501 - 10000
10001 - 12469
Yield of coconuts
by district (t/ha.)
Liwale
3
0.00
Kilwa
12469
1.13
0.84
6997
Lindi Urban
198
0.63
Lindi Rural
Ruangwa
364
8.50
0.45
Nachingwea
3724


Map 3.30 LINDI
Area Planted per Coconuts
Growing Household
Area planted per
coconuts household
0 - 0.5
0.51 - 1
1.01 - 1.5
1.51 - 2
2.01 - 2.47
Liwale
0.10
Kilwa
1.15
Ruangwa
0.69
1.13
Lindi Urban
0.44
Lindi Rural
Nachingwea
2.47

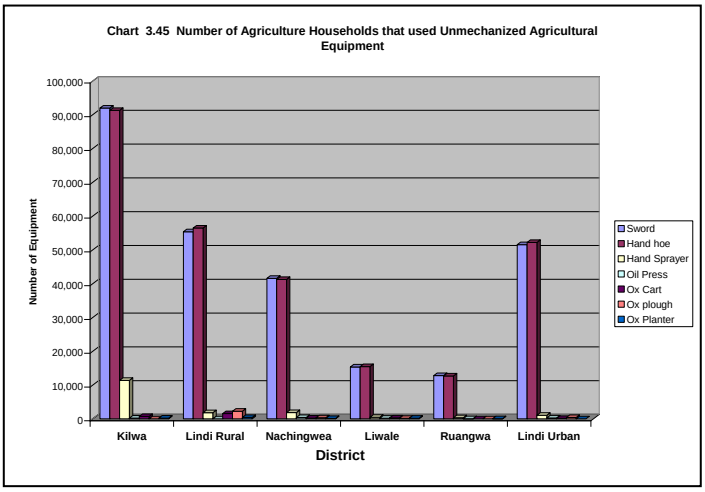

Map 3.31 LINDI
Planted Area and Yield of
Orange by District
Orange planted area
0 - 300
301 - 600
601 - 900
901 - 1200
1201 - 1477
Yield of Oranges
by district (t/ha.)
Liwale
12
1.52
Kilwa
1477
5.55
Ruangwa
0.00
1.36
352
Lindi Urban
1
0.39
Lindi Rural
3.72
Nachingwea
114


Map 3.32 LINDI
Area Planted per Oranges
Growing Household
Area planted per
oranges household
0 - 0.08
0.08 - 0.16
0.16 - 0.23
0.23 - 0.31
0.31 - 0.39
Liwale
0.39
Kilwa
0.35
Ruangwa
0.00
0.22
Lindi Urban
0.02
Lindi Rural
Nachingwea
0.24

3.5 Use of Inputs and Implements

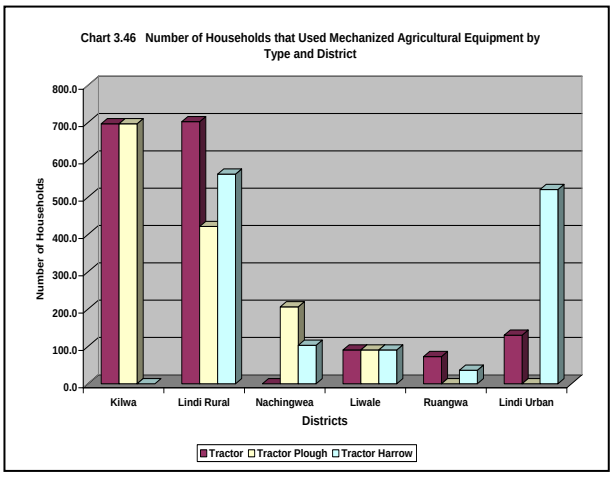
3.5.1 Use of Un-mechanized Agricultural Equipment

The majority of the households in the region depended much on the hand hoe and the sword as the major implements for most farm operations (Chart 3.45). Amongst other equipments, only the hand sprayer was used in all the districts though at a low level, the highest was only 3.0% (1,488 hh) in Lindi Rural and Liwale (351hh). The use of all other equipment was at very minimal levels in all the districts (Chart 3.45).



3.5.2 Use of Mechanized Agricultural Equipment

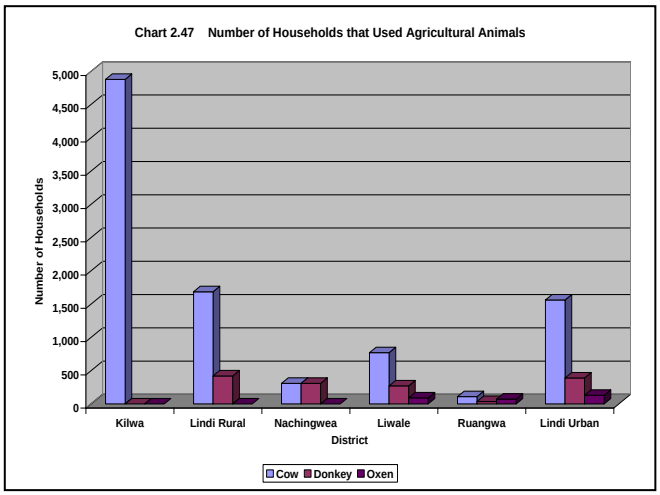
The use of mechanized agricultural equipment in the region was low. Tractor was the most commonly used mechanized equipment in the region for ploughing and harrowing (Chart 3.46). Generally, the extent to which the tractor was used was extremely low but comparatively, highest proportions (0.5% of the total number of agricultural households in each district) used the tractor in Nachingwea (188 households), and Kilwa (79 households). In the other districts, the use of tractor was insignificant.



The use of tractor for ploughing was most common in Nachingwea (188 households), Kilwa (79 households) and Liwale (58 households) equivalent to 0.2% of the total number of agricultural households in each district (Chart 3.46). The use of tractor for harrowing was most common in Lindi Rural (124 households), Liwale (124 hh), Nachingwea (94hh) and Liwale (88 hh) equivalent to 0.2 % of the agricultural households in each district followed by Liwale (91 hh, 0.6%).

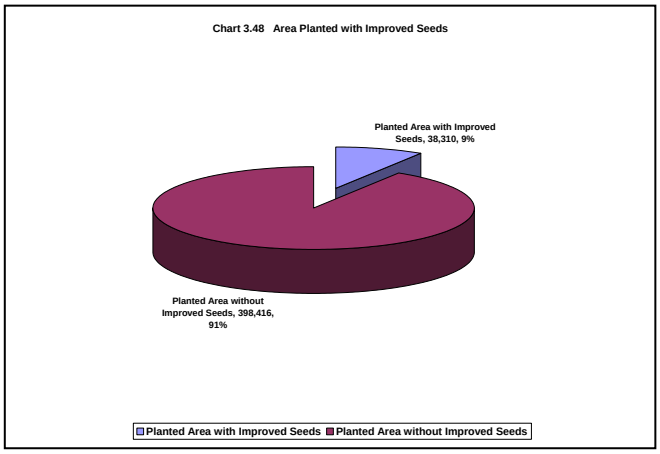
3.5.3 Use of Agricultural Animals

Cow was the most widely used agricultural animal in the region (Chart 3.47). It was used most extensively in Lindi Rural district (1,116 hh 63%) followed by Nachingwea (655 hh, 37%) Other agricultural animals used to a limited extent were donkeys and oxen.



3.5.4 Use of Improved Seeds

Improved seeds were used for planting during both short and long rainy seasons. However, the use of improved seeds for planting was limited to relatively small areas (Chart 3.48). About 9% of the total planted area used improved seeds for both seasons. The rest of the planted area (91%) to was planted without using improved seeds.



The variation in the use or non-use of improved seeds between seasons was large (Table 3.8) but almost twice as much land was planted with improved seeds during the long rainy season (15,454 ha), compared to the short rainy season (298 ha) though the difference was large (9.3% of the planted area during long rainy season as compared to 23.0% during short rainy season). There were variations in the extent of use of improved seeds, between districts, but the general trends were maintained in both seasons.

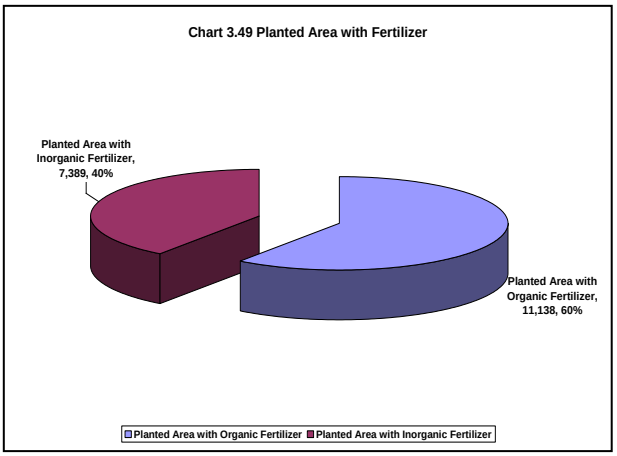
Table 3.8: Number of Households Using Improved Seeds on Area Planted During Short and Long Rains by District

District	Long Rainy Season - Masika			Short Rainy Season - Vuli		
	Total Planted Area in MASIKA	Planted Area with Improved Seeds	% of area planted using improved seed	Total Planted Area in Vuli	Planted Area with Improved Seeds	% of area planted using improved seeds
Kilwa	33,768	4011	11.9	0	0	0.0
Lindi Rural	40,348	3271	8.1	301	151	50.0
Nachingwea	47,183	4026	8.5	390	0	0.0
Liwale	16,237	2938	18.1	11	0	0.0
Ruangwa	26,725	1056	4.0	592	147	24.8
Lindi Urban	2,329	153	6.6	0	0	0.0
Total	**166590**	**15,454**	**9.3**	**1294**	**298**	**23.0**

The situation with regard to the use of improved seeds has not changed since 2002/03 (Agriculture Census data) when an estimated 55,330 ha (14% of the total planted with annual crops and vegetables) were planted using improved seeds whereas 14.1% of the planted area during the long rainy season and 13.6% of the planted area during the short rainy season used improved seeds..

3.5.5 Use of Fertilizer

3.5.5.1 Inorganic Fertilizer



Inorganic fertilizers were more preferred (988 ha, 63% of the planted area applied with fertilizers) than inorganic fertilizers (588 ha, 37%) in both seasons in the region. (Chart 3.49 and Table 3.9). However, in Liwale district, organic fertilizer was not applied during any of the two seasons and in Kilwa both organic and inorganic fertilizers were not used in of the two seasons.

3.5.5.2 Organic Fertilizer

Organic fertilizer represents a wide range of materials but major part of the organic fertilizer is in the form of animal wastes such as from cattle, chicken, pigs and goats and sheep. The number of households using organic fertilizers was estimated to be 633 equivalents to about 0.4% of the total 161,796 households,

Area Applied With Organic Fertilizer

Organic fertilizer was applied only in four districts in the region. The total number of households using organic fertilizer was equivalent to 0.4% (633 households) implying a very low level of use of organic manure for soil fertility improvement. Nachingwea district had the largest number of households using organic fertilizer (about 350 households) compared to 150 households in Lindi Rural and 50 or less in Ruangwa and Lindi Urban districts, (Table 3.9).

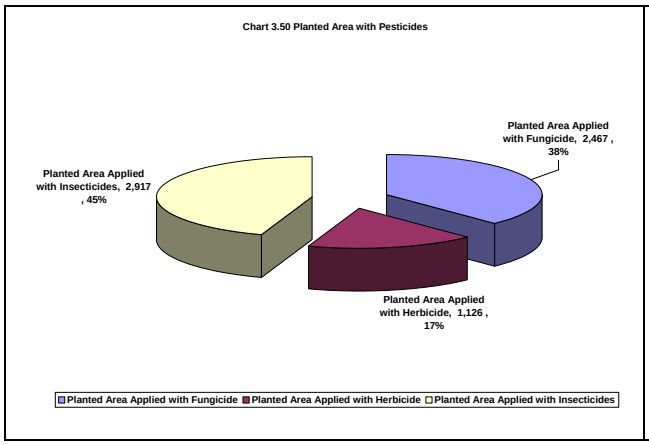
Compared to 2002/03 census results the use of organic fertilizer, the area applied in 200708 was 96% more than the area applied with similar organic fertilizer in 2002/03 (Agricultural Census data) which was estimated to be a total of 5,423 hectares.

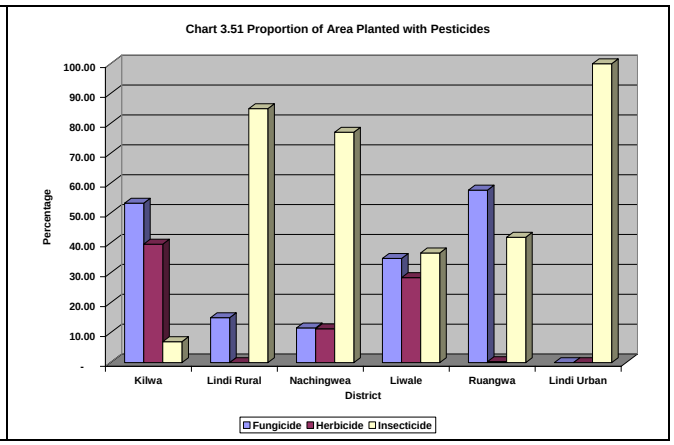
Table 3.9: Planted Area with Fertilizer

District	Planted Area Applied with Organic Fertlizer in Vuli	Planted Area Applied with Organic Fertlizer in Masika	Planted Area Applied with Inorganic Fertilizer in Vuli	Planted Area Applied with Inorganic Fertilizer in Masika	Total Planted Area Applied with Organic Fertlizer	Total Planted Area Applied with Inorganic Fertilizer
Kilwa	0	0	0	0	0	0
Lindi Rural	0	151	75	171	151	246
Nachingwea	0	364	0	194	364	194
Liwale	0	0	0	35	0	35
Ruangwa	0	55	369	154	55	523
Lindi Urban	0	18	0	0	18	18
Total	**0**	**588**	**4440**	**554**	**588**	**998**

3.5.6 Use of Pesticides

Pesticides comprise a diverse group of chemical substances used for the control of pests (insects, diseases, weeds, rodents, nematodes, birds and others). Pesticides were applied on a total 6,510 ha. Insecticides were the most dominant pesticide used (Chart 3.50) on 45% of the planted area (2,917 ha) followed by fungicides (2,467, 38%). Herbicides were the least used (1.126 ha, 17%).





In all the districts except Kilwa and Ruangwa, the proportion of the planted area applied with insecticides (Chart 3.51) was larger than any other pesticide while the proportion of land applied with fungicides was the largest in Kilwa followed by Ruangwa and Liwale districts. In absolute terms (Table 3.10), Kilwa district had the largest planted area applied with fungicide (1,117 ha, 45.3%) and herbicide (830 ha, 73.7%), while Lindi Rural had the largest area (1,207 ha, 41.4%) planted with insecticides in the region. Overall, Kilwa, Lindi Rural and Ruangwa districts were the three leading districts in pesticide use whereby Kilwa had the largest area applied with pesticide (2,093 ha, 32.2%), followed by Lindi Rural (1,420 ha, 21.8%) and Ruangwa (1,387 ha, 21.3%).

Table 3.10: Planted Area with Fungicide, Herbicide and Insecticide

District	Planted Area Applied with Fungicide	Planted Area Applied with Herbicide	Planted Area Applied with Insecticides	Total Planted Area
Kilwa	1,117	830	147	2,093
Lindi Rural	213	0	1,207	1,420
Nachingwea	111	109	740	960
Liwale	225	183	237	645
Ruangwa	801	5	582	1,387
Lindi Urban	0	0	5	5
Total	**2,467**	**1,126**	**2,917**	**6,510**

3.6 Irrigation

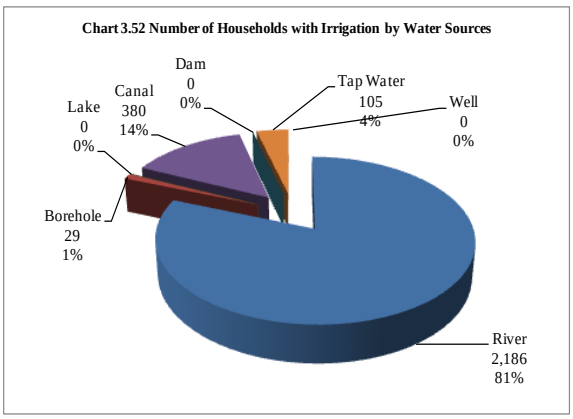
Water is a key input in crop production. Irrigation is the practice of applying water to enhance crop growth. This section presents an analysis of the status of irrigated agriculture in the region.

3.6.1 Area Planted With Irrigation

The use of irrigation for agricultural activities in the region was almost negligible. The area planted under irrigation was 2,523 ha equivalent to 0.84% of the total planted area in the region. About two thirds of the irrigated land was in Nachingwea (1,676 ha, 66.4% of the area planted using irrigation and 548 ha (21.7%) was in Ruangwa district. In all other districts, the proportion of land planted using irrigation was not more than 7%, the lowest being 2.3% in Liwale district.

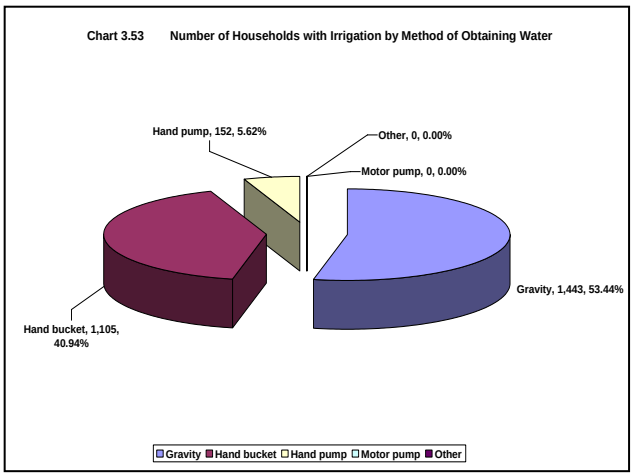
3.6.2 Sources of Water for Irrigation

The main source of water for irrigation (Chart 3.52) for the majority of the households that applied irrigation was the river (2,186 households, 40.5% of households applying irrigation) and other sources were canal (380 households, 7%), tap water (105 households, 1.9%) and a very small number of households used borehole (29 households, 0.5%)



3.6.3 Method of Obtaining Irrigation Water

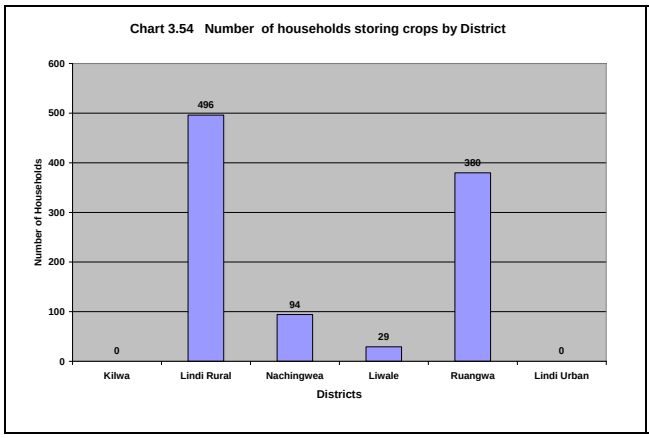
The majority of the households applying irrigation obtained irrigation water by gravity (1,443 households, 53.4%). The remaining households applying irrigation (Chart 3.53) obtained water using hand buckets (1,105 households, 40.9%) and hand pump (152 households, 5.6%).

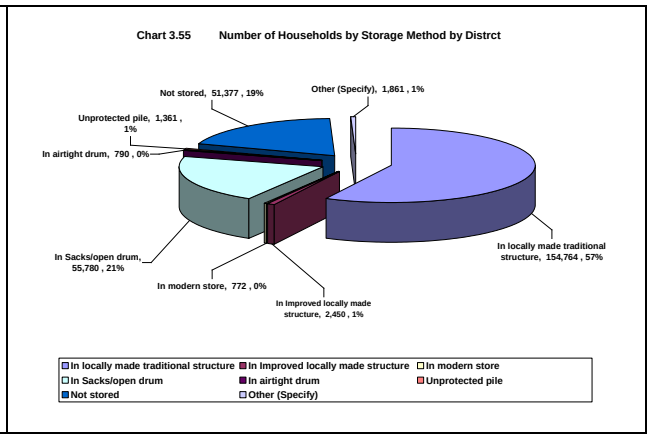


3.7 Crop Storage, processing and Marketing

3.7.1 Methods of Storage

Crop storage was practiced by 153,856 households in the region which a wasrelatevely high percentage (92%) of the total 166,818 crop growing households in the region (Chart 3.54 and Map 3.34). The largest number of households storing crops was in Lindi Rural (45,263hh, 29.4%), Nachingwea (37,242hh, 24.2%).

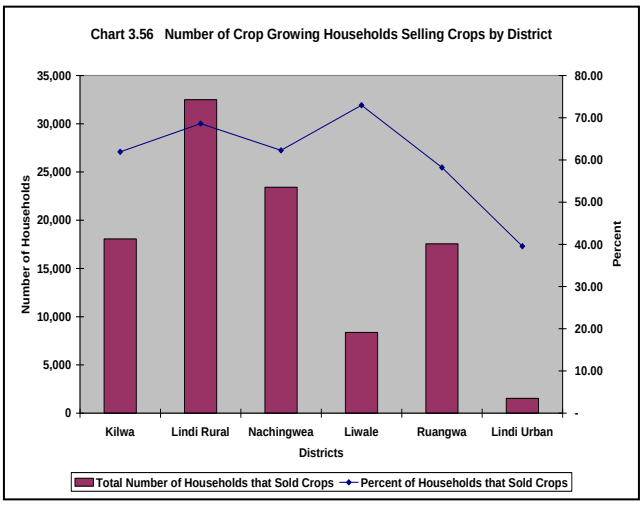




The storage structures used by the majority of households (Chart 3.55) were locally made traditional structures (154,764 hh 57% of the total households practicing crop storage) and sacks and open drums (55,780hh, 21%). About 1% each of the total households practicing crop storage, stored crops in improved locally made structures, unprotected pile or used some other unspecified methods. However, 51,377 households (19%) did not store crops in any season.

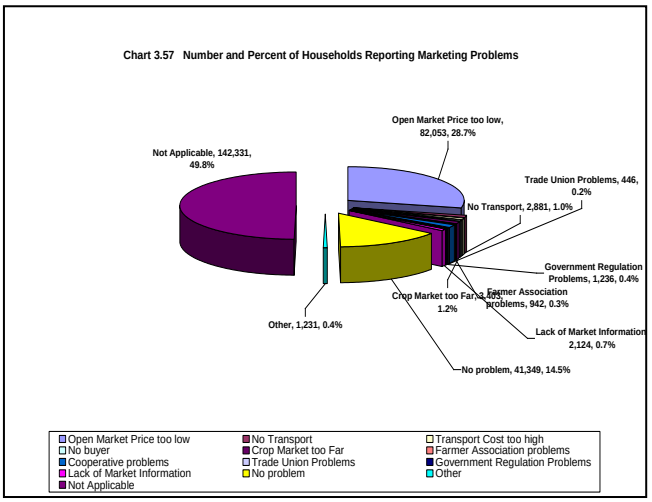
3.7.2 Crop Sales

Sale of crops was conducted in all the districts and Liwale had the highest proportion of households (73%) selling crops (Chart 3.56 and Map 3.35). Relatively high proportions of households sold crops in the other districts, in the range between 40% and 69% of the households which sold crops.



3.7.3 Marketing Problems

Households that did not participate in the sale of crops reported a number of challenges that hindered them from participating. A wide range of reasons were reported (Chart 3.57) and the main challenge cited by the majority of the households was the low price in the open market (82,053 households, 28.7%).

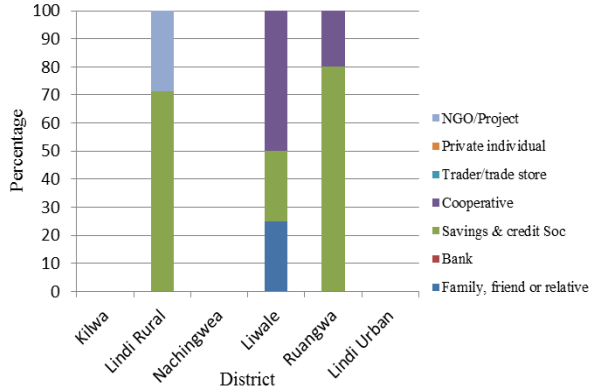


Other challenges cited by relatively small proportions of the households included government regulation problems, trade union problems, crop market being too far, high transport costs, lack of transport, lack of market information, and lack of buyers. However, it was not clear why a substantial proportion could not point out specific challenges (142,231 households, 49.8%) and 14.5% (41,349 households) which indicated absence of any problem, (Chart 3.57).

3.7.4 Credit Sources

Access to credit was reported only in Lindi Rural, Liwale, Nachingwea and Ruangwa districts (Chart 3.58). In Lindi Rural and Ruangwa, savings and credit societies were the main sources of credit while in Liwale district; cooperatives were the main source of credit. Other sources of credit were family, friends and relatives, as well as NGOs and development projects.

Chart 3.58 Percentage Distribution of Households Receiving Credits by Main Source of Credit and District.

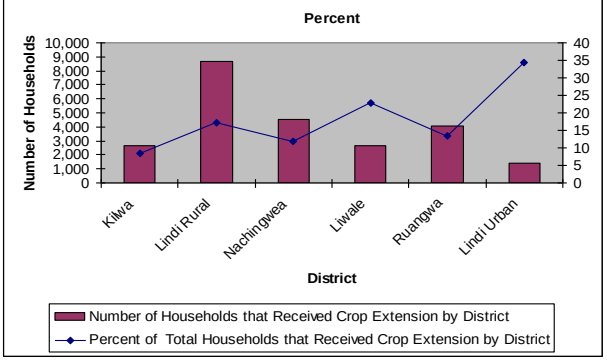


3.8 Access to Crop Extension Services

Extension services provide expert advice and technical backup to farmers as front line staff able to address day-to-day issues pertaining to, in this case, agriculture in general including natural resources management.

Within the region, the number of households that did not receive any extension service (142,755 hh) was six times more than the number of households that received extension services (24,065hh). This implies that the extension services provided were inadequate as the 24,065 households that received extension advice were 14.4% of the total number of households that required extension services (Chart 3.59 and Map 3.36).

Chart 3.59 Number and Percent of Total Households that Received Crop Extension Services

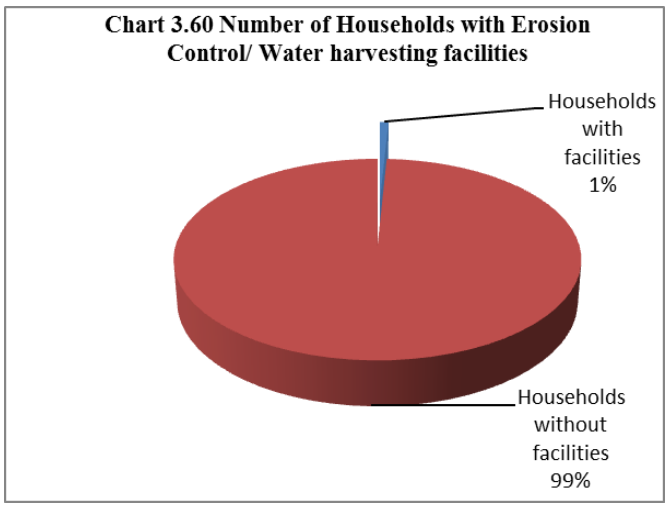


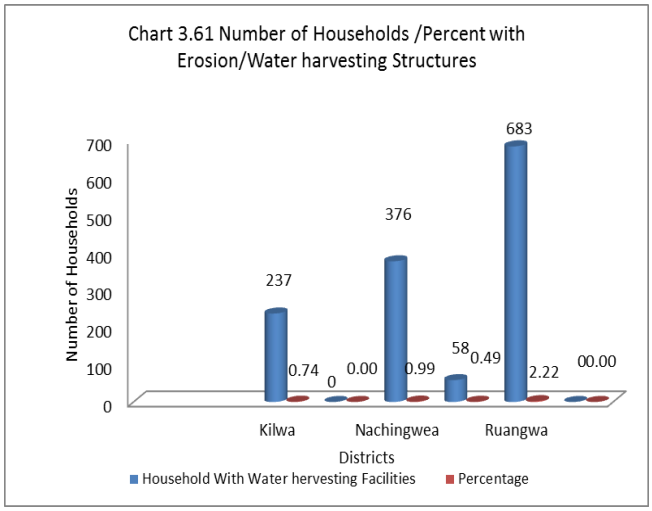
Across districts, Lindi Urban district had the largest (34%) proportion of households that received crop-related extension services followed by Liwale (23%), Lindi Rural (17%), Nachingwea (12%) and Kilwa (8%), Map 3.36.

3.9 Soil Erosion Control and Water Harvesting Structures

Soil Erosion Control

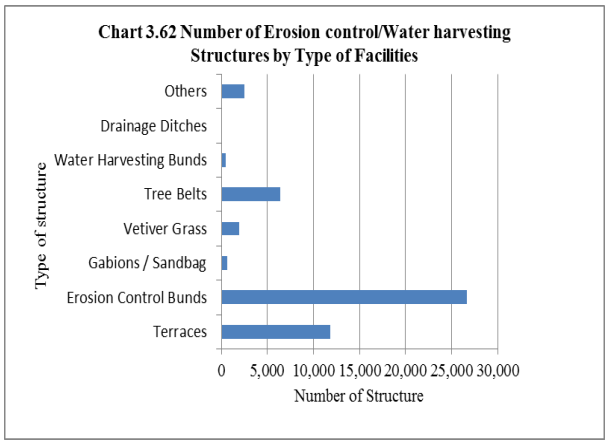
The results show that in all the districts combined only 1,355 households (1%) applied some measure of soil erosion control and/or had rain water harvesting facilities (Chart 3.60). However, in any one district, the number of households applying erosion control measures and/or had rain water harvesting facilities of less than 3% of the total households (Chart 3.61).

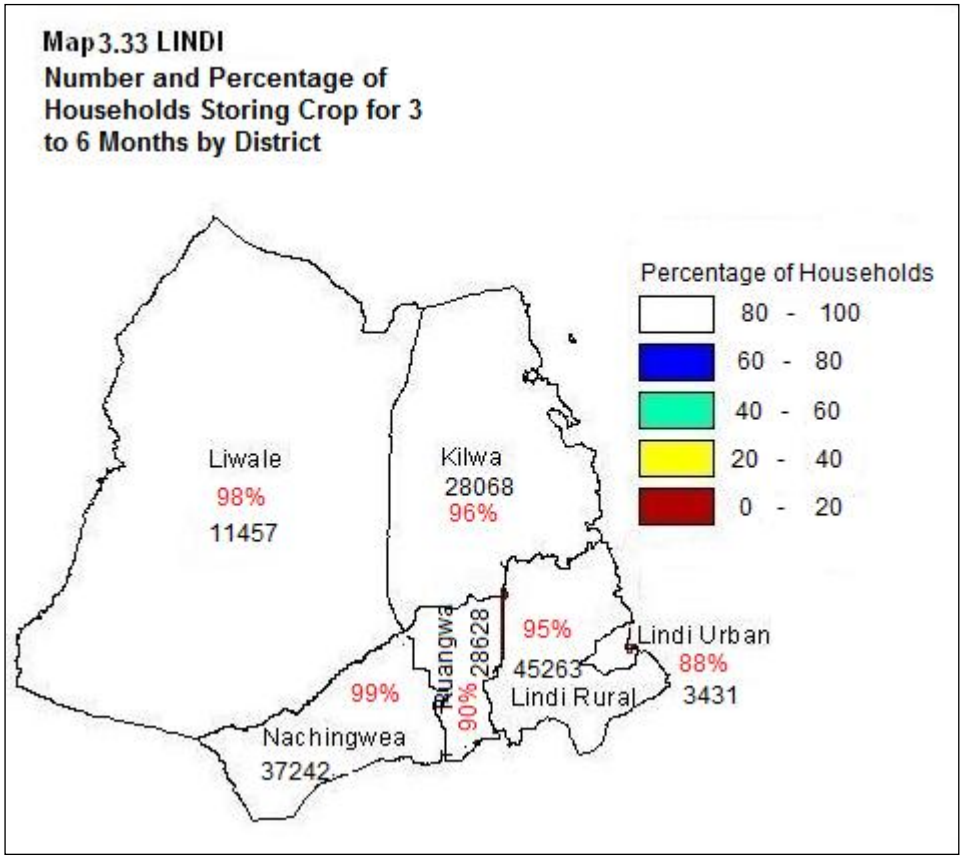


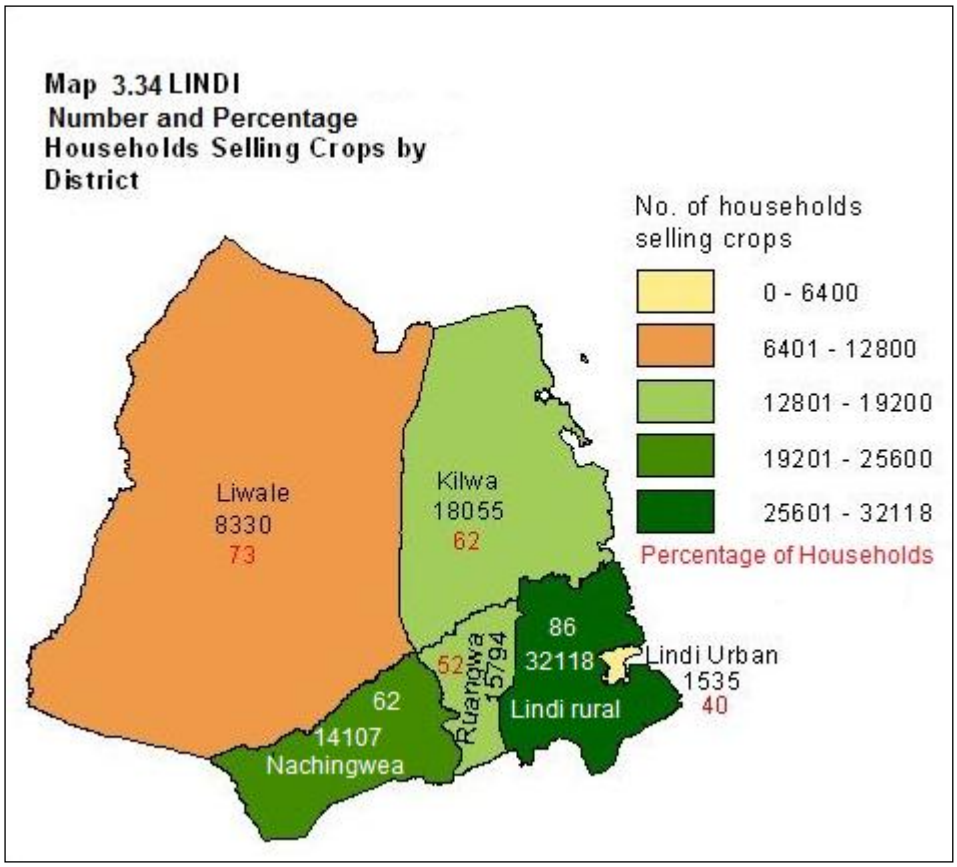


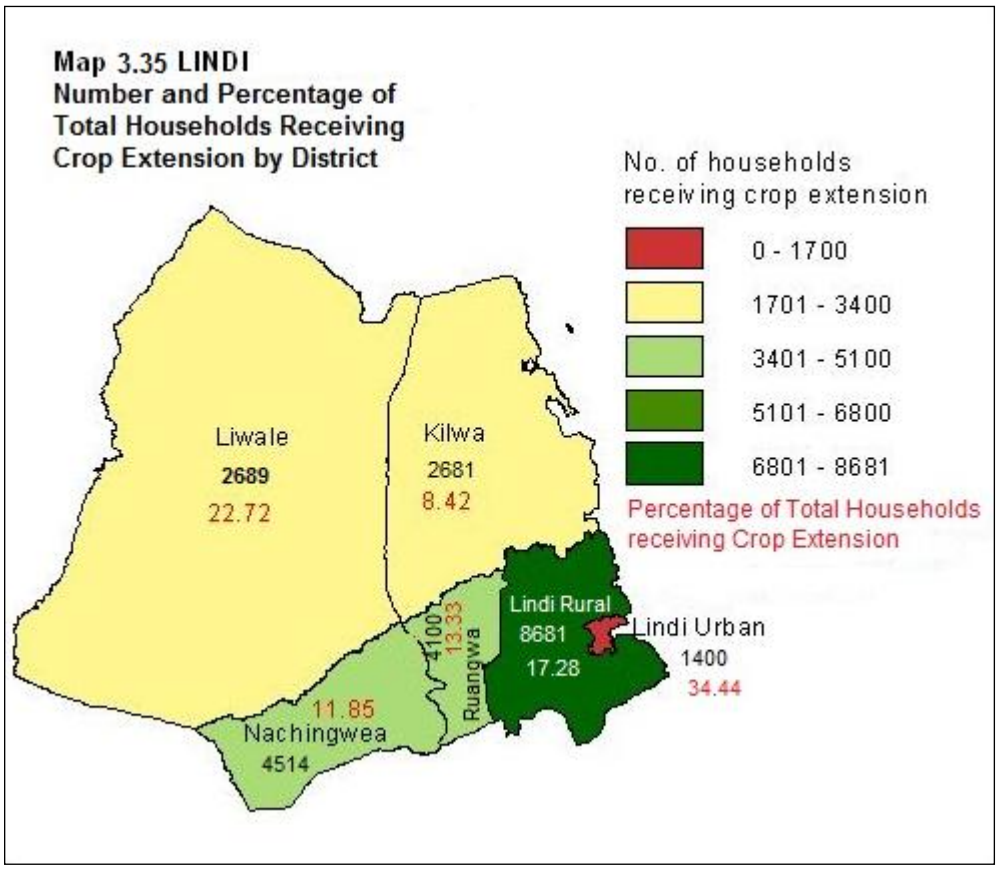
Erosion Control/Water Harvesting Structures

The most commonly used structures (Chart 3.62) for erosion control and water harvesting were erosion control bunds followed by terraces and tree belts. Other constructed erosion/water harvesting structures to a very low extent, included planting of vetiver grass, gabions/sandbags, water harvesting bunds and tree planting (Map 3.39).




Map 3.33 LINDI
Number and Percentage of Households Storing Crop for 3 to 6 Months by District
Percentage of Households
80 - 100
60 - 80
40 - 60
20 - 40
0 - 20
Liwale
98%
11457
Kilwa
28068
96%
Ruangwa
28628
90%
95%
45263
Lindi Rural
Lindi Urban
88%
3431
99%
Nachingwea
37242


Map 3.34 LINDI
Number and Percentage Households Selling Crops by District
No. of households selling crops
0 - 6400
6401 - 12800
12801 - 19200
19201 - 25600
25601 - 32118
Percentage of Households
Liwale
8330
73
Kilwa
18055
62
86
32118
Lindi rural
Lindi Urban
1535
40
52
Ruangwa
15794
62
14107
Nachingwea

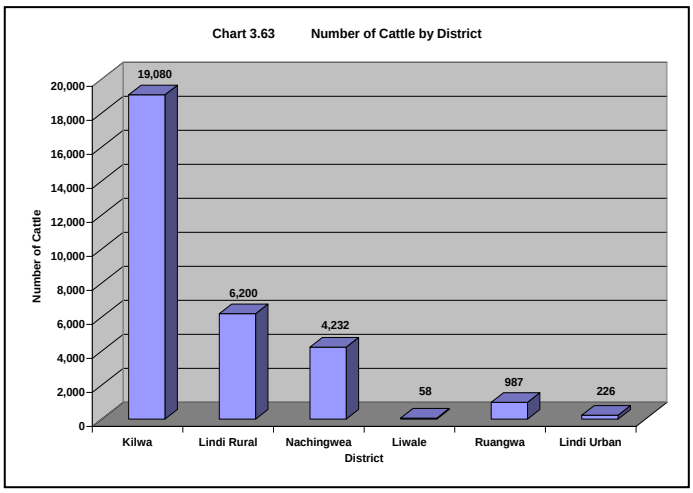

Map 3.35 LINDI
Number and Percentage of
Total Households Receiving
Crop Extension by District
No. of households
receiving crop extension
0 - 1700
1701 - 3400
3401 - 5100
5101 - 6800
6801 - 8681
Percentage of Total Households
receiving Crop Extension
Liwale
2689
22.72
Kilwa
2681
8.42
Lindi Rural
8681
17.28
Lindi Urban
1400
34.44
4100
13.33
Ruangwa
11.85
Nachingwea
4514

3.10 Livestock Results

This section presents results on livestock comprising animals domesticated for the purpose of providing milk, meet, hides and other products, including the provision of farm power. The livestock types found in the region comprised of the stock such cattle, goats, sheep and pigs and the small stock such as chicken, ducks, rabbits and others.

3.10.1 Cattle Population

Cattle were reared in all the districts and in varying proportions (Chart 3.63). The total cattle population in the region was 30,784 heads comprising predominantly of indigenous cattle (85.9%), and small proportions of improved dairy (4,199 heads, 13.6%) and improved beef (135, 0.4%).



This population represented an increase of about 10% over the cattle population of 3,080 recorded during the 2002/03 agriculture census.

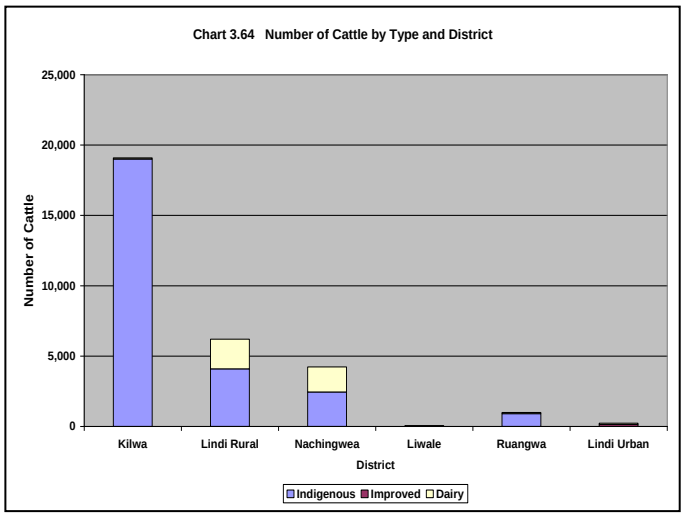
However, the distribution of cattle in the districts was variable with Kilwa having 62 % of the total cattle population in the region (Table 3.11), the rest were mainly in Lindi Rural (6,200 heads, 20.1%) and Nachingwea (4,232 heads, 13.7%). All the improved beef cattle were in, Lindi Urban and 92.8% of the improved dairies were in Lindi Rural and Nachingwea districts.

Table 3.11: Number of Households and percent of Households Keeping Cattle of Different Types

Districts	Indigenous			Improved Beef			Improved Dairy		
	No. of hh	No. of Cattle	%	No. hh	No. of Cattle	%	No. hh	No. of Cattle	%
Kilwa	394	19,001	99.6	0	0	0.0	79	79	0.4
Lindi Rural	744	4,092	66.0	0	0	0.0	372	2,108	34.0
Nachingwea	564	2,445	57.8	0	0	0.0	658	1,787	42.2
Liwale	0	0	0.0	0	0	0.0	58	58	100.0
Ruangwa	152	911	92.3	0	0	0.0	76	76	7.7
Lindi Urban	0	0	0.0	45	135	60.0	45	90	40.0
Total	**1,854**	**26,450**	**85.9**	**45**	**135**	**0.4**	**1,289**	**4,199**	**13.6**

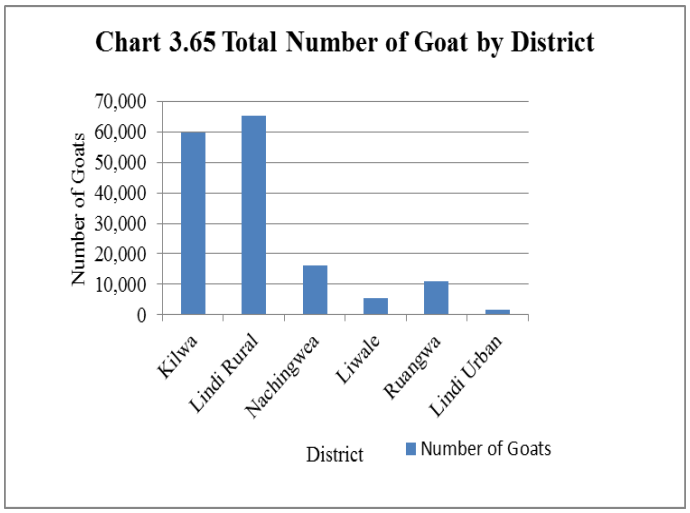
Cattle by Type

Kilwa district had the largest population of indigenous cattle (19,001 heads, 79%) while all other districts each had less than 5,000 indigenous cattle with Lindi Rural (4,092 heads) ,Nachingwea (2,445 heads) and Ruangwa (911 heads) of the indigenous type Lindi rural ha d the largest number of improved dairy cattle (2,108 heads, 50.2%) , followed by Nachingwea (1,787 heads ,42.6%).



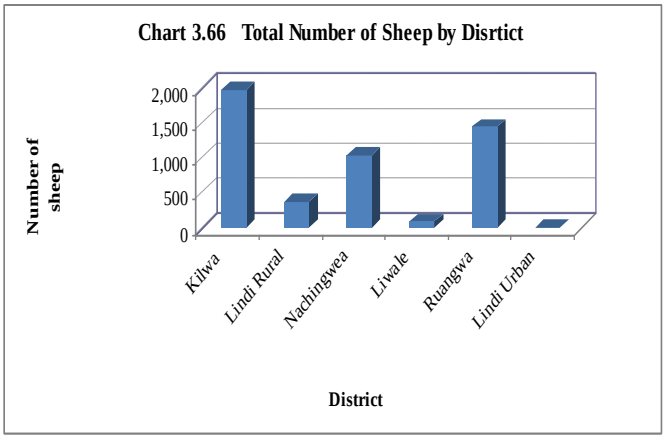
3.10.2 Goat Population

The total goat population in the region was 159,322heads distributed in all the districts in varying proportions (Chart 3.65). The largest population of goats was in Lindi Rural (65,352heads, 41% of total goat population in the region) and other districts with relatively large goat populations were Kilwa (59,764heads 37.5%) followed by Nachingwea (16,270heads, 10.2%) and Ruangwa (10,859 6.8%). Liwale and Lindi Urban had much smaller goat populations of 3.4% and 1%, respectively, to the total regional goat population.



3.10.3 Sheep Population

The total number of sheep in the region was 4,908heads concentrated mainly in three districts Kilwa (1,971heads sheep, 40.2% of total sheep population in the region), Ruangwa (1,443heads, 29.4%) and Nachingwea (1,035heads, 21.1%).Lindi Rural (372 heads,7.6%) and Ruangwa (88heads, 1.8%). Sheep population in Lindi Urban district was almost negligible (Chart 3.66).

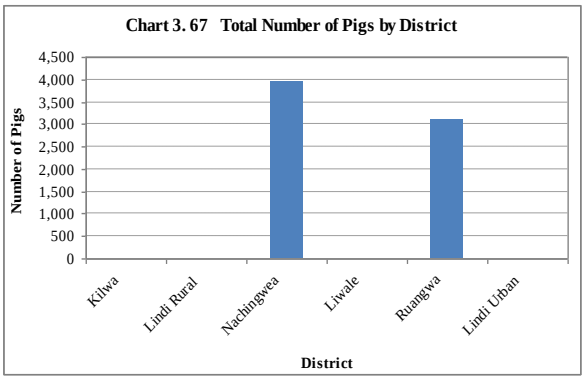


3.10.4 Pig Production

Pig production was the fourth most important livestock production in the region.

Pig Population

The total pig population in the region was 7,063heads found only in two districts namely Nachingwea (3,950 pigs, 55.9%) and Ruangwa (3,113 pigs, (44.1%), (Chart 3.67).

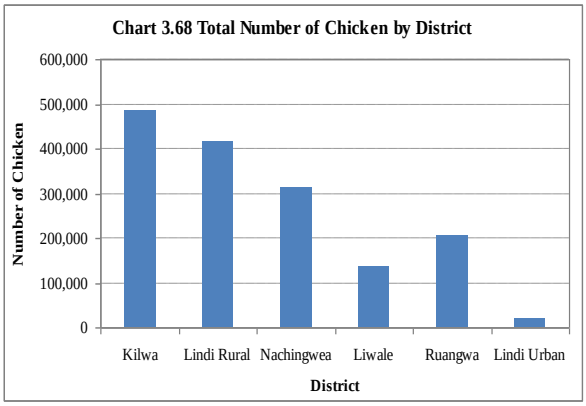


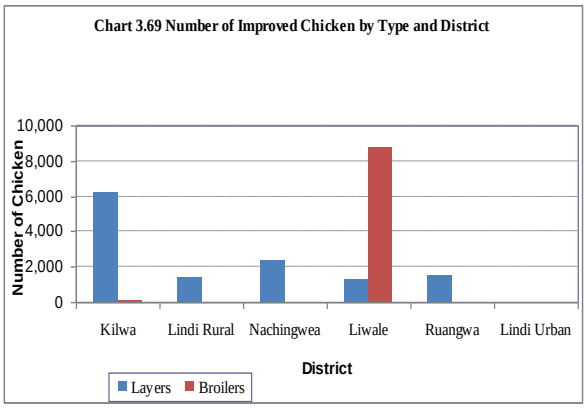
3.10.5 Chicken Production

Chicken production was the main sub-sector of the poultry sector in Lindi region and an important contributor to the livestock production in general. On the basis of absolute stock populations, chicken production dominated the livestock production sector in the region but lags behind the cattle sub-sector on the basis of animal/live weight equivalency.

Chicken Population

The total population of chicken, comprising both local and improved types in the region was 1,574,475. The largest chicken population was found in Kilwa (485,205) equivalent to 30.8% of the total chicken population in the region and the least population was in Lindi Urban with 18,782 chickens (1.2%). The chicken population in other districts was equivalent to 26.4% (415,052) in Lindi Rural, 20% (315,149) in Nachingwea, 13% (204,873) in Ruangwa and 8.6% (135,413) in Liwale, (Chart 3.68).





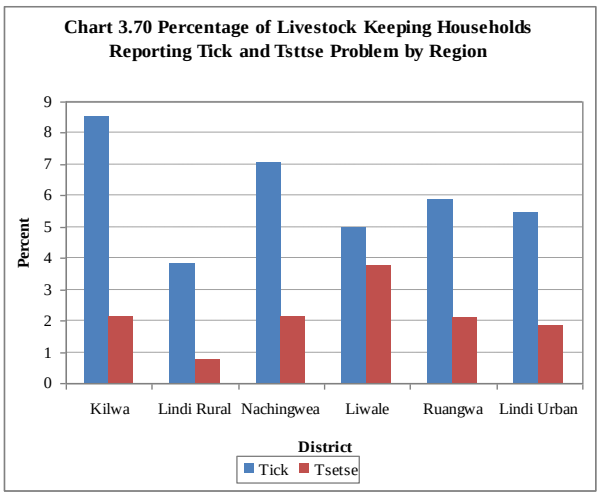
Improved Chicken Types

The improved chicken types comprised predominantly of layers which were normally raised in-doors or controlled conditions for the production of eggs and broiler for poultry meat. Of the total layers population, about 48.7% (6,229 chickens) was in Kilwa district and 8.4% (2,351 chickens) was in Nachingwea. Lindi Rural, Liwale and Ruangwa each had layers' population slightly below 1,550 chickens. Almost all the broiler chicken was recorded in Liwale (8,768 broiler chicken, 99.1%) and the remaining (0.9%) were in Kilwa district, Chart 3.69.

3.10.6 Livestock Pests

3.10.6.1 Incidences of Ticks and Tsetse Flies

Ticks and tsetse flies are organisms that attack ruminants particularly cattle, goats and sheep; the ticks being carriers of protozoa that cause various tick-borne diseases and the tsetse being the cause of trypanasomosis. Both diseases adversely affect livestock productivity. Comparatively, larger proportions of households keeping livestock reported having problems with ticks as opposed to tsetse flies in all the districts (Chart 3.70).



During 2007/08, 1% to 4% of the households keeping livestock reported tsetse-related livestock diseases whereby livestock in Liwale were the most affected whereas, livestock in Lindi Rural were the least affected (Chart 370).

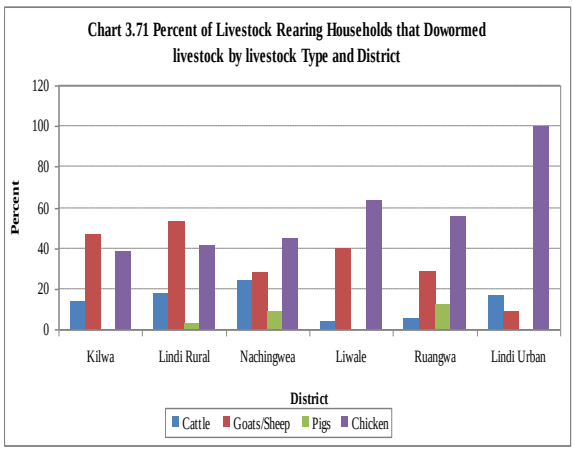
3.10.6.2 Livestock Deworming

A total, of 2,470 cattle keeping households (13% de-wormed their cattle 6,549 goats/sheep households (37.1%) de-wormed their goats and sheep, 1,108 households keeping pigs (6.2%) and 10,547 households keeping chicken (48.9%) dewormed their livestock. The largest proportion of households' dewormed chicken compared to the other types of livestock (Table 3.12 and Chart 3.71).

Table 3.12: Number of Livestock Rearing households that dewormed Livestock by type of livestock and District 2007/08

District	Cattle			Goat/sheep			Pigs			Chicken		
	Total No. of hh keeping cattle	No. hh that dewormed	% of hh that dewormed	Total No. of hh keeping goat/sheep	No. hh that dewormed	% of hh that dewormed	Total number of hh keeping pigs	No. hh that dewormed	% of hh that dewormed	Total number of hh keeping Chicken	No. of hh that dewormed	% of hh that dewormed
Kilwa	2,286	315	14	2,365	1,104	47	2,365	0	0	3,075	1,183	38
Lindi Rural	4,216	744	18	4,216	2,232	53	4,216	124	3	4,836	1,984	41
Nachingwea	4,232	1,035	24	4,044	1,129	28	4,044	376	9	5,455	2,445	45
Liwale	1,695	58	3	1,695	672	40	1,695	0	0	1,666	1,052	63
Ruangwa	4,784	228	5	4,784	1,367	29	4,784	607	12	5,999	3,341	56
Lindi Urban	542	90	17	542	45	8	542	0	0	542	542	100
Total	**17,756**	**2,470**		**17,646**	**6,549**		**17,646**	**1,108**		**21,573**	**10,547**	

Deworming of chicken was most prevalent in all the districts where Kilwa had a minimum percentage (38% of the households dewormed) while a maximum percentage (100%) of the household dewormed chicken, was in Lindi urban, (Chart 3.71). Nachingwea had the largest proportion (24.5%) of its cattle keeping households which dewormed cattle while Liwale had the largest proportion (67.6%) which dewormed goats/sheep. Deworming of pigs was at the lowest level in all the districts and not performed at all in Kilwa, Liwale and Lindi urban districts, (Chart 3.71).



Deworming was performed by the largest percentage of cattle rearing households in Ruangwa (26%); goat and sheep rearing households in Lindi Rural (82.4%); pig rearing households in Ruangwa (88%) and chicken keeping households in Ruangwa district (55%).

3.11 Fish Farming

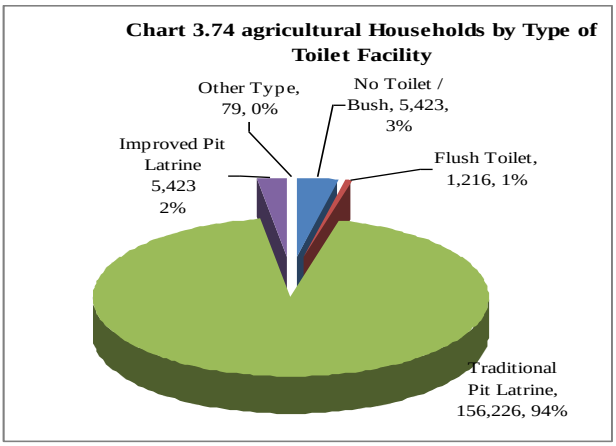
Fish farming was not practiced in the region.

3.12 Poverty Indicators

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

3.12.1 Toilet Facilities

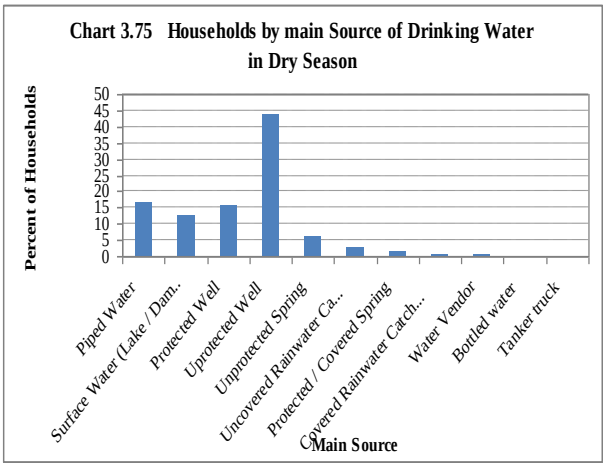
The majority of agricultural households used the traditional pit latrine (156,226hh 94% of all households) with a very low level use of improved pit latrines (3,954hh, 2%). Only 1,216 households (1%) reported using flush toilets while about 3% of the households had no toilet and/or were using the bush, (Chart 3.74 and Map 3.36).



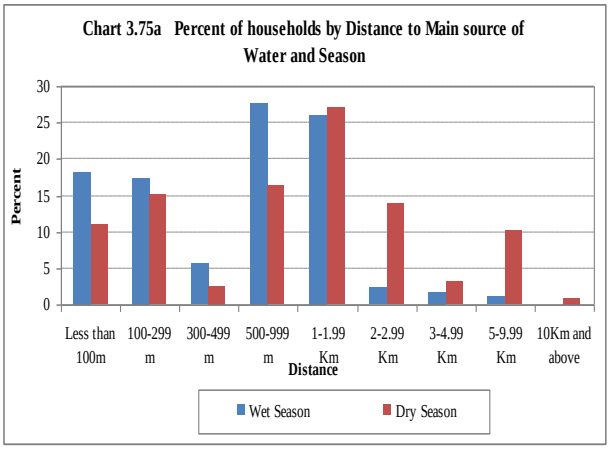
3.12.2 Access to Drinking Water

The results on the status of the main sources of drinking water during the dry season (Chart 3.75) shows that the majority (44% of the total households) depended on unprotected well while some depended on piped water (17%), protected wells (16%) and surface water in, lakes or dams, by (12%).

The situation compares favourably with the 2002/03 census results when the main source of drinking water for agricultural households in the region was unprotected well (40% of the total households) as compared to an average 55% in 2002/03, followed by surface water collected from a lake, dam or river (15% of the total households) as compared to 13.2% in 2002/03 and water drawn from protected well (0.9% of the total households) as compared to 1.5% in 2002/03 census.



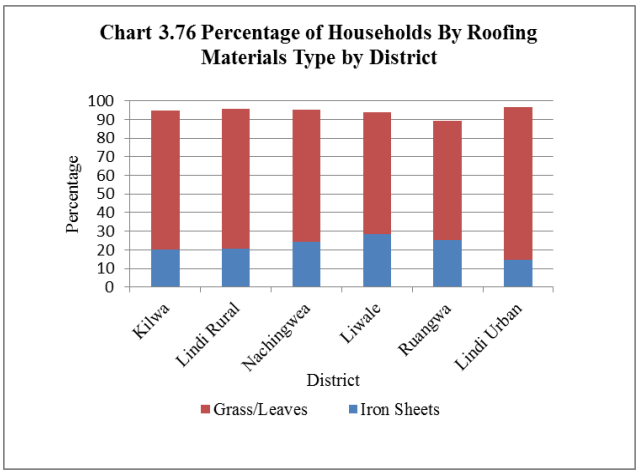
The distance to the main source of drinking water (Chart 3.75a) varied with season though no clear pattern could be established .In the wet season, 26-28% accessed drinking water at a distance of 0.5 to 2 km while in the dry season, the largest proportion of the households (27%) accessed the main source of drinking water at a distance of one to two kilometres (Chart 3.75a).



Overall, about 5% of the household, in the wet season, and 28%, in the dry season, accessed the main source of drinking water at a distance of 2 km to 10 km. However, only about 1% of the households accessed the main source of drinking water beyond 10 km in the dry season.

3.12.3 Roofing Material

Out of the total 166,898 agricultural households in the region, the majority (119,081hh, 71.3% of the total households) used grass/leaves as roofing materials. Lindi Urban district had highest proportion of its households (3,341 hh,82.2%) which used grass/leaves as roofing material followed by Lindi Rural (37,698 hh, 75.1%) , Kilwa (23,732 hh, 74.3%), Nachingwea (26,897 hh, 70.6%), Liwale (7,745 hh, 63.9%) and Ruangwa (19,667 hh 65.4%).



Iron sheets were the second roofing material used by 37,886 households or 22.7% of the total agricultural households in the region. The district with the highest proportion of the households with iron sheets roofing was Liwale (3,361 hh, 28.4%) followed by Ruangwa (7,745 hh, 25.2%), Nachingwea (9,311 hh, 24.4%), Lindi Rural (10,417 hh, 20 7%), Kilwa (6,645 hh, 20.2%) and Urban (587 hh, 14.4%). Chart 3.76

Table 3.13: Type of Roofing material Used by District

District	Iron Sheets	Concrete	Asbestos	Grass/Leaves	Grass & Mud	Other	Total
Kilwa	6,465	158	237	23,732	1,025	318	**31,932**
Lindi Rural	10,417	124	496	37,698	1,240	251	**50,223**
Nachingwea	9,311	0	1,223	26,897	564	96	**38,089**
Liwale	3,361	0	146	7,745	263	295	**11,837**
Ruangwa	7,745	0	532	19,667	1,898	762	**30,754**
Lindi Urban	587	45	0	3,341	0	93	**4,063**
Total	**37,886**	**327**	**2,633**	**119,081**	**4,991**	**1,802**	**166,898**

The general situation indicates an improvement whereby more households have abandoned the use of grass/leaves for roofing for other materials such as iron sheets in 2007/08 compared to the situation in 2002/03 (Agriculture Census data) when 81.3 % of the rural agricultural households used grass and/or leaves.

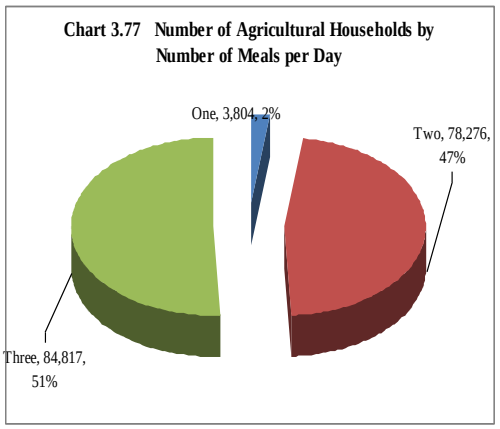
3.12.4 Food Consumption Pattern

3.12.4.1 Number of Meals per Day

The majority of households in Lindi region on average took three meals per day (50.8%), while 46.9% had two meals per day and the remaining 2.3% had one meal a day (Chart 3.77, Table 3.14 and Map 3.38).

Table 3.14: Number of Agricultural Households Reporting
No. of meals the household normally has per day by District, 2007/08

District	One	Two	Three	Total
Kilwa	315	12,930	18,686	**31,932**
Lindi Rural	744	22,941	26,538	**50,223**
Nachingwea	1,129	22,477	14,483	**38,089**
Liwale	555	4,706	6,576	**11,837**
Ruangwa	835	14,048	15,870	**30,754**
Lindi Urban	226	1,174	2,664	**4,063**
Total	**3,804**	**78,276**	**84,817**	**166,898**



3.12.4.2 Meat and Fish Consumption Frequencies

On the basis of responses on the meat consumption status during the week preceding the census the largest part of the population did not eat meat or fish. Comparatively, the number of households that had not eaten meat was slightly more than twice the number of households that had not eaten fish (Chart 3.78). The number of households that ate meat once a week was higher than the households that ate fish at the same frequence. However, households that consumed meat did so less frequently than those households that consumed fish (Chart 3.78 and Table 3.15 and 3.16). Very few households consumed meat more than thrice a week or fish more than five times a week.

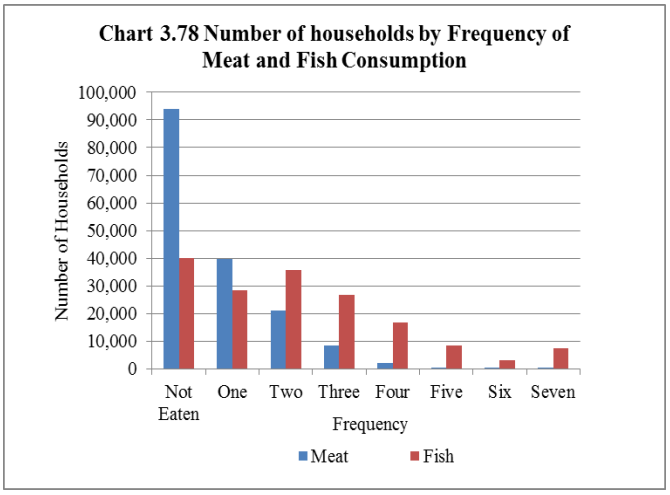


Table 3.15: Number of Agricultural Households Reporting Number of days the household Consumed Fish during the Preceding Week by District, 2007/08 Agricultural Year

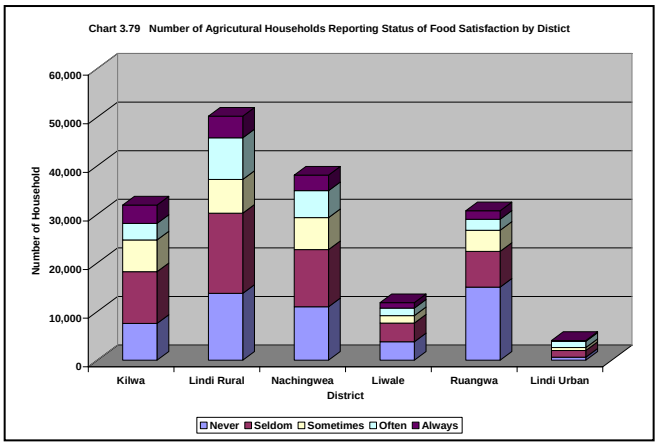
District	Not Eaten	One	Two	Three	Four	Five	Six	Seven	Total
Kilwa	4,494	6,229	5,913	5,361	3,863	2,208	552	3,311	**31,932**
Lindi Rural	8,308	8,060	9,053	10,665	7,316	3,224	1,612	1,984	**50,223**
Nachingwea	16,928	5,925	8,558	3,386	1,975	376	470	470	**38,089**
Liwale	4,969	1,958	2,367	1,403	468	380	29	263	**11,837**
Ruangwa	4,936	5,619	9,264	5,240	2,354	1,519	456	1,367	**30,754**
Lindi Urban	406	677	542	632	858	632	181	135	**4,063**
Total	**40,042**	**28,469**	**35,697**	**26,686**	**16,834**	**8,339**	**3,300**	**7,531**	**166,898**
%	**24**	**17.1**	**21.4**	**16**	**10.1**	**5**	**2**	**4.5**	**100**

Table 3.16: Number of Agricultural Households Reporting Number of days the household Consumed Meat during the Preceding Week by District, 2007/08 Agricultural Year

District	Not Eaten	One	Two	Three	Four	Five	Six	Seven	Total
Kilwa	15,926	10,092	3,785	1,735	79	237	0	79	**31,932**
Lindi Rural	35,466	8,805	3,472	1,860	372	124	124	0	**50,223**
Nachingwea	23,229	8,464	3,950	1,223	846	188	0	188	**38,089**
Liwale	5,641	3,420	1,988	468	234	0	58	29	**11,837**
Ruangwa	10,783	8,429	7,669	2,810	759	76	0	228	**30,754**
Lindi Urban	2,980	451	316	316	0	0	0	0	**4,063**
Total	**94,026**	**39,661**	**21,180**	**8,411**	**2,290**	**625**	**182**	**524**	**166,898**
%	**56.3**	**23.8**	**12.7**	**5**	**1.4**	**0.4**	**0.1**	**0.3**	**100**

3.12.5 Food Security

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 (Chart 3.79).

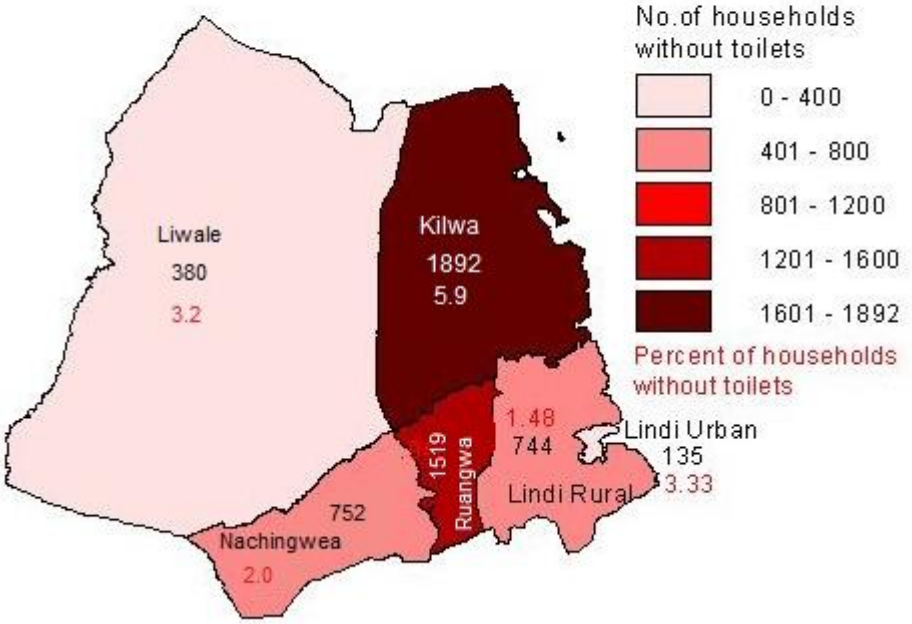


The combined total of households reporting never to have experienced food insecurity or seldom being in such a status was used as a proxy for food security status. On the basis of this classification, the most food secure district was Ruangwa which had the largest proportion of the households (72.8%) in this category and Lindi Urban with the lowest proportion in this category (48.9%) was the most food insecure in the region.

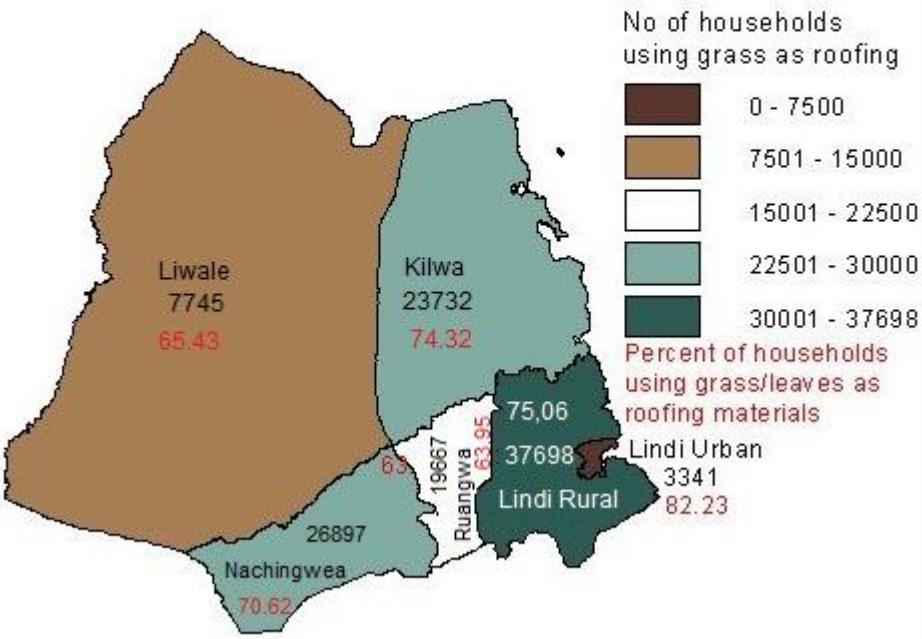
Table 3.17: Number and percent of Agricultural Households Reporting the status of food satisfaction by District

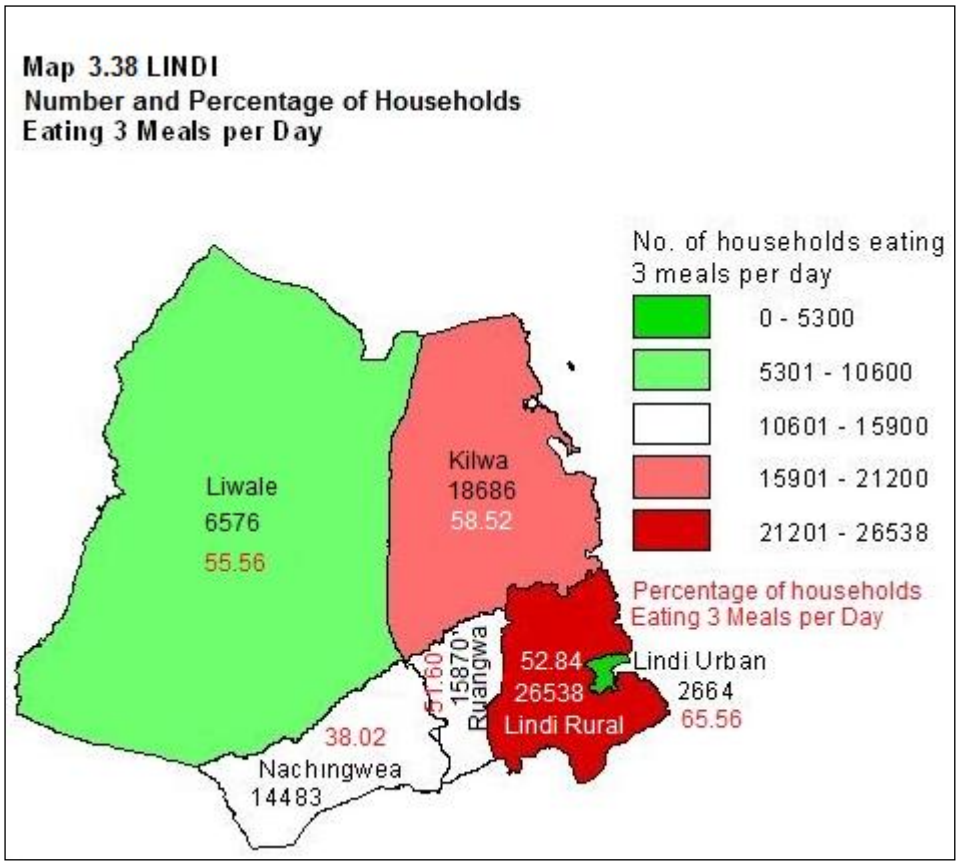
District	Status of Food Insufficiency							
	Never	Seldom	Sometimes	Often	Always	Total No. of Households	% of hh Never Experienced Food Shortage	% of hh never or seldom experienced food shortage
Kilwa	7,569	10,644	6,544	3,390	3,785	31,932	24	57
Lindi Rural	13,765	16,493	6,944	8,557	4,464	50,223	27	60.2
Nachingwea	11,003	11,756	6,583	5,549	3,198	38,089	29	59.8
Liwale	3,800	3,829	1,549	1,549	1,111	11,837	32	64.5
Ruangwa	15,035	7,366	4,328	2,278	1,747	30,754	49	72.8

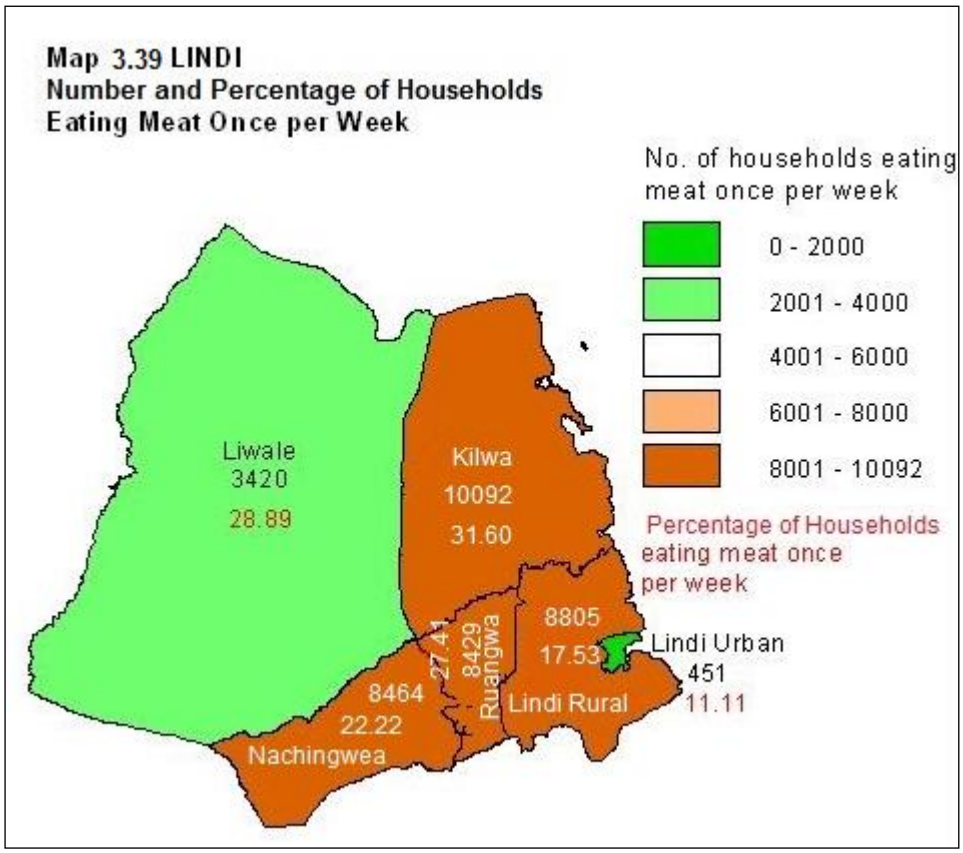
Map 3.36 LINDI
Number and Percentage of Households Without Toilets by District

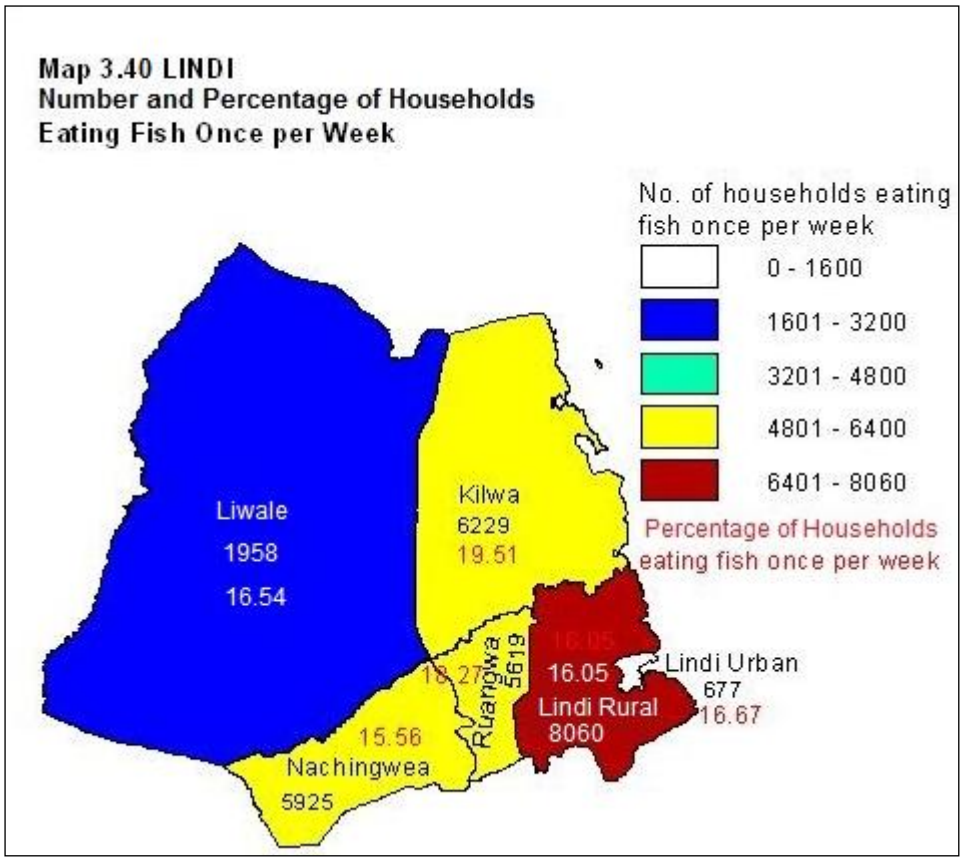


Map 3.37 LINDI
Number and Percentage of Households Using Grass/Leaves as Roofing Materials




Map 3.38 LINDI
Number and Percentage of Households
Eating 3 Meals per Day
No. of households eating
3 meals per day
0 - 5300
5301 - 10600
10601 - 15900
15901 - 21200
21201 - 26538
Percentage of households
Eating 3 Meals per Day
Liwale
6576
55.56
Kilwa
18686
58.52
51.60
15870
Ruangwa
52.84
26538
Lindi Rural
Lindi Urban
2664
65.56
38.02
Nachingwea
14483


Map 3.39 LINDI
Number and Percentage of Households
Eating Meat Once per Week
No. of households eating
meat once per week
0 - 2000
2001 - 4000
4001 - 6000
6001 - 8000
8001 - 10092
Percentage of Households
eating meat once
per week
Liwale
3420
28.89
Kilwa
10092
31.60
27.41
8429
Ruangwa
8805
17.53
Lindi Urban
451
11.11
Lindi Rural
8464
22.22
Nachingwea


Map 3.40 LINDI
Number and Percentage of Households
Eating Fish Once per Week
No. of households eating fish once per week
0 - 1600
1601 - 3200
3201 - 4800
4801 - 6400
6401 - 8060
Percentage of Households eating fish once per week
Liwale
1958
16.54
Kilwa
6229
19.51
Ruangwa
5619
16.05
Lindi Rural
8060
Lindi Urban
677
16.67
15.56
Nachingwea
5925

4 LINDI PROFILES

Lindi is one of the regions (including Mtwara, Ruvuma and Tabora regions) with at least 50% or slightly more of the households reporting land sufficiency while all other regions reported land sufficiency below 50%.

Lindi had the second largest area planted with coconuts (23,755 ha, 19.85%) after Pwani (43,215 ha, 36.1%) and the second largest number of households involved in pigeon pea production (40,405). Besides, it had the third largest area planted using fungicides (31,071 ha) after Mtwara (51,478 ha) and Mbeya (41,487 ha).

Also, Lindi had only 1.08% of the planted area under irrigation, which is lower than Mtwara (1.16%) but higher than Dodoma which had the lowest proportion (0.07%). Furthermore, Lindi had the lowest percentage of households having access to extension advice (40.8%) but better than Zanzibar (33.6%).

4.1 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.

4.1.1 Kilwa

Kilwa district had the third largest number of agricultural households (31,932 hh, 19%) in the region. Most of its households (26,886 hh, 84%) were involved in crop farming only followed by crops and livestock production (4,967 hh, 16%). It had no livestock only households and no pastoralists.

The most important livelihood activity for smallholder households in Kilwa district was annual crop farming. Compared to other districts in the region, Kilwa had a relatively high percentage of female headed households (25%). Its average household size of 5 members per household was slightly higher than that of the region. Kilwa had a relatively high literacy rate of 71% for its agricultural household members, reflected by the relatively high level of school attendance in the district. The literacy rate of 55% for the heads of household was the smallest in the region.

The district had the largest the fifth largest planted area of maize (7,585 hh, 10%) in the region and the planted area per household was also the fourth largest (0.52 ha/hh) in the region. Paddy was planted on 5,876 hectares and sorghum had the largest planted area (12,274 ha, 10%) in the region. Beans were not produced in the district. Traditional cash crops (e.g tobacco and cotton) were not grown in the district.

Compared to other districts in the region, Kilwa had the second largest planted area (37,693 ha, 20%) with permanent crops in the region, dominated by cashewnut (14,950 ha), coconut (12,469 ha) and cassava (4,836 ha). Other permanent crops were either not grown or were grown in very small quantities.

As with other districts in the region, most most of the land clearing and preparation was done by hand; however, slightly more land preparation was done by tractor and oxen compared to other districts.

The use of inputs in the region was very small; however, district differences existed. Kilwa had the second largest area (4,011 ha) planted with improved seed in the region during the long rainy season. The district had no planted area with fertilizers (organic and inorganic).

Kilwa district had the second lowest level of insecticide use (147 ha) during the long rainy season. The use of fungicides was the highest in the region (1,117 ha) during the long rainy season. The most common source of water for irrigation was from rivers using gravity.

Most of the households (96%) stored crops in the district and the most common method of crop storage was the locally made traditional structures (47%) and sacks (31%). The proportion of households (96%) storing crops in the district was the third highest in the region; however, for those which did not sell, the main reason for not selling was the low open market price. However, the district had no access to credit.

A comparatively small number of households (2,681 hh, 8%) received crop extension services in the district and almost all the service was from the government. The quality of extension services was rated between good and average by the majority of the households. The use of erosion control and water harvesting structures were very minimal in the district.

The district had the largest number of cattle (19,080 heads, 62%) and sheep (1,971 heads, 40%) in

the region and most of them were indigenous. Goats were the second largest (59,764 heads, 38%) compared to other districts and no pigs were raised in the district. The largest number of chicken (485,205, 31%) was in the district. The district also had the largest number of ducks (5,913) and no donkeys or rabbits. It had the second largest number of households (473 hh) that reported tsetse flies problems and the largest number of households (1,892 hh) that reported tick problems and it had the fourth largest number of households (2,286 hh) which de-wormed livestock.

Fish farming was not practiced in the district. Kilwa had the largest percentage (6%) of its households without toilet facilities and had the third highest percentage (10%) of its households owning vehicles, bicycles (49%), and the second highest percentage (78%) of the households with radio, mobile phone (25%) and pressing iron (18%). The district had the third smallest percentage (3%) of its households with grass/leaves roofs and small percentage (20%) of the households with iron sheet roofs. The most common source of drinking water was the unprotected well used by 39% of the households. About 59% of its households had three meals per day and about 40% had two meals per day. The district had 33 percent of its households that seldom had problems with food satisfaction.

4.1.2 Lindi Rural

Lindi Rural district had the largest number of agricultural households (50,089 hh, 30%) involved in smallholder agriculture in the region. Most of the smallholders in the district (43,155 hh, 86%) were involved in crops only production, followed by crops and livestock (7,068 hh, 14%). It had no households raising livestock only or pastoralists.

The most important livelihood activity for the smallholder households in the district was annual crop farming, followed by off-farm income. Compared to other districts in the region, Lindi Rural had a relatively high percentage of male headed households (74%). Its average household size of 4 members per household was the same as that of the region. Lindi Rural had the least literacy rate (66%) for its agricultural household members and this was reflected by the district having low level of school attendance in the district.

The district was engaged in maize production with a planted area of 12,843 ha (17%) and the planted area per maize growing households was the second lowest (0.43 ha/hh) in the region. The district had the largest planted area with paddy (8,987 ha, 49%) in the region. The district had the

second largest area (11,316 ha, 30%) planted with sorghum. Cassava was not planted in the region with. The planted area with beans in the district was the second largest (291 ha, 33%), it also had the largest groundnut planted area (1,180 ha, 49%) in the region with a planted area per groundnut growing household of 0.4 ha.

Vegetables were planted in in the district. Although small, it had the largest planted area for tomatoes (133 ha, 34%) planted by 496 households. Traditional cash crops (e.g. tobacco and cotton) were not grown in the district.

Compared to other districts in the region, Lindi Rural had the second largest planted area with permanent crops (37,759 ha, 20%) dominated by cashewnut (24,868 ha, 66% of the total district permanent crops), coconut (6,997 ha, 19%) and cassava (3,849 ha, 10%). Other permanent crops were either not grown or were grown in very small quantities.

The use of inputs in the region was very small, however district differences existed. Lindi Rural district had the third largest area (3,271 ha) planted with improved seeds in the region. The district had the second largestt planted area (171 ha) applied with inorganic fertilizers during the long rainy season. Compared to other districts in the region, Lindi Rural district had the highest level of insecticide use (1,207 ha) during long rainy season. The use of fungicides, although small, was the fourth highest (213 ha) during the long rainy season compared to other districts. Application of herbicides was not implemented. It had the second largest irrigated area (961 ha). The most common source of water for irrigation was from river (1,488 hh) using gravity. Gravity was the major means of water application.

Most of the households (95%) stored crops and the most common method of crop storage in the district was the sacks/ open drum (75% of the households). Lindi Rural district was among the districts with higher percentage of households which sold crops (372 hh, 75%); however, for those that did not sell; the main reason for not selling was open market price too low. A comparatively small number of households (8,681 hh, 17%) received crop extension services in the district and most of the services (64%) were from the government and (25%) from cooperatives. The quality of extension services was rated between good and very good by the majority of the households

The district had the second largest number of cattle (6,200 heads, 20%) in the region and most of them (4.092 heads, 66%) were indigenous. Goat production was the highest (65,352 heads, 41%) compared to other districts while pig production was not practiced in the district. The district had the second largest number of chicken (415,052, 26%), some ducks and turkeys were also kept. Donkeys and rabbits were not reared in the district. A small number of households (one percent) reported tsetse fly problems and a large number (4%) reported tick problems and it had a larger number of households (13%) which de-wormed their livestock.

The percentage of households without toilet facility in the district was 1.5 percent and was among the districts with the highest percentage of households (56.3%) owning radios. Also, the district had the highest percentage of households with vehicles (5.2%), bicycles (34.6%), tv/video (2.7%), and mobile phones (19.8%). It had the second largest number of households (0.5%) using mains electricity for lightning in the region. The most common source of energy for lighting was the wick lamp (72%) and most of the households (96%) used firewood for cooking. The main roofing material for most of the households in the district was grass/leaves (75.1%) followed by iron sheets (20.7%). The most common source of drinking water was the piped water (25%) followed by unprotected well (24%). The district had 46 percent of its households having two meals per day. It had the highest percentage of households that did not eat meat (71%) and the second highest percentage of households that did not eat fish (17%) during the week prior to enumeration; however, most of the households (27%) seldom had problems with food satisfaction.

4.1.3 Nachingwea

Nachingwea district had the second largest number of agricultural households (38,089 hh, 23%) in the region. Most of the smallholders (92%) were involved in crop production, followed by crops and livestock (8%). The district was not involved in livestock only and pastoralism.

The most important livelihood activity for the smallholder households in the district was annual crop farming, followed by permanent crop farming. Its average household size of 4 members per household was the same as that of the region. Nachingwea had the second highest literacy rate (74%) of its agricultural household members and this was reflected by the relatively high level of school attendance in the district. The literacy rate for the heads of household was the third highest (58%) in the region.

Nachingwea district had the second largest percentage of the area under permanent crops (63,507 ha, 33.8% of the total permanent crops planted area in the region). The most prominent permanent crops in the district included cashewnut (44,026 ha) and pigeon pea (8,971 ha). Other permanent crops were either not grown or were grown in very small land areas.
As with other districts in the region, most of the land clearing and preparation was done by hand.

The use of inputs in the region was relatively small, however, district differences existed. Nachingwea had the largest area (4,026 ha) planted with improved seeds in the region and this was due to the dominance of cashewnut crop which most of its new seedlings came from improved seeds. The district had the largest planted area (194 ha) applied with inorganic fertilizers during the long rainy season. Compared to other districts in the region, Nachingwea district had the second least area applied with fungicides (111 ha) and the second largest area (183 ha) applied with herbicides during long rainy season. The use of pesticides was relatively small. It had no or very small irrigated area.
The most common method of crop storage in in the district was the locally made traditional structures (100%); and the proportion of households storing crops in the district was also 100 percent. A total of 14,107 households (38%) sold crops during the long rainy season; however, for those that did not sell; the main reason for not selling was insufficient production.

A comparatively smaller number of households (4,514 ha, 12%) received crop extension services in the district and most of the services were from the government.
The district had the third largest number of cattle (4,232 heads, 14%) in the region and most of them were indigenous. The number of goats (16,270 heads) and sheep (1,035 heads) were the third largest compared to other districts. It had the largest number of pigs (3,950 heads, 56%) in the region and the third largest number of chicken (4,796). The district had the largest number of ducks (51%) and turkeys (100%) in the region; however, it had no rabbits and donkeys. A small number of households (2%) reported tsetse fly and 7% reported tick problems. The district had the second largest number of households (4,232 hh, 24% of the regional total) which de- wormed livestock.

Nachingwea district had a relatively small percentage of its households (2%) with no toilet facilities. About 55% of its households owned bicycles, 50% owned radios, 8% owned vehicles and only 2% owned television/video. About 14% of the households had mobile phones. The use of

mains electricity in the district was almost insignificant. The most common source of energy for lighting was the wick lamp used by 69% of the households and practically, almost all households (97%) used firewood for cooking. The district had a high percentage of households with grass roofs (71%) and 24 percent of the households with roofs of iron sheets. The most common source of drinking water was the unprotected well used by 55% of the households. About 59% of the households in the district had two meals per day and 38 percent had three meals per day. The district had 61 percent of its households that did not eat meat and had 44 percent of its households that did not eat fish during the week prior to enumeration; however, 31 percent of the households seldom had problems with food satisfaction.

4.1.4 Liwale

Liwale district had the fifth largest number of agricultural households (11,837 hh, 7.1%) in the region. Most of the smallholders (10,990 hh, 93%) were involved in crop farming only, followed by crops and livestock (848 hh, 7%). It had no livestock only households and no pastoralists.

The most important livelihood activity for smallholder households in the district was annual crop farming, followed by tree/forest resources and permanent crop farming. However, the district had small percentage of its households (10.5%) with no off-farm income generating activities. The literacy rate for heads of household was the third highest (58%) in the region.

The district was engaged in maize production with a planted area of 7,776 ha. Paddy was planted on 1,331 hectares and sorghum was planted on 3,346 ha. Liwale was among the districts that did not produce wheat and several other annual crops. The district grew cassava on small scale (75 ha). The growing of beans was also on small scale (23 ha). Vegetable crops grown include; tomatoes (8 ha), okra (72 ha) and onions (3 ha). Traditional cash crops (e.g. tobacco and cotton) were not grown in the district.

Compared to other districts in the region, Liwale had the second smallest area planted with permanent crops (20,425 ha, 11%) dominated by cashewnut (17,551 ha), cassava (2,166 ha), pigeon pea (409 ha) and banana (134 ha). Other permanent crops were grown in very small land areas.

The use of inputs in the region was very small; however, district differences existed. Liwale had the fourth largest area (2,938 ha, 19%) planted with improved seeds during the long rainy season. The

district did not use fertilizers. Compared to other districts in the region, Liwale district had a lower level of insecticides use (237 ha). The use of fungicides was the third highest (225 ha) while the use of herbicides was the second highest (183 ha) compared to other districts. It had the third largest irrigated area in the region (278 ha). The most common source of water for irrigation was from rivers using hand bucket. Bucket /watering can were the most common means of water application.

Most of the households (98%) stored crps and the most common method of crop storage was the locally made traditional structures (50%) and sacks (25%) while other methods were used by a small number (25%) of the households. The district had all of its households (100%) selling crops. Although very small, access to credit in the district was to both male (75%) and female (25%) headed households and the main source of credit was the NGO/Projects (99%).
A comparatively large number of households (2,689 hh, 23%) received crop extension services and most of the services (78%) were from the government.

The district had the smallest number of cattle (58 heads), the second with smallest number of goats (818 heads) and sheep (88 heads) in the region. It had no pigs but had the fifth largest number of chicken (135,413). The district had a moderate number of ducks (3,887), and dogs (848). The district had the fourth largest number of households which reported tsetse fly and tick problems and it had the third least percentage (18%) of the households which de- wormed livestock.
Liwale district had the third smallest percentage of households (3.2%) with no toilet facilities and 67 percent of its households owning radios, 20% owning pressing iron and 57% owning bicycles. The most common source of energy for lighting was the wick lamp used by 69% of the households and practically, 96% of the households used firewood for cooking. The district had 65 percent of its households with grass roofs, and 28 percent having iron sheets as roofing material. The most common source of drinking water was the surface water used by 34% of the households. It had 40 percent of its households having two meals per day and 56 percent having three meals per day. The district had 48 percent of its households that did not eat meat during the week prior to enumeration and 42 percent did not eat fish during the same period, however, 32 percent of the households seldom had problems with food satisfaction.

4.1.5 Ruangwa

Ruangwa district had the fourth largest number of agricultural households (30,754 hh, 18.4%) in

the region. Most of the smallholders were involved in crop production only (29,007 hh, 94%) followed by crops and livestock production (1,747 hh, 6%). It had no livestock only households and no pastoralists.

Compared to other districts in the region, Ruangwa had a literacy rate of 69 percent among its agricultural household members. The literacy rate for the heads of household was the highest (61%) in the region.

The district had the second largest planted area with maize in the region (17,791 ha, 23.4%) and the planted area per household was the third highest (0.63 ha/hh) in the region. The district had the second smallest area planted with paddy (601 ha, 3.2%) but the planted area with sorghum was the fourth largest (4,223 ha, 11.3%). The district did not plant Irish potatoes. Beans and other traditional cash crops e.g. tobacco and cotton were grown in small areas.

Compared to other districts in the region, Ruangwa had the fourth largest area (27,066 ha, 14.4%) planted with permanent crops, dominated by cashewnut (21,048 ha, 75%), pigeon peas (4,450 ha, 15.9%), cassava (940 ha, 3.4%) and coconut (364 ha, 1.3%). Other permanent crops were either not grown or were grown in very small land areas. As with other districts in the region, most the land clearing and preparation was done by hand.

The use of inputs in the region was very small, however, district differences existed. Ruangwa had the fifth largest area (1,056 ha, 6.8%) planted with improved seeds in the region and had the least proportion (4%) of the households using improved seeds during the long rainy season. The district had a planted area (55 ha) applied with fertilizers. Compared to other districts in the region, the district had the largest area (398 ha, 14.6%) planted using insecticides during the long rainy season. The use of fungicides in the district was relatively low (655 ha, 28%). The use of herbicides was almost negligible in the district.

The district had the second largest number of households (987 hh, 35%) which practiced irrigation in the region. The most common source of water for irrigation was the river using hand bucket. Bucket/watering can was the most common means of water application.

A large number of households (28,628 hh, 90%) stored crops in the district. The most common method of crop storage was the locally made traditional structures; however, the proportion of

households not storing crops in the district was relatively small (10%) compared to other districts in the region. Ruangwa district had 100 percent of its households which sold crops. The district had credit facilities accessed mostly by males (10%).

A comparatively large number of households (4,100 hh, 13%) received crop extension services in Ruangwa district and mainly all of it was from the government.

The district had a small number of cattle (987 heads, 3.2%) and had the third smallest number of goats (10,859 heads, 6.8%), the second largest number of sheep (1,443 heads, 29.4%), the second largest number of pigs (3,113 heads, 44.1%) and the fourth largest number of chicken (204,873, 13%). Donkeys and turkeys were not reported in the district. A small number of households (380 hh, 2%) reported tsetse fly and (1,063 hh, 6%) reported tick problems in the district and it had the second highest number of households (4,708 hh, 26%) which de-wormed livestock. The ditrict did not practice fish farming.

The percentage of households without toilet facility in Ruangwa district was 4.9 percent. The district had relatively high percentages of households owning pressing iron (11.6%), bicycles (41.7%) and radio (45.4%). The most common source of energy for lighting was the wick lamp (75.3%) and almost all the households (96.5%) used firewood for cooking. The roofing material for most of the households in the district was grass/leaves (63.9%) and iron sheets (25.2%). The most common source of drinking water was the unprotected wells (53.8%). The largest number of households (51.6%) had three meals per day followed by two meals per day (45.7%). The district had a relatively large percentage of households (35%) that did not eat meat and (16%) that did not eat fish during the week prior to enumeration; however, a large number of households (48.9%) never had problems with food satisfaction.

4.1.6 Lindi Urban

Lindi Urban district had the smallest number of agricultural households (4,063 hh, 2.4%) in the region. Most of the smallholders (3,793 hh, 93%) were involved in crop and livestock farming (271 hh, 7%). It had no livestock only and no pastoralism.

The most important livelihood activity for smallholder households in Lindi Urban district was annual crop farming, followed by off farm income and permanent crop farming.

It had an average household size of 4 members per household, equal to the average for the region; the literacy rate for the heads of households was the second highest in the region.

The district had the smallest land area planted with maize (623 ha, 0.8%) in the region and had the smallest planted area per household (0.26 ha/hh) in the region. Paddy was also planted on the smallest area (70 ha, 0.4%) and the planted area with sorghum (1,326 ha, 3.5%) was the least in the region. Cassava was planted in the district. Oilseed crops were not important in Lindi Urban district with only 265 hectares. Vegetable production was also not important in the district with only 8 hectares. Traditional cash crops (e.g. tobacco and cotton) were not grown.

Compared to other districts in the region, Lindi Urban had the smallest area planted with permanent crops (1,389 ha, 0.7%), dominated by cashewnut (512 ha) and coconut (198 ha). Other permanent crops were either not grown or were grown in small areas. As with other districts in the region, most of the land clearing and preparation was done by hand.

The use of inputs in the region was very small; however, district differences existed. Lindi Urban had the least planted area with improved seeds in Lindi region and this was due to the small planted area of vegetables. The district had a small area applied with fertilizers (18 ha) Compared to other districts in the region, Lindi Urban district had the least level of insecticide use with only 5 hectares. The use of fungicides was not practiced in the district. Virtually, very little herbicide was used on only 5 hectares. The most common method of crop storage was the sacks (32%) and the locally made traditional structures (29%). The district had the smallest number of households (40%) selling crops. There was no household that accessed credit in the district.

A comparatively small number of households (1,400 hh, 34%) received crop extension services in Lindi Urban and all the services were from the government. Erosion control and water harvesting structures was never done in the district.

The district had the second smallest number of cattle (226 heads, 0.7%) in the region and most of them (60%) were of improved dairy. Goat production was small (1,671 heads, 1%) compared to other districts; no sheep or pig population in the district. It had the smallest number of chicken (18,782, 1.2%). The district had the lowest number of ducks (90) and no turkeys. The district had the smallest number of households (45 hh, 2%) which reported tsetse fly problems and (135 hh,5%) reported tick problems. The district had the smallest number of households which de-wormed livestock.

Lindi Urban district had 3.3 percent of its households with no toilet facilities and it had a large percentage of its households with radio (56%), mobile phones (22%) and bicycles (32%). The most common source of energy for lighting was the wick lamp used by 82% of the households and 96% used firewood for cooking. The district had 82 percent of its households with grass/leaves roofing and 14.4 percent of the households having iron sheets roofs. The most common source of drinking water was the unprotected well used by 30% of the households. The district had 66% of its households having three meals per day and 29% having two meals per day. The district had 73 percent of its households that did not eat meat and 10 percent that did not eat fish during the week prior to enumeration; however, 33 percent of the households seldom had problems with food satisfaction.

APPENDICES

Appendix I: Tabulation List

Appendix II: Tables

TYPE OF AGRICULTURE HOUSEHOLD

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

District	Rural Households involved in Agriculture	% of Total Rural Households	Rural households NOT involved in Agriculture	% of Total Rural Households	Total Rural Households	% of Total Households	Number of Urban Households	% of Total Households	Total Number of Households
Kilwa	31,932	100	0	0	31,932	85	5,783	15	37,715
Lindi Rural	50,223	100	0	0	50,223	82	11,238	18	61,461
Nachingwea	38,089	100	0	0	38,089	80	9,484	20	47,572
Liwale	11,837	100	0	0	11,837	72	4,526	28	16,363
Ruangwa	30,754	100	0	0	30,754	82	6,548	18	37,302
Lindi Urban	4,063	100	0	0	4,063	27	10,761	73	14,824
Total	166,898	100	-	-	166,898	78	48,339	22	215,237

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

District	Crops Only		Livestock Only		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	%			
Kilwa	26,886	84	79	0	4,967	16	31,932	31,853	5,046
Lindi Rural	43,155	86	0	0	7,068	14	50,223	50,223	7,068
Nachingwea	34,891	92	0	0	3,198	8	38,089	38,089	3,198
Liwale	10,990	93	0	0	848	7	11,837	11,837	848
Ruangwa	29,007	94	0	0	1,747	6	30,754	30,754	1,747
Lindi Urban	3,793	93	0	0	271	7	4,063	4,063	271
Total	148,721	89	79	0	18,098	11	166,898	166,819	18,177

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

	2.1 Type of Agriculture Household									
	Crops only		Livestock only		Pastoralist		Crops and Livestock		Total	
Size of Holding	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
0.01 - 0.50	16,122	11	79	100	0	0	936	5	17,137	10
0.51 - 1.00	29,801	20	0	0	0	0	2,047	11	31,849	19
1.01 - 1.50	26,689	18	0	0	0	0	2,510	14	29,199	17
1.51 - 2.00	18,380	12	0	0	0	0	1,984	11	20,363	12
2.01 - 2.50	24,890	17	0	0	0	0	4,253	24	29,143	17
2.51 - 3.00	7,856	5	0	0	0	0	911	5	8,767	5
3.01 - 3.50	6,110	4	0	0	0	0	867	5	6,978	4
3.51 - 4.00	3,015	2	0	0	0	0	499	3	3,514	2
4.01 -4.50	5,622	4	0	0	0	0	758	4	6,380	4
4.51 -5.00	1,584	1	0	0	0	0	840	5	2,424	1
Above 5	8,652	6	0	0	0	0	2,492	14	11,144	7
Total	**148,721**	**100**	**79**	**100**	**0**	**0**	**18,098**	**100**	**166,898**	**100**

HOUSEHOLD DEMOGRAPHICS

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

District	Male		Female		Total
	Number	Percent	Number	Percent	
Kilwa	23,969	75	7,963	25	31,932
Lindi Rural	37,326	74	12,897	26	50,223
Nachingwea	28,966	76	9,122	24	38,089
Liwale	10,025	85	1,812	15	11,837
Ruangwa	22,249	72	8,505	28	30,754
Lindi Urban	2,799	69	1,264	31	4,063
Total	125,334	75	41,564	25	166,898

3.2: 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	40,590	49	42,600	51	83,190	100
5 - 9	50,073	52	46,621	48	96,694	100
10 - 14	43,963	48	46,812	52	90,775	100
15 - 19	35,926	52	32,770	48	68,696	100
20 - 24	21,372	44	26,799	56	48,171	100
25 - 29	19,313	38	30,891	62	50,205	100
30 - 34	19,354	44	24,813	56	44,168	100
35 - 39	19,466	43	25,386	57	44,851	100
40 - 44	13,152	42	18,258	58	31,410	100
45 - 49	17,139	52	15,549	48	32,688	100
50 - 54	13,027	53	11,535	47	24,563	100
55 - 59	9,737	51	9,315	49	19,053	100
60 - 64	8,622	48	9,432	52	18,054	100
65 - 69	6,622	55	5,495	45	12,117	100
70 - 74	5,377	50	5,447	50	10,823	100
75 - 79	3,743	51	3,642	49	7,385	100
80 - 84	1,734	62	1,055	38	2,790	100
Above 85	1,524	43	2,028	57	3,552	100
Total	**330,734**	**48**	**358,449**	**52**	**689,182**	**100**

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

District	Male		Female		Total
	Number	Percent	Number	Percent	
Kilwa	73,325	49	78,923	51	152,247
Lindi Rural	93,502	49	103,794	51	197,296
Nachingwea	72,792	47	74,955	53	147,747
Liwale	29,520	50	32,239	50	61,759
Ruangwa	54,597	49	60,141	51	114,738
Lindi Urban	6,998	49	8,398	51	15,396
Total	330,734	49	358,449	51	689,182

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	
Kilwa	22,786	84	4,494	16	27,280	100	788	37	1,340	63	2,129	100
Lindi Rural	31,994	87	4,712	13	36,706	100	1,116	56	868	44	1,984	100
Nachingwea	21,537	93	1,693	7	23,229	100	2,069	41	3,009	59	5,079	100
Liwale	9,587	90	1,052	10	10,639	100	263	50	263	50	526	100
Ruangwa	18,300	92	1,595	8	19,895	100	1,595	38	2,582	62	4,176	100
Lindi Urban	2,257	86	361	14	2,619	100	181	50	181	50	361	100
Total	**106,461**	**88**	**13,907**	**12**	**120,368**	**100**	**6,012**	**42**	**8,243**	**58**	**14,255**	**100**

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

District	Living together						Separated					
	Male		Female		Total		Male		Female		Total	
Kilwa	0	0	0	0	0	0	394	25	1,183	75	1,577	100
Lindi Rural	1,364	69	620	31	1,984	100	2,108	40	3,100	60	5,208	100
Nachingwea	4,326	96	188	4	4,514	100	658	22	2,351	78	3,009	100
Liwale	58	67	29	33	88	100	117	50	117	50	234	100
Ruangwa	1,898	69	835	31	2,734	100	380	16	2,050	84	2,430	100
Lindi Urban	90	100	0	0	90	100	181	36	316	64	497	100
Total	**7,737**	**82**	**1,673**	**18**	**9,410**	**100**	**3,838**	**30**	**9,117**	**70**	**12,955**	**100**

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

District	Widowed						Total					
	Male		Female		Total		Male		Female		Total	
Kilwa	0	0	946	100	946	100	23,969	75	7,963	25	31,932	100
Lindi Rural	744	17	3,596	83	4,340	100	37,326	74	12,897	26	50,223	100
Nachingwea	376	17	1,881	83	2,257	100	28,966	76	9,122	24	38,089	100
Liwale	0	0	351	100	351	100	10,025	85	1,812	15	11,837	100
Ruangwa	76	5	1,443	95	1,519	100	22,249	72	8,505	28	30,754	100
Lindi Urban	90	18	406	82	497	100	2,799	69	1,264	31	4,063	100
Total	1,286	13	8,623	87	9,910	100	125,334	75	41,564	25	166,898	100

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

District	Yes						No					
	Male		Female		Total		Male		Female		Total	
Kilwa	12,378	80	3,154	20	15,532	100	11,590	71	4,809	29	16,400	100
Lindi Rural	15,253	83	3,224	17	18,477	100	21,825	69	9,673	31	31,498	100
Nachingwea	12,132	81	2,821	19	14,953	100	16,834	73	6,301	27	23,135	100
Liwale	4,764	86	760	14	5,524	100	5,261	83	1,052	17	6,313	100
Ruangwa	9,416	72	3,645	28	13,061	100	12,833	73	4,860	27	17,693	100
Lindi Urban	1,038	77	316	23	1,354	100	1,761	65	948	35	2,709	100
Total	54,982	80	13,920	20	68,902	100	70,105	72	27,643	28	97,748	100

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

District	Don't know						Total					
	Male		Female		Total		Male		Female		Total	
Kilwa	0	0	0	0	0	100	23,969	75	7,963	25	31,932	100
Lindi Rural	248	100	248	100	496	100	37,326	74	12,897	26	50,223	100
Nachingwea	0	0	0	0	0	100	28,966	76	9,122	24	38,089	100
Liwale	0	0	0	0	0	100	10,025	85	1,812	15	11,837	100
Ruangwa	0	0	0	0	0	100	22,249	72	8,505	28	30,754	100
Lindi Urban	0	0	0	0	0	100	2,799	69	1,264	31	4,063	100
Total	**248**	**100**	**248**	**100**	**496**	**100**	**125,334**	**75**	**41,564**	**25**	**166,898**	**100**

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

District	Yes						No					
	Male	%	Female	%	Total	%	Male	%	Female	%	Total	%
Kilwa	16,242	78	4,652	22	20,894	100	7,727	70	3,311	30	11,038	100
Lindi Rural	20,833	81	4,960	19	25,794	100	16,493	68	7,936	32	24,429	100
Nachingwea	16,176	78	4,514	22	20,690	100	12,696	73	4,608	27	17,305	100
Liwale	7,073	86	1,169	14	8,242	100	2,952	82	643	18	3,595	100
Ruangwa	12,833	74	4,556	26	17,389	100	9,416	70	3,949	30	13,365	100
Lindi Urban	1,309	62	813	38	2,122	100	1,490	77	451	23	1,941	100
Total	74,467	78	20,664	22	95,131	100	50,774	71	20,899	29	71,673	100

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

District	Don't know						Total					
	Male	%	Female	%	Total	%	Male	%	Female	%	Total	%
Kilwa	0	0	0	0	0	0	23,969	75	7,963	25	31,932	100
Lindi Rural	0	0	0	0	0	0	37,326	74	12,897	26	50,223	100
Nachingwea	94	100	0	0	94	100	28,966	76	9,122	24	38,089	100
Liwale	0	0	0	0	0	0	10,025	85	1,812	15	11,837	100
Ruangwa	0	0	0	0	0	0	22,249	72	8,505	28	30,754	100
Lindi Urban	0	0	0	0	0	0	2,799	69	1,264	31	4,063	100
Total	**94**	**100**	**0**	**0**	**94**	**100**	**125,334**	**75**	**41,564**	**25**	**166,898**	**100**

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

District	Swahili		Swahili & English		Any Other Language		Don't Read / Write		Total
	Number	%	Number	%	Number	%	Number	%	
Kilwa	87,122	66	4,652	1	0	4	38,318	29	131,038
Lindi Rural	106,150	61	6,448	1	248	4	59,896	34	174,602
Nachingwea	68,466	52	26,427	2	0	20	34,421	26	131,289
Liwale	28,936	55	9,031	3	0	17	13,211	25	52,581
Ruangwa	62,950	61	5,695	2	76	6	32,121	31	102,892
Lindi Urban	7,043	52	1,941	5	90	14	3,883	29	13,590
Total	360,668	60	54,195	1	414	9	181,849	30	605,993

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	%
Kilwa	18,134	83	3,785	17	21,919	100	1025	76	315	24	1,340	100
Lindi Rural	24,677	85	4,340	15	29,018	100	2480	87	372	13	2,852	100
Nachingwea	18,245	82	4,044	18	22,289	100	6395	76	1975	24	8,370	100
Liwale	6,401	89	789	11	7,190	100	2484	92	205	8	2,689	100
Ruangwa	14,504	76	4,480	24	18,984	100	2354	79	607	21	2,961	100
Lindi Urban	1,445	70	632	30	2,077	100	542	86	90	14	632	100
Total	83,406	82	18,070	18	101,476	100	15280	81	3565	19	18,845	100

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

District	Any Other Language						Don't Read / Write					
	Male	%	Female	%	Total	%	Male	%	Female	%	Total	%
Kilwa	0	0	0	0	0	0	4,809	55	3,863	45	8,673	100
Lindi Rural	248	100	0	0	248	100	9,921	55	8,184	45	18,105	100
Nachingwea	0	0	0	0	0	0	4,326	58	3,104	42	7,430	100
Liwale	0	0	0	0	0	100	1,140	58	818	42	1,958	100
Ruangwa	0	0	0	0	0	100	5,391	61	3,417	39	8,808	100
Lindi Urban	45	100	0	0	45	100	768	59	542	41	1,309	100
Total	293	100	0	0	293	100	26,355	57	19,929	43	46,284	100

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

District	Total					
	Male	%	Female	%	Total	%
Kilwa	23,969	75	7,963	25	31,932	100
Lindi Rural	37,326	74	12,897	26	50,223	100
Nachingwea	28,966	76	9,122	24	38,089	100
Liwale	10,025	85	1,812	15	11,837	100
Ruangwa	22,249	72	8,505	28	30,754	100
Lindi Urban	2,799	69	1,264	31	4,063	100
Total	125,334	75	41,564	25	166,898	100

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

District	Male						Female						Total					
	Can Read and Write		Can not Read and Write		Total		Can Read and Write		Can not Read and Write		Total		Can Read and Write		Can not Read and Write		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Kilwa	48,095	72	13,088	28	61,183	100	44,626	65	25,230	35	69,856	100	92,720	69	38,318	31	131,038	100
Lindi Rural	60,888	77	23,437	23	84,325	100	53,819	72	36,458	28	90,277	100	114,707	74	59,896	26	174,602	100
Nachingwea	50,691	91	14,107	9	64,798	100	46,177	87	20,314	13	66,491	100	96,868	89	34,421	11	131,289	100
Liwale	19,612	79	5,290	21	24,902	100	19,758	72	7,921	28	27,679	100	39,370	75	13,211	25	52,581	100
Ruangwa	35,917	80	12,833	20	48,750	100	34,854	73	19,288	27	54,142	100	70,771	76	32,121	24	102,892	100
Lindi Urban	4,605	80	1,580	20	6,185	100	5,102	69	2,303	31	7,404	100	9,707	75	3,883	25	13,590	100
Total	219,808	92	70,336	8	290,144	100	204,336	84	111,513	16	315,849	100	424,143	88	181,849	12	605,993	100

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

	Male						Female						Total					
	Can Read and Write		Can not Read and Write		Total		Can Read and Write		Can not Read and Write		Total		Can Read and Write		Can not Read and Write		Total	
District	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Kilwa	19,159	75	4,809	25	23,969	100	4,100	47	3,863	53	7,963	100	23,259	68	8,673	32	31,932	100
Lindi Rural	27,406	73	9,921	27	37,326	100	4,712	38	8,184	62	12,897	100	32,118	66	18,105	34	50,223	100
Nachingwea	24,640	93	4,326	7	28,966	100	6,019	79	3,104	21	9,122	100	30,659	90	7,430	10	38,089	100
Liwale	8,885	83	1,140	17	10,025	100	994	55	818	45	1,812	100	9,879	76	1,958	24	11,837	100
Ruangwa	16,858	85	5,391	15	22,249	100	5,088	64	3,417	36	8,505	100	21,945	80	8,808	20	30,754	100
Lindi Urban	2,032	78	768	22	2,799	100	722	49	542	51	1,264	100	2,754	73	1,309	27	4,063	100
Total	98,979	92	26,355	8	125,334	100	21,635	74	19,929	26	41,564	100	120,614	89	46,284	11	166,898	100

3.11: Number of Household Members by Education Status and District

District	Attending School	%	Completed	%	Never Attended to School	%	Total
Kilwa	40,368	24	54,166	20	36,505	22	131,038
Lindi Rural	45,883	27	73,288	27	55,431	33	174,602
Nachingwea	35,832	21	66,021	25	29,436	18	131,289
Liwale	18,180	11	23,996	9	10,405	6	52,581
Ruangwa	27,413	16	44,574	17	30,906	19	102,892
Lindi Urban	4,063	2	6,140	2	3,386	2	13,590
Total	171,738	100	268,185	100	166,069	100	605,993

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

District	Attending School						Completed					
	Male		Female		Total		Male		Female		Total	
Kilwa	237	60	158	40	394	100	18,844	83	3,942	17	22,786	100
Lindi Rural	372	100	0	0	372	100	26,910	84	4,960	16	31,870	100
Nachingwea	376	80	94	20	470	100	24,640	80	6,113	20	30,753	100
Liwale	58	100	0	0	58	100	8,944	90	994	10	9,938	100
Ruangwa	152	100	0	0	152	100	16,782	78	4,784	22	21,566	100
Lindi Urban	0	0	0	0	0	0	2,032	74	722	26	2,754	100
Total	1,195	83	252	17	1,447	100	98,151	82	21,516	18	119,666	100

3.13: 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	
Kilwa	4,888	56	3,863	44	8,752	100	23,969	75	7,963	25	31,932	100
Lindi Rural	10,045	56	7,936	44	17,981	100	37,326	74	12,897	26	50,223	100
Nachingwea	3,950	58	2,915	42	6,865	100	28,966	76	9,122	24	38,089	100
Liwale	1,023	56	818	44	1,841	100	10,025	85	1,812	15	11,837	100
Ruangwa	5,315	59	3,721	41	9,036	100	22,249	72	8,505	28	30,754	100
Lindi Urban	768	59	542	41	1,309	100	2,799	69	1,264	31	4,063	100
Total	25,989	57	19,796	43	45,785	100	125,334	75	41,564	25	166,898	100

3.14: 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	%
Kilwa	79	0	237	0	315	1	1,025	2	3,233	6	867	2
Lindi Rural	0	0	496	1	1,488	2	1,860	3	10,417	14	2,480	3
Nachingwea	0	0	658	1	1,975	3	1,975	3	8,558	13	1,411	2
Liwale	0	0	263	1	438	2	468	2	1,286	5	409	2
Ruangwa	0	0	152	0	683	2	1,519	3	6,227	14	1,215	3
Lindi Urban	0	0	135	2	226	4	361	6	1,174	19	181	3
Total	79	0	1,941	1	5,126	2	7,208	3	30,894	12	6,563	2

cont 3.14 Number of Agricultural Household Members By Level of Formal Education Completion and District, 2007/08 Agricultural Year

	Education Level											
	Standard Six		Standard Seven		Standard Eight		Training After Primary Education		Pre Form One		Form One	
District	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Kilwa	1,183	2	44,704	83	158	0	79	0	79	0	0	0
Lindi Rural	2,232	3	48,363	66	992	1	248	0	0	0	0	0
Nachingwea	1,129	2	46,553	71	564	1	94	0	188	0	564	1
Liwale	292	1	19,144	80	117	0	58	0	58	0	58	0
Ruangwa	1,291	3	30,982	70	456	1	228	1	76	0	0	0
Lindi Urban	361	6	3,296	54	45	1	45	1	0	0	45	1
Total	6,488	2	193,042	72	2,332	1	752	0	401	0	668	0

cont 3.14: Number of Agricultural Household Members By Level of Formal Education Completion and District, 2007/08 Agricultural Year

	Education Level											
	Form Two		Form Three		Form Four		Form Five		Form Six		Training After Secondary Education	
District	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Kilwa	315	1	79	0	788	1	0	0	0	0	79	0
Lindi Rural	496	1	248	0	1,488	2	0	0	124	0	248	0
Nachingwea	564	1	282	0	846	1	0	0	0	0	188	0
Liwale	351	1	29	0	292	1	0	0	29	0	263	1
Ruangwa	380	1	228	1	532	1	0	0	0	0	76	0
Lindi Urban	0	0	90	1	90	1	0	0	45	1	0	0
Total	2,106	1	956	0	4,037	2	0	0	198	0	854	0

cont 3.14: Number of Agricultural Household Members By Level of Formal Education Completion and District, 2007/08 Agricultural Year

	Education Level							
	University & Other Tertiary Education		Adult Education		Not applicable		Total	
District	Number	%	Number	%	Number	%	Number	%
Kilwa	0	0	867	2	79	0	54,166	100
Lindi Rural	124	0	1,612	2	372	1	73,288	100
Nachingwea	0	0	376	1	94	0	66,021	100
Liwale	0	0	409	2	29	0	23,996	100
Ruangwa	0	0	304	1	228	1	44,574	100
Lindi Urban	0	0	0	0	45	1	6,140	100
Total	124	0	3,568	1	847	0	268,185	100

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

	Involvement in Farming									
	Works Full-time on Farm		Works Part-time on Farm		Rarely Works on Farm		Never Works on Farm		Total	
District	Number	%	Number	%	Number	%	Number	%	Number	%
Kilwa	64,258	49	5,519	4	22,234	17	39,028	30	131,038	100
Lindi Rural	102,306	59	6,820	4	14,881	9	50,595	29	174,602	100
Nachingwea	77,682	59	2,539	2	7,148	5	43,920	33	131,289	100
Liwale	25,575	49	2,484	5	4,180	8	20,343	39	52,581	100
Ruangwa	59,153	57	2,582	3	4,860	5	36,297	35	102,892	100
Lindi Urban	5,824	43	1,535	11	2,438	18	3,793	28	13,590	100
Total	334,798	55	21,480	4	55,740	9	193,974	32	605,993	100

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

	Main Activity									
	Crop/Seaweed Farming		Livestock Keeping / Herding		Livestock Pastoralist		Fishing		Fish Farming	
District	Number	%	Number	%	Number	%	Number	%	Number	%
Kilwa	66,071	53	237	1	0	0	4,021	0	79	0
Lindi Rural	102,554	35	124	12	0	1	744	0	0	0
Nachingwea	80,127	41	282	1	0	0	282	0	0	0
Liwale	25,954	46	0	2	0	0	175	0	88	0
Ruangwa	60,141	54	76	1	0	0	152	0	456	0
Lindi Urban	6,231	46	0	1	0	0	768	2	0	0
Total	**341,078**	**25**	**719**	**3**	**0**	**0**	**6,142**	**1**	**622**	**0**

Cont 3.16: Number of Agricultural Household Members By Main Activity and District, 2007/08 Agricultural Year

	Main Activity									
	Government / Parastatal		Private - NGO / Mission / etc		Self Employed (Non Farmimg) with Employees		Self Employed (Non Farmimg) without Employees		Unpaid Family Helper (Non Agriculture)	
District	Number	%	Number	%	Number	%	Number	%	Number	%
Kilwa	710	0	1,577	0	1,813	1	237	1	79	0
Lindi Rural	992	1	744	2	1,116	1	744	1	1,364	1
Nachingwea	282	2	470	3	564	2	188	2	564	0
Liwale	526	1	818	1	322	1	322	1	117	0
Ruangwa	304	0	1,443	0	532	1	304	0	759	1
Lindi Urban	**90**	0	451	1	226	1	587	1	90	1
Total	**2,904**	**0**	**5,504**	**5**	**4,573**	**4**	**2,381**	**6**	**2,974**	**2**

Cont 3.16: Number of Agricultural Household Members By Main Activity and District, 2007/08 Agricultural Year

District	Main Activity													
	Not Working & Available		Not Working & Unavailable		Housemaker / Housewife		Student		Unable to Work / Too Old / Retired / Sick / Disabled		Other		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Kilwa	79	0	79	0	710	1	40,605	31	14,665	11	79	0	131,038	100
Lindi Rural	744	0	620	0	1,116	1	44,767	26	18,477	11	496	0	174,602	100
Nachingwea	376	0	94	0	0	0	35,267	27	12,602	10	188	0	131,289	100
Liwale	88	0	117	0	322	1	18,121	34	5,583	11	29	0	52,581	100
Ruangwa	835	1	456	0	152	0	26,881	26	10,175	10	228	0	102,892	100
Lindi Urban	90	1	45	0	135	1	3,973	29	858	6	45	0	13,590	100
Total	**2,212**	**0**	**1,411**	**0**	**2,434**	**0**	**169,614**	**28**	**62,360**	**10**	**1,065**	**0**	**605,993**	**100**

LAND OWNERSHIP AND LAND USE

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

District	Land ownership/tenure															
	Leased / Certificate of Ownership		Owned under Customary Law		Bought		Rented		Borrowed		Households with area Share - cropped		Households with area under Other forms of Tenure			Total number of households
	No of Households	%	No of Households	%	No of Households	%	No of Households	%	No of Households	%	No of Households	%	No of Households	%		
Kilwa	315	1.0	29,172	91.4	3,469	10.9	158	0.5	1,340	4.2	158	0.5	710	2.2		31,932
Lindi Rural	992	2.0	39,930	79.5	4,340	8.6	3,348	6.7	6,448	12.8	496	1.0	2,108	4.2		50,223
Nachingwea	1,693	4.4	34,421	90.4	4,796	12.6	188	0.5	1,411	3.7	0	0.0	1,881	4.9		38,089
Liwale	438	3.7	10,756	90.9	731	6.2	0	0.0	380	3.2	146	1.2	1,081	9.1		11,837
Ruangwa	4,784	15.6	23,160	75.3	4,252	13.8	1,443	4.7	1,671	5.4	76	0.2	532	1.7		30,754
Lindi Urban	858	21.1	2,619	64.4	497	12.2	45	1.1	497	12.2	45	1.1	90	2.2		4,063
Total	9,080	5.4	140,058	83.9	18,085	10.8	5,182	3.1	11,747	7.0	921	0.6	6,402	3.8		166,898

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
Kilwa	383	58,415	5,347	112	1,309	64	1,915	67,544
Lindi Rural	778	68,394	7,945	1,945	4,933	351	2,498	86,844
Nachingwea	2,703	83,260	10,223	114	895	.	3,551	100,746
Liwale	1,183	31,417	1,455	.	373	166	3,216	37,810
Ruangwa	7,294	39,436	5,910	884	953	61	330	54,869
Lindi Urban	896	2,280	923	18	274	18	55	4,465
Total	**13,237**	**283,202**	**31,804**	**3,074**	**8,736**	**661**	**11,564**	**352,278**
%	**282,164**	**6,036,667**	**677,924**	**65,515**	**186,218**	**14,084**	**246,506**	**7,509,078**

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
Kilwa	23,653	74	8,279	26	31,932
Lindi Rural	34,846	69	15,377	31	50,223
Nachingwea	27,179	71	10,909	29	38,089
Liwale	8,622	73	3,215	27	11,837
Ruangwa	21,793	71	8,960	29	30,754
Lindi Urban	2,980	73	1,084	27	4,063
Total	119,074	71	47,824	29	166,898

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
Kilwa	17,819	56	14,113	44	31,932
Lindi Rural	27,034	54	23,189	46	50,223
Nachingwea	26,051	68	12,038	32	38,089
Liwale	5,583	47	6,255	53	11,837
Ruangwa	17,693	58	13,061	42	30,754
Lindi Urban	2,032	50	2,032	50	4,063
Total	96,210	58	70,688	42	166,898

4.5: Number of Agriculture Households By Whether Female Members of the Household Own or Have Cusomary 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
Kilwa	2,681	8	29,251	92	31,932
Lindi Rural	12,649	25	37,574	75	50,223
Nachingwea	13,637	36	24,452	64	38,089
Liwale	2,075	18	9,762	82	11,837
Ruangwa	9,340	30	21,414	70	30,754
Lindi Urban	1,987	49	2,077	51	4,063
Total	42,368	25	124,530	75	166,898

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

Districts	Type of land use												
	Households under Temporary Mono Crops	Households under Temporary Mixed Crops	Households under Permanent Mono Crops	Households under Permanent Mixed Crops	Households under Permanent / Annual Mix	Households under Pasture	Households under Fallow	Households under Natural Bush	Households under Planted Trees	Households Rented to Others	Households Unusable	Households of Uncultivated Usable Land	Total number of households
Kilwa	16,242	10,329	7,411	5,992	7,017	0	3,942	158	0	0	394	2,286	53,771
Lindi Rural	33,234	18,849	14,137	3,596	4,960	0	8,929	992	0	1,240	372	2,356	88,665
Nachingwea	10,063	18,527	12,226	2,633	18,527	282	6,771	1,223	0	94	0	1,975	72,322
Liwale	5,992	6,138	6,255	643	2,484	58	1,637	88	0	0	0	994	24,288
Ruangwa	14,276	11,922	10,707	759	9,036	228	3,341	152	76	380	152	3,265	54,294
Lindi Urban	1,445	2,032	406	271	768	45	361	135	0	0	90	226	5,779
Total	**81,251**	**67,796**	**51,142**	**13,895**	**42,793**	**614**	**24,981**	**2,747**	**76**	**1,714**	**1,008**	**11,102**	**299,119**

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)
Kilwa	18,969	9,873	12,146	6,785	11,392	.	5,403	128	.	.	255	2,594	67,544
Lindi Rural	26,483	15,355	20,257	3,143	6,489	.	9,175	1,858	.	954	269	2,862	86,844
Nachingwea	9,761	21,234	14,122	2,966	37,582	114	10,073	2,380	.	76	.	2,437	100,746
Liwale	7,382	8,454	13,667	632	3,985	50	2,295	47	.	.	.	1,297	37,810
Ruangwa	11,850	10,537	10,942	862	11,723	307	3,828	108	31	492	146	4,043	54,869
Lindi Urban	781	1,275	274	384	704	9	484	91	.	.	110	352	4,465
Total	**75,227**	**66,728**	**71,408**	**14,773**	**71,875**	**480**	**31,259**	**4,611**	**31**	**1,522**	**780**	**13,584**	**352,278**
%	**25.1**	**22.3**	**23.9**	**4.9**	**24.0**	**0.2**	**10.5**	**1.5**	**0.0**	**0.5**	**0.3**	**4.5**	**118**

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 Kilwa District

	SHORT RAINY SEASON						LONG RAINY SEASON					
	Male		Female		Total		Male		Female		Total	
Crop	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %
Maize	-	-	-	-	-	-	9,934	68	4,731	32	14,665	100
Paddy	-	-	-	-	-	-	6,781	64	3,785	36	10,565	100
Sorghum	-	-	-	-	-	-	13,403	73	4,967	27	18,371	100
Bulrush Millet	-	-	-	-	-	-	315	100	-	-	315	100
Finger Millet	-	-	-	-	-	-	-	-	-	-	-	-
Wheat	-	-	-	-	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-	-	-	-	-
CEREALS	-	-	-	-	-	-	30,434	69	13,482	31	43,916	100
Cassava	-	-	-	-	-	-	-	-	-	-	-	-
Sweet Potatoes	-	-	-	-	-	-	-	-	-	-	-	-
Irish Potatoes												
Yams	-	-	-	-	-	-	-	-	-	-	-	-
CocoYams												
ROOTS & TUBERS	-	-	-	-	-	-	-	-	-	-	-	-
Beans	-	-	-	-	-	-	-	-	-	-	-	-
Cowpeas	-	-	-	-	-	-	1,025	68	473	32	1,498	100
Green gram	-	-	-	-	-	-	79	100	-	-	79	100
Chick Peas	-	-	-	-	-	-						
Bambaranuts	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	-	-	-	-	-	-	**1,104**	**70**	**473**	**30**	**1,577**	**100**
Sunflower	-	-	-	-	-	-	-	-	-	-	-	-
Simsim	-	-	-	-	-	-	8,909	78	2,523	22	11,432	100
Groundnut	-	-	-	-	-	-	-	-	-	-	-	-
Soya Beans	-	-	-	-	-	-	-	-	-	-	-	-
Castor Seed	-	-	-	-	-	-	-	-	-	-	-	-
OIL SEEDS & OIL NUTS	-	-	-	-	-	-	**8,909**	**78**	**2,523**	**22**	**11,432**	**100**

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

	SHORT RAINY SEASON						LONG RAINY SEASON					
	Male		Female		Total		Male		Female		Total	
Crop	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %
Okra	-	-	-	-	-	-	79	100	-	-	79	100
Radish	-	-	-	-	-	-	-	-	-	-	-	-
Turmeric	-	-	-	-	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	158	100	-	-	158	100
Chillies	-	-	-	-	-	-	-	-	-	-	-	-
Amaranths	-	-	-	-	-	-	-	-	-	-	-	-
Pumpkins	-	-	-	-	-	-	-	-	-	-	-	-
Cucumber	-	-	-	-	-	-	-	-	-	-	-	-
Egg Plant	-	-	-	-	-	-	-	-	-	-	-	-
Water Mellon												
FRUITS & VEGETABLES	**-**	**-**	**-**	**-**	**-**	**-**	**237**	**100**	**-**	**-**	**237**	**100**
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Pyrethrum	-	-	-	-	-	-	-	-	-	-	-	-
Jute	-	-	-	-	-	-	-	-	-	-	-	-
CASH CROPS	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	40,683	71	16,478	29	57,162	100

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 Lindi Rural District

	SHORT RAINY SEASON						LONG RAINY SEASON					
	Male		Female		Total		Male		Female		Total	
Crop	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %
Maize	248	100	-	-	248	100	21,453	74	7,564	26	29,018	100
Paddy	124	50	124	50	248	100	12,153	69	5,456	31	17,609	100
Sorghum	-	-	-	-	-	-	15,005	66	7,688	34	22,693	100
Bulrush Millet	-	-	-	-	-	-	-	-	-	-	-	-
Finger Millet	-	-	-	-	-	-	-	-	-	-	-	-
Wheat												
Barley												
CEREALS	**372**	**75**	**124**	**25**	**496**	**100**	**48,611**	**70**	**20,709**	**30**	**69,320**	**100**
Cassava	-	-	-	-	-	-	-	-	-	-	-	-
Sweet Potatoes	-	-	-	-	-	-	-	-	-	-	-	-
Irisht Potatoes												
Yams	-	-	-	-	-	-	124	100	-	-	124	100
Coco Yams												
ROOTS & TUBERS	**-**	**-**	**-**	**-**	**-**	**-**	**124**	**100**	**-**	**-**	**124**	**100**
Beans	-	-	-	-	-	-	372	60	248	40	620	100
Cowpeas	-	-	-	-	-	-	2,232	67	1,116	33	3,348	100
Green gram	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas												
Bambaranuts	-	-	-	-	-	-	496	100	-	-	496	100
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	**-**	**-**	**-**	**-**	**-**	**-**	**3,100**	**69**	**1,364**	**31**	**4,464**	**100**
Sunflower	-	-	-	-	-	-	-	-	-	-	-	-
Simsim	-	-	-	-	-	-	8,308	73	3,100	27	11,409	100
Groundnut	-	-	-	-	-	-	1,984	73	744	27	2,728	100
Soya Beans												
Castor Seed												
OIL SEEDS & OIL NUTS	**-**	**-**	**-**	**-**	**-**	**-**	**10,293**	**73**	**3,844**	**27**	**14,137**	**100**

Cont…..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 Lindi Rural District

	SHORT RAINY SEASON						LONG RAINY SEASON					
	Male		Female		Total		Male		Female		Total	
Crop	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %
Okra	-	-	-	-	-	-	248	100	-	-	248	100
Radish	-	-	-	-	-	-	-	-	-	-	-	-
Turmeric	-	-	-	-	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	496	100	-	-	496	100
Chillies	-	-	-	-	-	-	124	100	-	-	124	100
Amaranths	-	-	-	-	-	-	124	100	-	-	124	100
Pumpkins	-	-	-	-	-	-	-	-	-	-	-	-
Cucumber	-	-	-	-	-	-	-	-	-	-	-	-
Egg Plant	-	-	-	-	-	-	-	-	-	-	-	-
Water Mellon												
FRUITS & VEGETABLES	**-**	**-**	**-**	**-**	**-**	**-**	**992**	**100**	**-**	**-**	**992**	**100**
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco												
Pyrethrum												
Jute												
CASH CROPS	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Total	**372**	**75**	**124**	**25**	**496**	**100**	**63,120**	**71**	**25,918**	**29**	**89,037**	**100**

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 Nachingwea District

	SHORT RAINY SEASON						LONG RAINY SEASON					
	Male		Female		Total		Male		Female		Total	
Crop	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %
Maize	94	100.0	0	.0	94	100.0	23,700	64.8	12,884	35.2	36,584	100.0
Paddy	0	.0	0	.0	0	.0	2,633	71.8	1,035	28.2	3,668	100.0
Sorghum	0	.0	0	.0	0	.0	7,053	59.5	4,796	40.5	11,850	100.0
Bulrush Millet	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Finger Millet	0	.0	0	.0	0	.0	94	100.0	0	.0	94	100.0
Wheat												
Barley												
CEREALS	**94**	**100.0**	**0**	**.0**	**94**	**100.0**	**33,480**	**64.1**	**18,715**	**35.9**	**52,196**	**100.0**
Cassava	0	.0	0	.0	0	.0	94	100.0	0	.0	94	100.0
Sweet Potatoes	0	.0	0	.0	0	.0	94	100.0	0	.0	94	100.0
Irisht Potatoes												
Yams	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
CocoYams												
ROOTS & TUBERS	**0**	**.0**	**0**	**.0**	**0**	**.0**	**188**	**100.0**	**0**	**.0**	**188**	**100.0**
Beans	0	.0	0	.0	0	.0	658	70.0	282	30.0	940	100.0
Cowpeas	0	.0	0	.0	0	.0	4,984	61.6	3,104	38.4	8,088	100.0
Green gram	0	.0	0	.0	0	.0	282	75.0	94	25.0	376	100.0
Chick Peas												
Bambaranuts	0	.0	0	.0	0	.0	1,505	61.5	940	38.5	2,445	100.0
Field Peas	0	.0	0	.0	0	.0	94	50.0	94	50.0	188	100.0
PULSES	**0**	**.0**	**0**	**.0**	**0**	**.0**	**7,524**	**62.5**	**4,514**	**37.5**	**12,038**	**100.0**
Sunflower	0	.0	0	.0	0	.0	188	100.0	0	.0	188	100.0
Simsim	0	.0	0	.0	0	.0	10,721	75.0	3,574	25.0	14,295	100.0
Groundnut	0	.0	0	.0	0	.0	846	56.3	658	43.8	1,505	100.0
Soya Beans												
Castor Seed												
OIL SEEDS & OIL NUTS	**0**	**.0**	**0**	**.0**	**0**	**.0**	**11,756**	**73.5**	**4,232**	**26.5**	**15,988**	**100.0**

Cont…..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 Nachingwea District

	SHORT RAINY SEASON						LONG RAINY SEASON					
	Male		Female		Total		Male		Female		Total	
Crop	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %
Okra	-	-	-	-	-	-	94	100	-	-	94	100
Radish	-	-	-	-	-	-	-	-	-	-	-	-
Turmeric	-	-	-	-	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	188	100	-	-	188	100
Chillies	-	-	-	-	-	-	-	-	-	-	-	-
Amaranths	-	-	-	-	-	-	188	100	-	-	188	100
Pumpkins	-	-	-	-	-	-	-	-	-	-	-	-
Cucumber	-	-	-	-	-	-	94	100	-	-	94	100
Egg Plant	-	-	-	-	-	-	94	100	-	-	94	100
Water Mellon												
FRUITS & VEGETABLES	**-**	**-**	**-**	**-**	**-**	**-**	**658**	**100**	**-**	**-**	**658**	**100**
Cotton	-	-	-	-	-	-	94	100	-	-	94	100
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Pyrethrum	-	-	-	-	-	-	-	-	-	-	-	-
Jute	-	-	-	-	-	-	-	-	-	-	-	-
CASH CROPS	**-**	**-**	**-**	**-**	**-**	**-**	**94**	**100**	**-**	**-**	**94**	**100**
Total	**94**	**100**	**-**	**-**	**94**	**100**	**53,700**	**66**	**27,462**	**34**	**81,162**	**100**

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 Liwale District

	SHORT RAINY SEASON						LONG RAINY SEASON					
	Male		Female		Total		Male		Female		Total	
Crop	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %
Maize	29	100	-	-	29	100	8,476	84	1,666	16	10,142	100
Paddy	-	-	-	-	-	-	1,841	80	468	20	2,309	100
Sorghum	29	100	-	-	29	100	5,027	77	1,491	23	6,518	100
Bulrush Millet	-	-	-	-	-	-	-	-	-	-	-	-
Finger Millet	-	-	-	-	-	-	88	100	-	-	88	100
Wheat												
Barley												
CEREALS	**58**	**100**	**-**	**-**	**58**	**100**	**15,432**	**81**	**3,624**	**19**	**19,057**	**100**
Cassava	-	-	-	-	-	-	58	50	58	50	117	100
Sweet Potatoes	-	-	-	-	-	-	117	67	58	33	175	100
Irisht Potatoes												
Yams	-	-	-	-	-	-	-	-	-	-	-	-
ROOTS & TUBERS	**-**	**-**	**-**	**-**	**-**	**-**	**175**	**60**	**117**	**40**	**292**	**100**
Beans	-	-	-	-	-	-	88	100	-	-	88	100
Cowpeas	29	100	-	-	29	100	1,754	77	526	23	2,280	100
Green gram	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas												
Bambaranuts	-	-	-	-	-	-	29	25	88	75	117	100
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	**29**	**100**	**-**	**-**	**29**	**100**	**1,871**	**75**	**614**	**25**	**2,484**	**100**
Sunflower	-	-	-	-	-	-	-	-	-	-	-	-
Simsim	29	100	-	-	29	100	3,449	87	526	13	3,975	100
Groundnut	-	-	-	-	-	-	877	88	117	12	994	100
Soya Beans												
Castor Seed												
OIL SEEDS & OIL NUTS	**29**	**100**	**-**	**-**	**29**	**100**	**4,326**	**87**	**643**	**13**	**4,969**	**100**

Cont…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 Liwale District

	SHORT RAINY SEASON						LONG RAINY SEASON					
	Male		Female		Total		Male		Female		Total	
Crop	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %
Okra	-	-	-	-	-	-	29	50	29	50	58	100
Radish	-	-	-	-	-	-	-	-	29	100	29	100
Turmeric	-	-	-	-	-	-	-	-	29	100	29	100
Onion	-	-	-	-	-	-	29	100	-	-	29	100
Tomatoes	-	-	-	-	-	-	58	100	-	-	58	100
Chillies	-	-	-	-	-	-	-	-	-	-	-	-
Amaranths	-	-	-	-	-	-	-	-	-	-	-	-
Pumpkins	-	-	-	-	-	-	29	100	-	-	29	100
Cucumber	-	-	-	-	-	-	-	-	-	-	-	-
Egg Plant	-	-	-	-	-	-	-	-	-	-	-	-
Water Mellon												
FRUITS & VEGETABLES	**-**	**-**	**-**	**-**	**-**	**-**	**146**	**63**	**88**	**38**	**234**	**100**
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Pyrethrum	-	-	-	-	-	-	-	-	-	-	-	-
Jute	-	-	-	-	-	-	-	-	-	-	-	-
CASH CROPS	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Total	**117**	**100**	**-**	**-**	**117**	**100**	**21,950**	**81**	**5,086**	**19**	**27,036**	**100**

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- Ruangwa District

	SHORT RAINY SEASON						LONG RAINY SEASON					
	Male		Female		Total		Male		Female		Total	
Crop	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %
Maize	-	-	152	100	152	100	18,604	67	9,340	33	27,944	100
Paddy	-	-	-	-	-	-	835	58	607	42	1,443	100
Sorghum	-	-	152	100	152	100	5,999	65	3,265	35	9,264	100
Bulrush Millet	-	-	-	-	-	-	-	-	-	-	-	-
Finger Millet	-	-	-	-	-	-	-	-	-	-	-	-
Wheat												
Barley												
CEREALS	**-**	**-**	**304**	**100**	**304**	**100**	**25,438**	**66**	**13,213**	**34**	**38,651**	**100**
Cassava	-	-	-	-	-	-	-	-	76	100	76	100
Sweet Potatoes	-	-	-	-	-	-	-	-	-	-	-	-
Irisht Potatoes												
Yams	-	-	-	-	-	-	-	-	-	-	-	-
CocoYams												
ROOTS & TUBERS	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**76**	**100**	**76**	**100**
Beans	-	-	-	-	-	-	607	57	456	43	1,063	100
Cowpeas	-	-	-	-	-	-	1,822	67	911	33	2,734	100
Green gram	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas												
Bambaranuts	-	-	-	-	-	-	228	75	76	25	304	100
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	**-**	**-**	**-**	**-**	**-**	**-**	**2,658**	**65**	**1,443**	**35**	**4,100**	**100**
Sunflower	-	-	-	-	-	-	-	-	-	-	-	-
Simsim	76	100	-	-	76	100	5,012	73	1,822	27	6,834	100
Groundnut	-	-	76	100	76	100	532	64	304	36	835	100
Soya Beans	-	-	-	-	-	-	-	-	-	-	-	-
Castor Seed	-	-	-	-	-	-	-	-	-	-	-	-
OIL SEEDS & OIL NUTS	**76**	**50**	**76**	**50**	**152**	**100**	**5,543**	**72**	**2,126**	**28**	**7,669**	**100**

Cont…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- Ruangwa District

	SHORT RAINY SEASON						LONG RAINY SEASON					
	Male		Female		Total		Male		Female		Total	
Crop	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %
Okra	-	-	-	-	-	-	-	-	-	-	-	-
Radish	-	-	-	-	-	-	-	-	-	-	-	-
Turmeric	-	-	-	-	-	-	-	-	-	-	-	-
Onion	835	69	380	31	1,215	100	152	100	-	-	152	100
Tomatoes	380	100	-	-	380	100	228	75	76	25	304	100
Chillies	-	-	-	-	-	-	-	-	-	-	-	-
Amaranths	-	-	-	-	-	-	-	-	-	-	-	-
Pumpkins	-	-	-	-	-	-	-	-	-	-	-	-
Cucumber	-	-	-	-	-	-	-	-	-	-	-	-
Egg Plant	-	-	-	-	-	-	-	-	-	-	-	-
Water Mellon												
FRUITS & VEGETABLES	**1,215**	**76**	**380**	**24**	**1,595**	**100**	**380**	**83**	**76**	**17**	**456**	**100**
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco	-	-	-	-	-	-	-	-	-	-	-	-
Pyrethrum	-	-	-	-	-	-	-	-	-	-	-	-
Jute	-	-	-	-	-	-	-	-	-	-	-	-
CASH CROPS	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Total	**1,291**	**63.0**	**759**	**37.0**	**2,050**	**100.0**	**34,019**	**66.8**	**16,934**	**33.2**	**50,952**	**100.0**

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 Lindi Urban District

	SHORT RAINY SEASON						LONG RAINY SEASON					
	Male		Female		Total		Male		Female		Total	
Crop	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %
Maize	-	-	-	-	-	-	1,400	60	948	40	2,348	100
Paddy	-	-	-	-	-	-	-	-	226	100	226	100
Sorghum	-	-	-	-	-	-	1,671	51	1,580	49	3,251	100
Bulrush Millet	-	-	-	-	-	-	-	-	-	-	-	-
Finger Millet	-	-	-	-	-	-	-	-	-	-	-	-
Wheat												
Barley												
CEREALS	**-**	**-**	**-**	**-**	**-**	**-**	**3,070**	**53**	**2,754**	**47**	**5,824**	**100**
Cassava	-	-	-	-	-	-	-	-	-	-	-	-
Sweet Potatoes	-	-	-	-	-	-	-	-	-	-	-	-
Irisht Potatoes												
Yams												
CocoYams	-	-	-	-	-	-	-	-	-	-	-	-
ROOTS & TUBERS	-	-	-	-	-	-	-	-	-	-	-	-
Beans	-	-	-	-	-	-	-	-	-	-	-	-
Cowpeas	-	-	-	-	-	-	90	67	45	33	135	100
Green gram	-	-	-	-	-	-	-	-	-	-	-	-
Chick Peas												
Bambaranuts	-	-	-	-	-	-	-	-	-	-	-	-
Field Peas	-	-	-	-	-	-	-	-	-	-	-	-
PULSES	**-**	**-**	**-**	**-**	**-**	**-**	**90**	**67**	**45**	**33**	**135**	**100**
Sunflower	-	-	-	-	-	-	-	-	-	-	-	-
Simsim	-	-	-	-	-	-	587	68	271	32	858	100
Groundnut	-	-	-	-	-	-	181	100	-	-	181	100
Soya Beans												
Castor Seed												
OIL SEEDS & OIL NUTS	**-**	**-**	**-**	**-**	**-**	**-**	**768**	**74**	**271**	**26**	**1,038**	**100**

Cont…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 -Lindi Urban District

	SHORT RAINY SEASON						LONG RAINY SEASON					
	Male		Female		Total		Male		Female		Total	
Crop	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %	Number	Row N %
Okra	-	-	-	-	-	-	-	-	-	-	-	-
Radish	-	-	-	-	-	-	45	100	-	-	45	100
Turmeric	-	-	-	-	-	-	-	-	-	-	-	-
Onion	-	-	-	-	-	-	-	-	-	-	-	-
Tomatoes	-	-	-	-	-	-	45	100	-	-	45	100
Chillies	-	-	-	-	-	-	-	-	-	-	-	-
Amaranths	-	-	-	-	-	-	-	-	-	-	-	-
Pumpkins	-	-	-	-	-	-	-	-	-	-	-	-
Cucumber	-	-	-	-	-	-	-	-	-	-	-	-
Egg Plant	-	-	-	-	-	-	-	-	-	-	-	-
Water Mellon												
FRUITS & VEGETABLES	**-**	**-**	**-**	**-**	**-**	**-**	**90**	**100**	**-**	**-**	**90**	**100**
Cotton	-	-	-	-	-	-	-	-	-	-	-	-
Tobacco												
Pyrethrum												
Jute												
CASH CROPS	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Total	**-**	**-**	**-**	**-**	**-**	**-**	**4,018**	**57**	**3,070**	**43**	**7,088**	**100**

CROP PRODUCTION BY DISTRICT

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

District	Maize				Paddy				Sorghum				Bulrush Millet			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons /ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons /ha)
Kilwa	14,665	7,585	7,297	0.96	10,565	5,876	5,399	0.92	18,371	12,274	10,837	0.88	315	326	92.64	0.28
Lindi Rural	29,266	12,843	9,469	0.74	17,857	8,987	8,345	0.93	22,693	11,316	7,099	0.63	0	0	0	0
Nachingwea	36,678	29,571	24,810	0.84	3,668	1,634	1,206	0.74	11,850	5,487	3,001	0.55	0	0	0	0
Liwale	10,171	7,776	5,946	0.76	2,309	1,331	1,369	1.03	6,547	3,346	2,461	0.74	0	0	0	0
Ruangwa	28,096	17,791	14,606	0.82	1,443	601	469	0.78	9,416	4,223	2,373	0.56	0	0	0	0
Lindi Urban	2,348	623	442	0.71	226	70	26	0.37	3,251	1,326	935	0.71	0	0	0	0
Total	121,224	76,188	62,571	0.82	36,067	18,499	16,814	0.91	72,128	37,973	26,707	0.7	315	326	92.64	0

Cont. 5.7 : Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short & Long Rainy SEASON Agricultural Year 2007/08

District	Finger Millet				Wheat				Barley				Seaweed			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Kilwa	0	0	0	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0
Lindi Rural	0	0	0	0.00	0.00	0.00	0.00	0	0	0	0	0.00	0	0	0	0
Nachingwea	94	15	7.05	0.46	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0
Liwale	88	22	21.31	0	0	0	0	0	0	0	0	0	0	0	0	0
Ruangwa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lindi Urban	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Total	**182**	**38**	**28.36**	**0.75**	**0.00**	**0.00**	**0.00**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Cont. 5.7: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short & Long Rainy SEASON Agricultural Year 2007/08

District	Cassava				Sweet Potato				Irish potatoes				Yams			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Kilwa	0	0	0	0.00	0	0	0	0.0	0	0	0	0	0	0	0	0.00
Lindi Rural	0	0	0	0.00	0	0	0	0.0	0	0	0	0	124	20	19	0
Nachingwea	94	29	34	1.2	94	9	3.76	0.43	0	0	0	0	0	0	0	0.00
Liwale	117	75	166	2.2	175	48	55.59	1.17	0	0	0	0	0	0	0	0.00
Ruangwa	76	31	5	.1	0	0	0	0.00	0	0	0	0	0	0	0	0.00
Lindi Urban	0	0		.0	0	0	0	0.00	0	0	0	0	0	0	0	0.00
Total	**287**	**134**	**204**	**1.5**	**269**	**56**	**59**	**1.05**	**68**	**15**	**4**	**0.29**	**124**	**20**	**19**	**0.93**

Cont. 5.7: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short & Long Rainy SEASON Agricultural Year 2007/08

District	Coco Yam				Mung Bean				Beans				Cowpeas			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Kilwa	0	0	0	0	0	0	0	0	0	.	.	0.00	1,498	350	233	0.67
Lindi Rural	0	0	0	0	0	0	0	0	620	291	55	0.19	3,348	1,193	559	0.47
Nachingwea	0	0	0	0	0	0	0	0	940	351	158	0.45	8,088	2,864	1,762	0.62
Liwale	0	0	0	0	0	0	0	0	88	23	5	0.22	2,309	753	287	0.38
Ruangwa	0	0	0	0	0	0	0	0	1,063	212	183	0.86	2,734	693	565	0.82
Lindi Urban	0	0	0	0	0	0	0	0	0	.	.	0.00	135	37	8	0.22
Total	0	0	0	0	0	0	0	0	2,711	877	401	0.46	18,112	5,889	3,413	0.58

Cont. 5.7: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short & Long Rainy SEASON Agricultural Year 2007/08

District	Green gram				Chick peas				Bambaranuts				Field Peas			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Kilwa	79	14	5.52	0.4	0	0	0	0	0	.	.	0.00	0	.	.	0
Lindi Rural	0	.	.	0.0	0	0	0	0	496	133	87	0	0	.	.	0
Nachingwea	376	53	32.45	0.6	0	0	0	0	2,445	728	250	0	188	87	8	0
Liwale	0	.	.	0.0	0	0	0	0	117	28	13	0.44	0	.	.	0
Ruangwa	0	.	.	0.0	0	0	0	0	304	81	26	0.32	0	.	.	0
Lindi Urban	0	.	.	0.0	0	0	0	0	0	.	.	0	0	.	.	0
Total	**455**	**67**	**37.97**	**0.6**	**0**	**0**	**0**	**0**	**3,362**	**971**	**376**	**0.39**	**188**	**87**	**8**	**0**

Cont. 5.7: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short & Long Rainy SEASON Agricultural Year 2007/08

District	Sunflower				Simsim				Groundnut				Soya Beans			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Kilwa	0	.	.	0.00	11,432	7,304	4,061	0.56	0	0	0	0.00	0	0	0	0
Lindi Rural	0	.	.	0.00	11,409	4,485	1,791	0.40	2,728	1,180	481	0.41	0	0	0	0
Nachingwea	188	59	15	0.26	14,295	5,973	2,602	0.44	1,505	564	266	0.47	0	0	0	0
Liwale	0	.	.	0.00	4,004	2,326	1,012	0.44	994	432	338	0.78	0	0	0	0
Ruangwa	0	.	.	0.00	6,910	2,916	1,463	0.50	911	240	160	0.67	0	0	0	0
Lindi Urban	0	.	.	0.00	858	248	80	0.32	181	17	10	0.59	0	0	0	0
Total	188	59	15	0.26	48,908	23,252	11,010	0.47	6,318	2,432	1,256	0.52	0	0	0	0

Cont. 5.7 : Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short & Long Rainy SEASON Agricultural Year 2007/08

District	Castor Fung				Okra				Radish				Turmeric			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Kilwa	0	0	0	0	79	4	3	0.8	0	0	0	0.00	0	0	0	0.00
Lindi Rural	0	0	0	0	248	43	223	5.2	0	0	0	0.00	0	0	0	0.00
Nachingwea	0	0	0	0	94	10	5	0.5	0	0	0	0.00	0	0	0	0.00
Liwale	0	0	0	0	58	53	185	3.5	0	0	0	0.00	29	9	6	0.6
Ruangwa	0	0	0	0	0	.	.	0.0	0	0	0	0.00	0	0		0
Lindi Urban	0	0	0	0	0	.	.	0.0	0	0	0	0	0	0		
Total	0	0	0	0	479	110	416	3.78	0	0	0	0	29	9	6	0.6

Cont. 5.7: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short & Long Rainy SEASON Agricultural Year 2007/08

District	Bitter Aubergine				Kothmir				Onion				Ginger			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Kilwa	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0	0	0
Lindi Rural	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0	0	0
Nachingwea	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0	0	0.00
Liwale	0	0	0	0	0	0	0	0	29	3	2.9	0.99	0	0	0	0.00
Ruangwa	0	0	0	0	0	0	0	0	1,367	364	925.9	2.54	0	0	0	0.00
Lindi Urban	0	0	0	0	0	0	0	0				2.53	0	0	0	0
Total	0	0	0	0	0	0	0	0	1,396	367	928.8	0.00	0	0	0	0

Cont. 5.7: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short & Long Rainy SEASON Agricultural Year 2007/08

District	Zukkin				Star Fruit				Cabbage				Tomatoes			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Kilwa	0	0	0	0	0	0	0	0	0	0	0	0.00	158	36	29	0.81
Lindi Rural	0	0	0	0	0	0	0	0	0	0	0	0.00	496	133	1,739	13.07
Nachingwea	0	0	0	0	0	0	0	0	0	0	0	0.00	188	49	188	3.80
Liwale	0	0	0	0	0	0	0	0	0	0	0	0.00	58	8	175	22.80
Ruangwa	0	0	0	0	0	0	0	0	0	0	0	0.00	683	164	1,335	8.12
Lindi Urban	0	0	0	0	0	0	0	0	0	0	0	0.00	45	5	41	8.89
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.00**	**1,629**	**395**	**3,507**	**8.87**

Cont. 5.7: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short & Long Rainy SEASON Agricultural Year 2007/08

District	Spinach				Carrot				Chillies				Amaranths			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Kilwa	0	0	0	0.00	0	0	0	0	0	0	0	0.00	0	0	0	0.00
Lindi Rural	0	0	0	0.00	0	0	0	0	124	13	6.94	0.55	124	13	310	24.70
Nachingwea	0	0	0	0.00	0	0	0	0	0	0	0	0.00	188	26	24	0.91
Liwale	0	0	0	0.00	0	0	0	0	0	0	0	0.00	0	0	0	0.00
Ruangwa	0	0	0	0.00	0	0	0	0	0	0	0	0.00	0	0	0	0.00
Lindi Urban	0	0	0	0.00	0	0	0	0	0	0	0	0.00	0	0	0	0.00
Total	0	0	0	0.00	0	0	0	0	124	13	6.94	0.55	312	38	0	0.00

Cont. 5.7: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short & Long Rainy SEASON Agricultural Year 2007/08

District	Pumpkins				Cucumber				Egg Plant				Water Mellon			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Kilwa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Lindi Rural	0	0	0	0	0	0	0	0.00	0	0	0	0.00	0	0	0	0
Nachingwea	0	0	0	0	94	8	24	2.94	94	10	9.40	0.91	0	0	0	0.00
Liwale	29	2.4	2.0	.86	0	0		0	0	0	0	0.00	0	0	0	0.00
Ruangwa	0	0	0	0.00	0	0		0.00	0	0	0	0.00	0	0	0	0.00
Lindi Urban	0	0	0	0.00	0	0		0.00	0	0	0	0.00	0	0	0	0.00
Total	**0**	2.4	**2**	**0.86**	94	8	24	**2.94**	94	10	9.40	**0.91**	**0**	**0**	**0**	**0.00**

Cont. Table 5.7: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short & Long Rainy SEASON Agricultural Year 2007/08

District	Cotton				Tobacco				Pyrethrum				Jute			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Kilwa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lindi Rural	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nachingwea	94	46	9	0.21	0	0	0	0	0	0	0	0	0	0	0	0
Liwale	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0	0	0
Ruangwa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lindi Urban	0	0	0		0.00	0.00	0.00	0	0	0	0	0	45	18	64	3.50
Total	**94**	**46**	**9**	**0.21**	**0.00**	**0.00**	**0.00**	**0**	**0**	**0**	**0**	**0**	**37**	**2**	**4**	**2.47**

Cont. 5.7: Number of Agriculture Households, Area Planted (ha) and Quantity Harvested (tonnes) during Short & Long Rainy SEASON Agricultural Year 2007/08

District	Malay			
	Number of Household	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Kilwa	0	0	0	0
Lindi Rural	71	29	11	0.40
Nachingwea	0	0	0	0
Liwale	0	0	0	0
Ruangwa	0	0	0	0
Lindi Urban	0	0	0	0
Total	0	0	0	0

5.8: 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)		
Kilwa	0	0	29,172	33,768	33,768	0.0
Lindi Rural	496	301	47,247	40,348	40,649	0.7
Nachingwea	94	390	37,524	47,183	47,573	0.8
Liwale	29	11	11,457	16,237	16,248	0.1
Ruangwa	1,747	592	30,146	26,725	27,316	2.2
Lindi Urban	0	0	3,883	2,329	2,329	0.0
Total	**2,366**	**1,294**	**159,430**	**166,590**	**167,884**	**0.8**

5.9: 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	
Kilwa	0	31,932	29,172	2,760	31,932
Lindi Rural	496	49,727	47,247	2,976	50,223
Nachingwea	94	37,995	37,524	564	38,089
Liwale	29	11,808	11,457	380	11,837
Ruangwa	1,747	29,007	30,146	607	30,754
Lindi Urban	0	4,063	3,883	181	4,063
Total	**2,366**	**164,532**	**159,430**	**7,468**	**166,898**

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

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	0	0	14,665	7,585	14,665	7,585
Paddy	0	0	10,565	5,876	10,565	5,876
Sorghum	0	0	18,371	12,274	18,371	12,274
Bulrush Millet	0	0	315	326	315	326
Finger Millet	0	0	0	0	0	0
CEREALS	**0**	**0**	**43,916**	**26,060**	**43,916**	**26,060**
Cassava	0	0	0	0	0	0
Sweet Potatoes	0	0	0	0	0	0
Irish Potatoes	0	0	0	0	0	0
CocoYams						
ROOTS & TUBERS		**0**		**0**		**0**
Beans	0	0	0	0	0	0
Cowpeas	0	0	1,498	350	1,498	350
Green gram	0	0	79	14	79	14
Bambaranuts	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0
PULSES		**0**		**364**		**364**
Sunflower	0	0	0	0	0	.
Simsim	0	0	11,432	7,304	11,432	7,304
Groundnut	0	0	0	0	0	0
Soya Beans	0	0	0	0	0	0
Castor seed	0	0	0	0	0	0
OIL SEEDS & OIL NUTS		0		7,304		7,304
Okra	0	0	79	4	79	4
Radish	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0
Onion	0	0	0	0	0	0
Tomatoes	0	0	158	36	158	36
Chillies	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0
FRUITS & VEGETABLES		0		40		40
Cotton	0	0	0	0	0	0
CASH CROPS		0		0		0
Total		0		33,768		33,768

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

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	248	100	29,018	12,743	29,266	12,843
Paddy	248	201	17,609	8,786	17,857	8,987
Sorghum	0	.	22,693	11,316	22,693	11,316
Bulrush Millet	0	.	-	.	-	.
Barley						
CEREALS	**496**	**301**	**69,320**	**32,845**	**69,816**	**33,146**
Cassava	0	.	-	.	-	.
Sweet Potatoes	0	.	-	.	-	.
Irish Potatoes						
Yams	0	.	124	20	124	20
ROOTS & TUBERS		**.**		**20**		**20**
Beans	0	.	620	291	620	291
Cowpeas	0	.	3,348	1,193	3,348	1,193
Green gram	0	.	-	.	-	.
Bambaranuts	0	.	496	133	496	133
Field Peas	0	.	-	.	-	.
PULSES		**.**		**1,617**		**1,617**
Sunflower	0	.	-	.	-	.
Simsim	0	.	11,409	4,485	11,409	4,485
Groundnut	0	.	2,728	1,180	2,728	1,180
OIL SEEDS & OIL NUTS		**.**		**5,665**		**5,665**
Okra	0	0	248	43	248	43
Radish	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0
Onion	0	0	0	0	0	0
Tomatoes	0	0	496	133	496	133
Chillies	0	0	124	13	124	13
Amaranths	0	0	124	13	124	13
Pumpkins	0	0	-	.	-	.
Cucumber	0	0	-	.	-	.
Egg Plant	0	0	-	.	-	.
FRUITS & VEGETABLES		**.**		**201**		**201**
Cotton	0	.	-	.	-	.
CASH CROPS		**.**		**.**		**.**
Total		**301**		**40,348**		**40,649**

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

	SHORT RAINY SEASON		LONG RAINY SEASON		SHORT & LONG SEASON	
Crop	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)
Maize	94	390	36,584	29,181	36,678	29,571
Paddy	0	0	3,668	1,634	3,668	1,634
Sorghum	0	0	11,850	5,487	11,850	5,487
Bulrush Millet	0	0	0	0	0	0
Finger Millet	0	0	94	15	94	15
Wheat	0	0	0	0	0	0
Barley	0	0	0	0	0	0
CEREALS	**94**	**390**	**52,196**	**36,317**	**52,290**	**36,707**
Cassava	0	0	94	29	94	29
Sweet Potatoes	0	0	94	9	94	9
Irish Potatoes	0	0	0	0	0	0
Yams	0	0	0	0	0	0
CocoYams	0	0	0	0	0	0
ROOTS & TUBERS		**0**		**37**		**37**
Beans	0	0	940	351	940	351
Cowpeas	0	0	8,088	2,864	8,088	2,864
Green gram	0	0	376	53	376	53
Chick Peas	0	0				
Bambaranuts	0	0	2,445	728	2,445	728
Field Peas	0	0	188	87	188	87
PULSES		0		**4,083**		**4,083**
Sunflower	0	0	188	59	188	59
Simsim	0	0	14,295	5,973	14,295	5,973
Groundnut	0	0	1,505	564	1,505	564
Soya Beans		0				
Castor seed		0				
OIL SEEDS & OIL NUTS		**0**		**6,596**		**6,596**
Okra	0	0	94	10	94	10
Radish	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0
Onion	0	0	0	0	0	0
Tomatoes	0	0	188	49	188	49
Chillies	0	0	0	0	0	0
Amaranths	0	0	188	26	188	26
Pumpkins	0	0	0	0	0	0
Cucumber	0	0	94	8	94	8
Egg Plant	0	0	94	10	94	10
Water Mellon	0	0	0	0	0	0
FRUITS & VEGETABLES		0		104		104
Cotton	0	0	94	46	94	46
Tobacco		0				
Pyrethrum		0				
Jute		0				
CASH CROPS		0		**46**		**46**
Total		**390**		**47,183**		**47,573**

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

	SHORT RAINY SEASON		LONG RAINY SEASON		SHORT & LONG SEASON	
Crop	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)
Maize	29	5	10,142	7,771	10,171	7,776
Paddy	0	.	2,309	1,331	2,309	1,331
Sorghum	29	2	6,518	3,344	6,547	3,346
Bulrush Millet	0	0	0	.	0	.
Finger Millet	0	0	88	22	88	22
Wheat	0	0	0	0	0	0
Barley	0	0	0	0	0	0
CEREALS	**58**	**7**	**19,057**	**12,469**	**19,115**	**12,476**
Cassava	0	0	117	75	117	75
Sweet Potatoes	0	0	175	48	175	48
Irish Potatoes	0	0	0	0	0	0
Yams	0	0	0	0	0	0
CocoYams	0	0				
ROOTS & TUBERS		**.**		**122**		**122**
Beans	0	.	88	23	88	23
Cowpeas	29	1	2,280	752	2,309	753
Green gram	0	0	0	0	0	0
Chick Peas	0	0	0	0	0	0
Bambaranuts	0	0	117	28	117	28
Field Peas	0	0	0	0	0	0
PULSES		1		**804**		**805**
Sunflower	0	0	0	0	0	0
Simsim	29	3	3,975	2,323	4,004	2,326
Groundnut	0	0	994	432	994	432
Soya Beans	0	0	0	0	0	0
Castor seed	0	0	0	0	0	0
OIL SEEDS & OIL NUTS		**3**		**2,754**		**2,758**
Okra	0	0	58	53	58	53
Radish	0	0	29	12	29	12
Turmeric	0	0	29	9	29	9
Onion	0	0	29	3	29	3
Tomatoes	0	0	58	8	58	8
Chillies	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0
Pumpkins	0	0	29	2	29	2
Cucumber	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0
FRUITS & VEGETABLES		0		**88**		**88**
Cotton	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0
Pyrethrum	0	0	0	0	0	0
Jute	0	0	0	0	0	0
CASH CROPS		0		**0**		**0**
Total		11		16,237		**16,248**

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

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	152	92	27,944	17,699	28,096	17,791
Paddy	0	.	1,443	601	1,443	601
Sorghum	152	46	9,264	4,177	9,416	4,223
Bulrush Millet	0	.	0	.	0	.
Finger Millet	0	.	-	.	-	.
Wheat						
Barley						
CEREALS	**304**	**138**	**38,651**	**22,477**	**38,955**	**22,615**
Cassava	0	.	76	31	76	31
Sweet Potatoes	0	.	-	.	-	.
Irish Potatoes						
Yams	0	.	0	.	0	.
CocoYams						
ROOTS & TUBERS		**.**		**31**		**31**
Beans	0	.	1,063	212	1,063	212
Cowpeas	0	.	2,734	693	2,734	693
Green gram	0	.	-	.	-	.
Chick Peas						
Bambaranuts	0	.	304	81	304	81
Field Peas	0	.	-	.	-	.
PULSES		.		**986**		**986**
Sunflower	0	.	-	.	-	.
Simsim	76	31	6,834	2,885	6,910	2,916
Groundnut	76	15	835	224	911	240
Soya Beans						
Castor seed						
OIL SEEDS & OIL NUTS		46		3,109		3,155
Okra	0	.	-	.	-	.
Radish	0	.	-	.	-	.
Turmeric	0	.	-	.	-	.
Onion	1,215	315	152	49	1,367	364
Tomatoes	380	92	304	72	683	164
Chillies	0	.	-	.	-	.
Amaranths	0	.	-	.	-	.
Pumpkins	0	.	-	.	-	.
Cucumber	0	.	-	.	-	.
Egg Plant	0	.	-	.	-	.
Water Mellon						
FRUITS & VEGETABLES		407		121		529
Cotton	0	.	-	.	-	.
Tobacco						
Pyrethrum						
Jute						
CASH CROPS		.		**.**		**.**
Total		592		26,725		**27,316**

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

	SHORT RAINY SEASON		LONG RAINY SEASON		SHORT & LONG SEASON	
Crop	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)	Number of Household	Planted Area (hectare)
Maize	0	.	2,348	623	2,348	623
Paddy	0	.	226	70	226	70
Sorghum	0	.	3,251	1,326	3,251	1,326
Bulrush Millet	0	.	0	.	0	.
Finger Millet	0	.	-	.	-	.
Wheat						
Barley						
CEREALS	**0**	**.**	**5,824**	**2,020**	**5,824**	**2,020**
Cassava	0	.	-	.	-	.
Sweet Potatoes	0	.	-	.	-	.
Irish Potatoes						
Yams	0	.	0	.	0	.
CocoYams						
ROOTS & TUBERS		**.**		**.**		**.**
Beans	0	.	-	.	-	.
Cowpeas	0	.	135	37	135	37
Green gram	0	.	-	.	-	.
Chick Peas						
Bambaranuts	0	.	-	.	-	.
Field Peas	0	.	-	.	-	.
PULSES		.		**37**		**37**
Sunflower	0	.	-	.	-	.
Simsim	0	.	858	248	858	248
Groundnut	0	.	181	17	181	17
Soya Beans						
Castor seed						
OIL SEEDS & OIL NUTS		**.**		**265**		**265**
Okra	0	.	-	.	-	.
Radish	0	.	45	4	45	4
Turmeric	0	.	-	.	-	.
Onion	0	.	-	.	-	.
Tomatoes	0	.	45	5	45	5
Chillies	0	.	-	.	-	.
Amaranths	0	.	-	.	-	.
Pumpkins	0	.	-	.	-	.
Cucumber	0	.	-	.	-	.
Egg Plant	0	.	-	.	-	.
Water Mellon						
FRUITS & VEGETABLES		**.**		**8**		**8**
Cotton	0	.	-	.	-	.
Tobacco						
Pyrethrum						
Jute						
CASH CROPS		.		**.**		**.**
Total		.		2,329		**2,329**

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

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	.	.	.	7,585	7,297	0.96	7,585	7,297	0.96
Paddy	.	.	.	5,876	5,399	0.92	5,876	5,399	0.92
Sorghum	.	.	.	12,274	10,837	0.88	12,274	10,837	0.88
Bulrush Millet	.	.	.	326	93	0.28	326	93	0.28
Finger Millet	.	.	.	.	.	.	.	.	.
CEREALS	**.**	**.**	**.**	**26,060**	**23,626**	**0.91**	**26,060**	**23,626**	**0.91**
Cassava	.	.	.	.	.	.	.	.	.
Sweet Potatoes	.	.	.	.	.	.	.	.	.
Yams	.	.	.	.	.	.	.	.	.
ROOTS & TUBERS	**.**	**.**	**.**	**.**	**.**	**.**	**.**	**.**	**.**
Beans	.	.	.	.	.	.	.	.	.
Cowpeas	.	.	.	350	233	0.67	350	233	0.67
Green gram	.	.	.	14	6	0.39	14	6	0.39
Bambaranuts	.	.	.	.	.	.	.	.	.
Field Peas	.	.	.	.	.	.	.	.	.
PULSES	**.**	**.**	**.**	**364**	**238**	**0.65**	**364**	**238**	**0.65**
Sunflower	.	.	.	.	.	.	.	.	.
Simsim	.	.	.	7,304	4,061	0.56	7,304	4,061	0.56
Groundnut	.	.	.	.	.	.	.	.	.
OIL SEEDS & OIL NUTS	**.**	**.**	**.**	**7,304**	**4,061**	**0.56**	**7,304**	**4,061**	**0.56**
Okra	.	.	.	4	3	0.82	4	3	0.82
Radish	.	.	.	.	.	.	.	.	.
Turmeric	.	.	.	.	.	.	.	.	.
Onion	.	.	.	.	.	.	.	.	.
Tomatoes	.	.	.	36	29	0.81	36	29	0.81
Chillies	.	.	.	.	.	.	.	.	.
Amaranths	.	.	.	.	.	.	.	.	.
Pumpkins	.	.	.	.	.	.	.	.	.
Cucumber	.	.	.	.	.	.	.	.	.
Egg Plant	.	.	.	.	.	.	.	.	.
FRUITS & VEGETABLES	**.**	**.**	**.**	**40**	**32**	**0.81**	**40**	**32**	**0.81**
Cotton	.	.	.	.	.	.	.	.	.
CASH CROPS	**.**	**.**	**.**	**.**	**.**	**.**	**.**	**.**	**.**
Total	**.**	**.**	**.**	**33,768**	**27,959**	**0.83**	**33,768**	**27,959**	**0.83**

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

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	100	112	1.11	12,743	9,358	0.73	12,843	9,469	0.74
Paddy	201	273	1.36	8,786	8,072	0.92	8,987	8,345	0.93
Sorghum	.	.	.	11,316	7,099	0.63	11,316	7,099	0.63
Bulrush Millet	.	.	.	.	.	.	.	.	.
Finger Millet	.	.	.	.	.	.	.	.	.
CEREALS	**301**	**384**	**1.28**	**32,845**	**24,529**	**0.75**	**33,146**	**24,913**	**0.75**
Cassava	.	.	.	.	.	.	.	.	.
Sweet Potatoes	.	.	.	.	.	.	.	.	.
Yams	.	.	.	20	19	0.93	20	19	0.93
ROOTS & TUBERS	**.**	**.**	**.**	**20**	**19**	**0.93**	**20**	**19**	**0.93**
Beans	.	.	.	291	55	0.19	291	55	0.19
Cowpeas	.	.	.	1,193	559	0.47	1,193	559	0.47
Green gram	.	.	.	.	.	.	.	.	.
Bambaranuts	.	.	.	133	87	0.65	133	87	0.65
Field Peas	.	.	.	.	.	.	.	.	.
PULSES	.	.	.	1,617	700	0.43	1,617	700	0.43
Sunflower	.	.	.	.	.	.	.	.	.
Simsim	.	.	.	4,485	1,791	0.40	4,485	1,791	0.40
Groundnut	.	.	.	1,180	481	0.41	1,180	481	0.41
OIL SEEDS & OIL NUTS	**.**	**.**	**.**	**5,665**	**2,272**	**0.40**	**5,665**	**2,272**	**0.40**
Okra	.	.	.	43	223	5.23	43	223	5.23
Radish	.	.	.	.	.	.	.	.	.
Turmeric	.	.	.	.	.	.	.	.	.
Onion	.	.	.	.	.	.	.	.	.
Tomatoes	.	.	.	133	1,739	13.07	133	1,739	13.07
Chillies	.	.	.	13	7	0.55	13	7	0.55
Amaranths	.	.	.	13	310	24.70	13	310	24.70
Pumpkins	.	.	.	.	.	.	.	.	.
Cucumber	.	.	.	.	.	.	.	.	.
Egg Plant	.	.	.	.	.	.	.	.	.
FRUITS & VEGETABLES	**.**	**.**	**.**	**201**	**2,279**	**11.35**	**201**	**2,279**	**11.35**
Cotton	.	.	.	.	.	.	.	.	.
CASH CROPS	**.**	**.**	**.**	**.**	**.**	**.**	**.**	**.**	**.**
Total	**301**	**384**	**1.28**	**40,348**	**29,799**	**0.74**	**40,649**	**30,183**	**0.74**

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

	SHORT RAINY SEASON			LONG RAINY SEASON			SHORT & LONG RAINY SEASON		
Crop	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	389.8924601	65.83242809	0.17	29,181	24,744	0.85	29,571	24,810	0.84
Paddy	.	.	.	1,634	1,206	0.74	1,634	1,206	0.74
Sorghum	.	.	.	5,487	3,001	0.55	5,487	3,001	0.55
Bulrush Millet	.	.	.	.	.	.	.	.	.
Finger Millet	.	.	.	15.2	7.1	0.5	15.2	7.1	0.46
CEREALS	**389.8924601**	**65.83242809**	**0.17**	**36,317**	**28,959**	**0.80**	**36,707**	**29,025**	**0.79**
Cassava	.	.	.	28.6	33.9	1.2	28.6	33.9	1.19
Sweet Potatoes	.	.	.	8.8	3.8	0.4	8.8	3.8	0.43
Yams	.	.	.	.	.	.	.	.	.
ROOTS & TUBERS	**.**	**.**	**.**	**37.3**	**37.6**	**1.0**	**37.3**	**37.6**	**1.01**
Beans	.	.	.	351.1	158.4	0.5	351.1	158.4	0.45
Cowpeas	.	.	.	2864.0	1761.8	0.6	2864.0	1761.8	0.62
Green gram	.	.	.	53.3	32.4	0.6	53.3	32.4	0.61
Bambaranuts	.	.	.	728.0	250.2	0.3	728.0	250.2	0.34
Field Peas	.	.	.	86.8	7.5	0.1	86.8	7.5	0.09
PULSES	**.**	**.**	**.**	**4083.2**	**2210.3**	**0.5**	**4083.2**	**2210.3**	**0.54**
Sunflower	.	.	.	58.6	15.0	0.3	58.6	15.0	0.26
Simsim	.	.	.	5973.3	2602.4	0.4	5973.3	2602.4	0.44
Groundnut	.	.	.	563.9	266.2	0.5	563.9	266.2	0.47
OIL SEEDS & OIL NUTS	**.**	**.**	**.**	**6,596**	**2,884**	**0.44**	**6,596**	**2,884**	**0.44**
Okra	.	.	.	10	5	0.46	10	5	0.46
Radish	.	.	.	.	.	.	.	.	.
Turmeric	.	.	.	.	.	.	.	.	.
Onion	.	.	.	.	.	.	.	.	.
Tomatoes	.	.	.	49	188	3.80	49	188	3.80
Chillies	.	.	.	.	.	.	.	.	.
Amaranths	.	.	.	25.9	23.5	0.9	25.9	23.5	0.91
Pumpkins	.	.	.	.	.	.	.	.	.
Cucumber	.	.	.	8.0	23.5	2.9	8.0	23.5	2.94
Egg Plant	.	.	.	10.3	9.4	0.9	10.3	9.4	0.91
FRUITS & VEGETABLES	**.**	**.**	**.**	**103.9**	**249.2**	**2.4**	**103.9**	**249.2**	**2.40**
Cotton	.	.	.	45.7	9.4	0.2	45.7	9.4	0.21
CASH CROPS	**.**	**.**	**.**	**45.7**	**9.4**	**0.2**	**45.7**	**9.4**	**0.21**
Total	**390**	**66**	**0**	**47,183**	**34,349**	**1**	**47,573**	**34,415**	**0.72**

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

	SHORT RAINY SEASON			LONG RAINY SEASON			SHORT & LONG RAINY SEASON		
Crop	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)	Actual Planted Area (ha)	Quantity Harvested (tons)	Yield (tons/ha)
Maize	5	3	0.6	7,771	5,944	0.8	7,776	5,946	0.8
Paddy	.	.	.	1,331	1,369	1.0	1,331	1,369	1.0
Sorghum	2	2	0.9	3,344	2,459	0.7	3,346	2,461	0.7
Bulrush Millet	.	.	.	.	.	.	.	.	.
Finger Millet	.	.	.	22	21	0.9	22	21	0.9
CEREALS	**7**	**5**	**0.7**	**12,469**	**9,793**	**0.8**	**12,476**	**9,798**	**0.8**
Cassava	.	.	.	75	166	2.2	75	166	2.2
Sweet Potatoes	.	.	.	48	56	1.2	48	56	1.2
Yams	.	.	.	.	.	.	.	.	.
ROOTS & TUBERS	**.**	**.**	**.**	**122**	**221**	**1.8**	**122**	**221**	**1.8**
Beans	.	.	.	23	5	0.2	23	5	0.2
Cowpeas	1	1	0.5	752	287	0.4	753	287	0.4
Green gram	.	.	.	.	.	.	.	.	.
Bambaranuts	.	.	.	28	13	0.4	28	13	0.4
Field Peas	.	.	.	.	.	.	.	.	.
PULSES	**1**	**1**	**0.5**	**804**	**304**	**0.4**	**805**	**305**	**0.4**
Sunflower	.	.	.	.	.	.	.	.	.
Simsim	3	2	0.5	2,323	1,011	0.4	2,326	1,012	0.4
Groundnut	.	.	.	432	338	0.8	432	338	0.8
OIL SEEDS & OIL NUTS	**3**	**2**	**0.5**	**2,754**	**1,349**	**0.5**	**2,758**	**1,351**	**0.5**
Okra	.	.	.	53	185	3.5	53	185	3.5
Radish	.	.	.	12	2	0.2	12	2	0.2
Turmeric	.	.	.	9	6	0.6	9	6	0.6
Onion	.	.	.	3	3	1.0	3	3	1.0
Tomatoes	.	.	.	8	175	22.8	8	175	22.8
Chillies	.	.	.	.	.	.	.	.	.
Amaranths	.	.	.	.	.	.	.	.	.
Pumpkins	.	.	.	2	2	0.9	2	2	0.9
Cucumber	.	.	.	.	.	.	.	.	.
Egg Plant	.	.	.	.	.	.	.	.	.
FRUITS & VEGETABLES	**.**	**.**	**.**	**88**	**373**	**4.3**	**88**	**373**	**4.3**
Cotton	.	.	.	.	.	.	.	.	.
CASH CROPS	**.**	**.**	**.**	**.**	**.**	**.**	**.**	**.**	**.**
Total	**11**	**7**	**0.6**	**16,237**	**12,040**	**0.7**	**16,248**	**12,047**	**0.7**

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

	SHORT RAINY SEASON			LONG RAINY SEASON			SHORT & LONG RAINY SEASON		
Crop	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	92	46	0.5	17,699	14,561	0.8	17,791	14,606	0.8
Paddy	0	0	0	601	469	0.8	601	469	0.8
Sorghum	46	30	0.7	4,177	2,343	0.6	4,223	2,373	0.6
Bulrush Millet	0	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0	0
CEREALS	**138**	**76**	**0.5**	**22,477**	**17,372**	**0.8**	**22,615**	**17,448**	**0.8**
Cassava	0	0	0	31	5	0.1	31	5	0.1
Sweet Potatoes	0	0	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0	0	0
ROOTS & TUBERS	**0**	0	0	**31**	**5**	**0.1**	**31**	**5**	**0.1**
Beans	0	0	0	212	183	0.9	212	183	0.9
Cowpeas	0	0	0	693	565	0.8	693	565	0.8
Green gram	0	0	0	.	.	.	.	.	.
Bambaranuts	0	0	0	81	26	0.3	81	26	0.3
Field Peas	0	0	0	.	.	.	.	.	.
PULSES	**0**	0	0	**986**	**775**	**0.8**	**986**	**775**	**0.8**
Sunflower	0	0	0	.	.	.	.	.	.
Simsim	31	13	0.4	2,885	1,450	0.5	2,916	1,463	0.5
Groundnut	15	3	0.2	224	156	0.7	240	160	0.7
OIL SEEDS & OIL NUTS	**46**	**16**	**0.4**	**3,109**	**1,607**	**0.5**	**3,155**	**1,623**	**0.5**
Okra	.	.	.	.	.	.	.	.	.
Radish	.	.	.	.	.	.	.	.	.
Turmeric	.	.	.	.	.	.	.	.	.
Onion	315	835	2.6	49	91	1.9	364	926	2.5
Tomatoes	92	1019	11.0	72	316	4.4	164	1,335	8.1
Chillies	.	.	.	.	.	.	.	.	.
Amaranths	.	.	.	.	.	.	.	.	.
Pumpkins	.	.	.	.	.	.	.	.	.
Cucumber	.	.	.	.	.	.	.	.	.
Egg Plant	.	.	.	.	.	.	.	.	.
FRUITS & VEGETABLES	**407**	**1854**	**4.6**	**121**	**407**	**3.4**	**529**	**2,261**	**4.3**
Cotton	.	.	.	.	.	.	.	.	.
CASH CROPS	**.**	**.**	**.**	**.**	**.**	**.**	**.**	**.**	**.**
Total	**592**	**1946**	**3.3**	**26,725**	**20,165**	**0.8**	**27316.3**	**22111.2**	**0.8**

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

	SHORT RAINY SEASON			LONG RAINY SEASON			SHORT & LONG RAINY SEASON		
Crop	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	0	0	0	623	442	0.7	623	442	0.7
Paddy	0	0	0	70	26	0.4	70	26	0.4
Sorghum	0	0	0	1,326	935	0.7	1,326	935	0.7
Bulrush Millet	0	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0	0
CEREALS	**0**	**0**	**0**	**2,020**	**1,403**	**0.7**	**2,020**	**1,403**	**0.7**
Cassava	0	0	0	0	0	0	0	0	0
Sweet Potatoes	0	0	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0	0	0
ROOTS & TUBERS	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Beans	0	0	0	0	0	0	0	0	0
Cowpeas	0	0	0	36.6	7.9	0.2	36.6	7.9	0.2
Green gram	0	0	0	0	0	0	0	0	0
Bambaranuts	0	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0	0
PULSES	**0**	**0**	**0**	**36.6**	**7.9**	**0.2**	**36.6**	**7.9**	**0.2**
Sunflower	0	0	0	.	.	.	.	.	.
Simsim	0	0	0	248	80	0.3	247.9	79.5	0.3
Groundnut	0	0	0	17	10	0.6	17.2	10.1	0.6
OIL SEEDS & OIL NUTS	**0**	**0**	**0**	**265**	**90**	**0.3**	**265**	**90**	**0.3**
Okra	0	0	0	0	0	0	0	0	0
Radish	0	0	0	4	19	5.3	4	19	5.3
Turmeric	0	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0	0
Tomatoes	0	0	0	5	41	8.9	5	41	8.9
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
FRUITS & VEGETABLES	**0**	**0**	**0**	**8**	**60**	**7.3**	**8**	**60**	**7.3**
Cotton	0	0	0	0	0	0	0	0	0
CASH CROPS	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Total	**0**	**0**	**0**	**2329**	**1561**	**0.7**	**2329**	**1561**	**0.7**

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

	SHORT RAINY SEASON			LONG RAINY SEASON			SHORT & LONG RAINY SEASON		
Crop	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	587	226	0.4	75,601	62,345	0.8	76,188	62,571	0.8
Paddy	201	273	1.4	18,298	16,541	0.9	18,499	16,814	0.9
Sorghum	48	32	0.7	37,925	26,675	0.7	37,973	26,707	0.7
Bulrush Millet	0	0	0	326	93	0.3	326	93	0.3
Finger Millet	0	0	0	38	28	0.8	37.7	28.4	0.8
CEREALS	**836**	**531**	**0.6**	**132,187**	**105,682**	**0.8**	**133,024**	**106,213**	**0.8**
Cassava	0	0	0	134	204	1.5	134	204	1.5
Sweet Potatoes	0	0	0	56	59	1.1	56	59	1.1
Yams	0	0	0	20	19	0.9	20	19	0.9
ROOTS & TUBERS	**0**	**0**	**-**	**211**	**282**	**1.3**	**211**	**282**	**1.3**
Beans	0	0	.	877	401	0.5	877	401	0.5
Cowpeas	1	1	0.5	5,888	3,413	0.6	5,889	3,413	0.6
Green gram	0	0	.	67	38	0.6	67	38	0.6
Bambaranuts	0	0	.	971	376	0.4	971	376	0.4
Field Peas	0	0	.	87	8	0.1	87	8	0.1
PULSES	**1**	**1**	**0.5**	**7,891**	**4,235**	**0.5**	**7,892**	**4,236**	**0.5**
Sunflower	.	.	.	59	15	0.3	59	15	0.3
Simsim	34	15	0.4	23,218	10,995	0.5	23,252	11,010	0.5
Groundnut	15	3	0.2	2,417	1,252	0.5	2,432	1,256	0.5
OIL SEEDS & OIL NUTS	**50**	**18**	**0.4**	**25,694**	**12,263**	**0.5**	**25,743**	**12,281**	**0.5**
Okra	0	0	0	110	416	3.8	110	416	3.8
Radish	0	0	0	16	21	1.3	16	21	1.3
Turmeric	0	0	0	9	6	0.6	9	6	0.6
Onion	315	835	2.6	52	94	1.8	367	929	2.5
Tomatoes	92	1019	11	303	2,488	8.2	395	3,507	8.9
Chillies	0	0	0	13	7	0.6	13	7	0.6
Amaranths	0	0	0	38	334	8.7	38	334	8.7
Pumpkins	0	0	0	2	2	0.9	2	2	0.9
Cucumber	0	0	0	8	24	2.9	8	24	2.9
Egg Plant	0	0	0	10	9	0.9	10	9	0.9
FRUITS & VEGETABLES	**407**	**1854**	**4.6**	**562**	**3,401**	**6.1**	**969**	**5,255**	**5.4**
Cotton	0	0	0	46	9	0.2	46	9	0.2
CASH CROPS	**0**	**0**	**0**	**46**	**9**	**0.2**	**46**	**9**	**0.2**
Total	**1294**	**2403**	**1.9**	**166,590**	**125,872**	**0.8**	**167,884**	**128,276**	**0.8**

CROP STORAGE

5.23: Number of households Storing Crops Season and District

District	SHORT RAINY SEASON					LONG RAINY SEASON					SHORT & LONG SEASON				
	Number of households storing crops	%	Number of households not storing crops	%	Total	Number of households storing crops	%	Number of households not storing crops	%	Total	Number of households storing crops	%	Number of households not storing crops	%	Total
Kilwa	0	0	0	0	0	28,068	96	1,104	4	29,172	28,068	96	1,104	4	29,172
Lindi Rural	496	100	0	0	496	44,767	95	2,480	5	47,247	45,263	95	2,480	5	47,743
Nachingwea	94	100	0	0	94	37,148	99	376	1	37,524	37,242	99	376	1	37,619
Liwale	29	100	0	0	29	11,194	98	263	2	11,457	11,224	98	263	2	11,487
Ruangwa	380	22	1,367	78	1,747	28,248	94	1,898	6	30,146	28,628	90	3,265	10	31,893
Lindi Urban	0	0	0	0	0	3,431	88	451	12	3,883	3,431	88	451	12	3,883
Total	999	42	1,367	58	2,366	152,857	96	6,573	4	159,430	153,856	95	7,940	5	161,796

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

	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
Crop	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Maize	6,544	44.6	315	2.2	0	.0	6,386	43.5	158	1.1	158	1.1	1,104	7.5	0	.0	14,665	100.0
Paddy	6,702	63.4	158	1.5	0	.0	2,365	22.4	79	.7	79	.7	473	4.5	710	6.7	10,565	100.0
Sorghum	10,486	57.1	0	.0	0	.0	6,781	36.9	158	.9	79	.4	710	3.9	158	.9	18,371	100.0
Bulrush Millet	237	75.0	0	.0	0	.0	79	25.0	0	.0	0	.0	0	.0	0	.0	315	100.0
Finger Millet	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
CEREALS	**23,969**	**54.6**	**473**	**1.1**	**0**	**.0**	**15,611**	**35.5**	**394**	**.9**	**315**	**.7**	**2,286**	**5.2**	**867**	**2.0**	**43,916**	**100**
Cassava	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Sweet Potatoes	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Irish Potatoes																		
Yams	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
ROOTS & TUBERS	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**
Beans	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cowpeas	1,183	78.9	0	.0	0	.0	158	10.5	0	.0	0	.0	158	10.5	0	.0	1,498	100.0
Green gram	79	100.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	79	100.0
Bambaranuts	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Field Peas	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
PULSES	**1,262**	**80**					**158**	**10**					**158**	**10**			**1,577**	**100**
Sunflower	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Simsim	1,892	16.6	79	.7	0	.0	1,656	14.5	0	.0	0	.0	7,727	67.6	79	.7	11,432	100.0
Groundnut	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
OIL SEEDS & OIL NUTS	**1,892**	**17**	**79**	**1**			**1,656**	**14**					**7,727**	**68**	**79**	**1**	**11,432**	**100**

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

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	79	100.0	0	.0	79	100.0
Radish	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Turmeric	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Onion	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	158	100.0	0	.0	158	100.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Amaranths	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Pumpkins	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Cucumber	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Egg Plant	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
FRUITS & VEGETABLES	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**237**	**100.0**	**0**	**.0**	**237**	**100.0**
Cotton	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
CASH CROPS	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**
Total	27,122	47.4	552	1.0	0	.0	17,424	30.5	394	.7	315	.6	10,407	18.2	946	1.7	57,162	100.0

5.25: Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season - LINDI (R)

	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
Crop	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Maize	21,577	74	124	0	372	1	4,464	15	0	0	248	1	1,860	6	372	1	29,018	100
Paddy	11,161	63	124	1	124	1	4,340	25	0	0	0	0	1,860	1	0	0	17,609	100
Sorghum	16,617	73	0	0	0	0	4,960	22	124	1	124	1	868	14	0	0	22,693	100
Bulrush Millet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CEREALS	**49,355**	**71**	**248**	**0**	**496**	**1**	**13765**	**20**	**124**	**0**	**372**	**1**	**4588**	**7**	**372**	**1**	**69320**	**100**
Cassava	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sweet Potatoes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Irish Potatoes																		
Yams	124	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	124	100
CocoYams																		
ROOTS & TUBERS	**124**	**100.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**124**	**100.0**
Beans	620	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	620	100
Cowpeas	2,108	63	0	0	0	0	744	22	0	0	0	0	496	15	0	0	3,348	100
Green gram	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chick Peas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bambaranuts	496	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	496	100
Field Peas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PULSES	**3,224**	**72**	**0**	**0**	**0**	**0**	**744**	**17**	**0**	**0**	**0**	**0**	**496**	**11**	**0**	**0**	**4,464**	**100**
Sunflower	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Simsim	1,736	15	0	0	0	0	744	7	0	0	0	0	8,929	78	0	0	11,409	100
Groundnut	992	36	124	5	0	0	744	27	0	0	0	0	868	32	0	0	2,728	100
OIL SEEDS & OIL NUTS	**2,728**	**19**	**124**	**1**	**0**	**0**	**1,488**	**11**	**0**	**0**	**0**	**0**	**9,797**	**69**	**0**	**0**	**14,137**	**100**

Cont. 5.25: Number of households storing Crops by Method of Storage and Crop Type Long Rainy Season - LINDI (R)

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	248	100.0	0	.0	248	100.0
Radish	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Turmeric	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
Onion	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	496	100.0	0	.0	496	100.0
Chillies	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	124	100.0	0	.0	124	100.0
Amaranths	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	124	100.0	0	.0	124	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
FRUITS & VEGETABLES	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**992**	**100**	**0**	**0**	**992**	**100**
Cotton	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0	0	.0
CASH CROPS	**0**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
Total	**55,431**	**62**	**372**	**0**	**496**	**1**	**15,997**	**18**	**124**	**0**	**372**	**0**	**15,873**	**18**	**372**	**0**	**89,037**	**100**

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

	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
Crop	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Maize	26,709	73	470	1	94	0	7,712	21	0	0	94	0	1,317	4	188	1	36,584	100
Paddy	2,163	59	0	0	0	0	1,129	31	0	0	0	0	282	8	94	3	3,668	100
Sorghum	8,746	74	0	0	94	1	1,881	16	94	1	0	0	940	8	94	1	11,850	100
Bulrush Millet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Finger Millet	94	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94	100
CEREALS	**37,713**	**72**	**470**	**1**	**188**	**0**	**10721**	**21**	**94**	**0**	**94**	**0**	**2539**	**5**	**376**	**1**	**52196**	**100**
Cassava	94	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94	100
Sweet Potatoes	94	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94	100
Irish Potatoes																		
Yams	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CocoYams																		
ROOTS & TUBERS	**188**	**100.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**188**	**100.0**
Beans	940	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	940	100
Cowpeas	4,420	55	0	0	0	0	1,975	24	0	0	0	0	1,693	21	0	0	8,088	100
Green gram	188	50	0	0	0	0	94	25	0	0	0	0	94	25	0	0	376	100
Chick Peas																		
Bambaranuts	846	35	0	0	0	0	1,223	50	0	0	0	0	376	15	0	0	2,445	100
Field Peas	94	50	0	0	0	0	94	50	0	0	0	0	0	0	0	0	188	100
PULSES	**6,489**	**54**	**0**	**0**	**0**	**0**	**3,386**	**28**	**0**	**0**	**0**	**0**	**2,163**	**18**	**0**	**0**	**12,038**	**100**
Sunflower	0	0	0	0	0	0	0	0	0	0	0	0	188	100	0	0	188	100
Simsim	4,702	33	0	0	0	0	846	6	0	0	0	0	8,746	61	0	0	14,295	100
Groundnut	564	38	0	0	0	0	752	50	0	0	0	0	188	13	0	0	1,505	100
OIL SEEDS & OIL NUTS	**5,267**	**33**	**0**	**0**	**0**	**0**	**1,599**	**10**	**0**	**0**	**0**	**0**	**9,122**	**57**	**0**	**0**	**15,988**	**100**

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

	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
Crop	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	0	0	0	0	0	0	0	0	0	0	0	0	94	100	0	0	94	100
Radish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Onion	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	188	100	0	0	188	100
Chillies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0	0	0	0	0	188	100	0	0	188	100
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	94	100	0	0	94	100
Egg Plant	94	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94	100
FRUITS & VEGETABLES	**94**	**14**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**564**	**86**	**0**	**0**	**658**	**100**
Cotton	94	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94	100
CASH CROPS	**94**	**100**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**94**	**100**
Total	**49,845**	**61**	**470**	**1**	**188**	**0**	**15,706**	**19**	**94**	**0**	**94**	**0**	**14,389**	**18**	**376**	**0**	**81,162**	**100**

5.27: Number of households storing Crops by Method of Storage and Crop Type, Long Rainy Season -LIWALE

	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
Crop	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Maize	7,804	77	146	1	58	1	1,608	16	0	0	146	1	380	4	0	0	10,142	100
Paddy	1,608	70	146	6	0	0	555	24	0	0	0	0	0	0	0	0	2,309	100
Sorghum	5,670	87	117	2	29	0	380	6	0	0	58	1	263	4	0	0	6,518	100
Bulrush Millet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Finger Millet	58	67	0	0	0	0	29	33	0	0	0	0	0	0	0	0	88	100
Wheat																		
Barley																		
CEREALS	**15,140**	**79**	**409**	**2**	**88**	**0**	**2572**	**13**	**0**	**0**	**205**	**1**	**643**	**3**	**0**	**0**	**19057**	**100**
Cassava	117	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	117	100
Sweet Potatoes	117	67	0	0	0	0	0	0	0	0	0	0	58	33	0	0	175	100
Irish Potatoes																		
Yams	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CocoYams																		
ROOTS & TUBERS	**234**	**80.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**58**	**20.0**	**0**	**.0**	**292**	**100.0**
Beans	29	33	0	0	0	0	58	67	0	0	0	0	0	0	0	0	88	100
Cowpeas	1,315	58	29	1	0	0	731	32	0	0	29	1	175	8	0	0	2,280	100
Green gram	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chick Peas																		
Bambaranuts	29	25	0	0	0	0	88	75	0	0	0	0	0	0	0	0	117	100
Field Peas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PULSES	**1,374**	**55**	**29**	**1**	**0**	**0**	**877**	**35**	**0**	**0**	**29**	**1**	**175**	**7**	**0**	**0**	**2,484**	**100**
Sunflower	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Simsim	1,198	30	0	0	0	0	438	11	88	2	0	0	2,251	57	0	0	3,975	100
Groundnut	555	56	0	0	0	0	205	21	0	0	0	0	234	24	0	0	994	100
Soya Beans																		
Castor seed																		
OIL SEEDS & OIL NUTS	**1,754**	**35**	**0**	**0**	**0**	**0**	**643**	**13**	**88**	**2**	**0**	**0**	**2,484**	**50**	**0**	**0**	**4,969**	**100**

Cont.

Cont 5.27: Number of households storing Crops by Method of Storage and Crop Type Long, Rainy Season -LIWALE

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	29	50	0	0	0	0	0	0	0	0	29	50	0	0	0	0	58	100
Radish	29	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	100
Turmeric	29	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	100
Onion	0	0	0	0	0	0	0	0	0	0	0	0	29	100	0	0	29	100
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	58	100	0	0	58	100
Chillies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pumpkins	29	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	100
Cucumber	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Mellon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES	**117**	**50**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**29**	**13**	**88**	**38**	**0**	**0**	**234**	**100**
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tobacco	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pyrethrum	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
CASH CROPS	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Total	18,618	69	438	2	88	0	4,092	15	88	0	263	1	3,449	13	0	0	27,036	100

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

	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
Crop	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Maize	19,439	70	304	1	304	1	5,543	20	76	0	76	0	1,974	7	228	1	27,944	100
Paddy	759	53	0	0	0	0	380	26	0	0	0	0	304	21	0	0	1,443	100
Sorghum	6,530	70	76	1	76	1	1,519	16	0	0	0	0	987	11	76	1	9,264	100
Bulrush Millet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CEREALS	**26,729**	**69**	**380**	**1**	**380**	**1**	**7442**	**19**	**76**	**0**	**76**	**0**	**3265**	**8**	**304**	**1**	**38651**	**100**
Cassava	76	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	76	100
Sweet Potatoes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Irish Potatoes																		
Yams	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROOTS & TUBERS	**76**	**100.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**76**	**100.0**
Beans	228	21	0	0	0	0	456	43	0	0	0	0	380	36	0	0	1,063	100
Cowpeas	1,671	61	76	3	76	3	607	22	0	0	0	0	304	11	0	0	2,734	100
Green gram	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bambaranuts	0	0	76	25	0	0	152	50	0	0	0	0	76	25	0	0	304	100
Field Peas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PULSES	1,898	46	152	4	76	2	1,215	30	0	0	0	0	759	19	0	0	4,100	100
Sunflower	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Simsim	1,139	17	76	1	0	0	228	3	0	0	0	0	5,315	78	76	1	6,834	100
Groundnut	532	64	0	0	0	0	76	9	0	0	0	0	228	27	0	0	835	100
OIL SEEDS & OIL NUTS	**1,671**	**22**	**76**	**1**	**0**	**0**	**304**	**4**	**0**	**0**	**0**	**0**	**5,543**	**72**	**76**	**1**	**7,669**	**100**

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

	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
Crop	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Onion	76	50	0	0	0	0	0	0	0	0	0	0	76	50	0	0	152	100
Tomatoes	76	25	0	0	0	0	0	0	0	0	0	0	228	75	0	0	304	100
Chillies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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
FRUITS & VEGETABLES	**152**	**33**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**304**	**67**	**0**	**0**	**456**	**100**
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CASH CROPS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

5.29: Number of households storing Crops by Method of Storage and Crop Type, Long Rainy Season - LINDI (U)

	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
Crop	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Maize	858	37	135	6	0	0	768	33	45	2	226	10	316	13	0	0	2,348	100
Paddy	45	20	0	0	0	0	90	40	0	0	0	0	90	40	0	0	226	100
Sorghum	1,174	36	316	10	0	0	1,264	39	45	1	90	3	316	10	45	1	3,251	100
Bulrush Millet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CEREALS	**2,077**	**36**	**451**	**8**	**0**	**0**	**2122**	**36**	**90**	**2**	**316**	**5**	**722**	**12**	**45**	**1**	**5824**	**100**
Cassava	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sweet Potatoes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Irish Potatoes																		
Yams	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROOTS & TUBERS	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**	**0**	**.0**
Beans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cowpeas	0	0	45	33	0	0	45	33	0	0	0	0	45	33	0	0	135	100
Green gram	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bambaranuts	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PULSES	**0**	**0**	**45**	**33**	**0**	**0**	**45**	**33**	**0**	**0**	**0**	**0**	**45**	**33**	**0**	**0**	**135**	**100**
Sunflower	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Simsim	0	0	0	0	0	0	45	5	0	0	0	0	768	89	45	5	858	100
Groundnut	0	0	0	0	0	0	45	25	0	0	0	0	135	75	0	0	181	100
OIL SEEDS & OIL NUTS	**0**	**0**	**0**	**0**	**0**	**0**	**90**	**9**	**0**	**0**	**0**	**0**	**903**	**87**	**45**	**4**	**1,038**	**100**

Cont 5.29: Number of households storing Crops by Method of Storage and Crop Type, Long Rainy Season - LINDI (U)

Crop	In locally made traditional structure		In Improved locally made structure		In modern store		In Sacks/open drum		In airtight drum		Unprotected pile		Not stored		Other (Specify)		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Okra	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Radish	0	0	45	100	0	0	0	0	0	0	0	0	0	0	0	0	45	100
Turmeric	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
Tomatoes	0	0	0	0	0	0	0	0	0	0	0	0	45	100	0	0	45	100
Chillies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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
FRUITS & VEGETABLES	**0**	**0**	**45**	**50**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**45**	**50**	**0**	**0**	**90**	**100**
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CASH CROPS	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Total	**2,077**	**29**	**542**	**8**	**0**	**0**	**2,257**	**32**	**90**	**1**	**316**	**4**	**1,716**	**24**	**90**	**1**	**7,088**	**100**

INPUT USE

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

Districts	Organic Fertlizer Use						% of Planted area using Organic Fertlizer
	Number of Households using Organic Fertlizer	Planted Area Applied with Organic Fertlizer	Number of Households NOT using Organic Fertlizer	Planted Area NOT Applied with Organic Fertlizer	Total Number of Households Planting in VULI	Total Planted Area in VULI	
Kilwa	0	0	0	0	0	0	0.0
Lindi Rural	0	0	496	301	496	301	0.0
Nachingwea	0	0	94	390	94	390	0.0
Liwale	0	0	29	11	29	11	0.0
Ruangwa	0	0	1,747	592	1,747	592	0.0
Lindi Urban	0	0	0	0	0	0	0.0
Total	0	0	2,366	1,294	2,366	1,294	0.0

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

Districts	Organic Fertlizer Use						% of Planted area using Organic Fertlizer
	Number of Households using Organic Fertlizer	Planted Area Applied with Organic Fertlizer	Number of Households NOT using Organic Fertlizer	Planted Area NOT Applied with Organic Fertlizer	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Kilwa	0	0	29,172	33,768	29,172	33,768	0.0
Lindi Rural	248	151	46,999	40,197	47,247	40,348	0.4
Nachingwea	188	364	37,336	46,819	37,524	47,183	0.8
Liwale	0	0	11,457	16,237	11,457	16,237	0.0
Ruangwa	152	55	29,994	26,669	30,146	26,725	0.2
Lindi Urban	45	18	3,838	2,311	3,883	2,329	0.8
Total	633	588	158,797	166,002	159,430	166,590	0.4

5.32: 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	
Kilwa	0	0	0	0	0	0	0
Lindi Rural	124	75	372	226	496	301	25
Nachingwea	0	.	94	390	94	390	0
Liwale	0	0	29	11	29	11	0
Ruangwa	1,443	369	304	223	1,747	592	62.3
Lindi Urban	0	0	0	.	0	0	0
Lindi Total	**1,567**	**444**	**799**	**850**	**2,366**	**1,294**	34.3

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

Districts	Inorganic Fertilizer Fertlizer Use						% of Planted area using Inorganic Fertilizer
	Number of Households using Inorganic Fertilizer	Planted Area Applied with Inorganic Fertilizer	Number of Households NOT using Inorganic Fertilizer	Planted Area NOT Applied with Inorganic Fertilizer	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Kilwa	0	0	29,172	33768	29,172	33768	0
Lindi Rural	496	171	46,751	40,177	47,247	40,348	0.4
Nachingwea	282	194	37,242	46,989	37,524	47,183	0.4
Liwale	88	35	11,370	16,202	11,457	16,237	0.2
Ruangwa	152	154	29,994	26,571	30,146	26,725	0.6
Lindi Urban	0	0	3,883	2329	3,883	2329	0
Lindi Total	**1,018**	**554**	**158,412**	**166,036**	**159,430**	**166,590**	0.3

5.34: 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	
Kilwa	0	0	0	0	0	0	0.0
Lindi Rural	0	0	496	301	496	301	0.0
Nachingwea	0	0	94	390	94	390	0.0
Liwale	0	0	29	11	29	11	0.0
Ruangwa	456	146	1,291	446	1,747	592	24.7
Lindi Urban	**0**	**0**	**0**	**0**	**0**	**0**	**0.0**
Total	**456**	**146**	**1,910**	**1,148**	**2,366**	**1,294**	**11.3**

5.35: 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	
Kilwa	552	1,117	28,620	32,652	29,172	33,768	3.3
Lindi Rural	372	213	46,875	40,134	47,247	40,348	0.5
Nachingwea	188	111	37,336	47,072	37,524	47,183	0.2
Liwale	205	225	11,253	16,012	11,457	16,237	1.4
Ruangwa	759	655	29,387	26,070	30,146	26,725	2.4
Lindi Urban	0	0	3,883	2,329	3,883	2,329	0.0
Total	**2,076**	**2,321**	**157,354**	**164,269**	**159,430**	**166,590**	**1.4**

5.36: 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	
Kilwa	0	0	0	0	0	0	0.0
Lindi Rural	0	0	496	301	496	301	0.0
Nachingwea	0	0	94	390	94	390	0.0
Liwale	0	0	29	11	29	11	0.0
Ruangwa	0	0	1,747	592	1,747	592	0.0
Lindi Urban	0	0	0	0	0	0	0.0
Total	0	0	2,366	1,294	2,366	1,294	0.0

5.37: 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	
Kilwa	315	830	28,857	32,938	29,172	33,768	2.5
Lindi Rural	0	0	47,247	40,348	47,247	40,348	0.0
Nachingwea	188	109	37,336	47,075	37,524	47,183	0.2
Liwale	146	183	11,311	16,054	11,457	16,237	1.1
Ruangwa	76	5	30,070	26,720	30,146	26,725	0.0
Lindi Urban	0	0	3,883	2,329	3,883	2,329	0.0
Total	**726**	**1,126**	**158,704**	**165,463**	**159,430**	**166,590**	**0.7**

5.38: 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	
Kilwa	0	0	0	0	0	0	0.0
Lindi Rural	124	151	372	151	496	301	50.0
Nachingwea	0	0	94	390	94	390	0.0
Liwale	0	0	29	11	29	11	0.0
Ruangwa	607	147	1,139	445	1,747	592	24.8
Lindi Urban	0	0	0	0	0	0	0.0
Total	731	298	1,634	997	2,366	1,294	23.0

5.39: 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	
Kilwa	4,888	4,011	24,284	29,757	29,172	33,768	11.9
Lindi Rural	5,580	3,271	41,666	37,077	47,247	40,348	8.1
Nachingwea	3,950	4,026	33,575	43,157	37,524	47,183	8.5
Liwale	2,777	2,938	8,681	13,299	11,457	16,237	18.1
Ruangwa	1,898	1,056	28,248	25,669	30,146	26,725	4.0
Lindi Urban	497	153	3,386	2,177	3,883	2,329	6.6
Total	19,590	15,454	139,840	151,136	159,430	166,590	9.3

5.40: Number of crop Growing Households and Planted Area (hectare) by Local Seed Use and District; 2007/08 Agriculture Year - SHORT Rainy Season 5.

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)	
Kilwa	0	0	0	0	0	0	0.0
Lindi Rural	372	151	124	151	496	301	50.0
Nachingwea	94	390	0	0	94	390	100.0
Liwale	29	11	0	0	29	11	100.0
Ruangwa	1,139	398	607	194	1,747	592	67.2
Lindi Urban	0	0	0	.	0	0	0.0
Total	1,634	950	731	345	2,366	1,294	73.4

5.41: 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)	
Kilwa	28,068	27,135	1,104	6,633	29,172	33,768	80
Lindi Rural	44,519	33,601	2,728	6,746	47,247	40,348	83
Nachingwea	36,396	41,506	1,129	5,677	37,524	47,183	88
Liwale	10,785	12,761	672	3,476	11,457	16,237	79
Ruangwa	29,691	24,339	456	2,386	30,146	26,725	91
Lindi Urban	3,612	2,153	271	177	3,883	2,329	92
Total	153,071	141,495	6,359	25,095	159,430	166,590	85

5.42: 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	
Kilwa	0	0	0	0	0	0	0.0
Lindi Rural	0	0	496	301	496	301	0.0
Nachingwea	0	0	94	390	94	390	0.0
Liwale	0	0	29	11	29	11	0.0
Ruangwa	607	184	1,139	407	1,747	592	31.2
Lindi Urban	0	0	0	0	0	0	0.0
Total	607	184	1,758	1,110	2,366	1,294	14.3

5.43: Number of Households and Planted Area by Insecticides 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	
Kilwa	237	147	28,936	33,621	29,172	33,768	0.4
Lindi Rural	2,976	1,207	44,271	39,140	47,247	40,348	3.0
Nachingwea	1,317	740	36,208	46,443	37,524	47,183	1.6
Liwale	438	237	11,019	16,000	11,457	16,237	1.5
Ruangwa	835	398	29,311	26,327	30,146	26,725	1.5
Lindi Urban	45	5	3,838	2,325	3,883	2,329	0.2
Total	5,848	2,732	153,582	163,858	159,430	166,590	1.6

5.44: 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	
Kilwa	0	0	0	0	0	0	0.0
Lindi Rural	372	251	124	50	496	301	83.3
Nachingwea	0	0	94	390	94	390	0.0
Liwale	0	0	29	11	29	11	0.0
Ruangwa	1,519	327	228	265	1,747	592	55.2
Lindi Urban	0	0	0	0	0	0	0.0
Total	1,891	578	475	717	2,366	1,294	44.6

5.45: 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	
Kilwa	158	160	29,015	33,609	29,172	33,768	0.5
Lindi Rural	1,860	1,425	45,387	38,923	47,247	40,348	3.5
Nachingwea	94	57	37,430	47,126	37,524	47,183	0.1
Liwale	117	83	11,340	16,154	11,457	16,237	0.5
Ruangwa	607	221	29,539	26,503	30,146	26,725	0.8
Lindi Urban	0	0	3,883	2,329	3,883	2,329	0.0
Total	2,836	1,945	156,594	164,644	159,430	166,590	1.2

MARKETING

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

	SHORT RAINY SEASON					LONG RAINY SEASON				
District	Number of households that sold	%	Number of households that did not sell	%	Total number of households	Number of households that sold	%	Number of households that did not sell	%	Total number of households
Kilwa	0	0	0	0	0	18,055	62	11,117	38	29,172
Lindi Rural	372	75	124	25	496	32,118	68	15,129	32	47,247
Nachingwea	0	0	94	100	94	23,418	62	14,107	38	37,524
Liwale	29	100	0	0	29	8,330	73	3,127	27	11,457
Ruangwa	1,747	100	0	0	1,747	15,794	52	14,352	48	30,146
Lindi Urban	0	0	0	0	0	1,535	40	2,348	60	3,883
Total	2,148	91	218	9	2,366	99,250	62	60,180	38	159,430

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

Crop	Open Market Price too low	No Transport	Transport Cost too high	No buyer	Crop Market too Far	Farmer Association problems	Cooperative problems	Trade Union Problems	Goernment Rugulatory Problems	Lack of Market Information	No problem	Other	Not Applicable
Maize	2,050	158	631	158	788	0	158	0	79	0	867	0	9,777
Paddy	1,971	237	0	0	158	0	79	0	0	0	237	0	7,884
Sorghum	3,311	473	0	788	158	0	0	0	0	710	631	79	12,221
Bulrush Millet	0	0	0	0	0	0	0	0	0	0	0	0	315
Finger Millet	0	0	0	0	0	0	0	0	0	0	0	0	0
CEREALS	**7,332**	**867**	**631**	**946**	**1,104**	**0**	**237**	**0**	**79**	**710**	**1,735**	**79**	**30,197**
Cassava	0	0	0	0	0	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	0	0	0	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0	0	0	0	0	0	0
ROOTS & TUBERS	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Beans	0	0	0	0	0	0	0	0	0	0	0	0	0
Cowpeas	394	79	0	0	0	0	0	0	0	0	158	0	867
Green gram	0	0	0	0	0	0	0	0	0	0	0	0	79
Bambaranuts	0	0	0	0	0	0	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0	0	0	0	0	0	0
PULSES	**394**	**79**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**158**	**0**	**946**
Sunflower	0	0	0	0	0	0	0	0	0	0	0	0	0
Simsim	7,884	158	710	0	237	237	788	0	0	158	1,025	0	237
Groundnut	0	0	0	0	0	0	0	0	0	0	0	0	0
OIL SEEDS & OIL NUTS	**7,884**	**158**	**710**	**0**	**237**	**237**	**788**	**0**	**0**	**158**	**1,025**	**0**	**237**
Okra	79	0	0	0	0	0	0	0	0	0	0	0	0
Radish	0	0	0	0	0	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0	0	0	0	0	0
Tomatoes	79	79	0	0	0	0	0	0	0	0	0	0	0
Chillies	0	0	0	0	0	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES	**158**	**79**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0
CASH CROPS	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	15,769	1,183	1,340	946	1,340	237	1,025	0	79	867	2,917	79	31,380

5.48: Number of Households Reporting Marketing Problems for agricultural products by Crop - LINDI (R), LONG RAINY SEASON

Crop	Open Market Price too low	No Transport	Transport Cost too high	No buyer	Crop Market too Far	Farmer Association problems	Cooperative problems	Trade Union Problems	Goernment Rugulatory Problems	Lack of Market Information	No problem	Other	Not Applicable
Maize	6,696	372	0	124	0	124	0	0	0	0	2,728	0	18,973
Paddy	8,432	124	124	124	124	124	0	0	248	0	992	0	7,316
Sorghum	5,828	0	248	0	0	0	124	0	0	0	1,240	0	15,253
Bulrush Millet	0	0	0	0	0	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0	0	0	0	0	0
CEREALS	**20,957**	**496**	**372**	**248**	**124**	**248**	**124**	**0**	**248**	**0**	**4,960**	**0**	**41,542**
Cassava	0	0	0	0	0	0	0	0	0	0	0	0	0
Sweet Potato	0	0	0	0	0	0	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0	0	0	0	0	0	124
ROOTS & TUBERS	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**124**
Beans	248	0	0	0	0	0	0	0	0	0	124	0	248
Cowpeas	1,612	0	0	0	0	0	0	0	0	0	248	124	1,364
Green gram	0	0	0	0	0	0	0	0	0	0	0	0	0
Bambaranuts	124	124	0	0	0	0	0	0	0	124	0	0	124
Field Peas	0	0	0	0	0	0	0	0	0	0	0	0	0
PULSES	**1,984**	**124**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**124**	**372**	**124**	**1,736**
Sunflower	0	0	0	0	0	0	0	0	0	0	0	0	0
Simsim	3,348	0	0	0	248	124	1,364	124	124	0	5,332	124	620
Groundnut	1,612	0	124	0	124	0	0	0	0	372	372	0	124
OIL SEEDS & OIL NUTS	**4,960**	**0**	**124**	**0**	**372**	**124**	**1,364**	**124**	**124**	**372**	**5,704**	**124**	**744**
Okra	248	0	0	0	0	0	0	0	0	0	0	0	0
Radish	0	0	0	0	0	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0	0	0	0	0	0
Tomatoes	248	0	0	0	124	0	0	0	0	0	124	0	0
Chillies	124	0	0	0	0	0	0	0	0	0	0	0	0
Amaranths	124	0	0	0	0	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES	**744**	**0**	**0**	**0**	**124**	**0**	**0**	**0**	**0**	**0**	**124**	**0**	**0**
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0
CASH CROPS	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	28,646	620	496	248	620	372	1,488	124	372	496	11,161	248	44,147

5.49: Number of Households Reporting Marketing Problems for agricultural products by Crop - NACHINGWEA LONG RAINY SEASON

Crop	Open Market Price too low	No Transport	Transport Cost too high	No buyer	Crop Market too Far	Farmer Association problems	Cooperative problems	Trade Union Problems	Goernment Rugulatory Problems	Lack of Market Information	No problem	Other	Not Applicable
Maize	6,301	188	94	0	188	0	94	0	94	0	4,796	282	24,546
Paddy	752	0	0	0	0	0	0	94	0	0	658	94	2,069
Sorghum	376	0	94	94	0	0	0	0	188	94	940	94	9,969
Bulrush Millet	0	0	0	0	0	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0	0	0	0	0	94
CEREALS	**7,430**	**188**	**188**	**94**	**188**	**0**	**94**	**94**	**282**	**94**	**6,395**	**470**	**36,678**
Cassava	0	0	0	0	0	0	0	0	0	0	0	0	94
Sweet Potato	0	0	0	0	0	0	0	0	0	0	0	0	94
Yams	0	0	0	0	0	0	0	0	0	0	0	0	0
ROOTS & TUBERS	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**188**
Beans	94	0	0	0	0	0	0	0	94	0	188	0	564
Cowpeas	1,599	94	0	0	0	0	94	0	0	0	2,445	94	3,762
Green gram	188	0	0	0	0	0	0	0	0	0	0	0	188
Bambaranuts	940	0	0	0	94	0	0	0	0	0	188	0	1,223
Field Peas	0	0	0	0	0	0	0	0	0	0	0	0	188
PULSES	**2,821**	**94**	**0**	**0**	**94**	**0**	**94**	**0**	**94**	**0**	**2,821**	**94**	**5,925**
Sunflower	94	0	0	0	0	0	0	0	0	0	94	0	0
Simsim	5,173	188	0	0	94	0	1,035	94	0	94	6,489	188	940
Groundnut	752	0	0	0	94	0	0	0	0	0	282	0	376
OIL SEEDS & OIL NUTS	**6,019**	**188**	**0**	**0**	**188**	**0**	**1,035**	**94**	**0**	**94**	**6,865**	**188**	**1,317**
Okra	0	0	0	0	94	0	0	0	0	0	0	0	0
Radish	0	0	0	0	0	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0	0	0	0	0	0
Tomatoes	0	0	94	0	94	0	0	0	0	0	0	0	0
Chillies	0	0	0	0	0	0	0	0	0	0	0	0	0
Amaranths	0	94	0	0	94	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	94	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	94	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES	**0**	**94**	**94**	**0**	**470**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Cotton	94	0	0	0	0	0	0	0	0	0	0	0	0
CASH CROPS	94	0	0	0	0	0	0	0	0	0	0	0	0
Total	16,364	564	282	94	940	0	1,223	188	376	188	16,082	752	44,108

5.50: Number of Households Reporting Marketing Problems for agricultural products by Crop - LIWALE LONG RAINY SEASON

Crop	Open Market Price too low	No Transport	Transport Cost too high	No buyer	Crop Market too Far	Farmer Association problems	Cooperative problems	Trade Union Problems	Goernment Rugulatory Problems	Lack of Market Information	No problem	Other	Not Applicable
Maize	3,361	146	117	29	88	0	0	0	29	58	1,023	0	5,290
Paddy	848	58	0	0	0	0	0	29	0	0	322	0	1,052
Sorghum	1,344	88	58	88	58	0	0	29	0	58	585	0	4,209
Bulrush Millet	0	0	0	0	0	0	0	0	0	0	0	0	0
Finger Millet	58	0	0	0	0	0	0	0	0	0	0	0	29
CEREALS	**5,612**	**292**	**175**	**117**	**146**	**0**	**0**	**58**	**29**	**117**	**1,929**	**0**	**10,581**
Cassava	117	0	0	0	0	0	0	0	0	0	0	0	0
Sweet Potato	29	0	29	0	29	0	0	0	0	0	58	0	29
Yams	0	0	0	0	0	0	0	0	0	0	0	0	0
ROOTS & TUBERS	**146**	**0**	**29**	**0**	**29**	**0**	**0**	**0**	**0**	**0**	**58**	**0**	**29**
Beans	29	0	0	0	0	0	0	0	0	0	0	0	58
Cowpeas	789	58	58	0	29	0	0	0	0	0	526	0	818
Green gram	0	0	0	0	0	0	0	0	0	0	0	0	0
Bambaranuts	58	0	0	0	0	0	0	0	0	0	29	0	29
Field Peas	0	0	0	0	0	0	0	0	0	0	0	0	0
PULSES	**877**	**58**	**58**	**0**	**29**	**0**	**0**	**0**	**0**	**0**	**555**	**0**	**906**
Sunflower	0	0	0	0	0	0	0	0	0	0	0	0	0
Simsim	1,900	58	117	0	117	29	0	0	0	0	1,403	0	351
Groundnut	322	0	29	0	29	0	0	0	0	0	409	0	205
OIL SEEDS & OIL NUTS	**2,221**	**58**	**146**	**0**	**146**	**29**	**0**	**0**	**0**	**0**	**1,812**	**0**	**555**
Okra	29	0	0	0	0	0	0	0	0	0	0	0	29
Radish	0	0	0	0	0	0	0	0	0	0	0	0	29
Turmeric	29	0	0	0	0	0	0	0	0	0	0	0	0
Onion	29	0	0	0	0	0	0	0	0	0	0	0	0
Tomatoes	29	29	0	0	0	0	0	0	0	0	0	0	0
Chillies	0	0	0	0	0	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0	0	0	0	0	29
Cucumber	0	0	0	0	0	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES	**117**	**29**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**88**
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0
CASH CROPS	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	8,973	438	409	117	351	29	0	58	29	117	4,355	0	12,159

5.51: Number of Households Reporting Marketing Problems for agricultural products by Crop - RUANGWA LONG RAINY SEASON

Crop	Open Market Price too low	No Transport	Transport Cost too high	No buyer	Crop Market too Far	Farmer Association problems	Cooperative problems	Trade Union Problems	Goernment Rugulatory Problems	Lack of Market Information	No problem	Other	Not Applicable
Maize	4,936	0	0	0	76	152	0	0	304	456	2,810	152	19,060
Paddy	380	0	0	76	0	0	0	0	0	0	76	0	911
Sorghum	911	0	0	0	0	0	0	76	76	0	835	0	7,366
Bulrush Millet	0	0	0	0	0	0	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0	0	0	0	0	0	0
CEREALS	**6,227**	**0**	**0**	**76**	**76**	**152**	**0**	**76**	**380**	**456**	**3,721**	**152**	**27,337**
Cassava	0	0	0	0	0	0	0	0	0	0	0	0	76
Sweet Potato	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
ROOTS & TUBERS	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**76**
Beans	532	0	0	0	0	0	0	0	0	0	304	0	228
Cowpeas	683	0	0	0	0	0	0	0	0	0	759	0	1,291
Green gram	0	0	0	0	0	0	0	0	0	0	0	0	0
Bambaranuts	76	0	0	0	0	0	0	0	0	0	152	0	76
Field Peas	0	0	0	0	0	0	0	0	0	0	0	0	0
PULSES	**1,291**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1,215**	**0**	**1,595**
Sunflower	0	0	0	0	0	0	0	0	0	0	0	0	0
Simsim	4,100	76	0	0	0	152	152	0	0	0	1,671	0	683
Groundnut	607	0	0	0	0	0	0	0	0	0	0	0	228
OIL SEEDS & OIL NUTS	**4,708**	**76**	**0**	**0**	**0**	**152**	**152**	**0**	**0**	**0**	**1,671**	**0**	**911**
Okra	0	0	0	0	0	0	0	0	0	0	0	0	0
Radish	0	0	0	0	0	0	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0	0	0	0	152	0	0
Tomatoes	76	0	0	0	76	0	0	0	0	0	76	0	76
Chillies	0	0	0	0	0	0	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0	0	0	0	0	0	0
FRUITS & VEGETABLES	**76**	**0**	**0**	**0**	**76**	**0**	**0**	**0**	**0**	**0**	**228**	**0**	**76**
Cotton	0	0	0	0	0	0	0	0	0	0	0	0	0
CASH CROPS	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	12,301	76	0	76	152	304	152	76	380	456	6,834	152	29,994

INPUT USE BY CROP- SHORT RAINY SEASON

5.52: Planted Area & Number of Crop Growing Households by Irrigation Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - Kilwa

Crop	Irrigation use						% of Planted area using Irrigation
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	79	10	14,586	7,575	14,665	7,585	0
Paddy	158	115	10,407	5,761	10,565	5,876	2
Sorghum	79	3	18,292	12,271	18,371	12,274	0
Bulrush Millet	0	0	315	326	315	326	0
Finger Millet	0	0	0	0	0	0	0
CEREALS		**128**		**25,932**		**26,060**	**0**
Cassava	0	0	0	0	0	0	0
Sweet Potato	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0
ROOTS & TUBERS		**0**		**0**		**0**	**0**
Beans	0	0	0	0	0	0	0
Cowpeas	0	0	1,498	350	1,498	350	0
Green gram	0	0	79	14	79	14	0
Bambaranuts	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0
PULSES	0	0	1,577	364	1,577	364	0
Sunflower	0	0	0	0	0	0	0
Simsim	79	32	11,354	7,272	11,432	7,304	0
Groundnut	0	0	0	0	0	0	0
OIL SEEDS & OIL NUTS		**32**		**7,272**		**7,304**	**0**
Okra	0	0	79	4	79	4	0
Radish	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0
Tomatoes	0	0	158	36	158	36	0
Chillies	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**0**		**40**		**40**	0
Cotton	0	0	0	0	0	0	0
CASH CROPS		**0**		**0**		**0**	**0**
Total		0		**0**		**0**	0

5.53: Planted Area & Number of Crop Growing Households by Irrigation Use and Crop for the 2007/08agriculture year - LONG RAINY SEASON - Lindi Rural

Crop	Irrigation use						% of Planted area using Irrigation
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	124	50	28,894	12,692	29,018	12,743	0.4
Paddy	1,364	1,224	16,245	7,563	17,609	8,786	13.9
Sorghum	124	50	22,569	11,266	22,693	11,316	0.4
Bulrush Millet	0	0	0	0	0	0	0.0
Finger Millet	0	0	0	0	0	0	0.0
CEREALS		**1,324**		**31,521**		32,845	4.0
Cassava	0	0	0	0	0	0	0.0
Sweet Potato	0	0	0	0	0	0	0.0
Yams	0	0	124	20	124	20	0.0
ROOTS & TUBERS		**0**		**20**		20	0.0
Beans	0	0	620	291	620	291	0.0
Cowpeas	0	0	3,348	1,193	3,348	1,193	0.0
Green gram	0	0	0	0	0	0	0.0
Bambaranuts	0	0	496	133	496	133	0.0
Field Peas	0	0	0	0	0	0	0.0
PULSES	0	0	4,464	1,617	4,464	1,617	0.0
Sunflower	0	0	0	0	0	0	0.0
Simsim	0	0	11,409	4,485	11,409	4,485	0.0
Groundnut	0	0	2,728	1,180	2,728	1,180	0.0
OIL SEEDS & OIL NUTS		**0**		**5,665**		5,665	0.0
Okra	124	13	124	30	248	43	29.4
Radish	0	0	0	0	0	0	0.0
Turmeric	0	0	0	0	0	0	0.0
Onion	0	0	0	0	0	0	0.0
Tomatoes	248	63	248	70	496	133	47.2
Chillies	124	13	0	0	124	13	100.0
Amaranths	124	13	0	0	124	13	100.0
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
FRUITS & VEGETABLES		**100**		**100**		201	50.0
Cotton	0	0	0	0	0	0	0.0
CASH CROPS		**0**		**0**		0	0.0
Total		1425		**38,923**		40,348	3.5

5.54: Planted Area & Number of Crop Growing Households by Irrigation Use and Crop for the 2007/08agriculture year - LONG RAINY SEASON - Nachingwea

Crop	Irrigation use						% of Planted area using Irrigation
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	0	0	36,584	29,181	36,584	29,181	0
Paddy	0	0	3,668	1,634	3,668	1,634	0
Sorghum	0	0	11,850	5,487	11,850	5,487	0
Bulrush Millet	0	0	0	0	0	0	0
Finger Millet	0	0	94	15	94	15	0
CEREALS		**0**		**36,317**		**36,317**	**0**
Cassava	0	0	94	29	94	29	0
Sweet Potato	0	0	94	9	94	9	0
Yams	0	0	0	0	0	0	0
ROOTS & TUBERS		**0**		**37**		**37**	**0**
Beans	0	0	940	351	940	351	0
Cowpeas	0	0	8,088	2,864	8,088	2,864	0
Green gram	0	0	376	53	376	53	0
Bambaranuts	0	0	2,445	728	2,445	728	0
Field Peas	0	0	188	87	188	87	0
PULSES	0	0	12,038	4,083	12,038	4,083	0
Sunflower	0	0	188	59	188	59	0
Simsim	0	0	14,295	5,973	14,295	5,973	0
Groundnut	0	0	1,505	564	1,505	564	0
OIL SEEDS & OIL NUTS		**0**		**6,596**		**6,596**	**0**
Okra	0	0	94	10	94	10	0
Radish	0	0	0	0	0	0	0
Turmeric	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0
Tomatoes	94	38	94	11	188	49	77
Chillies	0	0	0	0	0	0	0
Amaranths	94	19	94	7	188	26	74
Pumpkins	0	0	0	0	0	0	0
Cucumber	0	0	94	8	94	8	0
Egg Plant	0	0	94	10	94	10	0
FRUITS & VEGETABLES		**57**		**47**		**104**	**55**
Cotton	0	0	94	46	94	46	0
CASH CROPS		**0**		**46**		**46**	**0**
Total		57		**47,126**		**47,183**	**0**

5.55: Planted Area & Number of Crop Growing Households by Irrigation Use and Crop for the 2007/08agriculture year - LONG RAINY SEASON - Liwale

Crop	Irrigation use						% of Planted area using Irrigation
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	58	49	10,084	7,722	10,142	7,771	0.6
Paddy	29	9	2,280	1,322	2,309	1,331	0.7
Sorghum	0	0	6,518	3,344	6,518	3,344	0.0
Bulrush Millet	0	0	0	0	0	0	0.0
Finger Millet	0	0	88	22	88	22	0.0
CEREALS		**58**		**12,411**		12,469	0.5
Cassava	0	0	117	75	117	75	0.0
Sweet Potato	29	2	146	45	175	48	5.0
Yams	0	0	0	0	0	0	0.0
ROOTS & TUBERS		**2**		**120**		**122**	**1.9**
Beans	0	0	88	23	88	23	0.0
Cowpeas	29	4	2,251	748	2,280	752	0.6
Green gram	0	0	0	0	0	0	0.0
Bambaranuts	0	0	117	28	117	28	0.0
Field Peas	0	0	0	0	0	0	0.0
PULSES	29	4	2,455	799	2,484	804	0.5
Sunflower	0	0	0	0	0	0	0.0
Simsim	29	12	3,946	2,310	3,975	2,323	0.5
Groundnut	0	0	994	432	994	432	0.0
OIL SEEDS & OIL NUTS		**12**		**2,742**		**2,754**	**0.5**
Okra	0	0	58	53	58	53	0.0
Radish	0	0	29	12	29	12	0.0
Turmeric	0	0	29	9	29	9	0.0
Onion	29	3	0	0	29	3	100.0
Tomatoes	29	3	29	5	58	8	38.5
Chillies	0	0	0	0	0	0	0.0
Amaranths	0	0	0	0	0	0	0.0
Pumpkins	0	0	29	2	29	2	0.0
Cucumber	0	0	0	0	0	0	0.0
Egg Plant	0	0	0	0	0	0	0.0
FRUITS & VEGETABLES		**6**		**82**		**88**	**6.8**
Cotton	0	0	0	0	0	0	0.0
CASH CROPS		**0**		**0**		**0**	**0.0**
Total		82.83243458		**16,154**		**16,237**	**0.5**

5.56: Planted Area & Number of Crop Growing Households by Irrigation Use and Crop for the 2007/08agriculture year - LONG RAINY SEASON - Ruangwa

Crop	Irrigation use						% of Planted area using Irrigation
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	380	169	27,564	17,530	27,944	17,699	1.0
Paddy	0	0	1,443	601	1,443	601	0.0
Sorghum	0	0	9,264	4,177	9,264	4,177	0.0
Bulrush Millet	0	0	0	0	0	0	0.0
Finger Millet	0	0	0	0	0	0	0.0
CEREALS		**169**		**22,308**		22,477	0.8
Cassava	0	0	76	31	76	31	0.0
Sweet Potato	0	0	0	0	0	0	0.0
Yams	0	0	0	0	0	0	0.0
ROOTS & TUBERS		**0**		**31**		31	0.0
Beans	0	0	1,063	212	1,063	212	0.0
Cowpeas	0	0	2,734	693	2,734	693	0.0
Green gram	0	0	0	0	0	0	0.0
Bambaranuts	0	0	304	81	304	81	0.0
Field Peas	0	0	0	0	0	0	0.0
PULSES	0	0	4,100	986	4,100	986	0.0
Sunflower	0	0	0	0	0	0	0.0
Simsim	0	0	6,834	2,885	6,834	2,885	0.0
Groundnut	0	0	835	224	835	224	0.0
OIL SEEDS & OIL NUTS		**0**		**3,109**		3,109	0.0
Okra	0	0	0	0	0	0	0.0
Radish	0	0	0	0	0	0	0.0
Turmeric	0	0	0	0	0	0	0.0
Onion	76	6	76	43	152	49	12.5
Tomatoes	152	46	152	26	304	72	63.8
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
FRUITS & VEGETABLES		**52**		**69**		**121**	**43.0**
Cotton	0	0	0	0	0	0	0.0
CASH CROPS		**0**		**0**		**0**	**0.0**
Total		221.3492095		**26,503**		**26,725**	**0.8**

5.57: Planted Area & Number of Crop Growing Households by Irrigation Use and Crop for the 2007/08agriculture year - LONG SEASON - Lindi Urban

Crop	Irrigation use						% of Planted area using Irrigation
	Number of Households using Irrigation	Planted Area Applied with Irrigation	Number of Households NOT using Irrigation	Planted Area Without Irrigation	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	0	0	2,348	623	2,348	623	0
Paddy	0	0	226	70	226	70	0
Sorghum	0	0	3,251	1,326	3,251	1,326	0
Bulrush Millet	0	0	0	0	0	0	0
Finger Millet	0	0	0	0	0	0	0
CEREALS		**0**		**2,020**		**2,020**	**0**
Cassava	0	0	0	0	0	0	0
Sweet Potato	0	0	0	0	0	0	0
Yams	0	0	0	0	0	0	0
ROOTS & TUBERS		**0**		**0**		**0**	**0**
Beans	0	0	0	0	0	0	0
Cowpeas	0	0	135	37	135	37	0
Green gram	0	0	0	0	0	0	0
Bambaranuts	0	0	0	0	0	0	0
Field Peas	0	0	0	0	0	0	0
PULSES	0	0	135	37	135	37	0
Sunflower	0	0	0	0	0	0	0
Simsim	0	0	858	248	858	248	0
Groundnut	0	0	181	17	181	17	0
OIL SEEDS & OIL NUTS		**0**		**265**		**265**	**0**
Okra	0	0	0	0	0	0	0
Radish	0	0	45	4	45	4	0
Turmeric	0	0	0	0	0	0	0
Onion	0	0	0	0	0	0	0
Tomatoes	0	0	45	5	45	5	0
Chillies	0	0	0	0	0	0	0
Amaranths	0	0	0	0	0	0	0
Pumpkins	0	0	0	0	0	0	0
Cucumber	0	0	0	0	0	0	0
Egg Plant	0	0	0	0	0	0	0
FRUITS & VEGETABLES		**0**		**8**		**8**	**0**
Cotton	0	0	0	0	0	0	0
CASH CROPS		**0**		**0**		**0**	**0**
Total		0	7088.44743	**2,329**		**2,329**	**0**

5.58: Planted Area & Number of Crop Growing Households by Improved seed Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON -Kilwa

Crop	Improved seed use							% of area planted Improved
	Number of Households using Improved seed	Planted Area Applied with Improved seed	Cost (Tshs) of Improved seed	Number of Households not using Improved seed	Planted Area Applied with no Improved seed	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	1,025	749	5,775,307	13,640	6,835	14,665	7,585	9.9
Paddy	473	184	3,835,750	10,092	5,692	10,565	5,876	3.1
Sorghum	158	56	157,688	18,213	12,218	18,371	12,274	0.5
Bulrush Millet	0	0	.	315	326	315	326	0.0
Finger Millet	0	0	.	0	0	0	0	0.0
CEREALS		**989**	**9,768,745**		**25,071**		**26,060**	**3.8**
Cassava	0	0	.	0	0	0	0	0.0
Sweet Potato	0	0	.	0	0	0	0	0.0
Yams	0	0	.	0	0	0	0	0.0
ROOTS & TUBERS		**0**	**.**		**0**		**0**	**0.0**
Beans	0	0	.	0	0	0	0	0.0
Cowpeas	0	0	.	1,498	350	1,498	350	0.0
Green gram	0	0	.	79	14	79	14	0.0
Bambaranuts	0	0	.	0	0	0	0	0.0
Field Peas	0	0	.	0	0	0	0	0.0
PULSES	0	0	.	1,577	364	1,577	364	0.0
Sunflower	0	0	.	0	0	0	0	0.0
Simsim	4,179	2,988	24,410,036	7,254	4,317	11,432	7,304	40.9
Groundnut	0	0	.	0	0	0	0	0.0
OIL SEEDS & OIL NUTS		**2,988**	**24,410,036**		**4,317**		7,304	40.9
Okra	0	0	.	79	4	79	4	0.0
Radish	0	0	.	0	0	0	0	0.0
Turmeric	0	0	.	0	0	0	0	0.0
Onion	0	0	.	0	0	0	0	0.0
Tomatoes	158	34	473,063	0	2	158	36	94.2
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
FRUITS & VEGETABLES		**34**	**473,063**		**6**		**40**	**85.2**
Cotton	0	0	.	0	0	0	0	0.0
CASH CROPS		**0**	**.**		**0**		0	0.0
Total		**4,011**	**34,651,843**		**29,757**		**33,768**	**11.9**

5.59: Planted Area & Number of Crop Growing Households by Improved seed Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON -Lindi Rural

Crop	Improved seed use							% of area planted Improved
	Number of Households using Improved seed	Planted Area Applied with Improved seed	Cost (Tshs) of Improved seed	Number of Households not using Improved seed	Planted Area Applied with no Improved seed	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	1,364	605	7,068,416	27,654	12,138	29,018	12,743	4.7
Paddy	1,612	1,197	28,558,882	15,997	7,589	17,609	8,786	13.6
Sorghum	0	0	.	22,693	11,316	22,693	11,316	0.0
Bulrush Millet	0	0	.	0	0	0	0	0.0
Finger Millet	0	0	.	0	0	0	0	0.0
CEREALS		**1,802**	**35,627,298**		**31,042**		**32,845**	**5.5**
Cassava	0	0	.	0	0	0	0	0.0
Sweet Potato	0	0	.	0	0	0	0	0.0
Yams	0	0	.	124	20	124	20	0.0
ROOTS & TUBERS		**0**	**.**		**20**		**20**	**0.0**
Beans	0	0	.	620	291	620	291	0.0
Cowpeas	0	0	.	3,348	1,193	3,348	1,193	0.0
Green gram	0	0	.	0	0	0	0	0.0
Bambaranuts	0	0	.	496	133	496	133	0.0
Field Peas	0	0	.	0	0	0	0	0.0
PULSES	0	0	.	4,464	1,617	4,464	1,617	0.0
Sunflower	0	0	.	0	0	0	0	0.0
Simsim	3,100	1,320	8,072,875	8,308	3,165	11,409	4,485	29.4
Groundnut	248	98	894,713	2,480	1,082	2,728	1,180	8.3
OIL SEEDS & OIL NUTS		**1,418**	**8,967,588**		**4,246**		**5,665**	**25.0**
Okra	124	13	372,022	124	30	248	43	29.4
Radish	0	0	.	0	0	0	0	0.0
Turmeric	0	0	.	0	0	0	0	0.0
Onion	0	0	.	0	0	0	0	0.0
Tomatoes	124	13	496,029	372	120	496	133	9.4
Chillies	124	13	248,015	0	0	124	13	100.0
Amaranths	124	13	124,007	0	0	124	13	100.0
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
FRUITS & VEGETABLES		**50**	**1,240,073**		**151**		201	25.0
Cotton	0	0	.	0	0	0	0	0.0
CASH CROPS		**0**	**.**		**0**		**0**	**0.0**
Total		**3,271**	**45,834,959**		**37,077**		**40,348**	**0.0**

5.60: Planted Area & Number of Crop Growing Households by Improved seed Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON -Nachingwea

Crop	Improved seed use							% of area planted Improved
	Number of Households using Improved seed	Planted Area Applied with Improved seed	Cost (Tshs) of Improved seed	Number of Households not using Improved seed	Planted Area Applied with no Improved seed	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	2,069	2,315	25,195,011	34,515	26,865	36,584	29,181	7.9
Paddy	94	38	94,046	3,574	1,596	3,668	1,634	2.3
Sorghum	188	129	235,116	11,662	5,358	11,850	5,487	2.4
Bulrush Millet	0	0	.	0	0	0	0	0.0
Finger Millet	0	0	.	94	15	94	15	0.0
CEREALS		**2,483**	**25,524,173**		**33,834**		**36,317**	**6.8**
Cassava	0	0	.	94	29	94	29	0.0
Sweet Potato	0	0	.	94	9	94	9	0.0
Yams	0	0	.	0	0	0	0	0.0
ROOTS & TUBERS		**0**	**.**		**37**		**37**	**0.0**
Beans	94	19	5,643,344	846	332	940	351	5.4
Cowpeas	94	10	564,278	7,994	2,854	8,088	2,864	0.3
Green gram	0	0	.	376	53	376	53	0.0
Bambaranuts	94	38	470,232	2,351	690	2,445	728	5.2
Field Peas	0	0	.	188	87	188	87	0.0
PULSES	282	67	6,677,853	11,756	4,016	12,038	4,083	1.6
Sunflower	0	0	.	188	59	188	59	0.0
Simsim	2,445	1,295	16,890,720	11,850	4,678	14,295	5,973	21.7
Groundnut	188	123	2,539,251	1,317	441	1,505	564	21.9
OIL SEEDS & OIL NUTS		**1,419**	**19,429,971**		**5,177**		**6,596**	**21.5**
Okra	0	0	.	94	10	94	10	0.0
Radish	0	0	.	0	0	0	0	0.0
Turmeric	0	0	.	0	0	0	0	0.0
Onion	0	0	.	0	0	0	0	0.0
Tomatoes	94	38	940,463	94	11	188	49	76.9
Chillies	0	0	.	0	0	0	0	0.0
Amaranths	94	19	47,023	94	7	188	26	73.5
Pumpkins	0	0	.	0	0	0	0	0.0
Cucumber	0	0	.	94	8	94	8	0.0
Egg Plant	0	0	.	94	10	94	10	0.0
FRUITS & VEGETABLES		**57**	**987,486**		**47**		104	54.9
Cotton	0	0	.	94	46	94	46	0.0
CASH CROPS		**0**	**.**		**46**		**46**	**0.0**
Total		**4,026**	**52,619,484**		**43,157**		**47,183**	**8.5**

5.61: Planted Area & Number of Crop Growing Households by Improved seed Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON -Liwale

Crop	Improved seed use							% of area planted Improved
	Number of Households using Improved seed	Planted Area Applied with Improved seed	Cost (Tshs) of Improved seed	Number of Households not using Improved seed	Planted Area Applied with no Improved seed	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	1,374	1,487	25,963,247	8,768	6,284	10,142	7,771	19.1
Paddy	29	118	1,753,681	2,280	1,213	2,309	1,331	8.9
Sorghum	117	65	453,034	6,401	3,279	6,518	3,344	1.9
Bulrush Millet	0	0	.	0	0	0	0	0.0
Finger Millet	0	0	.	88	22	88	22	0.0
CEREALS		**1,670**	**28,169,962**		**10,799**		**12,469**	**13.4**
Cassava	0	0	.	117	75	117	75	0.0
Sweet Potato	0	0	.	175	48	175	48	0.0
Yams	0	0	.	0	0	0	0	0.0
ROOTS & TUBERS		**0**	**.**		**122**		**122**	**0.0**
Beans	29	9	87,684	58	14	88	23	41.0
Cowpeas	117	60	277,666	2,163	692	2,280	752	8.0
Green gram	0	0	.	0	0	0	0	0.0
Bambaranuts	0	0	.	117	28	117	28	0.0
Field Peas	0	0	.	0	0	0	0	0.0
PULSES	146	70	365,350	2,338	734	2,484	804	8.7
Sunflower	0	0	.	0	0	0	0	0.0
Simsim	1,988	1,169	12,691,565	1,988	1,154	3,975	2,323	50.3
Groundnut	29	24	292,280	965	408	994	432	5.5
OIL SEEDS & OIL NUTS		**1,193**	**12,983,845**		**1,562**		**2,754**	**43.3**
Okra	0	0	.	58	53	58	53	0.0
Radish	0	0	.	29	12	29	12	0.0
Turmeric	0	0	.	29	9	29	9	0.0
Onion	29	3	43,842	0	0	29	3	100.0
Tomatoes	29	3	87,684	29	5	58	8	38.5
Chillies	0	0	.	0	0	0	0	0.0
Amaranths	0	0	.	0	0	0	0	0.0
Pumpkins	0	0	.	29	2	29	2	0.0
Cucumber	0	0	.	0	0	0	0	0.0
Egg Plant	0	0	.	0	0	0	0	0.0
FRUITS & VEGETABLES		**6**	**131,526**		**82**		88	6.8
Cotton	0	0	.	0	0	0	0	0.0
CASH CROPS		**0**	**.**		**0**		**0**	**0.0**
Total	**3,741**	**2,938**	**41,650,683**		**13,299**		**16,237**	**1.0**

5.62: Planted Area & Number of Crop Growing Households by Improved seed Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON -Ruangwa

Crop	Improved seed use							% of area planted Improved
	Number of Households using Improved seed	Planted Area Applied with Improved seed	Cost (Tshs) of Improved seed	Number of Households not using Improved seed	Planted Area Applied with no Improved seed	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	911	435	6,120,367	27,033	17,264	6,227	17,699	2.5
Paddy	0	0	.	1,443	601	.	601	0.0
Sorghum	0	0	.	9,264	4,177	.	4,177	0.0
Bulrush Millet	0	0	.	0	0	.	0	0.0
Finger Millet	0	0	.	0	0	.	0	0.0
CEREALS		**435**	**6,120,367**		**22,042**		**22,477**	**1.9**
Cassava	0	0	.	76	31	.	31	0.0
Sweet Potato	0	0	.	0	0	.	0	0.0
Yams	0	0	.	0	0	.	0	0.0
ROOTS & TUBERS		**0**	**.**		**31**		**31**	**0.0**
Beans	0	0	.	1,063	212	.	212	0.0
Cowpeas	0	0	.	2,734	693	.	693	0.0
Green gram	0	0	.	0	0	.	0	0.0
Bambaranuts	0	0	.	304	81	.	81	0.0
Field Peas	0	0	.	0	0	.	0	0.0
PULSES	0	0	.	4,100	986	.	986	0.0
Sunflower	0	0	.	0	0	.	0	0.0
Simsim	835	548	2,073,028	5,999	2,336	2,734	2,885	19.0
Groundnut	76	15	455,610	759	209	380	224	6.8
OIL SEEDS & OIL NUTS		**564**	**2,528,638**		**2,546**		**3,109**	**18.1**
Okra	0	0	.	0	0	.	0	0.0
Radish	0	0	.	0	0	.	0	0.0
Turmeric	0	0	.	0	0	.	0	0.0
Onion	76	12	227,805	76	37	22,781	49	25.0
Tomatoes	152	45	4,210,600	152	28	34,171	72	61.7
Chillies	0	0	.	0	0	.	0	0.0
Amaranths	0	0	.	0	0	.	0	0.0
Pumpkins	0	0	.	0	0	.	0	0.0
Cucumber	0	0	.	0	0	.	0	0.0
Egg Plant	0	0	.	0	0	.	0	0.0
FRUITS & VEGETABLES		**57**	**4,438,405**		**65**		121	46.8
Cotton	0	0	.	0	0	.	0	0.0
CASH CROPS		**0**	**.**		**0**		**0**	**0.0**
Total		**1,056**	**13,087,410**		**25,669**		**26,725**	**1.0**

5.63: Planted Area & Number of Crop Growing Households by Improved seed Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON -Lindi Urban

Crop	Improved seed use							% of area planted Improved
	Number of Households using Improved seed	Planted Area Applied with Improved seed	Cost (Tshs) of Improved seed	Number of Households not using Improved seed	Planted Area Applied with no Improved seed	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	45	11	225,747	2,303	612	90	623	1.8
Paddy	45	9	90,299	181	61	181	70	13.0
Sorghum	90	27	316,045	3,160	1,299	226	1,326	2.1
Bulrush Millet	0	0	.	0	0	.	0	0.0
Finger Millet	0	0	.	0	0	.	0	0.0
CEREALS		**48**	**632,091**		**1,972**		**2,020**	**2.4**
Cassava	0	0	.	0	0	.	0	0.0
Sweet Potato	0	0	.	0	0	.	0	0.0
Yams	0	0	.	0	0	.	0	0.0
ROOTS & TUBERS		**0**	**.**		**0**		**0**	**0.0**
Beans	0	0	.	0	0	.	0	0.0
Cowpeas	0	0	.	135	37	.	37	0.0
Green gram	0	0	.	0	0	.	0	0.0
Bambaranuts	0	0	.	0	0	.	0	0.0
Field Peas	0	0	.	0	0	.	0	0.0
PULSES	0	0	.	135	37	.	37	0.0
Sunflower	0	0	.	0	0	.	0	0.0
Simsim	316	92	690,785	542	156	406	248	37.0
Groundnut	90	9	126,418	90	8	135	17	51.1
OIL SEEDS & OIL NUTS		**101**	**817,203**		**165**		**265**	**37.9**
Okra	0	0	.	0	0	.	0	0.0
Radish	0	0	.	45	4	.	4	0.0
Turmeric	0	0	.	0	0	.	0	0.0
Onion	0	0	.	0	0	.	0	0.0
Tomatoes	45	5	338,620	0	0	2,257	5	100.0
Chillies	0	0	.	0	0	.	0	0.0
Amaranths	0	0	.	0	0	.	0	0.0
Pumpkins	0	0	.	0	0	.	0	0.0
Cucumber	0	0	.	0	0	.	0	0.0
Egg Plant	0	0	.	0	0	.	0	0.0
FRUITS & VEGETABLES		**5**	**338,620**		**4**		8	55.6
Cotton	0	0	.	0	0	.	0	0.0
CASH CROPS		**0**	**.**		**0**		**0**	**0.0**
Total		**153**	**1,787,914**		**2,177**		**2,329**	**1.0**

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

Crop	Local seed use							% of area planted Local
	Number of Households using Local seed	Planted Area Applied with Local seed	Cost of Local seed	Number of Households not using Local seed	Planted Area Applied with no Local seed	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	13,640	6,088	50,449,772	1,025	1,497	14,665	7,585	80.3
Paddy	10,092	5,571	77,371,771	473	304	10,565	5,876	94.8
Sorghum	18,213	10,851	49,557,339	158	1,423	18,371	12,274	88.4
Bulrush Millet	315	326	339,028	0	0	315	326	100.0
Finger Millet	0	0	.	0	0	0	0	0.0
CEREALS		**22,836**	**177,717,910**		**3,223**		**26,060**	**87.6**
Cassava	0	0	.	0	0	0	0	0.0
Sweet Potato	0	0	.	0	0	0	0	0.0
Yams	0	0	.	0	0	0	0	0.0
ROOTS & TUBERS		**0**	**.**		**0**		**0**	**0.0**
Beans	0	0	.	0	0	0	0	0.0
Cowpeas	1,498	257	3,244,422	0	93	1,498	350	73.4
Green gram	79	2	118,266	0	12	79	14	12.5
Bambaranuts	0	0	.	0	0	0	0	0.0
Field Peas	0	0	.	0	0	0	0	0.0
PULSES	1,577	258	3,362,687	0	105	1,577	364	71.0
Sunflower	0	0	.	0	0	0	0	0.0
Simsim	7,254	4,038	28,586,391	4,179	3,266	11,432	7,304	55.3
Groundnut	0	0	.	0	0	0	0	0.0
OIL SEEDS & OIL NUTS		**4,038**	**28,586,391**		**3,266**		**7,304**	**55.3**
Okra	79	2	78,844	0	2	79	4	50.0
Radish	0	0	.	0	0	0	0	0.0
Turmeric	0	0	.	0	0	0	0	0.0
Onion	0	0	.	0	0	0	0	0.0
Tomatoes	0	0	.	158	36	158	36	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
FRUITS & VEGETABLES		**2**	**78,844**		**38**		**40**	**4.8**
Cotton	0	0	.	0	0	0	0	0.0
CASH CROPS		**0**	**.**		**0**		**0**	**0.0**
Total		**27,135**	**209,745,832**		**6,633**		**33,768**	**80.4**

5.65: Planted Area & Number of Households by Local Seeds Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - Lindi Rural

Crop	Local seed use							% of area planted Local
	Number of Households using Local seed	Planted Area Applied with Local seed	Cost of Local seed	Number of Households not using Local seed	Planted Area Applied with no Local seed	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	27,654	11,262	115,982,789	1,364	1,481	29,018	12,743	88.4
Paddy	15,997	7,455	164,769,990	1,612	1,332	17,609	8,786	84.8
Sorghum	22,693	9,653	60,004,653	0	1,663	22,693	11,316	85.3
Bulrush Millet	0	0	.	0	0	0	0	0.0
Finger Millet	0	0	.	0	0	0	0	0.0
CEREALS		**28,369**	**340,757,432**		**4,475**		**32,845**	**86.4**
Cassava	0	0	.	0	0	0	0	0.0
Sweet Potato	0	0	.	0	0	0	0	0.0
Yams	124	20	620,037	0	0	124	20	100.0
ROOTS & TUBERS		**20**	**620,037**		**0**		**20**	**100.0**
Beans	620	282	1,791,906	0	9	620	291	97.0
Cowpeas	3,348	807	20,461,205	0	386	3,348	1,193	67.6
Green gram	0	0	.	0	0	0	0	0.0
Bambaranuts	496	89	5,332,314	0	44	496	133	67.0
Field Peas	0	0	.	0	0	0	0	0.0
PULSES	4,464	1,178	27,585,424	0	439	4,464	1,617	72.9
Sunflower	0	0	.	0	0	0	0	0.0
Simsim	8,308	3,020	28,137,257	3,100	1,465	11,409	4,485	67.3
Groundnut	2,480	863	28,149,657	248	317	2,728	1,180	73.1
OIL SEEDS & OIL NUTS		**3,883**	**56,286,914**		**1,782**		**5,665**	**68.5**
Okra	124	30	372,022	124	13	248	43	70.6
Radish	0	0	.	0	0	0	0	0.0
Turmeric	0	0	.	0	0	0	0	0.0
Onion	0	0	.	0	0	0	0	0.0
Tomatoes	372	120	4,960,292	124	13	496	133	90.6
Chillies	0	0	.	124	13	124	13	0.0
Amaranths	0	0	.	124	13	124	13	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
FRUITS & VEGETABLES		**151**	**5,332,314**		**50**		201	75.0
Cotton	0	0	.	0	0	0	0	0.0
CASH CROPS		**0**	**.**		**0**		**0**	**0.0**
Total		**33,601**	**430,582,121**		**6,746**		**40,348**	**83.3**

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

Crop	Local seed use							% of area planted Local
	Number of Households using Local seed	Planted Area Applied with Local seed	Cost of Local seed	Number of Households not using Local seed	Planted Area Applied with no Local seed	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	34,515	25,966	297,217,613	2,069	3,214	36,584	29,181	89.0
Paddy	3,574	1,568	29,911,434	94	67	3,668	1,634	95.9
Sorghum	11,662	5,159	42,098,145	188	328	11,850	5,487	94.0
Bulrush Millet	0	0	.	0	0	0	0	0.0
Finger Millet	94	4	112,856	0	11	94	15	25.0
CEREALS		**32,697**	**369,340,047**		**3,621**		**36,317**	**90.0**
Cassava	94	29	846,417	0	0	94	29	100.0
Sweet Potato	94	9	282,139	0	0	94	9	100.0
Yams	0	0	.	0	0	0	0	0.0
ROOTS & TUBERS		**37**	**1,128,556**		**0**		**37**	**100.0**
Beans	846	332	2,328,211	94	19	940	351	94.6
Cowpeas	7,994	2,593	27,464,913	94	271	8,088	2,864	90.5
Green gram	376	46	1,081,533	0	7	376	53	86.6
Bambaranuts	2,351	690	5,704,850	94	38	2,445	728	94.8
Field Peas	188	87	94,046	0	0	188	87	100.0
PULSES	11,756	3,747	36,673,553	282	336	12,038	4,083	91.8
Sunflower	188	59	141,069	0	0	188	59	100.0
Simsim	11,850	4,475	66,465,360	2,445	1,498	14,295	5,973	74.9
Groundnut	1,317	433	12,599,010	188	131	1,505	564	76.9
OIL SEEDS & OIL NUTS		**4,967**	**79,205,439**		**1,629**		**6,596**	**75.3**
Okra	94	3	47,023	0	8	94	10	25.0
Radish	0	0	.	0	0	0	0	0.0
Turmeric	0	0	.	0	0	0	0	0.0
Onion	0	0	.	0	0	0	0	0.0
Tomatoes	94	3	94,046	94	47	188	49	5.8
Chillies	0	0	.	0	0	0	0	0.0
Amaranths	94	2	47,023	94	24	188	26	6.6
Pumpkins	0	0	.	0	0	0	0	0.0
Cucumber	94	2	28,214	0	6	94	8	25.0
Egg Plant	94	3	47,023	0	8	94	10	25.0
FRUITS & VEGETABLES		**12**	**263,330**		**92**		104	11.3
Cotton	94	46	2,351,722	0	0	94	46	100.0
CASH CROPS		**46**	**2,351,722**		**0**		**46**	**100.0**
Total		**41,506**	**488,962,648**		**5,677**		**47,183**	**88.0**

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

Crop	Local seed use							% of area planted Local
	Number of Households using Local seed	Planted Area Applied with Local seed	Cost of Local seed	Number of Households not using Local seed	Planted Area Applied with no Local seed	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	8,768	6,069	50,652,444	1,374	1,702	10,142	7,771	78.1
Paddy	2,280	1,196	26,518,579	29	135	2,309	1,331	89.8
Sorghum	6,401	3,137	31,134,267	117	207	6,518	3,344	93.8
Bulrush Millet	0	0	.	0	0	0	0	0.0
Finger Millet	88	22	298,126	0	0	88	22	100.0
CEREALS		**10,425**	**108,603,417**		**2,045**		**12,469**	**83.6**
Cassava	117	71	160,754	0	4	117	75	95.3
Sweet Potato	175	40	236,747	0	8	175	48	83.4
Yams	0	0	.	0	0	0	0	0.0
ROOTS & TUBERS		**111**	**397,501**		**11**		**122**	**90.6**
Beans	58	14	58,456	29	9	88	23	59.0
Cowpeas	2,163	665	3,922,400	117	88	2,280	752	88.4
Green gram	0	0	.	0	0	0	0	0.0
Bambaranuts	117	28	621,095	0	0	117	28	100.0
Field Peas	0	0	.	0	0	0	0	0.0
PULSES	2,338	707	4,601,951	146	97	2,484	804	87.9
Sunflower	0	0	.	0	0	0	0	0.0
Simsim	1,988	1,039	12,175,661	1,988	1,283	3,975	2,323	44.8
Groundnut	965	408	10,396,405	29	24	994	432	94.5
OIL SEEDS & OIL NUTS		**1,447**	**22,572,066**		**1,307**		**2,754**	**52.6**
Okra	58	53	298,126	0	0	58	53	100.0
Radish	29	6	116,912	0	6	29	12	50.0
Turmeric	29	9	29,228	0	0	29	9	100.0
Onion	0	0	.	29	3	29	3	0.0
Tomatoes	29	1	23,382	29	7	58	8	15.4
Chillies	0	0	.	0	0	0	0	0.0
Amaranths	0	0	.	0	0	0	0	0.0
Pumpkins	29	2	5,846	0	0	29	2	100.0
Cucumber	0	0	.	0	0	0	0	0.0
Egg Plant	0	0	.	0	0	0	0	0.0
FRUITS & VEGETABLES		**72**	**473,494**		**16**		88	82.1
Cotton	0	0	.	0	0	0	0	0.0
CASH CROPS		**0**	**.**		**0**		**0**	**0.0**
Total		**12,761**	**136,648,429**		**3,476**		**16,237**	**78.6**

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

Crop	Local seed use							% of area planted Local
	Number of Households using Local seed	Planted Area Applied with Local seed	Cost of Local seed	Number of Households not using Local seed	Planted Area Applied with no Local seed	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	27,033	16,670	199,909,870	911	1,029	27,944	17,699	94.2
Paddy	1,443	547	6,241,863	0	54	1,443	601	91.0
Sorghum	9,264	3,608	32,211,659	0	569	9,264	4,177	86.4
Bulrush Millet	0	0	.	0	0	0	0	0.0
Finger Millet	0	0	.	0	0	0	0	0.0
CEREALS		**20,825**	**238,363,393**		**1,652**		**22,477**	**92.6**
Cassava	76	31	410,049	0	0	76	31	100.0
Sweet Potato	0	0	.	0	0	0	0	0.0
Yams	0	0	.	0	0	0	0	0.0
ROOTS & TUBERS		**31**	**410,049**		**0**		**31**	**100.0**
Beans	1,063	212	1,161,807	0	0	1,063	212	100.0
Cowpeas	2,734	660	7,031,588	0	32	2,734	693	95.3
Green gram	0	0	.	0	0	0	0	0.0
Bambaranuts	304	81	835,286	0	0	304	81	100.0
Field Peas	0	0	.	0	0	0	0	0.0
PULSES	4,100	954	9,028,681	0	32	4,100	986	96.7
Sunflower	0	0	.	0	0	0	0	0.0
Simsim	5,999	2,270	17,159,884	835	615	6,834	2,885	78.7
Groundnut	759	209	3,356,330	76	15	835	224	93.2
OIL SEEDS & OIL NUTS		**2,479**	**20,516,215**		**631**		**3,109**	**79.7**
Okra	0	0	.	0	0	0	0	0.0
Radish	0	0	.	0	0	0	0	0.0
Turmeric	0	0	.	0	0	0	0	0.0
Onion	76	28	1,518,702	76	22	152	49	56.3
Tomatoes	152	23	1,063,091	152	49	304	72	31.9
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
FRUITS & VEGETABLES		**51**	**2,581,793**		**71**		121	41.8
Cotton	0	0	.	0	0	0	0	0.0
CASH CROPS		**0**	**.**		**0**		**0**	**0.0**
Total		**24,339**	**270,900,130**		**2,386**		**26,725**	**91.1**

5.69: Planted Area & Number of Households by Local Seeds Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - Lindi Urban

Crop	Local seed use							% of area planted Local
	Number of Households using Local seed	Planted Area Applied with Local seed	Cost of Local seed	Number of Households not using Local seed	Planted Area Applied with no Local seed	Total Number of Households Planting in MASIKA	Total Planted Area in MASIKA	
Maize	2,303	610	7,544,456	45	13	2,348	623	97.9
Paddy	181	61	275,411	45	9	226	70	87.0
Sorghum	3,160	1,279	9,466,193	90	48	3,251	1,326	96.4
Bulrush Millet	0	0	.	0	0	0	0	0.0
Finger Millet	0	0	.	0	0	0	0	0.0
CEREALS		**1,950**	**17,286,059**		**70**		**2,020**	**96.5**
Cassava	0	0	.	0	0	0	0	0.0
Sweet Potato	0	0	.	0	0	0	0	0.0
Yams	0	0	.	0	0	0	0	0.0
ROOTS & TUBERS		**0**	**.**		**0**		**0**	**0.0**
Beans	0	0	.	0	0	0	0	0.0
Cowpeas	135	37	302,501	0	0	135	37	100.0
Green gram	0	0	.	0	0	0	0	0.0
Bambaranuts	0	0	.	0	0	0	0	0.0
Field Peas	0	0	.	0	0	0	0	0.0
PULSES	135	37	302,501	0	0	135	37	100.0
Sunflower	0	0	.	0	0	0	0	0.0
Simsim	542	154	966,196	316	94	858	248	62.2
Groundnut	90	8	293,471	90	9	181	17	48.9
OIL SEEDS & OIL NUTS		**163**	**1,259,667**		**102**		**265**	**61.4**
Okra	0	0	.	0	0	0	0	0.0
Radish	45	4	270,896	0	0	45	4	100.0
Turmeric	0	0	.	0	0	0	0	0.0
Onion	0	0	.	0	0	0	0	0.0
Tomatoes	0	0	.	45	5	45	5	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
FRUITS & VEGETABLES		**4**	**270,896**		**5**		8	44.4
Cotton	0	0	.	0	0	0	0	0.0
CASH CROPS		**0**	**.**		**0**		**0**	**0.0**
Total		**2,153**	**19,119,123**		**177**		**2,329**	**92.4**

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

Crop	Insecticide use							% of area planted 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	
Maize	0	0	.	14,665	7,585	14,665	7,585	0.0
Paddy	0	0	.	10,565	5,876	10,565	5,876	0.0
Sorghum	0	0	.	18,371	12,274	18,371	12,274	0.0
Bulrush Millet	0	0	.	315	326	315	326	0.0
Finger Millet	0	0	.	0	0	0	0	0.0
CEREALS		**0**	**.**		**26,060**		26,060	**0.0**
Cassava	0	0	.	0	0	0	0	0.0
Sweet Potato	0	0	.	0	0	0	0	0.0
Yams	0	0	.	0	0	0	0	0.0
ROOTS & TUBERS		**0**	**.**		**0**		0	**0.0**
Beans	0	0	.	0	0	0	0	0.0
Cowpeas	0	0	.	1,498	350	1,498	350	0.0
Green gram	0	0	.	79	14	79	14	0.0
Bambaranuts	0	0	.	0	0	0	0	0.0
Field Peas	0	0	.	0	0	0	0	0.0
PULSES	0	0	.	1,577	364	1,577	364	0.0
Sunflower	0	0	.	0	0	0	0	0.0
Simsim	237	147	2,641,267	11,196	7,158	11,432	7,304	2.0
Groundnut	0	0	.	0	0	0	0	0.0
OIL SEEDS & OIL NUTS		**147**	**2,641,267**		**7,158**		7,304	**2.0**
Okra	0	0	.	79	4	79	4	0.0
Radish	0	0	.	0	0	0	0	0.0
Turmeric	0	0	.	0	0	0	0	0.0
Onion	0	0	.	0	0	0	0	0.0
Tomatoes	0	0	.	158	36	158	36	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
FRUITS & VEGETABLES		**0**	**.**		**40**		40	**0.0**
Cotton	0	0	.	0	0	0	0	0.0
CASH CROPS		**0**	**.**		**0**		0	**0.0**
Total		**147**	**2,641,267**		**33,621**			**0.0**

5.71: Planted Area & Number of Households by Insecticide Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - Lindi Rural

Crop	Insecticide use							% of area planted 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	
Maize	0	0	.	2,348	623	2,348	623	0.0
Paddy	0	0	.	226	70	226	70	0.0
Sorghum	0	0	.	3,251	1,326	3,251	1,326	0.0
Bulrush Millet	0	0	.	0	0	0	0	0.0
Finger Millet	0	0	.	0	0	0	0	0.0
CEREALS		**0**	**.**		**2,020**		2,020	**0.0**
Cassava	0	0	.	0	0	0	0	0.0
Sweet Potato	0	0	.	0	0	0	0	0.0
Yams	0	0	.	0	0	0	0	0.0
ROOTS & TUBERS		**0**	**.**		**0**		0	**0.0**
Beans	0	0	.	0	0	0	0	0.0
Cowpeas	0	0	.	135	37	135	37	0.0
Green gram	0	0	.	0	0	0	0	0.0
Bambaranuts	0	0	.	0	0	0	0	0.0
Field Peas	0	0	.	0	0	0	0	0.0
PULSES	0	0	.	135	37	135	37	0.0
Sunflower	0	0	.	0	0	0	0	0.0
Simsim	0	0	.	858	248	858	248	0.0
Groundnut	0	0	.	181	17	181	17	0.0
OIL SEEDS & OIL NUTS		**0**	**.**		**265**		265	**0.0**
Okra	0	0	.	0	0	0	0	0.0
Radish	0	0	.	45	4	45	4	0.0
Turmeric	0	0	.	0	0	0	0	0.0
Onion	0	0	.	0	0	0	0	0.0
Tomatoes	0	0	.	45	5	45	5	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
FRUITS & VEGETABLES		**0**	**.**		**8**		8	**0.0**
Cotton	0	0	.	0	0	0	0	0.0
CASH CROPS		**0**	**.**		**0**		0	**0.0**
Total		**0**	**.**		**2,329**			**0.0**

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

Crop	Insecticide use							% of area planted 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	
Maize	282	56	347,971	36,584	29,124	36,584	29,181	0.2
Paddy	0	0	.	3,668	1,634	3,668	1,634	0.0
Sorghum	0	0	.	11,850	5,487	11,850	5,487	0.0
Bulrush Millet	0	0	.	0	0	0	0	0.0
Finger Millet	0	0	.	94	15	94	15	0.0
CEREALS		**56**	**347,971**		**36,261**		36,317	**0.2**
Cassava	0	0	.	94	29	94	29	0.0
Sweet Potato	0	0	.	94	9	94	9	0.0
Yams	0	0	.	0	0	0	0	0.0
ROOTS & TUBERS		**0**	**.**		**37**		37	**0.0**
Beans	0	0	.	940	351	940	351	0.0
Cowpeas	846	554	3,362,156	7,430	2,310	8,088	2,864	19.4
Green gram	0	0	.	376	53	376	53	0.0
Bambaranuts	0	0	.	2,445	728	2,445	728	0.0
Field Peas	0	0	.	188	87	188	87	0.0
PULSES	846	554	3,362,156	11,380	3,529	12,038	4,083	13.6
Sunflower	0	0	.	188	59	188	59	0.0
Simsim	282	72	799,394	14,107	5,901	14,295	5,973	1.2
Groundnut	0	0	.	1,505	564	1,505	564	0.0
OIL SEEDS & OIL NUTS		**72**	**799,394**		**6,524**		6,596	**1.1**
Okra	0	0	.	94	10	94	10	0.0
Radish	0	0	.	0	0	0	0	0.0
Turmeric	0	0	.	0	0	0	0	0.0
Onion	0	0	.	0	0	0	0	0.0
Tomatoes	94	38	1,692,834	94	11	188	49	76.9
Chillies	0	0	.	0	0	0	0	0.0
Amaranths	94	19	1,692,834	94	7	188	26	73.5
Pumpkins	0	0	.	0	0	0	0	0.0
Cucumber	0	0	.	94	8	94	8	0.0
Egg Plant	0	0	.	94	10	94	10	0.0
FRUITS & VEGETABLES		**57**	**3,385,668**		**47**		104	**54.9**
Cotton	0	0	.	94	46	94	46	0.0
CASH CROPS		**0**	**.**		**46**		46	**0.0**
Total		**740**	**7,895,189**		**46,443**			**0.0**

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

Crop	Insecticide use							% of area planted 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	
Maize	117	60	657,630	10,025	7,711	10,142	7,771	0.8
Paddy	0	0	.	2,309	1,331	2,309	1,331	0.0
Sorghum	0	0	.	6,518	3,344	6,518	3,344	0.0
Bulrush Millet	0	0	.	0	0	0	0	0.0
Finger Millet	0	0	.	88	22	88	22	0.0
CEREALS		**60**	**657,630**		**12,409**		12,469	**0.5**
Cassava	0	0	.	117	75	117	75	0.0
Sweet Potato	0	0	.	175	48	175	48	0.0
Yams	0	0	.	0	0	0	0	0.0
ROOTS & TUBERS		**0**	**.**		**122**		122	**0.0**
Beans	0	0	.	88	23	88	23	0.0
Cowpeas	205	75	2,528,223	2,075	678	2,280	752	9.9
Green gram	0	0	.	0	0	0	0	0.0
Bambaranuts	0	0	.	117	28	117	28	0.0
Field Peas	0	0	.	0	0	0	0	0.0
PULSES	205	75	2,528,223	2,280	729	2,484	804	9.3
Sunflower	0	0	.	0	0	0	0	0.0
Simsim	175	96	1,987,505	3,800	2,227	3,975	2,323	4.1
Groundnut	0	0	.	994	432	994	432	0.0
OIL SEEDS & OIL NUTS		**96**	**1,987,505**		**2,658**		2,754	**3.5**
Okra	0	0	.	58	53	58	53	0.0
Radish	0	0	.	29	12	29	12	0.0
Turmeric	0	0	.	29	9	29	9	0.0
Onion	29	3	21,921	0	0	29	3	100.0
Tomatoes	29	3	21,921	29	5	58	8	38.5
Chillies	0	0	.	0	0	0	0	0.0
Amaranths	0	0	.	0	0	0	0	0.0
Pumpkins	0	0	.	29	2	29	2	0.0
Cucumber	0	0	.	0	0	0	0	0.0
Egg Plant	0	0	.	0	0	0	0	0.0
FRUITS & VEGETABLES		**6**	**43,842**		**82**		88	**6.8**
Cotton	0	0	.	0	0	0	0	0.0
CASH CROPS		**0**	**.**		**0**		0	**0.0**
Total		**237**	**5,217,201**		**16,000**			**0.0**

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

Crop	Insecticide use							% of area planted 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	
Maize	152	106	2,543,825	27,792	17,593	27,944	17,699	0.6
Paddy	0	0	.	1,443	601	1,443	601	0.0
Sorghum	152	84	2,278,052	9,112	4,093	9,264	4,177	2.0
Bulrush Millet	0	0	.	0	0	0	0	0.0
Finger Millet	0	0	.	0	0	0	0	0.0
CEREALS		**190**	**4,821,877**		**22,287**		22,477	**0.8**
Cassava	0	0	.	76	31	76	31	0.0
Sweet Potato	0	0	.	0	0	0	0	0.0
Yams	0	0	.	0	0	0	0	0.0
ROOTS & TUBERS		**0**	**.**		**31**		31	**0.0**
Beans	0	0	.	1,063	212	1,063	212	0.0
Cowpeas	152	23	759,351	2,658	670	2,734	693	3.3
Green gram	0	0	.	0	0	0	0	0.0
Bambaranuts	0	0	.	304	81	304	81	0.0
Field Peas	0	0	.	0	0	0	0	0.0
PULSES	152	23	759,351	4,025	963	4,100	986	2.3
Sunflower	0	0	.	0	0	0	0	0.0
Simsim	304	120	1,594,637	6,530	2,765	6,834	2,885	4.2
Groundnut	0	0	.	835	224	835	224	0.0
OIL SEEDS & OIL NUTS		**120**	**1,594,637**		**2,989**		3,109	**3.9**
Okra	0	0	.	0	0	0	0	0.0
Radish	0	0	.	0	0	0	0	0.0
Turmeric	0	0	.	0	0	0	0	0.0
Onion	0	0	.	152	49	152	49	0.0
Tomatoes	228	65	3,568,949	76	8	304	72	89.4
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
FRUITS & VEGETABLES		**65**	**3,568,949**		**57**		121	**53.2**
Cotton	0	0	.	0	0	0	0	0.0
CASH CROPS		**0**	**.**		**0**		0	**0.0**
Total		**398**	**10,744,813**		**26,327**			**0.0**

5.75: Planted Area & Number of Households by Insecticide Use by Crop during 2007/08 agriculture year - LONG RAINY SEASON - Lindi Urban

Crop	Insecticide use							% of area planted 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	
Maize	0	0	.	2,348	623	2,348	623	0.0
Paddy	0	0	.	226	70	226	70	0.0
Sorghum	0	0	.	3,251	1,326	3,251	1,326	0.0
Bulrush Millet	0	0	.	0	0	0	0	0.0
Finger Millet	0	0	.	0	0	0	0	0.0
CEREALS		**0**	**.**		**2,020**		2,020	**0.0**
Cassava	0	0	.	0	0	0	0	0.0
Sweet Potato	0	0	.	0	0	0	0	0.0
Yams	0	0	.	0	0	0	0	0.0
ROOTS & TUBERS		**0**	**.**		**0**		0	**0.0**
Beans	0	0	.	0	0	0	0	0.0
Cowpeas	0	0	.	135	37	135	37	0.0
Green gram	0	0	.	0	0	0	0	0.0
Bambaranuts	0	0	.	0	0	0	0	0.0
Field Peas	0	0	.	0	0	0	0	0.0
PULSES	0	0	.	135	37	135	37	0.0
Sunflower	0	0	.	0	0	0	0	0.0
Simsim	0	0	.	858	248	858	248	0.0
Groundnut	0	0	.	181	17	181	17	0.0
OIL SEEDS & OIL NUTS		**0**	**.**		**265**		265	**0.0**
Okra	0	0	.	0	0	0	0	0.0
Radish	0	0	.	45	4	45	4	0.0
Turmeric	0	0	.	0	0	0	0	0.0
Onion	0	0	.	0	0	0	0	0.0
Tomatoes	45	5	27,090	0	0	45	5	100.0
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
FRUITS & VEGETABLES		**5**	**27,090**		**4**		8	**55.6**
Cotton	0	0	.	0	0	0	0	0.0
CASH CROPS		**0**	**.**		**0**		0	**0.0**
Total		**5**	**27,090**		**2,325**			**0.0**

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

Crop	Fungicide use							% of area planted 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 MASIKA	Total Planted Area in MASIKA	
Maize	473	542	10,092,004	14,192	7,043	14,665	7,585	7.1
Paddy	158	102	8,672,816	10,407	5,773	10,565	5,876	1.7
Sorghum	237	287	7,095,941	18,134	11,987	18,371	12,274	2.3
Bulrush Millet	0	0	.	315	326	315	326	0.0
Finger Millet	0	0	.	0	0	0	0	0.0
CEREALS		**931**	**25,860,761**		**25,129**		**26,060**	**3.6**
Cassava	0	0	.	0	0	0	0	0.0
Sweet Potato	0	0	.	0	0	0	0	0.0
Yams	0	0	.	0	0	0	0	0.0
ROOTS & TUBERS		**0**	**.**		**0**		**0**	**0.0**
Beans	0	0	.	0	0	0	0	0.0
Cowpeas	0	0	.	1,498	350	1,498	350	0.0
Green gram	0	0	.	79	14	79	14	0.0
Bambaranuts	0	0	.	0	0	0	0	0.0
Field Peas	0	0	.	0	0	0	0	0.0
PULSES	0	0	.	1,577	364	1,577	364	0.0
Sunflower	0	0	.	0	0	0	0	0.0
Simsim	237	185	5,203,690	11,196	7,119	11,432	7,304	2.5
Groundnut	0	0	.	0	0	0	0	0.0
OIL SEEDS & OIL NUTS		**185**	**5,203,690**		**7,119**		**7,304**	**2.5**
Okra	0	0	.	79	4	79	4	0.0
Radish	0	0	.	0	0	0	0	0.0
Turmeric	0	0	.	0	0	0	0	0.0
Onion	0	0	.	0	0	0	0	0.0
Tomatoes	0	0	.	158	36	158	36	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
FRUITS & VEGETABLES		**0**	**.**		**40**		40	0.0
Cotton	0	0	.	0	0	0	0	0.0
CASH CROPS		**0**	**.**		**0**		**0**	**0.0**
Total		**1,117**	**31,064,451**		**32,652**		**33,768**	**3.3**

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

Crop	Fungicide use							% of area planted 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 MASIKA	Total Planted Area in MASIKA	
Paddy	0	0	.	17,609	8,786	17,609	8,786	0.0
Sorghum	124	113	.	22,693	11,203	22,693	11,316	1.0
Bulrush Millet	0	0	.	0	0	0	0	0.0
Finger Millet	0	0	.	0	0	0	0	0.0
CEREALS	248	163	272,816	69,196	32,682	69,320	32,845	0.5
Cassava		**0**	**.**		**0**		**0**	**0.0**
Sweet Potato	0	0	.	0	0	0	0	0.0
Yams	0	0	.	124	20	124	20	0.0
ROOTS & TUBERS	0	0	.	124	20	124	20	0.0
Beans		**0**	**.**		**291**		**291**	**0.0**
Cowpeas	0	0	.	3,348	1,193	3,348	1,193	0.0
Green gram	0	0	.	0	0	0	0	0.0
Bambaranuts	0	0	.	496	133	496	133	0.0
Field Peas	0	0	.	0	0	0	0	0.0
PULSES	0	0	.	4,464	1,617	4,464	1,617	0.0
Sunflower	0	0	.	0	0	0	0	0.0
Simsim	124	50	.	11,409	4,435	11,409	4,485	1.1
Groundnut	0	0	.	2,728	1,180	2,728	1,180	0.0
OIL SEEDS & OIL NUTS	124	50	.	14,137	5,614	14,137	5,665	0.9
Okra		**0**	**.**		**43**		**43**	**0.0**
Radish	0	0	.	0	0	0	0	0.0
Turmeric	0	0	.	0	0	0	0	0.0
Onion	0	0	.	0	0	0	0	0.0
Tomatoes	0	0	.	496	133	496	133	0.0
Chillies	0	0	.	124	13	124	13	0.0
Amaranths	0	0	.	124	13	124	13	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
FRUITS & VEGETABLES	0	0	.	992	201	992	201	0.0
Cotton		**0**	**.**		**0**		0	0.0
CASH CROPS	0	0	.	0	0	**0**	**0**	**0.0**
Total		**213**	**272,816**		**40,134**		**40,348**	**0.5**

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

Crop	Fungicide use							% of area planted 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 MASIKA	Total Planted Area in MASIKA	
Maize	188	58	3,291,621	36,490	29,123	36,584	29,181	0.2
Paddy	0	0	.	3,668	1,634	3,668	1,634	0.0
Sorghum	0	0	.	11,850	5,487	11,850	5,487	0.0
Bulrush Millet	0	0	.	0	0	0	0	0.0
Finger Millet	0	0	.	94	15	94	15	0.0
CEREALS		**58**	**3,291,621**		**36,259**		**36,317**	**0.2**
Cassava	0	0	.	94	29	94	29	0.0
Sweet Potato	0	0	.	94	9	94	9	0.0
Yams	0	0	.	0	0	0	0	0.0
ROOTS & TUBERS		**0**	**.**		**37**		**37**	**0.0**
Beans	0	0	.	940	351	940	351	0.0
Cowpeas	0	0	.	8,088	2,864	8,088	2,864	0.0
Green gram	0	0	.	376	53	376	53	0.0
Bambaranuts	0	0	.	2,445	728	2,445	728	0.0
Field Peas	0	0	.	188	87	188	87	0.0
PULSES	0	0	.	12,038	4,083	12,038	4,083	0.0
Sunflower	0	0	.	188	59	188	59	0.0
Simsim	94	53	1,645,811	14,201	5,920	14,295	5,973	0.9
Groundnut	0	0	.	1,505	564	1,505	564	0.0
OIL SEEDS & OIL NUTS		**53**	**1,645,811**		**6,543**		6,596	0.8
Okra	0	0	.	94	10	94	10	0.0
Radish	0	0	.	0	0	0	0	0.0
Turmeric	0	0	.	0	0	0	0	0.0
Onion	0	0	.	0	0	0	0	0.0
Tomatoes	0	0	.	188	49	188	49	0.0
Chillies	0	0	.	0	0	0	0	0.0
Amaranths	0	0	.	188	26	188	26	0.0
Pumpkins	0	0	.	0	0	0	0	0.0
Cucumber	0	0	.	94	8	94	8	0.0
Egg Plant	0	0	.	94	10	94	10	0.0
FRUITS & VEGETABLES		**0**	**.**		**104**		104	0.0
Cotton	0	0	.	94	46	94	46	0.0
CASH CROPS		**0**	**.**		**46**		46	0.0
Total		**111**	**4,937,432**		**47,072**		47,183	0.2

5.79: Area & Number of Crop growing Households by Fungicide Use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON - Liwale

Crop	Fungicide use							% of area planted 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 MASIKA	Total Planted Area in MASIKA	
Maize	146	95	3,799,642	9,996	7,677	10,142	7,771	1.2
Paddy	58	35	1,753,681	2,251	1,296	2,309	1,331	2.7
Sorghum	117	47	3,507,362	6,401	3,297	6,518	3,344	1.4
Bulrush Millet	0	0	.	0	0	0	0	0.0
Finger Millet	0	0	.	88	22	88	22	0.0
CEREALS		**177**	**9,060,685**		**12,292**		**12,469**	**1.4**
Cassava	0	0	.	117	75	117	75	0.0
Sweet Potato	0	0	.	175	48	175	48	0.0
Yams	0	0	.	0	0	0	0	0.0
ROOTS & TUBERS		**0**	**.**		**122**		**122**	**0.0**
Beans	0	0	.	88	23	88	23	0.0
Cowpeas	29	12	876,840	2,251	740	2,280	752	1.6
Green gram	0	0	.	0	0	0	0	0.0
Bambaranuts	0	0	.	117	28	117	28	0.0
Field Peas	0	0	.	0	0	0	0	0.0
PULSES	29	12	876,840	2,455	792	2,484	804	1.5
Sunflower	0	0	.	0	0	0	0	0.0
Simsim	29	18	876,840	3,946	2,305	3,975	2,323	0.8
Groundnut	29	12	1,022,981	965	420	994	432	2.7
OIL SEEDS & OIL NUTS		**30**	**1,899,821**		**2,725**		**2,754**	**1.1**
Okra	0	0	.	58	53	58	53	0.0
Radish	0	0	.	29	12	29	12	0.0
Turmeric	0	0	.	29	9	29	9	0.0
Onion	29	3	73,070	0	0	29	3	100.0
Tomatoes	29	3	73,070	29	5	58	8	38.5
Chillies	0	0	.	0	0	0	0	0.0
Amaranths	0	0	.	0	0	0	0	0.0
Pumpkins	0	0	.	29	2	29	2	0.0
Cucumber	0	0	.	0	0	0	0	0.0
Egg Plant	0	0	.	0	0	0	0	0.0
FRUITS & VEGETABLES		**6**	**146,140**		**82**		**88**	**6.8**
Cotton	0	0	.	0	0	0	0	0.0
CASH CROPS		**0**	**.**		**0**		**0**	**0.0**
Total		**225**	**11,983,487**		**16,012**		**16,237**	**1.4**

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

Crop	Fungicide use							% of area planted 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 MASIKA	Total Planted Area in MASIKA	
Maize	532	430	15,111,080	27,488	17,268	27,944	17,699	2.4
Paddy	0	0	.	1,443	601	1,443	601	0.0
Sorghum	76	75	2,278,052	9,188	4,102	9,264	4,177	1.8
Bulrush Millet	0	0	.	0	0	0	0	0.0
Finger Millet	0	0	.	0	0	0	0	0.0
CEREALS		**505**	**17,389,132**		**21,971**		**22,477**	**2.2**
Cassava	0	0	.	76	31	76	31	0.0
Sweet Potato	0	0	.	0	0	0	0	0.0
Yams	0	0	.	0	0	0	0	0.0
ROOTS & TUBERS		**0**	**.**		**31**		**31**	**0.0**
Beans	0	0	.	1,063	212	1,063	212	0.0
Cowpeas	76	31	2,657,728	2,658	662	2,734	693	4.4
Green gram	0	0	.	0	0	0	0	0.0
Bambaranuts	0	0	.	304	81	304	81	0.0
Field Peas	0	0	.	0	0	0	0	0.0
PULSES	76	31	2,657,728	4,025	955	4,100	986	3.1
Sunflower	0	0	.	0	0	0	0	0.0
Simsim	152	54	4,935,780	6,682	2,831	6,834	2,885	1.9
Groundnut	0	0	.	835	224	835	224	0.0
OIL SEEDS & OIL NUTS		**54**	**4,935,780**		**3,056**		**3,109**	**1.7**
Okra	0	0	.	0	0	0	0	0.0
Radish	0	0	.	0	0	0	0	0.0
Turmeric	0	0	.	0	0	0	0	0.0
Onion	0	0	.	152	49	152	49	0.0
Tomatoes	228	65	4,100,494	76	8	304	72	89.4
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
FRUITS & VEGETABLES		**65**	**4,100,494**		**57**		**121**	**53.2**
Cotton	0	0	.	0	0	0	0	0.0
CASH CROPS		**0**	**.**		**0**		**0**	**0.0**
Total		0			0		0	0

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

Crop	Fungicide use							% of area planted 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 MASIKA	Total Planted Area in MASIKA	
Maize	0	0	.	2,348	623	2,348	623	0.0
Paddy	0	0	.	226	70	226	70	0.0
Sorghum	0	0	.	3,251	1,326	3,251	1,326	0.0
Bulrush Millet	0	0	.	0	0	0	0	0.0
Finger Millet	0	0	.	0	0	0	0	0.0
CEREALS		**0**	**.**		**2,020**		**2,020**	**0.0**
Cassava	0	0	.	0	0	0	0	0.0
Sweet Potato	0	0	.	0	0	0	0	0.0
Yams	0	0	.	0	0	0	0	0.0
ROOTS & TUBERS		**0**	**.**		**0**		**0**	**0.0**
Beans	0	0	.	0	0	0	0	0.0
Cowpeas	0	0	.	135	37	135	37	0.0
Green gram	0	0	.	0	0	0	0	0.0
Bambaranuts	0	0	.	0	0	0	0	0.0
Field Peas	0	0	.	0	0	0	0	0.0
PULSES	0	0	.	135	37	135	37	0.0
Sunflower	0	0	.	0	0	0	0	0.0
Simsim	0	0	.	858	248	858	248	0.0
Groundnut	0	0	.	181	17	181	17	0.0
OIL SEEDS & OIL NUTS		**0**	**.**		**265**		**265**	**0.0**
Okra	0	0	.	0	0	0	0	0.0
Radish	0	0	.	45	4	45	4	0.0
Turmeric	0	0	.	0	0	0	0	0.0
Onion	0	0	.	0	0	0	0	0.0
Tomatoes	0	0	.	45	5	45	5	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
FRUITS & VEGETABLES		**0**	**.**		**8**		**8**	**0.0**
Cotton	0	0	.	0	0	0	0	0.0
CASH CROPS		**0**	**.**		**0**		0	0.0
Total		0			0		0	0.0

5.82: Planted Area & Number of Crop Growing Households by Herbicide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) -Kilwa

Crop	Herbicide use							% of area planted 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 MASIKA	Total Planted Area in MASIKA	
Maize	315	319	9,461,254	14,350	7,265	14,665	7,585	4.2
Paddy	79	64	2,365,314	10,486	5,812	10,565	5,876	1.1
Sorghum	237	287	7,095,941	18,134	11,987	18,371	12,274	2.3
Bulrush Millet	0	0	.	315	326	315	326	0.0
Finger Millet	0	0	.	0	0	0	0	0.0
CEREALS		**670**	**18,922,508**		**25,390**		**26,060**	**2.6**
Cassava	0	0	.	0	0	0	0	0.0
Sweet Potato	0	0	.	0	0	0	0	0.0
Yams	0	0	.	0	0	0	0	0.0
ROOTS & TUBERS		**0**	**.**		**0**		**0**	**0.0**
Beans	0	0	.	0	0	0	0	0.0
Cowpeas	0	0	.	1,498	350	1,498	350	0.0
Green gram	0	0	.	79	14	79	14	0.0
Bambaranuts	0	0	.	0	0	0	0	0.0
Field Peas	0	0	.	0	0	0	0	0.0
PULSES	0	0	.	1,577	364	1,577	364	0.0
Sunflower	0	0	.	0	0	0	0	0.0
Simsim	158	160	4,730,627	11,275	7,145	11,432	7,304	2.2
Groundnut	0	0	.	0	0	0	0	0.0
OIL SEEDS & OIL NUTS		**160**	**4,730,627**		**7,145**		**7,304**	**2.2**
Okra	0	0	.	79	4	79	4	0.0
Radish	0	0	.	0	0	0	0	0.0
Turmeric	0	0	.	0	0	0	0	0.0
Onion	0	0	.	0	0	0	0	0.0
Tomatoes	0	0	.	158	36	158	36	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
FRUITS & VEGETABLES		**0**	**.**		**40**		40	0.0
Cotton	0	0	.	0	0	0	0	0.0
CASH CROPS		**0**	**.**		**0**		0	0.0
Total		**830**	**23,653,135**		**32,938**		33,768	2.5

5.83: Planted Area & Number of Crop Growing Households by Herbicide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) -Lindi Rural

Crop	Herbicide use							% of area planted 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 MASIKA	Total Planted Area in MASIKA	
Maize	0	0	.	29,018	12,743	29,018	12,743	0.0
Paddy	0	0	.	17,609	8,786	17,609	8,786	0.0
Sorghum	0	0	.	22,693	11,316	22,693	11,316	0.0
Bulrush Millet	0	0	.	0	0	0	0	0.0
Finger Millet	0	0	.	0	0	0	0	0.0
CEREALS		**0**	**.**		**32,845**		**32,845**	**0.0**
Cassava	0	0	.	0	0	0	0	0.0
Sweet Potato	0	0	.	0	0	0	0	0.0
Yams	0	0	.	124	20	124	20	0.0
ROOTS & TUBERS		**0**	**.**		**20**		**20**	**0.0**
Beans	0	0	.	620	291	620	291	0.0
Cowpeas	0	0	.	3,348	1,193	3,348	1,193	0.0
Green gram	0	0	.	0	0	0	0	0.0
Bambaranuts	0	0	.	496	133	496	133	0.0
Field Peas	0	0	.	0	0	0	0	0.0
PULSES	0	0	.	4,464	1,617	4,464	1,617	0.0
Sunflower	0	0	.	0	0	0	0	0.0
Simsim	0	0	.	11,409	4,485	11,409	4,485	0.0
Groundnut	0	0	.	2,728	1,180	2,728	1,180	0.0
OIL SEEDS & OIL NUTS		**0**	**.**		**5,665**		**5,665**	**0.0**
Okra	0	0	.	248	43	248	43	0.0
Radish	0	0	.	0	0	0	0	0.0
Turmeric	0	0	.	0	0	0	0	0.0
Onion	0	0	.	0	0	0	0	0.0
Tomatoes	0	0	.	496	133	496	133	0.0
Chillies	0	0	.	124	13	124	13	0.0
Amaranths	0	0	.	124	13	124	13	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
FRUITS & VEGETABLES		**0**	**.**		**201**		201	0.0
Cotton	0	0	.	0	0	0	0	0.0
CASH CROPS		**0**	**.**		**0**		**0**	**0.0**
Total		**0**	**.**		**40,348**		**40,348**	**0.0**

5.84: Planted Area & Number of Crop Growing Households by Herbicide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Nachingwea

Crop	Herbicide use							% of area planted 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 MASIKA	Total Planted Area in MASIKA	
Maize	94	57	940,463	36,584	29,124	36,584	29,181	0.2
Paddy	94	51	1,410,695	3,574	1,583	3,668	1,634	3.1
Sorghum	0	0	.	11,850	5,487	11,850	5,487	0.0
Bulrush Millet	0	0	.	0	0	0	0	0.0
Finger Millet	0	0	.	94	15	94	15	0.0
CEREALS		**109**	**2,351,158**		**36,209**		**36,317**	**0.3**
Cassava	0	0	.	94	29	94	29	0.0
Sweet Potato	0	0	.	94	9	94	9	0.0
Yams	0	0	.	0	0	0	0	0.0
ROOTS & TUBERS		**0**	**.**		**37**		**37**	**0.0**
Beans	0	0	.	940	351	940	351	0.0
Cowpeas	0	0	.	8,088	2,864	8,088	2,864	0.0
Green gram	0	0	.	376	53	376	53	0.0
Bambaranuts	0	0	.	2,445	728	2,445	728	0.0
Field Peas	0	0	.	188	87	188	87	0.0
PULSES	0	0	.	12,038	4,083	12,038	4,083	0.0
Sunflower	0	0	.	188	59	188	59	0.0
Simsim	0	0	.	14,295	5,973	14,295	5,973	0.0
Groundnut	0	0	.	1,505	564	1,505	564	0.0
OIL SEEDS & OIL NUTS		**0**	**.**		**6,596**		**6,596**	**0.0**
Okra	0	0	.	94	10	94	10	0.0
Radish	0	0	.	0	0	0	0	0.0
Turmeric	0	0	.	0	0	0	0	0.0
Onion	0	0	.	0	0	0	0	0.0
Tomatoes	0	0	.	188	49	188	49	0.0
Chillies	0	0	.	0	0	0	0	0.0
Amaranths	0	0	.	188	26	188	26	0.0
Pumpkins	0	0	.	0	0	0	0	0.0
Cucumber	0	0	.	94	8	94	8	0.0
Egg Plant	0	0	.	94	10	94	10	0.0
FRUITS & VEGETABLES		**0**	**.**		**104**		104	0.0
Cotton	0	0	.	94	46	94	46	0.0
CASH CROPS		**0**	**.**		**46**		**46**	**0.0**
Total		**109**	**2,351,158**		**47,075**		**47,183**	**0.2**

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

Crop	Herbicide use							% of area planted 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 MASIKA	Total Number of Households Planting in MASIKA	
Maize	88	47	2,630,521	10,054	7,724	10,142	7,771	0.6
Paddy	88	59	2,279,785	2,221	1,272	2,309	1,331	4.4
Sorghum	117	47	3,507,362	6,401	3,297	6,518	3,344	1.4
Bulrush Millet	0	0	.	0	0	0	0	0.0
Finger Millet	0	0	.	88	22	88	22	0.0
CEREALS		**154**	**8,417,669**		**12,315**		**12,469**	**1.2**
Cassava	0	0	.	117	75	117	75	0.0
Sweet Potato	0	0	.	175	48	175	48	0.0
Yams	0	0	.	0	0	0	0	0.0
ROOTS & TUBERS		**0**	**.**		**122**		**122**	**0.0**
Beans	0	0	.	88	23	88	23	0.0
Cowpeas	29	12	876,840	2,251	740	2,280	752	1.6
Green gram	0	0	.	0	0	0	0	0.0
Bambaranuts	0	0	.	117	28	117	28	0.0
Field Peas	0	0	.	0	0	0	0	0.0
PULSES	29	12	876,840	2,455	792	2,484	804	1.5
Sunflower	0	0	.	0	0	0	0	0.0
Simsim	29	18	876,840	3,946	2,305	3,975	2,323	0.8
Groundnut	0	0	.	994	432	994	432	0.0
OIL SEEDS & OIL NUTS		**18**	**876,840**		**2,737**		**2,754**	**0.6**
Okra	0	0	.	58	53	58	53	0.0
Radish	0	0	.	29	12	29	12	0.0
Turmeric	0	0	.	29	9	29	9	0.0
Onion	0	0	.	29	3	29	3	0.0
Tomatoes	0	0	.	58	8	58	8	0.0
Chillies	0	0	.	0	0	0	0	0.0
Amaranths	0	0	.	0	0	0	0	0.0
Pumpkins	0	0	.	29	2	29	2	0.0
Cucumber	0	0	.	0	0	0	0	0.0
Egg Plant	0	0	.	0	0	0	0	0.0
FRUITS & VEGETABLES		**0**	**.**		**88**		88	0.0
Cotton	0	0	.	0	0	0	0	0.0
CASH CROPS		**0**	**.**		**0**		**0**	**0.0**
Total		**183**	**10,171,350**		**16,054**		**16,237**	**1.1**

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

Crop	Herbicide use							% of area planted 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 MASIKA	Total Number of Households Planting in MASIKA	
Maize	0	0	.	27,944	17,699	27,944	17,699	0.0
Paddy	0	0	.	1,443	601	1,443	601	0.0
Sorghum	0	0	.	9,264	4,177	9,264	4,177	0.0
Bulrush Millet	0	0	.	0	0	0	0	0.0
Finger Millet	0	0	.	0	0	0	0	0.0
CEREALS		**0**	**.**		**22,477**		**22,477**	**0.0**
Cassava	0	0	.	76	31	76	31	0.0
Sweet Potato	0	0	.	0	0	0	0	0.0
Yams	0	0	.	0	0	0	0	0.0
ROOTS & TUBERS		**0**	**.**		**31**		**31**	**0.0**
Beans	0	0	.	1,063	212	1,063	212	0.0
Cowpeas	76	5	379,675	2,734	688	2,734	693	0.7
Green gram	0	0	.	0	0	0	0	0.0
Bambaranuts	0	0	.	304	81	304	81	0.0
Field Peas	0	0	.	0	0	0	0	0.0
PULSES	76	5	379,675	4,100	982	4,100	986	0.5
Sunflower	0	0	.	0	0	0	0	0.0
Simsim	0	0	.	6,834	2,885	6,834	2,885	0.0
Groundnut	0	0	.	835	224	835	224	0.0
OIL SEEDS & OIL NUTS		**0**	**.**		**3,109**		**3,109**	**0.0**
Okra	0	0	.	0	0	0	0	0.0
Radish	0	0	.	0	0	0	0	0.0
Turmeric	0	0	.	0	0	0	0	0.0
Onion	0	0	.	152	49	152	49	0.0
Tomatoes	0	0	.	304	72	304	72	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
FRUITS & VEGETABLES		**0**	**.**		**121**		121	0.0
Cotton	0	0	.	0	0	0	0	0.0
CASH CROPS		**0**	**.**		**0**		**0**	**0.0**
Total		**5**	**379,675**		**26,720**		**26,725**	**0.0**

5.87: Planted Area & Number of Crop Growing Households by Herbicide use and Crop for the 2007/08 agriculture year - LONG RAINY SEASON (MASIKA) - Lindi Urban

Crop	Herbicide use							% of area planted 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 MASIKA	Total Planted Area in MASIKA	
Maize	0	0	.	2,348	623		2,348	0.0
Paddy	0	0	.	226	70		226	0.0
Sorghum	0	0	.	3,251	1,326		3,251	0.0
Bulrush Millet	0	0	.	0	.		0	0.0
Finger Millet	0	0	.	0	.		0	0.0
CEREALS		**0**	**.**		**2,020**		**5,824**	**0.0**
Cassava	0	0	.	0	.		0	0.0
Sweet Potato	0	0	.	0	.		0	0.0
Yams	0	0	.	0	.		0	0.0
ROOTS & TUBERS		**0**	**.**		**.**		**0**	**0.0**
Beans	0	0	.	0	.		0	0.0
Cowpeas	0	0	.	135	37		135	0.0
Green gram	0	0	.	0	.		0	0.0
Bambaranuts	0	0	.	0	.		0	0.0
Field Peas	0	0	.	0	.		0	0.0
PULSES	0	0	.	135	37		135	0.0
Sunflower	0	0	.	0	.		0	0.0
Simsim	0	0	.	858	248		858	0.0
Groundnut	0	0	.	181	17		181	0.0
OIL SEEDS & OIL NUTS		**0**	**.**		**265**		**1,038**	**0.0**
Okra	0	0	.	0	.		0	0.0
Radish	0	0	.	45	4		45	0.0
Turmeric	0	0	.	0	.		0	0.0
Onion	0	0	.	0	.		0	0.0
Tomatoes	0	0	.	45	5		45	0.0
Chillies	0	0	.	0	.		0	0.0
Amaranths	0	0	.	0	.		0	0.0
Pumpkins	0	0	.	0	.		0	0.0
Cucumber	0	0	.	0	.		0	0.0
Egg Plant	0	0	.	0	.		0	0.0
FRUITS & VEGETABLES		**0**	**.**		**8**		90	0.0
Cotton	0	0	.	0	.		0	0.0
CASH CROPS		**0**	**.**		**.**		**0**	0.0
Total		**0**	**.**		**2,329**		**7,088**	0.0

5.88: Planted Area & Number of Households by Organic Fertilizer Use by Crop - LONG RAINY SEASON - Kilwa

Crop	Organic Fertilizers							% of area planted 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	
Maize	0	0	.	14,665	7,585	14,665	7,585	0.0
Paddy	0	0	.	10,565	5,876	10,565	5,876	0.0
Sorghum	0	0	.	18,371	12,274	18,371	12,274	0.0
Bulrush Millet	0	0	.	315	326	315	326	0.0
Finger Millet	0	0	.	0	0	0	0	0.0
CEREALS		**0**	**.**		**26,060**		**26,060**	**0.0**
Cassava	0	0	.	0	0	0	0	0.0
Sweet Potato	0	0	.	0	0	0	0	0.0
Yams	0	0	.	0	0	0	0	0.0
ROOTS & TUBERS		**0**	**.**		**0**		**0**	**0.0**
Beans	0	0	.	0	0	0	0	0.0
Cowpeas	0	0	.	1,498	350	1,498	350	0.0
Green gram	0	0	.	79	14	79	14	0.0
Bambaranuts	0	0	.	0	0	0	0	0.0
Field Peas	0	0	.	0	0	0	0	0.0
PULSES	0	0	.	1,577	364	1,577	364	0.0
Sunflower	0	0	.	0	0	0	0	0.0
Simsim	0	0	.	11,432	7,304	11,432	7,304	0.0
Groundnut	0	0	.	0	0	0	0	0.0
OIL SEEDS & OIL NUTS		**0**	**.**		**7,304**		**7,304**	**0.0**
Okra	0	0	.	79	4	79	4	0.0
Radish	0	0	.	0	0	0	0	0.0
Turmeric	0	0	.	0	0	0	0	0.0
Onion	0	0	.	0	0	0	0	0.0
Tomatoes	0	0	.	158	36	158	36	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
FRUITS & VEGETABLES		**0**	**.**		**40**		40	0.0
Cotton	0	0	.	0	0	0	0	0.0
CASH CROPS		**0**	**.**		**0**		**0**	**0.0**
Total		**0**	**.**		**33,768**		**33,768**	**0.0**

5.89: Planted Area & Number of Households by Organic Fertilizer Use by Crop - LONG RAINY SEASON - Lindi Rural

Crop	Organic Fertilizers							% of area planted 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	
Maize	124	50	0	28,894	12,692	29,018	12,743	0.4
Paddy	0	0	9,920,584	17,609	8,786	17,609	8,786	0.0
Sorghum	0	0	.	22,693	11,316	22,693	11,316	0.0
Bulrush Millet	0	0	.	0	0	0	0	0.0
Finger Millet	0	0	.	0	0	0	0	0.0
CEREALS		**50**	**9,920,584**		**32,795**		**32,845**	**0.2**
Cassava	0	0	.	0	0	0	0	0.0
Sweet Potato	0	0	.	0	0	0	0	0.0
Yams	0	0	.	124	20	124	20	0.0
ROOTS & TUBERS		**0**	**.**		**20**		**20**	**0.0**
Beans	0	0	.	620	291	620	291	0.0
Cowpeas	0	0	.	3,348	1,193	3,348	1,193	0.0
Green gram	0	0	.	0	0	0	0	0.0
Bambaranuts	0	0	.	496	133	496	133	0.0
Field Peas	0	0	.	0	0	0	0	0.0
PULSES	0	0	.	4,464	1,617	4,464	1,617	0.0
Sunflower	0	0	.	0	0	0	0	0.0
Simsim	248	100	992,058	11,161	4,384	11,409	4,485	2.2
Groundnut	0	0	.	2,728	1,180	2,728	1,180	0.0
OIL SEEDS & OIL NUTS		**100**	**992,058**		**5,564**		**5,665**	**1.8**
Okra	0	0	.	248	43	248	43	0.0
Radish	0	0	.	0	0	0	0	0.0
Turmeric	0	0	.	0	0	0	0	0.0
Onion	0	0	.	0	0	0	0	0.0
Tomatoes	0	0	.	496	133	496	133	0.0
Chillies	0	0	.	124	13	124	13	0.0
Amaranths	0	0	.	124	13	124	13	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
FRUITS & VEGETABLES		**0**	**.**		**201**		201	0.0
Cotton	0	0	.	0	0	0	0	0.0
CASH CROPS		**0**	**.**		**0**		**0**	**0.0**
Total		**151**	**10,912,643**		**40,197**		**40,348**	**0.4**

5.90: Planted Area & Number of Households by Organic Fertilizer Use by Crop - LONG RAINY SEASON - Nachingwea

Crop	Organic Fertilizers							% of area planted 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	
Maize	188	249	5,172,548	36,396	28,931	36,584	29,181	0.9
Paddy	94	34	3,291,621	3,574	1,600	3,668	1,634	2.1
Sorghum	94	80	1,645,811	11,756	5,407	11,850	5,487	1.5
Bulrush Millet	0	0	.	0	0	0	0	0.0
Finger Millet	0	0	.	94	15	94	15	0.0
CEREALS		**364**	**10,109,980**		**35,953**		**36,317**	**1.0**
Cassava	0	0	.	94	29	94	29	0.0
Sweet Potato	0	0	.	94	9	94	9	0.0
Yams	0	0	.	0	0	0	0	0.0
ROOTS & TUBERS		**0**	**.**		**37**		**37**	**0.0**
Beans	0	0	.	940	351	940	351	0.0
Cowpeas	0	0	.	8,088	2,864	8,088	2,864	0.0
Green gram	0	0	.	376	53	376	53	0.0
Bambaranuts	0	0	.	2,445	728	2,445	728	0.0
Field Peas	0	0	.	188	87	188	87	0.0
PULSES	0	0	.	12,038	4,083	12,038	4,083	0.0
Sunflower	0	0	.	188	59	188	59	0.0
Simsim	0	0	.	14,295	5,973	14,295	5,973	0.0
Groundnut	0	0	.	1,505	564	1,505	564	0.0
OIL SEEDS & OIL NUTS		**0**	**.**		**6,596**		**6,596**	**0.0**
Okra	0	0	.	94	10	94	10	0.0
Radish	0	0	.	0	0	0	0	0.0
Turmeric	0	0	.	0	0	0	0	0.0
Onion	0	0	.	0	0	0	0	0.0
Tomatoes	0	0	.	188	49	188	49	0.0
Chillies	0	0	.	0	0	0	0	0.0
Amaranths	0	0	.	188	26	188	26	0.0
Pumpkins	0	0	.	0	0	0	0	0.0
Cucumber	0	0	.	94	8	94	8	0.0
Egg Plant	0	0	.	94	10	94	10	0.0
FRUITS & VEGETABLES		**0**	**.**		**104**		104	0.0
Cotton	0	0	.	94	46	94	46	0.0
CASH CROPS		**0**	**.**		**46**		**46**	**0.0**
Total		**364**	**10,109,980**		**46,819**		**47,183**	**0.8**

5.91: Planted Area & Number of Households by Organic Fertilizer Use by Crop - LONG RAINY SEASON - Liwale

Crop	Organic Fertilizers							% of area planted 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	
Maize	0	0	.	10,142	7,771	10,142	7,771	0.0
Paddy	0	0	.	2,309	1,331	2,309	1,331	0.0
Sorghum	0	0	.	6,518	3,344	6,518	3,344	0.0
Bulrush Millet	0	0	.	0	0	0	0	0.0
Finger Millet	0	0	.	88	22	88	22	0.0
CEREALS		**0**	**.**		**12,469**		**12,469**	**0.0**
Cassava	0	0	.	117	75	117	75	0.0
Sweet Potato	0	0	.	175	48	175	48	0.0
Yams	0	0	.	0	0	0	0	0.0
ROOTS & TUBERS		**0**	**.**		**122**		**122**	**0.0**
Beans	0	0	.	88	23	88	23	0.0
Cowpeas	0	0	.	2,280	752	2,280	752	0.0
Green gram	0	0	.	0	0	0	0	0.0
Bambaranuts	0	0	.	117	28	117	28	0.0
Field Peas	0	0	.	0	0	0	0	0.0
PULSES	0	0	.	2,484	804	2,484	804	0.0
Sunflower	0	0	.	0	0	0	0	0.0
Simsim	0	0	.	3,975	2,323	3,975	2,323	0.0
Groundnut	0	0	.	994	432	994	432	0.0
OIL SEEDS & OIL NUTS		**0**	**.**		**2,754**		**2,754**	**0.0**
Okra	0	0	.	58	53	58	53	0.0
Radish	0	0	.	29	12	29	12	0.0
Turmeric	0	0	.	29	9	29	9	0.0
Onion	0	0	.	29	3	29	3	0.0
Tomatoes	0	0	.	58	8	58	8	0.0
Chillies	0	0	.	0	0	0	0	0.0
Amaranths	0	0	.	0	0	0	0	0.0
Pumpkins	0	0	.	29	2	29	2	0.0
Cucumber	0	0	.	0	0	0	0	0.0
Egg Plant	0	0	.	0	0	0	0	0.0
FRUITS & VEGETABLES		**0**	**.**		**88**		88	0.0
Cotton	0	0	.	0	0	0	0	0.0
CASH CROPS		**0**	**.**		**0**		**0**	**0.0**
Total		**0**	**.**		**16,237**		**16,237**	**0.0**

5.92: Planted Area & Number of Households by Organic Fertilizer Use by Crop - LONG RAINY SEASON - Ruangwa

Crop	Organic Fertilizers							% of area planted 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	
Maize	76	31	3,796,754	27,868	17,668	27,944	17,699	0.2
Paddy	0	0	.	1,443	601	1,443	601	0.0
Sorghum	0	0	.	9,264	4,177	9,264	4,177	0.0
Bulrush Millet	0	0	.	0	0	0	0	0.0
Finger Millet	0	0	.	0	0	0	0	0.0
CEREALS		**31**	**3,796,754**		**22,446**		**22,477**	**0.1**
Cassava	0	0	.	76	31	76	31	0.0
Sweet Potato	0	0	.	0	0	0	0	0.0
Yams	0	0	.	0	0	0	0	0.0
ROOTS & TUBERS		**0**	**.**		**31**		**31**	**0.0**
Beans	0	0	.	1,063	212	1,063	212	0.0
Cowpeas	0	0	.	2,734	693	2,734	693	0.0
Green gram	0	0	.	0	0	0	0	0.0
Bambaranuts	0	0	.	304	81	304	81	0.0
Field Peas	0	0	.	0	0	0	0	0.0
PULSES	0	0	.	4,100	986	4,100	986	0.0
Sunflower	0	0	.	0	0	0	0	0.0
Simsim	0	0	.	6,834	2,885	6,834	2,885	0.0
Groundnut	0	0	.	835	224	835	224	0.0
OIL SEEDS & OIL NUTS		**0**	**.**		**3,109**		**3,109**	**0.0**
Okra	0	0	.	0	0	0	0	0.0
Radish	0	0	.	0	0	0	0	0.0
Turmeric	0	0	.	0	0	0	0	0.0
Onion	76	6	3,037,403	152	43	152	49	12.5
Tomatoes	76	18	3,644,884	228	54	304	72	25.5
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
FRUITS & VEGETABLES		**25**	**6,682,287**		**97**		121	20.3
Cotton	0	0	.	0	0	0	0	0.0
CASH CROPS		**0**	**.**		**0**		**0**	**0.0**
Total		**55**	**10,479,040**		**26,669**		**26,725**	**0.2**

5.93: Planted Area & Number of Households by Organic Fertilizer Use by Crop - LONG RAINY SEASON - Lindi Urban

Crop	Organic Fertilizers							% of area planted 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	
Maize	0	0	.	2,348	623	2,348	623	0.0
Paddy	0	0	.	226	70	226	70	0.0
Sorghum	45	18	451,493	3,206	1,308	3,251	1,326	1.4
Bulrush Millet	0	0	.	0	0	0	0	0.0
Finger Millet	0	0	.	0	0	0	0	0.0
CEREALS		**18**	**451,493**		**2,001**		**2,020**	**0.9**
Cassava	0	0	.	0	0	0	0	0.0
Sweet Potato	0	0	.	0	0	0	0	0.0
Yams	0	0	.	0	0	0	0	0.0
ROOTS & TUBERS		**0**	**.**		**0**		**0**	**0.0**
Beans	0	0	.	0	0	0	0	0.0
Cowpeas	0	0	.	135	37	135	37	0.0
Green gram	0	0	.	0	0	0	0	0.0
Bambaranuts	0	0	.	0	0	0	0	0.0
Field Peas	0	0	.	0	0	0	0	0.0
PULSES	0	0	.	135	37	135	37	0.0
Sunflower	0	0	.	0	0	0	0	0.0
Simsim	0	0	.	858	248	858	248	0.0
Groundnut	0	0	.	181	17	181	17	0.0
OIL SEEDS & OIL NUTS		**0**	**.**		**265**		**265**	**0.0**
Okra	0	0	.	0	0	0	0	0.0
Radish	0	0	.	45	4	45	4	0.0
Turmeric	0	0	.	0	0	0	0	0.0
Onion	0	0	.	0	0	0	0	0.0
Tomatoes	0	0	.	45	5	45	5	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
FRUITS & VEGETABLES		**0**	**.**		**8**		8	0.0
Cotton	0	0	.	0	0	0	0	0.0
CASH CROPS		**0**	**.**		**0**		**0**	**0.0**
Total		**18**	**451,493**		**2,311**		**2,329**	**0.8**

5.94: Planted Area & Number of Households by Inorganic Fertilizer Use by Crop - LONG RAINY SEASON - Kilwa

Crop	LONG RAINY SEASON							% of area planted 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 MASIKA	Total Planted Area in MASIKA	
Maize	0	0	.	14,665	7,585	14,665	7,585	0.0
Paddy	0	0	.	10,565	5,876	10,565	5,876	0.0
Sorghum	0	0	.	18,371	12,274	18,371	12,274	0.0
Bulrush Millet	0	0	.	315	326	315	326	0.0
Finger Millet	0	0	.	0	0	0	0	0.0
CEREALS		**0**	**.**		**26,060**		**26,060**	**0.0**
Cassava	0	0	.	0	0	0	0	0.0
Sweet Potato	0	0	.	0	0	0	0	0.0
Yams	0	0	.	0	0	0	0	0.0
ROOTS & TUBERS		**0**	**.**		**0**		**0**	**0.0**
Beans	0	0	.	0	0	0	0	0.0
Cowpeas	0	0	.	1,498	350	1,498	350	0.0
Green gram	0	0	.	79	14	79	14	0.0
Bambaranuts	0	0	.	0	0	0	0	0.0
Field Peas	0	0	.	0	0	0	0	0.0
PULSES	0	0	.	1,577	364	1,577	364	0.0
Sunflower	0	0	.	0	0	0	0	0.0
Simsim	0	0	.	11,432	7,304	11,432	7,304	0.0
Groundnut	0	0	.	0	0	0	0	0.0
OIL SEEDS & OIL NUTS		**0**	**.**		**7,304**		**7,304**	**0.0**
Okra	0	0	.	79	4	79	4	0.0
Radish	0	0	.	0	0	0	0	0.0
Turmeric	0	0	.	0	0	0	0	0.0
Onion	0	0	.	0	0	0	0	0.0
Tomatoes	0	0	.	158	36	158	36	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
FRUITS & VEGETABLES		**0**	**.**		**40**		40	0.0
Cotton	0	0	.	0	0	0	0	0.0
CASH CROPS		**0**	**.**		**0**		**0**	**0.0**
Total		**0**	**.**		**33,768**		**33,768**	**0.0**

5.95: Planted Area & Number of Households by Inorganic Fertilizer Use by Crop - LONG RAINY SEASON - Lindi Rural

Crop	LONG RAINY SEASON							% of area planted 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 MASIKA	Total Planted Area in MASIKA	
Maize	124	50	768,845	28,894	12,692	29,018	12,743	0.4
Paddy	0	0	.	17,609	8,786	17,609	8,786	0.0
Sorghum	0	0	.	22,693	11,316	22,693	11,316	0.0
Bulrush Millet	0	0	.	0	0	0	0	0.0
Finger Millet	0	0	.	0	0	0	0	0.0
CEREALS		**50**	**768,845**		**32,795**		**32,845**	**0.2**
Cassava	0	0	.	0	0	0	0	0.0
Sweet Potato	0	0	.	0	0	0	0	0.0
Yams	0	0	.	124	20	124	20	0.0
ROOTS & TUBERS		**0**	**.**		**20**		**20**	**0.0**
Beans	0	0	.	620	291	620	291	0.0
Cowpeas	0	0	.	3,348	1,193	3,348	1,193	0.0
Green gram	0	0	.	0	0	0	0	0.0
Bambaranuts	0	0	.	496	133	496	133	0.0
Field Peas	0	0	.	0	0	0	0	0.0
PULSES	0	0	.	4,464	1,617	4,464	1,617	0.0
Sunflower	0	0	.	0	0	0	0	0.0
Simsim	0	0	.	11,409	4,485	11,409	4,485	0.0
Groundnut	0	0	.	2,728	1,180	2,728	1,180	0.0
OIL SEEDS & OIL NUTS		**0**	**.**		**5,665**		**5,665**	**0.0**
Okra	124	13	496,029	124	30	248	43	29.4
Radish	0	0	.	0	0	0	0	0.0
Turmeric	0	0	.	0	0	0	0	0.0
Onion	0	0	.	0	0	0	0	0.0
Tomatoes	372	83	15,748,927	124	50	496	133	62.3
Chillies	124	13	496,029	0	0	124	13	100.0
Amaranths	124	13	496,029	0	0	124	13	100.0
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
FRUITS & VEGETABLES		**120**	**17,237,015**		**80**		201	60.0
Cotton	0	0	.	0	0	0	0	0.0
CASH CROPS		**0**	**.**		**0**		**0**	**0.0**
Total		**171**			**40,177**		**40,348**	**0.4**

5.96: Planted Area & Number of Households by Inorganic Fertilizer Use by Crop - LONG RAINY SEASON - Nachingwea

Crop	LONG RAINY SEASON							% of area planted 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 MASIKA	Total Planted Area in MASIKA	
Maize	94	86	14,106,949	36,584	29,095	36,584	29,181	0.3
Paddy	94	51	3,761,853	3,574	1,583	3,668	1,634	3.1
Sorghum	0	0	.	11,850	5,487	11,850	5,487	0.0
Bulrush Millet	0	0	.	0	0	0	0	0.0
Finger Millet	0	0	.	94	15	94	15	0.0
CEREALS		**137**	**17,868,802**		**36,180**		**36,317**	**0.4**
Cassava	0	0	.	94	29	94	29	0.0
Sweet Potato	0	0	.	94	9	94	9	0.0
Yams	0	0	.	0	.	0	#VALUE!	0.0
ROOTS & TUBERS		**0**	**.**		**37**		**37**	**0.0**
Beans	0	0	.	940	351	940	351	0.0
Cowpeas	0	0	.	8,088	2,864	8,088	2,864	0.0
Green gram	0	0	.	376	53	376	53	0.0
Bambaranuts	0	0	.	2,445	728	2,445	728	0.0
Field Peas	0	0	.	188	87	188	87	0.0
PULSES	0	0	.	12,038	4,083	12,038	4,083	0.0
Sunflower	0	0	.	188	59	188	59	0.0
Simsim	0	0	.	14,295	5,973	14,295	5,973	0.0
Groundnut	0	0	.	1,505	564	1,505	564	0.0
OIL SEEDS & OIL NUTS		**0**	**.**		**6,596**		**6,596**	**0.0**
Okra	0	0	.	94	10	94	10	0.0
Radish	0	0	.	0	0	0	0	0.0
Turmeric	0	0	.	0	0	0	0	0.0
Onion	0	0	.	0	0	0	0	0.0
Tomatoes	94	38	705,347	94	11	188	49	76.9
Chillies	0	0	.	0	0	0	0	0.0
Amaranths	94	19	3,526,737	94	7	188	26	73.5
Pumpkins	0	0	.	0	0	0	0	0.0
Cucumber	0	0	.	94	8	94	8	0.0
Egg Plant	0	0	.	94	10	94	10	0.0
FRUITS & VEGETABLES		**57**	**4,232,085**		**47**		104	54.9
Cotton	0	0	.	94	46	94	46	0.0
CASH CROPS		**0**	**.**		**46**		**46**	**0.0**
Total		**194**	**22,100,887**		**46,989**		**47,183**	**0.4**

5.97: Planted Area & Number of Households by Inorganic Fertilizer Use by Crop - LONG RAINY SEASON - Liwale

Crop	LONG RAINY SEASON							% of area planted 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 MASIKA	Total Planted Area in MASIKA	
Maize	29	18	292,280	10,113	7,754	10,142	7,771	0.2
Paddy	29	12	438,420	2,280	1,319	2,309	1,331	0.9
Sorghum	0	0	.	6,518	3,344	6,518	3,344	0.0
Bulrush Millet	0	0	.	0	0	0	0	0.0
Finger Millet	0	0	.	88	22	88	22	0.0
CEREALS		**30**	**730,700**		**12,440**		**12,469**	**0.2**
Cassava	0	0	.	117	75	117	75	0.0
Sweet Potato	0	0	.	175	48	175	48	0.0
Yams	0	0	.	0	0	0	0	0.0
ROOTS & TUBERS		**0**	**.**		**122**		**122**	**0.0**
Beans	0	0	.	88	23	88	23	0.0
Cowpeas	0	0	.	2,280	752	2,280	752	0.0
Green gram	0	0	.	0	0	0	0	0.0
Bambaranuts	0	0	.	117	28	117	28	0.0
Field Peas	0	0	.	0	0	0	0	0.0
PULSES	0	0	.	2,484	804	2,484	804	0.0
Sunflower	0	0	.	0	0	0	0	0.0
Simsim	0	0	.	3,975	2,323	3,975	2,323	0.0
Groundnut	0	0	.	994	432	994	432	0.0
OIL SEEDS & OIL NUTS		**0**	**.**		**2,754**		**2,754**	**0.0**
Okra	0	0	.	58	53	58	53	0.0
Radish	0	0	.	29	12	29	12	0.0
Turmeric	0	0	.	29	9	29	9	0.0
Onion	29	3	146,140	0	0	29	3	100.0
Tomatoes	29	3	146,140	29	5	58	8	38.5
Chillies	0	0	.	0	0	0	0	0.0
Amaranths	0	0	.	0	0	0	0	0.0
Pumpkins	0	0	.	29	2	29	2	0.0
Cucumber	0	0	.	0	0	0	0	0.0
Egg Plant	0	0	.	0	0	0	0	0.0
FRUITS & VEGETABLES		**6**	**292,280**		**82**		88	6.8
Cotton	0	0	.	0	0	0	0	0.0
CASH CROPS		**0**	**.**		**0**		**0**	**0.0**
Total		**35**	**1,022,981**		**16,202**		**16,237**	**0.2**

5.98: Planted Area & Number of Households by Inorganic Fertilizer Use by Crop - LONG RAINY SEASON - Ruangwa

Crop	LONG RAINY SEASON							% of area planted 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 MASIKA	Total Planted Area in MASIKA	
Maize	76	138	1,328,864	27,868	17,560	27,944	17,699	0.8
Paddy	0	0	.	1,443	601	1,443	601	0.0
Sorghum	0	0	.	9,264	4,177	9,264	4,177	0.0
Bulrush Millet	0	0	.	0	0	0	0	0.0
Finger Millet	0	0	.	0	0	0	0	0.0
CEREALS		**138**	**1,328,864**		**22,338**		**22,477**	**0.6**
Cassava	0	0	.	76	31	76	31	0.0
Sweet Potato	0	0	.	0	0	0	0	0.0
Yams	0	0	.	0	0	0	0	0.0
ROOTS & TUBERS		**0**	**.**		**31**		**31**	**0.0**
Beans	0	0	.	1,063	212	1,063	212	0.0
Cowpeas	0	0	.	2,734	693	2,734	693	0.0
Green gram	0	0	.	0	0	0	0	0.0
Bambaranuts	0	0	.	304	81	304	81	0.0
Field Peas	0	0	.	0	0	0	0	0.0
PULSES	0	0	.	4,100	986	4,100	986	0.0
Sunflower	0	0	.	0	0	0	0	0.0
Simsim	0	0	.	6,834	2,885	6,834	2,885	0.0
Groundnut	0	0	.	835	224	835	224	0.0
OIL SEEDS & OIL NUTS		**0**	**.**		**3,109**		**3,109**	**0.0**
Okra	0	0	.	0	0	0	0	0.0
Radish	0	0	.	0	0	0	0	0.0
Turmeric	0	0	.	0	0	0	0	0.0
Onion	0	0	.	152	49	152	49	0.0
Tomatoes	76	15	151,870	228	57	304	72	21.3
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
FRUITS & VEGETABLES		**15**	**151,870**		**106**		121	12.7
Cotton	0	0	.	0	0	0	0	0.0
CASH CROPS		**0**	**.**		**0**		**0**	**0.0**
Total		**154**	**1,480,734**		**26,571**		**26,725**	**0.6**

5.99: Planted Area & Number of Households by Inorganic Fertilizer Use by Crop - LONG RAINY SEASON - Lindi Urban

Crop	LONG RAINY SEASON							% of area planted 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 MASIKA	Total Planted Area in MASIKA	
Maize	0	0	.	2,348	623	2,348	623	0.0
Paddy	0	0	.	226	70	226	70	0.0
Sorghum	0	0	.	3,251	1,326	3,251	1,326	0.0
Bulrush Millet	0	0	.	0	0	0	0	0.0
Finger Millet	0	0	.	0	0	0	0	0.0
CEREALS		**0**	**.**		**2,020**		**2,020**	**0.0**
Cassava	0	0	.	0	0	0	0	0.0
Sweet Potato	0	0	.	0	0	0	0	0.0
Yams	0	0	.	0	0	0	0	0.0
ROOTS & TUBERS		**0**	**.**		**0**		**0**	**0.0**
Beans	0	0	.	0	0	0	0	0.0
Cowpeas	0	0	.	135	37	135	37	0.0
Green gram	0	0	.	0	0	0	0	0.0
Bambaranuts	0	0	.	0	0	0	0	0.0
Field Peas	0	0	.	0	0	0	0	0.0
PULSES	0	0	.	135	37	135	37	0.0
Sunflower	0	0	.	0	0	0	0	0.0
Simsim	0	0	.	858	248	858	248	0.0
Groundnut	0	0	.	181	17	181	17	0.0
OIL SEEDS & OIL NUTS		**0**	**.**		**265**		**265**	**0.0**
Okra	0	0	.	0	0	0	0	0.0
Radish	0	0	.	45	4	45	4	0.0
Turmeric	0	0	.	0	0	0	0	0.0
Onion	0	0	.	0	0	0	0	0.0
Tomatoes	0	0	.	45	5	45	5	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
FRUITS & VEGETABLES		**0**	**.**		**8**		8	0.0
Cotton	0	0	.	0	0	0	0	0.0
CASH CROPS		**0**	**.**		**0**		**0**	**0.0**
Total	0	0	.	7,088	2,329	7,088	**2,329**	0

PERMANENT CROPS

5.100: Number of Households Planting Permanent Crops by District, 2007/08 Agriculture Year -Lindi Region

District	Have Crops/Fruit Trees		Does Not Have Crops/Fruit Trees		Total	
	Number	%	Number	%	Number	%
Kilwa	20,894	65.4	11,038	34.6	31,932	100.0
Lindi Rural	24,057	47.9	26,166	52.1	50,223	100.0
Nachingwea	33,480	87.9	4,608	12.1	38,089	100.0
Liwale	8,944	75.6	2,894	24.4	11,837	100.0
Ruangwa	21,186	68.9	9,568	31.1	30,754	100.0
Lindi Urban	1,761	43.3	2,303	56.7	4,063	100.0
Total	**110,322**	**66.1**	**56,576**	**33.9**	**166,898**	**100.0**

5.101: Planted Area and Area Harvested by Type of Planting by District

District	Area of Plants/Trees/Bushes in Mono Crop (ha)		Area Covered by Permanent Crop in Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)
	Number of household	Area	Number of household	Area	Number of household	Area	
Kilwa	8,752	12,875	13,167	24,817	20,894	37,693	20,428
Lindi Rural	16,493	20,269	11,781	17,490	24,057	37,759	24,860
Nachingwea	15,894	17,144	23,512	46,363	33,386	63,507	28,595
Liwale	6,635	13,869	3,946	6,556	8,944	20,425	6,567
Ruangwa	14,124	12,319	11,087	14,747	21,110	27,066	8,943
Lindi Urban	722	415	1,174	974	1,761	1,389	916
Total	62,620	76,890	64,665	110,947	110,152	187,837	90,309

5.102: Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop-KILWA

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	7,411	14,950	5,793	4,039	403,940	0.7	69.7
Banana	5,046	1,190	779	3,283	328,282	4.2	421.7
Mango	3,785	1,500	733	2,702	270,237	3.7	368.5
Pigeon pea	2,365	879	802	394	39,422	0.5	49.2
Coconut	10,802	12,469	6,845	14,094	1,409,443	2.1	205.9
Orange	4,258	1,477	896	8,195	819,494	9.1	914.2
Sugar Cane	0	0	0	0	0	0.0	0.0
Cassava	1,340	4,836	0	0	0	0.0	0.0
Other	7,884	5,228	4,580	11,282	1,128,215	2.5	246.3
Total	**42,891**	**42,529**	**20,428**	**43,990**	**4,399,034**	2.2	215.3

5.103: Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop-LINDI RURAL

Crop	Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)	Quantity Harvested (kgs)	Yield (tons/Ha)	Yield (Kg/Ha)
	Number of households	Area					
Cashewnut	14,757	24,868	14,663	5,337	533,703	0.4	36.4
Banana	1,240	512	367	226	22,569	0.6	61.4
Mango	124	21	1	3	310	2.5	250.0
Pigeon pea	3,224	1,077	976	299	29,935	0.3	30.7
Coconut	6,200	6,997	5,129	5,861	586,121	1.1	114.3
Orange	1,612	352	167	477	47,743	2.9	285.9
Sugar Cane	124	44	44	30	2,976	0.7	67.7
Cassava	4,712	3,849					
Other	9,301	3,887	3,512	3,277			
Total	**41,294**	**41,608**	**24,860**	**15,510**	**1,223,357**		

5.104: Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop-LIWALE

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	7,512	17,551	3,877	6,059	605,885	1.6	156.3
Banana	438	134	129	178	17,756	1.4	137.2
Mango	234	56	38	61	6,106	1.6	162.5
Pigeon pea	1,344	409	395	224	22,400	0.6	56.7
Coconut	29	3	3	0	0	0.0	0.0
Orange	29	12	12	18	1,754	1.5	152.4
Sugar Cane	175	90	90	18	1,754	0.2	19.6
Cassava	935	2,166					
Other	2,689	2,170	2,024	2,016			
Total	**13,386**	**22,591**	**6,567**	**8,573**	**655,655**		

5.105: Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop-NACHINGWEA

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	23,135	44,026	14,089	12,064	1,206,445	0.9	85.6
Banana	940	480	279	378	37,760	1.4	135.4
Mango	940	1,334	118	1,072	107,166	9.0	905.0
Pigeon pea	22,007	8,971	8,093	4,281	428,089	0.5	52.9
Coconut	1,505	3,724	1,899	1,675	167,506	0.9	88.2
Orange	470	114	54	423	42,311	7.9	788.7
Sisal	0	0	0	0	0	0.0	0.0
Sugar Cane	376	92	82	163	16,270	2.0	198.8
Cassava	2,445	4,474					
Other	10,627	4,766	3,981	5,090			
Total	**62,447**	**67,981**	**28,595**	**25,146**	**2,005,547**		

5.106: Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop-RUANGWA

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	14,655	21,048	4,766	7,024	702,369	1.5	147.4
Banana	228	96	30	30	3,037	1.0	101.6
Mango					0	0.0	0.0
Pigeon pea	11,238	4,450	3,256	1,692	169,183	0.5	52.0
Coconut	532	364	105	183	18,262	1.7	174.5
Orange					0	0.0	0.0
Sugar Cane	152	167	18	24	2,430	1.4	135.5
Cassava	1,519	940					
Other	2,202	940	769	1,074			
Total	**30,526**	**28,006**	**8,943**	**10,027**	**895,282**		

5.107: Area Planted, Area harvested, Quantity Harvested and Yield by Type of Permanent Crop-LINDI URBAN

Crop	Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)	Quantity Harvested (kgs)	Yield (tons/Ha)	Yield (Kg/Ha)
	Number of households	Area					
Cashewnut	587	572	280	61	6,140	0.2	22.0
Banana	226	46	0	16	1,571	88.4	8,839.2
Mango	226	54	0	13	1,345	0.0	0.0
Pigeon pea	226	75	75	13	1,309	0.2	17.5
Coconut	451	198	120	125	12,452	1.0	103.3
Orange	45	1	.	0	36	0.0	0.0
Sisal					0	0.0	0.0
Sugar Cane					0	0.0	0.0
Cassava	497	441					
Other	1,264	443	441	600			
Total	**3,522**	**1,830**	**916**	**828**	**22,855**		

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

Districts	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
Kilwa	1,025	2,293	6,544	12,657	7,411	14,950	5,793	4,039	1,183	414	3,942	776	5,046	1,190	779	3,283
Lindi Rural	10,665	13,474	5,456	11,394	14,757	24,868	14,663	5,337	620	283	868	228	1,240	512	367	226
Nachingwea	9,405	12,459	15,612	31,567	23,135	44,026	14,089	12,064	188	111	846	368	940	480	279	378
Liwale	5,992	12,994	2,484	4,557	7,512	17,551	3,877	6,059	146	58	292	76	438	134	129	178
Ruangwa	9,720	9,586	6,227	11,462	14,655	21,048	4,766	7,024	152	60	152	36	228	96	30	30
Lindi Urban	181	71	406	501	587	572	280	61	0	.	226	46	226	46	0	16
Total	**36,986**	**50,878**	**36,729**	**72,137**	**68,058**	**123,015**	**43,468**	**34,585**	**2,289**	**925**	**6,327**	**1,532**	**8,119**	**2,457**	**1,584**	**4,110**

Cont. 5.108: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District

Cont. 5.108: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District - District

Districts	Mango								Coconut							
	Area of Plants/Trees/Bushes in Mono Crop (ha)		Area Covered by Permanent Crop in Mixed Crop (ha)		Total Area Planted (ha) Mono+Mixed Area		Area harvested (ha)	Quantity harvested (tons)	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
Kilwa	552	119	3,390	1,381	3,785	1,500	733	2,702	4,731	8,242	6,465	4,227	10,802	12,469	6,845	14,094
Lindi Rural	0	.	124	21	124	21	1	3	4,092	3,882	2,976	3,116	6,200	6,997	5,129	5,861
Nachingwea	0	.	940	1,334	940	1,334	118	1,072	470	757	1,129	2,967	1,505	3,724	1,899	1,675
Liwale	0	.	234	56	234	56	38	61	29	3	0	.	29	3	3	0
Ruangwa	0	0	0	0	0	0	0	0	228	224	304	140	532	364	105	183
Lindi Urban	0	.	226	54	226	54	.	13	135	98	316	100	451	198	120	125
Total	552	119	4,914	2,847	5,309	2,966	891	3,852	9,686	13,206	11,190	10,549	19,519	23,755	14,101	21,938

Districts	Pigeon pea	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)	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
Kilwa	1,735	613	631	266	2,365	879	802	394	0	0	0	0	0	0	0	0
Lindi Rural	1,488	385	2,356	692	3,224	1,077	976	299	0	.	124	44	124	44	44	30
Nachingwea	8,558	2,643	14,953	6,328	22,007	8,971	8,093	4,281	94	37	282	55	376	92	82	163
Liwale	438	152	906	257	1,344	409	395	224	88	46	88	43	175	90	90	18
Ruangwa	5,543	1,547	5,923	2,904	11,238	4,450	3,256	1,692	152	167	0	.	152	167	18	24
Lindi Urban	0	.	226	75	226	75	75	13	0	0	0	0	0	0	0	0
Total	**17,763**	**5,340**	**24,995**	**10,522**	**40,405**	**15,862**	**13,597**	**6,903**	**334**	**250**	**494**	**143**	**827**	**393**	**233**	**234**

Cont. 5.108: Mono and Mixed Crops by Area Planted, Area Harvested and Quantity Harvested, Type of Planting Crops and District

Districts	Orange								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)	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
Kilwa	473	341	3,863	1,135	4,258	1,477	896	8,195	1,419	854	6,623	4,374	7,884	5,228	4,580	11,282
Lindi Rural	372	37	1,364	315	1,612	352	167	477	4,836	2,208	5,084	1,679	9,301	3,887	3,512	3,277
Nachingwea	0	.	470	114	470	114	54	423	2,539	1,136	8,370	3,630	10,627	4,766	3,981	5,090
Liwale	29	12	0	.	29	12	12	18	965	605	1,783	1,566	2,689	2,170	2,024	2,016
Ruangwa	0	0	0	0	0	0	0	0	1,519	735	683	206	2,202	940	769	1,074
Lindi Urban	0	.	45	1	45	1	.	0	497	246	768	197	1,264	443	441	600
Total	874	390	5,743	1,565	6,414	1,955	1,129	9,113	11,775	5,783	23,311	11,652	33,967	17,434	15,307	23,339

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, Chiper, Oil Press na Oil Mill		Oxplough		Oxplanter		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Kilwa	31,616	99.0	31,695	99.3	552	1.7	0	0.0	158	0.5	0	0.0	31,932
Lindi Rural	47,991	95.6	48,487	96.5	1,488	3.0	0	0.0	124	0.2	0	0.0	50,223
Nachingwea	35,079	92.1	37,524	98.5	1,035	2.7	0	0.0	94	0.2	0	0.0	38,089
Liwale	11,516	97.3	11,662	98.5	351	3.0	29	0.2	0	0.0	29	0.2	11,837
Ruangwa	28,400	92.3	30,070	97.8	835	2.7	152	0.5	0	0.0	76	0.2	30,754
Lindi Urban	3,702	91.1	3,928	96.7	45	1.1	45	1.1	135	3.3	0	0.0	4,063
Total	**158,304**	**94.9**	**163,367**	**97.9**	**4,306**	**2.6**	**226**	**0.1**	**511**	**0.3**	**105**	**0.1**	**166,898**

Cont…

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

District	Equipment/Asset Name												Total number of Agricultural Households
	Ox cart		Trekta		Tractor plough		Tractor Harrow		Castrated bulls		Uncastrated bulls		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Kilwa	79	0.2	79	0.2	79	0.2	79	0.2	237	0.7	79	0.2	31,932
Lindi Rural	0	0.0	0	0.0	0	0.0	124	0.2	248	0.5	124	0.2	50,223
Nachingwea	0	0.0	0	0.0	188	0.5	94	0.2	188	0.5	188	0.5	38,089
Liwale	0	0.0	29	0.2	58	0.5	88	0.7	29	0.2	29	0.2	11,837
Ruangwa	76	0.2	0	0.0	0	0.0	0	0.0	0	0.0	76	0.2	30,754
Lindi Urban	45	1.1	45	1.1	0	0.0	0	0.0	0	0.0	0	0.0	4,063
Total	**200**	**0.1**	**153**	**0.1**	**325**	**0.2**	**385**	**0.2**	**702**	**0.4**	**496**	**0.3**	**166,898**

Cont…

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	%	
Kilwa	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	31,932
Lindi Rural	248	0.5	124	0.2	248	0.5	0	0.0	0	0.0	50,223
Nachingwea	188	0.5	0	0.0	0	0.0	0	0.0	0	0.0	38,089
Liwale	0	0.0	29	0.2	58	0.5	0	0.0	0	0.0	11,837
Ruangwa	0	0.0	0	0.0	0	0.0	76	0.2	76	0.2	30,754
Lindi Urban	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4,063
Total	**436**	**0.3**	**153**	**0.1**	**306**	**0.2**	**76**	**0.0**	**76**	**0.0**	**166,898**

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

District	Equipment/Asset Name											
	Matchet/Bushknife		Hand Hoe		Hand Sprayer		Grater, Chiper, Oil Press and Oil Mill		Ox Plough		Ox Seed Planter	
	Number of Household	%	Number of Household	%	Number of Household	%	Number of Household	%	Number of Household	%	Number of Household	%
Kilwa	74,744	36.5	109,041	53.2	5,913	2.9	.	.	1,813	.9	.	.
Lindi Rural	94,122	39.0	129,340	53.7	1,736	.7	.	.	2,480	1.0	.	.
Nachingwea	59,249	32.7	110,598	61.1	1,317	.7	.	.	1,881	1.0	.	.
Liwale	29,666	39.6	37,967	50.6	438	.6	29	.0	.	.	643	.9
Ruangwa	47,156	34.1	83,377	60.4	1,063	.8	228	.2	.	.	1,519	1.1
Lindi Urban	6,321	27.7	9,707	42.6	90	.4	1,354	5.9	3,341	14.7	.	.
Total	**311,258**	**36.1**	**480,030**	**55.6**	**10,558**	**1.2**	**1,612**	**.2**	**9,516**	**1.1**	**2,162**	**.3**

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

District	Equipment/Asset Name											
	Ox Cart		Tractor		Tractor Plough		Tractor Harrow		Castrated bulls		Uncastrated bulls	
	Number of Household	%	Number of Household	%	Number of Household	%	Number of Household	%	Number of Household	%	Number of Household	%
Kilwa	1,735	.8	1,735	.8	1,735	.8	1,577	.8	5,283	2.6	1,419	.7
Lindi Rural	.	.	.	.	.	.	124	.1	2,852	1.2	372	.2
Nachingwea	.	.	.	.	2,257	1.2	188	.1	4,702	2.6	282	.2
Liwale	.	.	58	.1	1,286	1.7	1,783	2.4	877	1.2	643	.9
Ruangwa	76	.1	.	.	.	.	.	.	.	.	2,278	1.6
Lindi Urban	993	4.4	993	4.4	.	.	.	.	.	.	.	.
Total	**2,804**	**.3**	**2,786**	**.3**	**5,278**	**.6**	**3,672**	**.4**	**13,714**	**1.6**	**4,994**	**.6**

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

	Cow		Donkey		Shellers/Threshers		Power tiller		Ox Ridger	
	Number of Household	%	Number of Household	%	Number of Household	%	Number of Household	%	Number of Household	%
Kilwa	.	.	.	.	.	.	.	.	.	.
Lindi Rural	1,116	.5	2,728	1.1	6,200	2.6	.	.	.	.
Nachingwea	658	.4	.	.	.	.	.	.	.	.
Liwale	.	.	58	.1	1,520	2.0	.	.	.	.
Ruangwa	.	.	.	.	.	.	152	.1	2,278	1.6
Lindi Urban	.	.	.	.	.	.	.	.	.	.
Total	**1,774**	**.2**	**2,787**	**.3**	**7,720**	**.9**	**152**	**.0**	**2,278**	**.3**

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

District	Oxen		Bulls		Cows		Donkeys		Tractor		Power Tiller		Total number of Agricultural Households
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Kilwa	158	40.0	79	20.0	0	0.0	79	20.0	79	20.0	0	0.0	31,932
Lindi Rural	124	50.0	0	0.0	0	0.0	0	0.0	124	50.0	0	0.0	50,223
Nachingwea	0	0.0	0	0.0	0	0.0	0	0.0	282	100.0	0	0.0	38,089
Liwale	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	11,837
Ruangwa	0	0.0	76	6.3	0	0.0	0	0.0	1139	93.8	0	0.0	30,754
Lindi Urban	0	.	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	4,063
Total	**282**	**13.2**	**155**	**7.2**	**0**	**0**	**79**	**3.7**	**1624**	**75.9**	**0**	**0.0**	166,898

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

District	Oxen		Bulls		Cows		Donkeys		Tractor		Power Tiller	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Kilwa	1183	65.2	631	34.8	0	0.0	0	0.0	0	0.0	0	0.0
Lindi Rural	124	7.7	372	23.1	1116	69.2	0	0.0	0	0.0	0	0.0
Nachingwea	0	0.0	0	0.0	188	50.0	0	0.0	188	50.0	0	0.0
Liwale	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Ruangwa	0	0.0	0	0.0	0	0.0	76	20.0	304	80.0	0	0.0
Lindi Urban	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Total	1307	31.2	1003	24.0	1304	31.2	76	1.8	492	11.8	0	0.0

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**	**%**
Kilwa	79	.2	31,853	99.8	31,932	100.0
Lindi Rural	1,612	3.2	48,611	96.8	50,223	100.0
Nachingwea	0	.0	38,089	100.0	38,089	100.0
Liwale	146	1.2	11,691	98.8	11,837	100.0
Ruangwa	987	3.2	29,767	96.8	30,754	100.0
Lindi Urban	0	.0	4,063	100.0	4,063	100.0
Total	2,824	1.7	164,074	98.3	166,898	100.0

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	Total
Kilwa	79	0	0	0	0	0	0	79
Lindi Rural	1,488	0	0	0	0	0	0	1,488
Nachingwea	0	0	0	0	0	0	0	0
Liwale	88	29	0	0	0	29	0	146
Ruangwa	532	0	380	0	0	76	0	987
Lindi Urban	0	0	0	0	0	0	0	0
Total	**2,186**	**29**	**0**	**380**	**0**	**105**	**0**	**2,700**

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

District	Main method of Obtaining Water					
	Gravity	Hand bucket	Hand pump	motor pump	Other	Total
Kilwa	79	0	0	0	0	79
Lindi Rural	1,364	124	0	0	0	1,488
Nachingwea	0	0	0	0	0	0
Liwale	0	146	0	0	0	146
Ruangwa	0	835	152	0	0	987
Lindi Urban	0	0	0	0	0	0
Total	**1,443**	**1,105**	**152**	**0**	**0**	**2,700**

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	%
Kilwa	1,025	3.2	30,907	96.8	31,932	100.0
Lindi Rural	1,488	3.0	48,735	97.0	50,223	100.0
Nachingwea	470	1.2	37,619	98.8	38,089	100.0
Liwale	146	1.2	11,691	98.8	11,837	100.0
Ruangwa	1,747	5.7	29,007	94.3	30,754	100.0
Lindi Urban	90	2.2	3,973	97.8	4,063	100.0
Total	**4,966**	**3.0**	**161,932**	**97.0**	**166,898**	**100.0**

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

District	6.6.2 Does the household have any erosion control/water harvesting facilities					
	Have any erosion control/water harvesting facilities		Do not have have any erosion control/water harvesting facilities		Total	
	Number	%	Number	%	Number	%
Kilwa	237	0.74	31,695	99.3	31,932	100.0
Lindi Rural	0	0.00	50,223	100.0	50,223	100.0
Nachingwea	376	0.99	37,713	99.0	38,089	100.0
Liwale	58	0.49	11,779	99.5	11,837	100.0
Ruangwa	683	2.22	30,070	97.8	30,754	100.0
Lindi Urban	0	0.00	4,063	100.0	4,063	100.0
Total	**1,355**	**0.81**	**165,543**	**99.2**	**166,898**	**100.0**

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

District	Terraces	Erosion Control Bunds	Gabions / Sandbag	Vetiver Grass	Tree Belts	Water Harvesting Bunds	Drainage Ditches	Others
Kilwa	158	18,134	0	1,971	158	0	0	0
Lindi Rural	0	0	0	0	0	0	0	0
Nachingwea	11,286	8,464	0	0	0	94	94	2,539
Liwale	292	29	0	0	0	0	0	0
Ruangwa	76	0	607	0	6,227	380	0	0
Lindi Urban	0	0	0	0	0	0	0	0
Total	**11,811**	**26,627**	**607**	**1,971**	**6,384**	**474**	**94**	**2,539**

AGRICULTURE CREDIT

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

District	Households Receiving Credit					
	borrowed money for agriculture		Did not borrow money for agriculture		Total	
	Number	%	Number	%	Number	%
Kilwa	0	.0	31,932	100.0	31,932	100
Lindi Rural	868	1.7	49,355	98.3	50,223	100
Nachingwea	94	.2	37,995	99.8	38,089	100
Liwale	117	1.0	11,720	99.0	11,837	100
Ruangwa	380	1.2	30,374	98.8	30,754	100
Lindi Urban	0	.0	4,063	100.0	4,063	100
Total	1,459	.9	165,439	99.1	166,898	100

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

District	Male		Female		Total	
	Number	%	Number	%	Number	%
Kilwa	0	0	0	0	0	100
Lindi Rural	744	86	124	14	868	100
Nachingwea	0	0	94	100	94	100
Liwale	88	75	29	25	117	100
Ruangwa	304	80	76	20	380	100
Lindi Urban	0	0	0	0	0	100
Total	1135	78	323	22	1459	100

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

Distrct	Family, friend or relative		Bank		Savings & credit Soc		Cooperative		Trader/trade store		Private individual		NGO/Project		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Kilwa	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0
Lindi Rural	0.0	0.0	0.0	0.0	620.0	71.4	0.0		0	0.0	0.0	0.0	248	28.6	868	100
Nachingwea	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	94	0.0	94	100
Liwale	29.2	25.0	0.0	0.0	29	25.0	58	50.0	0	0.0	0.0	0.0	0.0	0.0	117	100
Ruangwa	0.0	0.0	0.0	0.0	304	80.0	76	20.0	0	0.0	0.0	0.0	0.0	0.0	380	100
Lindi Urban	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	29.2	2.0	0.0	0.0	953	65.3	134	9.2	0	0.0	0.0	0.0	342.1	23.4	1,459	100

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

District	Not needed		Not available		Did not want to go into debt		Interest rate/cost too high		Did not know how to get credit		Difficult bureaucratic procedure		Credit granted too late		Other (specify)		Dont know about credit		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Kilwa	237	0.7	9,304	29.1	2,050	6.4	1,340	4.2	10,880	34.1	788	2.5	788	2.5	0	0.0	6,544	20.5	31,932	100
Lindi Rural	3,100	6.3	7,688	15.6	5,580	11.3	372	0.8	17,237	34.9	4,836	9.8	372	0.8	0	0.0	10,169	20.6	49,355	100
Nachingwea	1,129	3.0	5,831	15.3	2,351	6.2	1,035	2.7	16,740	44.1	1,693	4.5	376	1.0	282	0.7	8,558	22.5	37,995	100
Liwale	380	3.2	1,198	10.2	965	8.2	965	8.2	5,115	43.6	555	4.7	29	0.2	58	0.5	2,455	20.9	11,720	100
Ruangwa	1,215	4.0	3,265	10.8	4,860	16.0	911	3.0	9,796	32.3	2,658	8.8	607	2.0	456	1.5	6,606	21.8	30,374	100
Lindi Urban	0	0.0	497	12.2	316	7.8	90	2.2	1,400	34.4	45	1.1	0	0.0	0	0.0	1,716	42.2	4,063	100
Total	6,060	3.7	27,783	16.8	16,122	9.7	4,713	2.8	61,168	37.0	10,576	6.4	2,173	1.3	796	0.5	36,048	21.8	165,439	100

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

District	Family, friend or relative		Bank		Savings & credit Soc		Cooperative		Trader/trade store		Private individual		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Kilwa	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lindi Rural	0	0	0	0	124	50	124	50	0	0	0	0	248	100
Nachingwea	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Liwale	0	0	29	50	29	50	0	0	0	0	0	0	58	100
Ruangwa	0	0	76	100	0	0	0	0	0	0	0	0	76	100
Lindi Urban	0	0	0	0	0	0	0	0	0	0	0	0		0
Total	0	0	105	28	153	40	124	32	0	0	0	0	382	100

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

District	Family, friend or relative		Bank		Savings & credit Soc		Cooperative		NGO/Project		Trader/trade store		Private individual		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Kilwa	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0	0.0	0.0	0.0	0.0	0
Lindi Rural	0	0.0	124.0	33.3	124.0	33.3	124.0	33.3	0	0.0	0	0.0	0.0	0.0	372.0	100
Nachingwea	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0	0.0	0.0	0.0	0.0	0
Liwale	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58	99.2	0	0.0	58.5	100.0	58.5	199
Ruangwa	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76	0.0	0	0.0	75.9	100.0	75.9	100
Lindi Urban	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0	0	0.0	0.0	0.0	0.0	0
Total	0	0.0	124.0	24.5	124.0	24.5	124.0	24.5	134	26.5	0	0.0	134.4	26.5	506.4	126

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

District	Male		Female		Total	
	Number	%	Number	%	Number	%
Kilwa	0	0				100
Lindi Rural	744	86	124	14	868	100
Nachingwea	0	0	94	100	94	100
Liwale	88	75	29	25	117	100
Ruangwa	304	80	76	20	380	100
Lindi Urban	0	0	0	0	0	100
Total	1135	78	323	22	1459	100

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

District	Male		Female		Total	
	Number	%	Number	%	Number	%
Kilwa	0	0	0	0	0	100
Lindi Rural	248	100	0	100	248	100
Nachingwea	0	0	0	0	0	100
Liwale	58	100	0	100	58	100
Ruangwa	76	100	0	100	76	100
Lindi Urban	0	0	0	0	0	100
Total	382	100	0	100	382.4	100

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

District	Male		Female		Total	
	Number	%	Number	%	Number	%
Kilwa	0	0	0	0	0	100
Lindi Rural	248	100	0	0	868	100
Nachingwea	0	0	0	0	94	100
Liwale	58	100	0	0	117	100
Ruangwa	76	100	0	0	380	100
Lindi Urban	0	0	0	0	0	100
Total	382	100	0	0	1459	100

CROP EXTENSION

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

District	Households that received Crop Advices		Households that did NOT receive Crop advices		Crop Growing Households
	Number	%	Number	%	
Kilwa	2,681	8	29,172	92	31,853
Lindi Rural	8,681	17	41,542	83	50,223
Nachingwea	4,514	12	33,575	88	38,089
Liwale	2,689	23	9,148	77	11,837
Ruangwa	4,100	13	26,653	87	30,754
Lindi Urban	1,400	34	2,664	66	4,063
Total	**24,065**	**14**	**142,755**	**86**	**166,819**

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

District	Number of Households Participated in Out Grower Agreement		Number of Households NOT Participated in Out GrowerAgreement		Total Number of Households	
	Number	%	Number	%	Number	%
Kilwa	315	1.0	31,616	99.0	31,932	100
Lindi Rural	248	0.5	49,975	99.5	50,223	100
Nachingwea	376	1.0	37,713	99.0	38,089	100
Liwale	58	0.5	11,779	99.5	11,837	100
Ruangwa	76	0.2	30,678	99.8	30,754	100
Lindi Urban	0	0.0	4,063	100.0	4,063	100
Total	1,074	0.6	165,824	99.4	166,898	100

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

District	Number of Hholds Participated in Production Agreement		Number of Hholds NOT Participated in Production Agreement		Total Number of Households	
	Number	%	Number	%	Number	%
Kilwa	0	0.0	31,932	100.0	31,932	100
Lindi Rural	248	0.5	49,975	99.5	50,223	100
Nachingwea	282	0.7	37,807	99.3	38,089	100
Liwale	0	0.0	11,837	100.0	11,837	100
Ruangwa	0	0.0	30,754	100.0	30,754	100
Lindi Urban	0	0.0	4,063	100.0	4,063	100
Total	530	0.3	166,368	99.7	166,898	100

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

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Kilwa	7,569	92.3	79	1.0	0	0.0	0	0.0	394	4.8	158	1.9	0	0.0	8,200
Lindi Rural	11,161	72.0	0	0.0	0	0.0	248	1.6	1,984	12.8	2,108	13.6	0	0.0	15,501
Nachingwea	7,524	74.1	188	1.9	0	0.0	0	0.0	94	.9	2,257	22.2	94	0.9	10,157
Liwale	4,793	82.8	146	2.5	0	0.0	58	1.0	117	2.0	672	11.6	0	0.0	5,787
Ruangwa	10,175	73.2	0	0.0	0	0.0	0	0.0	304	2.2	3,341	24.0	76	0.5	13,896
Lindi Urban	1,851	91.1	0	0.0	0	0.0	0	0.0	45	2.2	135	6.7	0	0.0	2,032
Total	43,073	77.5	413	0.7	0	0.0	306	0.6	2,938	5.3	8,672	15.6	170	0.3	55,573

8.5: Number of Households Receiving Extension Advice on Use of Agrochemicals by District During the 2007/08 Agriculture year

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/News Paper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Kilwa	4494	84	237	4.4	0	0.0	0	0.0	315	5.9	315	5.9	0	0.0	5361
Lindi Rural	6448	64	248	2.5	248	2.5	372	3.7	1364	13.6	1364	13.6	0	0.0	10045
Nachingwea	5173	71	94	1.3	188	2.6	94	1.3	188	2.6	1599	21.8	0	0.0	7336
Liwale	3595	78	29	0.6	175	3.8	0	0.0	292	6.3	526	11.4	0	0.0	4618
Ruangwa	3797	62	76	1.2	0	0.0	0	0.0	456	7.4	1747	28.4	76	1.2	6151
Lindi Urban	1400	89	0	0.0	0	0.0	0	0.0	45	2.9	135	8.6	0	0.0	1580
Total	24906	71	684	1.9	611	1.7	466	1.3	2661	7.6	5686	16.2	76	0.2	35091

8.6: Number of households receiving extensionadvice on Erosion Control by District during the 2007/08 agriculture year

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Kilwa	2602	92	0	0.0	0	0.0	79	2.8	79	2.8	79	2.8	0	0.0	2838
Lindi Rural	1240	77	0	0.0	0	0.0	0	0.0	248	15.4	124	7.7	0	0.0	1612
Nachingwea	1223	72	94	5.6	0	0.0	0	0.0	94	5.6	282	16.7	0	0.0	1693
Liwale	1257	84	29	2.0	0	0.0	0	0.0	117	7.8	88	5.9	0	0.0	1491
Ruangwa	304	25	0	0.0	0	0.0	0	0.0	607	50.0	304	25.0	0	0.0	1215
Lindi Urban	632	82	45	5.9	0	0.0	0	0.0	45	5.9	45	5.9	0	0.0	768
Total	7257	75	168	1.8	0	0.0	79	0.8	1190	12.4	922	9.6	0	0.0	9616

8.7 : Number of Households Receiving extension Advice on Organic Fertlizer Use by District during the 2007/08 agriculture year

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Kilwa	2838	92	0	0.0	0	0.0	0	0.0	237	7.7	0	0.0	0	0.0	3075
Lindi Rural	1240	50	0	0.0	0	0.0	0	0.0	744	30.0	372	15.0	124	5.0	2480
Nachingwea	1505	70	94	4.3	0	0.0	0	0.0	94	4.3	470	21.7	0	0.0	2163
Liwale	1228	76	0	0.0	0	0.0	0	0.0	205	12.7	175	10.9	0	0.0	1608
Ruangwa	1063	64	0	0.0	0	0.0	0	0.0	456	27.3	152	9.1	0	0.0	1671
Lindi Urban	993	92	0	0.0	0	0.0	0	0.0	45	4.2	45	4.2	0	0.0	1084
Total	8867	73	94	0.8	0	0.0	0	0.0	1780	14.7	1215	10.1	124	1.0	12080

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

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Kilwa	2760	97	0	0.0	0	0.0	0	0.0	79	2.8	0	0.0	0	0.0	2838
Lindi Rural	1860	54	0	0.0	0	0.0	124	3.6	1116	32.1	372	10.7	0	0.0	3472
Nachingwea	2163	88	0	0.0	0	0.0	0	0.0	94	3.8	94	3.8	94	3.8	2445
Liwale	1315	79	0	0.0	29	1.8	0	0.0	146	8.8	175	10.5	0	0.0	1666
Ruangwa	1443	51	0	0.0	0	0.0	0	0.0	683	24.3	683	24.3	0	0.0	2810
Lindi Urban	948	88	0	0.0	0	0.0	0	0.0	90	8.3	45	4.2	0	0.0	1084
Total	10489	73	0	0.0	29	0.2	124	0.9	2209	15.4	1370	9.6	94	0.7	14315

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

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Kilwa	5756	83	79	1.1	0	0.0	79	1.1	710	10.2	315	4.5	0	0.0	6938
Lindi Rural	3472	55	0	0.0	0	0.0	496	7.8	1240	19.6	992	15.7	124	2.0	6324
Nachingwea	5549	77	470	6.5	94	1.3	94	1.3	188	2.6	752	10.4	94	1.3	7242
Liwale	3770	81	322	6.9	88	1.9	0	0.0	292	6.3	205	4.4	0	0.0	4676
Ruangwa	7821	82	0	0.0	0	0.0	76	0.8	607	6.3	1063	11.1	0	0.0	9568
Lindi Urban	1535	94	0	0.0	0	0.0	0	0.0	90	5.6	0	0.0	0	0.0	1625
Total	27903	77	871	2.4	182	0.5	745	2.0	3128	8.6	3327	9.1	218	0.6	36374

8.10: Number of households receiving extension advice on Mechanization and Labor Saving Technologies by District during the 2007/08 agriculture year

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Kilwa	4967	88	79	1.4	0	0.0	0	0.0	315	5.6	315	5.6	0	0.0	5677
Lindi Rural	3224	70	0	0.0	0	0.0	124	2.7	620	13.5	620	13.5	0	0.0	4588
Nachingwea	1505	52	0	0.0	0	0.0	0	0.0	188	6.5	1223	41.9	0	0.0	2915
Liwale	2397	84	29	1.0	0	0.0	0	0.0	380	13.3	58	2.0	0	0.0	2864
Ruangwa	6379	81	0	0.0	0	0.0	0	0.0	683	8.7	835	10.6	0	0.0	7897
Lindi Urban	1490	97	0	0.0	0	0.0	0	0.0	45	2.9	0	0.0	0	0.0	1535
Total	19961	78	108	0.4	0	0.0	124	0.5	2232	8.8	3052	12.0	0	0.0	25477

8.11: Number of Households receiving extension advice on Irrigation Technologies by District during the 2007/08 agriculture year

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Kilwa	1971	89	0	0.0	0	0.0	0	0.0	158	7.1	79	3.6	0	0.0	2208
Lindi Rural	1364	73	0	0.0	124	6.7	124	6.7	124	6.7	124	6.7	0	0.0	1860
Nachingwea	376	67	94	16.7	0	0.0	0	0.0	94	16.7	0	0.0	0	0.0	564
Liwale	906	60	58	3.8	0	0.0	0	0.0	468	30.8	88	5.8	0	0.0	1520
Ruangwa	911	36	0	0.0	0	0.0	0	0.0	759	30.3	835	33.3	0	0.0	2506
Lindi Urban	677	94	0	0.0	0	0.0	0	0.0	45	6.3	0	0.0	0	0.0	722
Total	6206	66	153	1.6	124	1.3	124	1.3	1648	17.6	1126	12.0	0	0.0	9380

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

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Kilwa	4,100	86.7	0	0.0	0	0.0	0	0.0	237	5.0	394	8.3	0	0.0	4,731
Lindi Rural	2,976	75.0	0	0.0	0	0.0	0	0.0	620	15.6	372	9.4	0	0.0	3,968
Nachingwea	2,351	50.0	94	2.0	0	0.0	0	0.0	188	4.0	1,975	42.0	94	2.0	4,702
Liwale	3,010	67.3	526	11.8	29	0.7	0	0.0	380	8.5	497	11.1	29	0.7	4,472
Ruangwa	5,923	82.1	0	0.0	0	0.0	0	0.0	683	9.5	532	7.4	76	1.1	7,214
Lindi Urban	1,174	89.7	0	0.0	0	0.0	0	0.0	90	6.9	45	3.4	0	0.0	1,309
Total	19,535	74.0	620	2.3	29	0.1	0	0.0	2,198	8.3	3,815	14.5	199	0.8	26,396

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

District	Source of Crop Extension														Total Number of Households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/Television/NewsPaper		Neighbour		Other (Specify)		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Kilwa	5283	85	0	0.0	79	1.3	79	1.3	158	2.5	631	10.1	0	0.0	6229
Lindi Rural	2480	63	248	6.3	0	0.0	0	0.0	0	0.0	1240	31.3	0	0.0	3968
Nachingwea	1035	52	94	4.8	0	0.0	0	0.0	94	4.8	658	33.3	94	4.8	1975
Liwale	3069	68	965	21.4	0	0.0	58	1.3	146	3.2	263	5.8	0	0.0	4501
Ruangwa	7062	91	0	0.0	0	0.0	0	0.0	76	1.0	607	7.8	0	0.0	7745
Lindi Urban	1400	97	0	0.0	0	0.0	0	0.0	45	3.1	0	0.0	0	0.0	1445
Total	20328	79	1307	5.1	79	0.3	137	0.5	519	2.0	3400	13.1	94	0.4	25863

CATTLE PRODUCTION

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

District	Households rearing cattle		Households not rearing cattle		Total Agriculture households	Total Number of Households Rearing Livestock
	Number	%	Number	%		
Kilwa	394	1.2	31,538	98.8	31,932	22,155
Lindi Rural	1,116	2.2	49,107	97.8	50,223	31,994
Nachingwea	1,129	3.0	36,960	97.0	38,089	26,803
Liwale	58	.5	11,779	99.5	11,837	9,411
Ruangwa	228	.7	30,526	99.3	30,754	17,921
Lindi Urban	90	2.2	3,973	97.8	4,063	2,348
Total	**3,015**	**1.8**	**163,883**	**98.2**	**166,898**	**110,632**

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

District	Indigenous			Improved Beef			Improved Dairy			Total		
	Number of households	Number of Cattle	Percentage	Number of households	Number of Cattle	Percentage	Number of households	Number of Cattle	Percentage	Number of households	Number of Cattle	Percentage
Kilwa	394	19,001	99.6	0	0	0.0	79	79	0.4	473	19,080	100
Lindi Rural	744	4,092	66.0	0	0	0.0	372	2,108	34.0	1,116	6,200	100
Nachingwea	564	2,445	57.8	0	0	0.0	658	1,787	42.2	1,223	4,232	100
Liwale	0	0	0.0	0	0	0.0	58	58	100.0	58	58	100
Ruangwa	152	911	92.3	0	0	0.0	76	76	7.7	228	987	100
Lindi Urban	0	0	0.0	45	135	60.0	45	90	40.0	90	226	100
Total	**1,854**	**26,450**	**85.9**	**45**	**135**	**0.4**	**1,289**	**4,199**	**13.6**	**3,188**	**30,784**	**100**

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

Cattle Types	Indigeneous	Improved Beef	Improved Diary	Total Cattle	%
Castrated Bulls (Oxen)	1,589	0	248	1,837	5
Uncastrated Bulls	1,965	45	496	2,506	12
Cows	9,947	45	1,337	11,329	30
Steers	811	0	0	811	4
Heifers	5,242	0	1,117	6,359	19
Male Calves	2,780	0	500	3,280	13
Female Calves	4,116	45	500	4,661	18
Total	**26,450**	**135**	**4,199**	**30,784**	**100**

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

District	Cattle Type															
	Castrated Bulls (Oxen)		Uncastrated Bulls		Cows		Steers		Heifers		Male Calves		Female Calves		Total	
	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%
Kilwa	1,419	5	1,577	19	7,490	24	315	10	3,706	14	2,050	14	2,444	14	19,001	100
Lindi Rural	.		124	8	1,364	38	496	8	744	15	372	8	992	23	4,092	100
Nachingwea	94	8	188	15	940	31	.		564	23	282	8	376	15	2,445	100
Liwale	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Ruangwa	76	13	76	13	152	25	.		228	13	76	13	304	25	911	100
Lindi Urban	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Total	1,589	5	1,965	14	9,947	30	811	6	5,242	17	2,780	10	4,116	19	26,450	100

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

District	Cattle Type															
	Castrated Bulls (Oxen)		Uncastrated Bulls		Cows		Steers		Heifers		Male Calves		Female Calves		Total	
	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%
Kilwa	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Lindi Rural	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Nachingwea	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Liwale	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Ruangwa	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Lindi Urban	.	.00	45	33.33	45	33	.	.00	.	.00	.	.00	45	33	135	100
Total	**.**	**.00**	**45**	**33.33**	**45**	**33**	**.**	**.00**	**.**	**.00**	**.**	**.00**	**45**	**33**	**135**	**100**

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

District	Cattle Type															
	Castrated Bulls (Oxen)		Uncastrated Bulls		Cows		Steers		Heifers		Male Calves		Female Calves		Total	
	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%	Total Cattle	%
Kilwa	.	.00	79	100.00	.	.00	.	.00	.	.00	.	.00	.	.00	79	100
Lindi Rural	248	11.11	372	11.11	620	33.33	.	.00	620	22.22	124	11.11	124	11.11	2,108	100
Nachingwea	.	.00	.	.00	658	33.33	.	.00	376	20.00	376	26.67	376	20.00	1,787	100
Liwale	.	.00	.	.00	58	100.00	.	.00	.	.00	.	.00	.	.00	58	100
Ruangwa	.	.00	.	.00	.	.00	.	.00	76	100.00	.	.00	.	.00	76	100
Lindi Urban	.	.00	45	50.00	.	.00	.	.00	45	50.00	.	.00	.	.00	90	100
Total	**248**	**4.38**	**496**	**8.76**	**1,337**	**31.82**	**.**	**.00**	**1,117**	**23.01**	**500**	**17.67**	**500**	**14.35**	**4,199**	**100**

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

District	Branding		Cattle Clan		Ear notching		Colour		Earings		Others		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Kilwa	158	33.3	237	50.0	0	.0	0	.0	0	.0	79	16.7	473	100
Lindi Rural	124	11.1	372	33.3	124	11.1	372	33.3	0	.0	124	11.1	1,116	100
Nachingwea	94	8.3	94	8.3	0	.0	846	75.0	0	.0	94	8.3	1,129	100
Liwale	0	.0	29	50.0	0	.0	0	.0	29	50.0	0	.0	58	100
Ruangwa	76	33.3	76	33.3	0	.0	76	33.3	0	.0	0	.0	228	100
Lindi Urban	0	.0	0	.0	0	.0	45	50.0	45	50.0	0	.0	90	100
Total	**452**	**14.6**	**808**	**26.1**	**124**	**4.0**	**1,340**	**43.3**	**74**	**2.4**	**297**	**9.6**	**3,094**	**100**

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

District	Wet Season			Dry Season		
	Improved Breed	Indigenous	Total	Improved Breed	Indigenous	Total
Kilwa	0	5,519	5,519	.	6,150	6,150
Lindi Rural	496	992	1,488	496	744	1,240
Nachingwea	470	564	1,035	470	470	940
Liwale	0	0	0	0	0	0
Ruangwa	0	0	0	0	0	0
Lindi Urban	45	0	45	45	0	45
Total	1,011	7,075	8,087	1,011	7,364	8,376

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

District	Wet Season			Dry Season		
	Improved Breed	Indigenous	Total	Improved Breed	Indigenous	Total
	Mean (ltr)	Mean (lts)	Mean (lts)	Mean (lts)	Mean (lts)	Mean (lts)
Kilwa	.	6	6	.	3	3
Lindi Rural	12	9	10	8	7	7
Nachingwea	7	4	5	7	5	6
Liwale	.	.	.	.	.	.
Ruangwa	.	.	.	.	.	.
Lindi Urban	5	.	5	5	.	5
Total	9	7	7	7	5	6

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

District	Wet Season			Dry Season		
	Improved Breed	Indigenous	Total	Improved Breed	Indigenous	Total
	Mean	Mean	Mean	Mean	Mean	Mean
Kilwa	.	129	129	.	113	113
Lindi Rural	72	6	34	59	6	26
Nachingwea	180	105	148	168	95	137
Liwale	.	.	.	.	.	.
Ruangwa	.	.	.	.	.	.
Lindi Urban	181	.	181	146	.	146
Total	130	67	93	117	58	81

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

District	Wet Season			Dry Season		
	Improved Breed	Indigenous	Total	Improved Breed	Indigenous	Total
	Mean	Mean	Mean	Mean	Mean	Mean
Kilwa	.	448	448	.	500	500
Lindi Rural	467	400	429	533	500	513
Nachingwea	575	523	553	575	502	544
Liwale	.	.	.	.	.	.
Ruangwa	.	.	.	.	1,000	1,000
Lindi Urban	400	.	400	400	.	400
Total	514	446	473	546	530	536

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

District	Number of milked cows		Average milk production per cow per day (lts)		Average number of days cows milked		Average price per litre per season (Tshs)	
	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season	Dry Season
Kilwa	5,519	6,150	6	3	129	113	448	500
Lindi Rural	1,488	1,240	10	7	34	26	429	513
Nachingwea	1,035	940	5	6	148	137	553	544
Liwale	.	.	.	.	.	.	.	.
Ruangwa	.	.	.	.	.	.	.	
Lindi Urban	45	45	5	5	181	146	400	400
Total	8,087	8,376	7	6	93	81	473	536

GOAT PRODUCTION

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

District	HH-Raising goats		HH-Not raising goats		Total	Total livestock keeping households
	No of households	%	No of households	%		
Kilwa	3,154	9.9	28,778	90.1	31,932	358,506
Lindi Rural	6,820	13.6	43,403	86.4	50,223	173,673
Nachingwea	2,351	6.2	35,738	93.8	38,089	241,008
Liwale	818	6.9	11,019	93.1	11,837	327,415
Ruangwa	1,898	6.2	28,855	93.8	30,754	296,963
Lindi Urban	406	10.0	3,657	90.0	4,063	172,692
Total	15,448	9.3	151,450	90.7	166,898	32,106

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

District	Indigenous			Improved for Meat			Improved Dairy			Total	
	Number of households	Number of Goats	%	Number of households	Number of Goats	%	Number of households	Number of Goats	%	Number of households	Number of Goats
Kilwa	3,154	59,764	100	0	0	0.0	0	0	0.0	3,154	59,764
Lindi Rural	6,572	62,252	95	0	0	0.0	620	3,100	4.7	7,192	65,352
Nachingwea	2,257	14,295	88	94	94	0.6	188	1,881	11.6	2,539	16,270
Liwale	818	5,407	100	0	0	0.0	0	0	0.0	818	5,407
Ruangwa	1,898	10,859	100	0	0	0.0	0	0	0.0	1,898	10,859
Lindi Urban	406	1,671	100	0	0	0.0	0	0	0.0	406	1,671
Total	15,106	154,247	97	94	94	0.1	808	4,981	3.1	16,009	159,322

9.15: Number of Households Rearing Goats, Head of Goats and Average Head per Household by Flock Size as of 1st October 2008- LINDI

Flock Size	Goat Rearing Households	%	Heard of Goat	Average Number of Goat Per Household
1 - 4	31,518	77	64,162	2
5 - 9	6,354	15	40,078	6
10 - 14	2,167	5	23,055	11
15 - 19	597	1	9,801	16
20 - 24	108	0	2,515	23
25 - 29	158	0	3,942	25
40+	237	1	15,769	67
Total	**41,138**	**100**	**159,322**	**4**

9.16: Total Number of Goats by Category and Type of Goat as of 1st October 2008

Category	Indigenous		Improved Meat		Improved Dairy		Total	
	Number	%	Number	%	Number	%	Number	%
Billy Goats	9,907	25,662	0	0	466	1,809	27,471	17.2
She Goats	904	3,851	0	0	124	124	3,975	2.5
Castrated Goat	13,631	77,011	94	94	248	372	77,477	48.6
Male Kid	7,903	23,659	0	0	342	2,057	25,715	16.1
She Kid	7,613	24,064	0	0	372	620	24,684	15.5
Total	39,958	154,247	94	94	1,552	4,981	159,322	**100**

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

District	Goat Type											
	Billy Goat		Castrated Goat		She Goat		Male Kid		She Kid		Total	
	Total Goat	%	Total Goat	%	Total Goat	%	Total Goat	%	Total Goat	%	Total Goat	%
Kilwa	9,540	16	2,129	4	30,039	50	8,279	14	9,777	16	59,764	100
Lindi Rural	10,045	16	1,488	2	30,506	49	10,293	17	9,921	16	62,252	100
Nachingwea	2,257	16	.	.	7,618	53	2,351	16	2,069	14	14,295	100
Liwale	906	17	234	4	3,040	56	643	12	585	11	5,407	100
Ruangwa	2,734	25	.	.	4,860	45	1,822	17	1,443	13	10,859	100
Lindi Urban	181	11	.	.	948	57	271	16	271	16	1,671	100
Total	25,662	17	3,851	2	77,011	50	23,659	15	24,064	16	154,247	100

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

District	Goat Type											
	Billy Goat		Castrated Goat		She Goat		Male Kid		She Kid		Total	
	Total Goat	%	Total Goat	%	Total Goat	%	Total Goat	%	Total Goat	%	Total Goat	%
Kilwa	.	.	.	.	.	.	.	.	.	.	.	.
Lindi Rural	.	.	.	.	.	.	.	.	.	.	.	.
Nachingwea	.	.	.	.	94	100	.	.	.	.	94	100
Liwale	.	.	.	.	.	.	.	.	.	.	.	.
Ruangwa	.	.	.	.	.	.	.	.	.	.	.	.
Lindi Urban	.	.	.	.	.	.	.	.	.	.	.	.
Total	.	.	.	.	94	100	.	.	.	.	94	100

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

District	Goat Type											
	Billy Goat		Castrated Goat		She Goat		Male Kid		She Kid		Total	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
Kilwa	.	.	.	.	.	.	.	.	.	.	.	.
Lindi Rural	868	28.00	124	4.0	372	12.0	1,116	36.0	620	20.0	3,100	100
Nachingwea	940	50.00	.	.	.	.	940	50.0	.	.	1,881	100
Liwale	.	.	.	.	.	.	.	.	.	.	.	.
Ruangwa	.	.	.	.	.	.	.	.	.	.	.	.
Lindi Urban	.	.	.	.	.	.	.	.	.	.	.	.
Total	1,809	36.31	124	2.5	372	7.5	2,057	41.3	620	12.4	4,981	100

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

District	Number of Milked goat		Average milk production per goat per day (lts)		Average number of days for goats on milked		Average price per litre per season (Tshs)	
	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season	Dry Season	Wet Season	Dry Season
Kilwa	0	0	0	0	0	0	0	0
Lindi Rural	0	0	0	0	0	0	0	0
Nachingwea	0	0	0	0	0	0	0	0
Liwale	0	0	0	0	0	0	0	0
Ruangwa	0	0	0	0	0	0	0	0
Lindi Urban	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0

SHEEP PRODUCTION

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

District	Number of households raising or managing sheep	%	Number of households not raising or managing sheep	%	Number of agriculture households	Total livestock keeping households
Kilwa	237	1.1	21,918	98.9	31,932	22,155
Lindi Rural	124	.4	31,870	99.6	50,223	31,994
Nachingwea	282	1.1	26,521	98.9	38,089	26,803
Liwale	58	.6	9,353	99.4	11,837	9,411
Ruangwa	380	2.1	17,541	97.9	30,754	17,921
Lindi Urban	0	.0	2,348	100.0	4,063	2,348
Total	**1,081**	**1.0**	**109,551**	**99.0**	**166,898**	**110,632**

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

Districts	Total				
	Number of Indigenous	%	Number of Improved for Mutton	%	Total Sheep
Kilwa	1,971	100	0	0.0	1,971
Lindi Rural	372	100	0	0.0	372
Nachingwea	1,035	100	0	0.0	1,035
Liwale	88	100	0	0.0	88
Ruangwa	1,443	100	0	0.0	1,443
Lindi Urban	0	0	0	0.0	0
Total	4,908	100	0	0.0	4,908

9.23: Total Number of Indigenous Sheep by Category of Sheep and District as of 1st October 2007/08 Agriculture year

District	Number of Indigenous					Total
	Ram	Castrated Sheep	She Sheep	Male Lamb	She Lamb	
Kilwa	315	237	946	79	394	1,971
Lindi Rural	.	.	372	.	.	372
Nachingwea	376	.	658	.	.	1,035
Liwale	58	.	29	.	.	88
Ruangwa	228	.	911	.	304	1,443
Lindi Urban	.	.	.	.	.	.
Total	978	237	2,917	79	698	4,908

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

District	Number of Improved					Total
	Ram	Castrated Sheep	She Sheep	Male Lamb	She Lamb	
Kilwa	0	0	0	0	0	0
Lindi Rural	0	0	0	0	0	0
Nachingwea	0	0	0	0	0	0
Liwale	0	0	0	0	0	0
Ruangwa	0	0	0	0	0	0
Lindi Urban	0	0	0	0	0	0
Total	0	0	0	0	0	0

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

District	Sheep Rearing Households	%	Heard of Sheep	Average Per Houseold
1 - 4	753	69.68	2,062	3
5 - 9	249	23.02	1,742	7
10 - 14	79	7.29	1,104	14
Total	1,081	100.00	4,908	5

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

Category	Number of Indigenous	%	Number of Improved	%	Total	%
Rams	978	100	0	0	978	20
She Sheep	237	100	0	0	237	5
Castrated Sheep	2,917	100	0	0	2,917	59
Male Lamb	79	100	0	0	79	2
Female Lamb	698	100	0	0	698	14
Total	4,908	**100**	0	**0**	4,908	**100**

PIG PRODUCTION

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

District	During the 2007/2008 Agriculture Year					
	rearing Pigs		Not rearing pigs		Total	
	No of households	%	No of households	%	No of households	%
Kilwa	0	0	31,932	100	31,932	100
Lindi Rural	0	0	50,223	100	50,223	100
Nachingwea	1,317	3	36,772	97	38,089	100
Liwale	0	0	11,837	100	11,837	100
Ruangwa	607	2	30,146	98	30,754	100
Lindi Urban	0	0	4,063	100	4,063	100
Total	**1,924**	**1**	**164,974**	**99**	**166,898**	**100**

9.28: Number of Households rearing Pig, Head of Pig and AverageHead per Household by Flock size During the 2007/08 Agricultural Year -

Flock Size	Pig rearing households		Flock of pigs	Average Number of Pigs Per Household
	Number	%	Number	
1 - 4	1,396	73	3,096	2
5 – 9	376	20	2,069	6
10 – 14	76	4	759	10
15 – 19	76	4	1,139	15
Total	**1,924**	**100**	**7,063**	**33**

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

District	Pig Type					
	Boar	Castrated Male	Sow / Gilt	Male Piglet	She Piglet	Total
Kilwa	`	0	0	0	0	0
Lindi Rural	0	0	0	0	0	0
Nachingwea	282	0	2,633	1,035	0	3,950
Liwale	0	0	0	0	0	0
Ruangwa	911	152	1,595	76	380	3,113
Lindi Urban	0	0	0	0	0	0
Total	**1,193**	**152**	**4,228**	**1,110**	**380**	**7,063**

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

District	Number of households	Number of pigs	Average per household
Kilwa	0	0	0
Lindi Rural	0	0	0
Nachingwea	1,317	3,950	3
Liwale	0	0	0
Ruangwa	607	3,113	5
Lindi Urban	0	0	0
Total	1,924	7,063	4

CHICKEN AND OTHER LIVESTOCK

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

District	Indigineous chicken			Layers			Broilers			Total	
	Number of Households	Number of Indigineous Chicken	%	Number of Households	Number of Layers	%	Number of Households	Number of Broilers	%	Number of Households	Number of Chicken
Kilwa	20,894	478,897	99	394	6,229	1	79	79	0	21,209	485,205
Lindi Rural	30,506	413,688	100	248	1,364	0	0	0	0	30,754	415,052
Nachingwea	25,581	312,798	99	94	2,351	1	0	0	0	25,675	315,149
Liwale	9,295	125,330	93	117	1,315	1	29	8,768	6	9,382	135,413
Ruangwa	16,706	203,354	99	228	1,519	1	0	0	0	16,858	204,873
Lindi Urban	2,257	18,782	100	0	0	0	0	0	0	2,257	18,782
Total	**105,238**	**1,552,850**	**99**	**1,081**	**12,778**	**1**	**108**	**8,847**	**1**	**106,135**	**1,574,475**

9.32: 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 Chicken	%	Number of Chicken Per Household	Number of households	Number of Chicken	%	Number of Chicken Per Household	Number of households	Number of Chicken	%	Number of Chicken Per Household
1-49	101,497	1,311,960	99	13	1,002	8,836	1	9	79	79	0	1
50-99	3,347	188,064	98	56	79	3,942	2	50	0	0	0	0
100-299	394	52,825	100	134	0	0	0	0	0	0	0	0
300-499	0	0	0	0	0	0	0	0	29	8,768	100	300
Total	**105,238**	**1,552,850**	**99**	**15**	**1,081**	**12,778**	**1**	**12**	**108**	**8,847**	**1**	**82**

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

Region	Ducks	Guine pigs	Turkeys	Rabbits	Donkeys	Horses	Dogs
Kilwa	5,913	6,071	0	0	0	0	946
Lindi Rural	5,704	0	0	0	744	0	744
Nachingwea	18,245	0	4,796	0	0	0	1,317
Liwale	3,887	0	0	0	0	0	848
Ruangwa	1,747	0	0	0	0	0	0
Lindi Urban	90	0	0	0	0	0	0
Total	**35,587**	**6,071**	**4,796**	**0**	**744**	**0**	**3,854**

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

Type	Chicken		Others	
	Number	%	Type	Number
Indigenous Chicken	1,552,850	98.6	Ducks	35,587
Layer	12,778	0.8	Guine pigs	6,071
Broiler	8,847	0.6	Turkeys	4,796
			Rabbits	0
			Donkeys	744
			Horses	**0**
			Dogs	3,854
TOTAL	**1,574,475**	**100**		**51,053**

PESTS AND PARASITES

9.35: Number of Livestock Rearing households deworming Livestock by District during 2007/08 Agriculture Year

District	Deworming Livestock		Not Deworm Livestock		Total	
	Number	%	Number	%	Number of Livestock Rearing households	%
Kilwa	2,286	10	19,869	90	22,155	100
Lindi Rural	4,216	13	27,902	87	32,118	100
Nachingwea	4,232	16	22,289	84	26,521	100
Liwale	1,695	18	7,775	82	9,470	100
Ruangwa	4,708	26	13,744	74	18,452	100
Lindi Urban	542	22	1,941	78	2,483	100
Total	**17,680**	**16**	**93,520**	**84**	**111,199**	**100**

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

District	Cattle				Goats/Sheep				Pigs			
	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
Kilwa	315	0	1,971	2,286	1,104	315	946	2,365	0	79	2,208	2,286
Lindi Rural	744	0	3,472	4,216	2,232	0	1,984	4,216	124	0	4,092	4,216
Nachingwea	1,035	94	3,104	4,232	1,129	470	2,445	4,044	376	376	3,574	4,326
Liwale	58	29	1,608	1,695	672	29	994	1,695	0	58	1,637	1,695
Ruangwa	228	76	4,480	4,784	1,367	152	3,265	4,784	607	0	4,328	4,936
Lindi Urban	90	0	451	542	45	0	497	542	0	0	542	542
Total	**2,470**	**199**	**15,086**	**17,756**	**6,549**	**967**	**10,131**	**17,646**	**1,108**	**513**	**16,380**	**18,002**

9.37: 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	%
Kilwa	1,892	9	1,025	5	19,238	87	22,155	100
Lindi Rural	1,240	4	5,828	18	25,173	78	32,242	100
Nachingwea	1,881	7	1,881	7	22,759	86	26,521	100
Liwale	468	5	409	4	8,476	91	9,353	100
Ruangwa	1,063	6	1,139	6	15,794	88	17,997	100
Lindi Urban	135	5	316	13	2,032	82	2,483	100
Total	**6,679**	**6**	**10,599**	**10**	**93,473**	**84**	**110,751**	**100**

9.38: 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	%
Kilwa	158	1	946	4	2,286	10	18,686	84	79	0	22,155	100
Lindi Rural	248	1	1,240	4	2,480	8	28,150	88	0	0	32,118	100
Nachingwea	846	3	564	2	282	1	24,734	93	94	0	26,521	100
Liwale	88	1	146	2	58	1	9,090	97	0	0	9,382	100
Ruangwa	76	0	532	3	532	3	16,858	94	0	0	17,997	100
Lindi Urban	0	0	181	7	90	4	2,212	89	0	0	2,483	100
Total	**1,416**	**1.3**	**3,609**	**3.3**	**5,729**	**5.2**	**99,730**	**90**	**173**	**0.2**	**110,656**	**100**

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

District	Households Encoutering Tsetse problems		Households Without Tsetse Problems		Not Applicable		Total	
	Number	%	Number	%	Number	%	Number	%
Kilwa	473	2	2,208	10	19,474	88	22,155	100
Lindi Rural	248	1	6,448	20	25,421	79	32,118	100
Nachingwea	564	2	2,257	9	23,700	89	26,521	100
Liwale	351	4	555	6	8,476	90	9,382	100
Ruangwa	380	2	2,278	13	15,339	85	17,997	100
Lindi Urban	45	2	451	18	1,987	80	2,483	100
Total	**2,061**	**2**	**14,198**	**13**	**94,397**	**85**	**110,656**	**100**

9.40: 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	%
Kilwa	158	1	158	1	2,286	10	19,553	88	0	0	22,155	100
Lindi Rural	124	0	620	2	2,480	8	28,894	90	0	0	32,118	100
Nachingwea	376	1	470	2	564	2	25,016	94	94	0	26,521	100
Liwale	0	0	117	1	58	1	9,178	98	29	0	9,382	100
Ruangwa	76	0	304	2	532	3	17,085	95	0	0	17,997	100
Lindi Urban	0	0	90	4	90	4	2,303	93	0	0	2,483	100
Total	**734**	**0.7**	**1,759**	**1.6**	**6,011**	**5.4**	**102,029**	**92.2**	**123**	**0.1**	**110,656**	**100**

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

District	Households Encoutering Newcastle Disease problems		Households NOT Encoutering Newcastle Disease problems		Not Applicable		Total	
	Number	%	Number	%	Number	%	Number	%
Kilwa	18,607	84	2,760	12	788	4	22,155	100
Lindi Rural	24,925	78	5,828	18	1,364	4	32,118	100
Nachingwea	21,537	81	4,420	17	564	2	26,521	100
Liwale	6,226	66	3,127	33	29	0	9,382	100
Ruangwa	10,175	57	6,758	38	1,063	6	17,997	100
Lindi Urban	1,896	76	406	16	181	7	2,483	100
Total	**83,366**	**75**	**23,300**	**21**	**3,990**	**4**	**110,656**	**100**

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

District	Vaccination		Local Herbs		None		Total	
	Number	%	Number	%	Number	%	Number	%
Kilwa	6,386	29	5,519	25	10,250	46	22,155	100
Lindi Rural	3,844	12	6,448	20	21,825	68	32,118	100
Nachingwea	1,693	6	3,386	13	21,443	81	26,521	100
Liwale	468	5	1,637	17	7,278	78	9,382	100
Ruangwa	1,747	10	1,974	11	14,276	79	17,997	100
Lindi Urban	451	18	587	24	1,445	58	2,483	100
Total	**14,589**	**13**	**19,551**	**18**	**76,516**	**69**	**110,656**	**100**

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

District	Households Encoutering Fowl Typhoid Disease problems		Households NOT Encoutering Fowl Typhoid Disease problems		Not Applicable		Total	
	Number	%	Number	%	Number	%	Number	%
Kilwa	8,121	37	13,246	60	788	4	22,155	100
Lindi Rural	9,177	29	21,081	66	1,860	6	32,118	100
Nachingwea	14,013	53	11,850	45	658	2	26,521	100
Liwale	3,478	37	5,846	62	58	1	9,382	100
Ruangwa	2,658	15	14,276	79	1,063	6	17,997	100
Lindi Urban	993	40	1,219	49	271	11	2,483	100
Total	**38,439**	**35**	**67,517**	**61**	**4,699**	**4**	**110,656**	**100**

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

District	Vaccination		Local Herbs		None		Total	
	Number	%	Number	%	Number	%	Number	%
Kilwa	1,971	9	3,548	16	16,715	75	22,234	100
Lindi Rural	868	3	3,100	10	28,274	88	32,242	100
Nachingwea	564	2	1,975	7	23,982	90	26,521	100
Liwale	322	3	818	9	8,242	88	9,382	100
Ruangwa	152	1	1,595	9	16,250	90	17,997	100
Lindi Urban	90	4	587	24	1,806	73	2,483	100
Total	**3,967**	**4**	**11,623**	**10**	**95,269**	**86**	**110,859**	**100**

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

District	Households Encoutering Foot and Mouth Disease		Households NOT Encoutering Foot and Mouth Disease		Not Applicable		Total	
	Number	%	Number	%	Number	%	Number	%
Kilwa	158	1	552	3	19,711	97	20,421	100
Lindi Rural	124	0	1,364	4	29,142	95	30,630	100
Nachingwea	0	0	1,129	4	24,076	96	25,204	100
Liwale	0	0	234	2	9,178	98	9,411	100
Ruangwa	0	0	607	4	16,022	96	16,630	100
Lindi Urban	0	0	90	4	2,393	96	2,483	100
Total	**282**	**0**	**3,976**	**4**	**100,521**	**96**	**104,779**	**100**

9.46: Number of Livestock Rearing Households normally Encountering Lympyskin Disease Problems by Region during 2007/08 Agriculture Year

Region	Households Encoutering Lympyskin Disease		Households NOT Encoutering Lympyskin Disease		Not Applicable		Total	
	Number	%	Number	%	Number	%	Number	%
Kilwa	0	0	710	3	19,711	97	20,421	100
Lindi Rural	0	0	1,364	4	29,266	96	30,630	100
Nachingwea	188	1	940	4	24,076	96	25,204	100
Liwale	0	0	263	3	9,148	97	9,411	100
Ruangwa	76	0	532	3	16,098	96	16,706	100
Lindi Urban	0	0	90	4	2,393	96	2,483	100
Total	**264**	**0**	**3,899**	**4**	**100,692**	**96**	**104,855**	**100**

LIVESTOCK EXTENSION

9.47: Number of households receiving Livestock Extension advice by District during the 2007/08 agriculture year

District	Receiving Livestock services		Not Receiving Livestock Extension services		Total livestock keepers
	Number	%	Number	%	
Kilwa	2,681	12	19,474	88	22,155
Lindi Rural	8,681	27	23,313	73	31,994
Nachingwea	4,514	17	22,289	83	26,803
Liwale	2,689	29	6,722	71	9,411
Ruangwa	4,100	23	13,820	77	17,921
Lindi Urban	1,400	60	948	40	2,348
Total	**24,065**	**22**	**86,568**	**78**	**110,632**

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

District	Source of Livestock Extension												Number of Household receiving livestock Extension
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Kilwa	2,523	94.1	79	2.9	0	0.0	79	2.9	79	2.9	79	2.9	2,681
Lindi Rural	7,440	85.7	248	2.9	248	2.9	248	2.9	496	5.7	1,116	12.9	8,681
Nachingwea	3,950	87.5	564	12.5	94	2.1	94	2.1	0	0.0	470	10.4	4,514
Liwale	2,163	80.4	438	16.3	175	6.5	0	0.0	322	12.0	322	12.0	2,689
Ruangwa	3,797	92.6	0	0.0	152	3.7	0	0.0	456	11.1	152	3.7	4,100
Lindi Urban	1,354	96.8	0	0.0	0	0.0	0	0.0	45	3.2	226	16.1	1,400
Total	**21,227**	**88.2**	**1,330**	**5.5**	**669**	**2.8**	**421**	**1.7**	**1,397**	**5.8**	**2,364**	**9.8**	**24,065**

9.49: Number of Agriculture Households Receiving Advice on Feeds and Proper Feeding by Source and District During 2007/08griculture 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)	%	
Kilwa	710	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	710
Lindi Rural	992	66.7	124	8.3	0	0.0	0	0.0	0	0.0	248	16.7	0	0.0	1,488
Nachingwea	1,787	95.0	94	5.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1,881
Liwale	672	71.9	175	18.8	0	0.0	0	0.0	0	0.0	29	3.1	0	0.0	935
Ruangwa	152	66.7	0	0.0	0	0.0	0	0.0	0	0.0	76	33.3	0	0.0	228
Lindi Urban	406	90.0	0	0.0	0	0.0	0	0.0	0	0.0	45	10.0	0	0.0	451
Total	**4,719**	**82.9**	**393**	**6.9**	**0**	**0.0**	**0**	**0.0**	**0**	**0.0**	**398**	**7.0**	**0**	**0.0**	**5,693**

9.50: 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)	%	
Kilwa	1,656	87.5	79	4.2	0	0.0	79	4.2	0	0.0	79	4.2	0	0.0	1,892
Lindi Rural	3,472	75.7	0	0.0	124	2.7	0	0.0	124	2.7	868	18.9	0	0.0	4,588
Nachingwea	3,104	91.7	94	2.8	0	0.0	94	2.8	0	0.0	94	2.8	0	0.0	3,386
Liwale	1,637	71.8	263	11.5	0	0.0	0	0.0	234	10.3	146	6.4	0	0.0	2,280
Ruangwa	2,354	91.2	0	0.0	0	0.0	0	0.0	152	5.9	76	2.9	0	0.0	2,582
Lindi Urban	451	83.3	0	0.0	0	0.0	0	0.0	0	0.0	90	16.7	0	0.0	542
Total	**12,674**	**83.0**	**436**	**2.9**	**124**	**0.8**	**173**	**1.1**	**510**	**3.3**	**1,353**	**8.9**	**0**	**0.0**	**15,270**

9.51: Number of households receiving extension advice on ProperMilking and Milk Hygene 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)	%	
Kilwa	237	100	0	0	0	0	0	0	0	0	0	0	0	0	237
Lindi Rural	372	100	0	0	0	0	0	0	0	0	0	0	0	0	372
Nachingwea	470	83	0	0	0	0	0	0	0	0	94	17	0	0	564
Liwale	205	47	0	0	0	0	0	0	146	33	88	20	0	0	438
Ruangwa	76	100	0	0	0	0	0	0	0	0	0	0	0	0	76
Lindi Urban	45	100	0	0	0	0	0	0	0	0	0	0	0	0	45
Total	**1,404**	**81**	**0**	**0**	**0**	**0**	**0**	**0**	**146**	**8**	**182**	**10**	**0**	**0**	**1,732**

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

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Kilwa	79	100.0	0	0.0	0	0.0	632	801.7	0	0.0	0	0.0	0	0.0	79
Lindi Rural	372	75.0	0	0.0	178	35.9	711	143.3	0	0.0	124	25.0	89	18.0	496
Nachingwea	376	100.0	0	0.0	288	76.5	721	191.8	0	0.0	0	0.0	140	37.1	376
Liwale	117	36.4	29	9.1	45	14.1	195	60.8	175	54.5	0	0.0	0	0.0	322
Ruangwa	0	0.0	0	0.0	284	0.0	105	0.0	0	0.0	0	0.0	35	0.0	0
Lindi Urban	0	0.0	0	0.0	415	0.0	58	0.0	0	0.0	0	0.0	45	0.0	0
Total	**944**	**74.2**	**29**	**2.3**	**42**	**3.3**	**149**	**11.7**	**175**	**13.8**	**124**	**9.7**	**85**	**6.7**	**1,273**

9.53: Number of households receiving extension adviceon 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)	%	
Kilwa	1,419	94.7	0	0.0	0	0.0	0	0.0	79	5.3	0	0.0	0	0.0	1,498
Lindi Rural	4,464	90.0	0	0.0	0	0.0	0	0.0	248	5.0	248	5.0	0	0.0	4,960
Nachingwea	1,975	80.8	376	15.4	94	3.8	0	0.0	0	0.0	0	0.0	0	0.0	2,445
Liwale	994	79.1	88	7.0	0	0.0	0	0.0	146	11.6	29	2.3	0	0.0	1,257
Ruangwa	2,582	94.4	0	0.0	0	0.0	0	0.0	152	5.6	0	0.0	0	0.0	2,734
Lindi Urban	1,038	95.8	0	0.0	0	0.0	0	0.0	0	0.0	45	4.2	0	0.0	1,084
Total	**12,472**	**89.2**	**464**	**3.3**	**94**	**0.7**	**0**	**0.0**	**625**	**4.5**	**322**	**2.3**	**0**	**0.0**	**13,978**

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

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Kilwa	473	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	473
Lindi Rural	744	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	744
Nachingwea	376	80.0	0	0.0	0	0.0	0	0.0	0	0.0	94	20.0	0	0.0	470
Liwale	292	62.5	0	0.0	0	0.0	0	0.0	146	31.3	29	6.3	0	0.0	468
Ruangwa	304	80.0	0	0.0	0	0.0	0	0.0	76	20.0	0	0.0	0	0.0	380
Lindi Urban	45	50.0	0	0.0	0	0.0	0	0.0	45	50.0	0	0.0	0	0.0	90
Total	**2,234**	**85.1**	**0**	**0.0**	**0**	**0.0**	**0**	**0.0**	**267**	**10.2**	**123**	**4.7**	**0**	**0.0**	**2,625**

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

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Kilwa	158	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	158
Lindi Rural	124	33.3	124	33.3	0	0.0	0	0.0	0	0.0	124	33.3	0	0.0	372
Nachingwea	376	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	376
Liwale	117	36.4	0	0.0	0	0.0	0	0.0	146	45.5	58	18.2	0	0.0	322
Ruangwa	76	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	76
Lindi Urban	135	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	135
Total	**986**	**68.5**	**124**	**8.6**	**0**	**0.0**	**0**	**0.0**	**146**	**10.2**	**182**	**12.7**	**0**	**0.0**	**1,439**

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

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Kilwa	552	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	552
Lindi Rural	620	71.4	124	14.3	124	14.3	0	0.0	0	0.0	0	0.0	0	0.0	868
Nachingwea	1,505	80.0	94	5.0	94	5.0	0	0.0	0	0.0	188	10.0	0	0.0	1,881
Liwale	1,081	69.8	292	18.9	88	5.7	0	0.0	29	1.9	58	3.8	0	0.0	1,549
Ruangwa	1,898	78.1	0	0.0	152	6.3	0	0.0	228	9.4	76	3.1	76	3.1	2,430
Lindi Urban	813	94.7	0	0.0	0	0.0	0	0.0	0	0.0	45	5.3	0	0.0	858
Total	**6,469**	**79.5**	**510**	**6.3**	**458**	**5.6**	**0**	**0.0**	**257**	**3.2**	**368**	**4.5**	**76**	**0.9**	**8,138**

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

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Kilwa	315	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	315
Lindi Rural	620	83.3	124	16.7	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	744
Nachingwea	752	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	752
Liwale	292	43.5	88	13.0	88	13.0	0	0.0	58	8.7	146	21.7	0	0.0	672
Ruangwa	152	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	152
Lindi Urban	135	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	135
Total	**2,267**	**81.8**	**212**	**7.6**	**88**	**3.2**	**0**	**0.0**	**58**	**2.1**	**146**	**5.3**	**0**	**0.0**	**2,771**

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

Dist8ict	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)	%	
Kilwa	79	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	79
Lindi Rural	248	66.7	0	0.0	0	0.0	124	33.3	0	0.0	0	0.0	0	0.0	372
Nachingwea	470	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	470
Liwale	29	25.0	0	0.0	0	0.0	0	0.0	58	50.0	29	25.0	0	0.0	117
Ruangwa	76	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	76
Lindi Urban	90	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	90
Total	**993**	**82.4**	**0**	**0.0**	**0**	**0.0**	**124**	**10.3**	**58**	**4.9**	**29**	**2.4**	**0**	**0.0**	**1,204**

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

District	Source of Livestock Extension														Total Number of households
	Government		NGO/Dev project		Cooperative		Large scale farmer		Radio/TV/Newspapers		Neighbour		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Other (Specify)	%	
Kilwa	79	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	79
Lindi Rural	248	66.7	0	0.0	0	0.0	124	33.3	0	0.0	0	0.0	0	0.0	372
Nachingwea	564	85.7	94	14.3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	658
Liwale	234	72.7	29	9.1	0	0.0	0	0.0	29	9.1	29	9.1	0	0.0	322
Ruangwa	76	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	76
Lindi Urban	181	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	181
Total	**1,381**	**81.9**	**123**	**7.3**	**0**	**0.0**	**124**	**7.3**	**29**	**1.7**	**29**	**1.7**	**0**	**0.0**	**1,687**

FISH FARMING

9.60: 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				
	Yes	%	No	%	Total
Kilwa	0	0.0	31,932	100	31,932
Lindi Rural	0	0.0	50,223	100	50,223
Nachingwea	0	0.0	38,089	100	38,089
Liwale	0	0.0	11,837	100	11,837
Ruangwa	0	0.0	30,754	100	30,754
Lindi Urban	0	0.0	4,063	100	4,063
Total	**0**	**0.0**	**166,898**	**100**	**166,898**

BEE KEEPING

9.61: 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	%
Kilwa	237	.7	31,695	99.3	31,932	100
Lindi Rural	124	.2	50,099	99.8	50,223	100
Nachingwea	0	.0	38,089	100.0	38,089	100
Liwale	205	1.7	11,633	98.3	11,837	100
Ruangwa	0	.0	30,754	100.0	30,754	100
Lindi Urban	0	.0	4,063	100.0	4,063	100
Total	**565**	**.3**	**166,333**	**99.7**	**166,898**	**100**

9.62: Number of Agricultural Households By Honey production/Collection and District, 2007/08 Agricultural Year

District	Number of Agricultural Households that Poduced/Collected Honey				Number of Agricultural Households that did NOT Poduce/Collect Honey		Total		
	Stingless Bee	Sting Bee	Total	Stingless Bee	Sting Bee	Total	Stingless Bee	Sting Bee	Total
Kilwa	79	158	237	0	0	0	79	158	237
Lindi Rural	0	124	124	0	0	0	0	124	124
Liwale	0	175	175	0	29	29	0	205	205
Total	**79**	**457**	**536**	**0**	**29**	**29**	**79**	**486**	**565**

9.63: Number of Agricultural Households, type of bee Hives and type of bees and District , 2007/08 Agricultural Year

District	Number of Improved Bee Hives						Number of Local Bee Hives					
	Stingless Bee		Sting Bee		Total		Stingless Bee		Sting Bee		Total	
	Number of households	Number of Hives	Number of households	Number of Hives	Number of households	Number of Hives	Number of households	Number of Hives	Number of households	Number of Hives	Number of households	Number of Hives
Kilwa	79	0	158	946	237	946	79	158	158	1,656	237	1,813
Lindi Rural	0	.	124	0	124	0	0	.	124	744	124	744
Liwale	0	.	205	0	205	0	0	.	205	5,378	205	5,378
Total	**79**	**0**	**486**	**946**	**565**	**946**	**79**	**158**	**486**	**7,778**	**565**	**7,935**

9.64: Number of Agricultural Households By Honey production/Collection and District, 2007/08 Agricultural Year

Region	Stingless Bee				Sting Bee				Total	
	Honey Harvested		Honey Sold		Honey Harvested		Honey Sold		Honey Sold	Honey Harvested
	Quantity (lts)	%	Quantity (lts)	%	Quantity (lts)	%	Quantity (lts)	%		
Kilwa	1,971	9.8	1,577	8.9	18,134	90.2	16,163	91.1	17,740	20,105
Lindi Rural	0	0.0	0	0.0	2,480	100.0	2,480	100.0	2,480	2,480
Nachingwea	0	0.0	0	0.0	0	0.0	0	0.0	0	0
Liwale	0	0.0	0	0.0	8,330	100.0	5,407	100.0	5,407	8,330
Ruangwa	0	0.0	0	0.0	0	0.0	0	0.0	0	0
Lindi Urban	0	0.0	0	0.0	0	0.0	0	0.0	0	0
Total	**1,971**	**6.4**	**1,577**	**6.2**	**28,944**	**94**	**24,050**	**93.8**	**25,627**	**30,915**

9.65: Average price of Honey (Tshs/litre) by Type of Honey and District during the 2007/08 Agriculture Year

District	Stingless Bee (Average Price per Litre)	Sting Bee (Average Price per Litre)	Average Price Per Litre
Kilwa	1,500	1,250	1,333
Lindi Rural	.	3,000	3,000
Nachingwea	.	.	.
Liwale	0	1,243	1,243
Ruangwa	.	.	.
Lindi Urban	.	.	.
Total	**1,500**	**1,693**	**1,666**

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

District	Neighbour		Trade at farm		Did not sell		Total	
	Stingless Bee	Stingbee	Stingless Bee	Stingbee	Stingless Bee	Stingbee	Stingless Bee	Stingbee
Kilwa	79	158	.	0	0		79	158
Lindi Rural	0	124	.	0	0	.	.	124
Nachingwea	.	.	.	0	0	.	.	.
Liwale	0	88	0	88	0	29	0	205
Ruangwa	.	.	.	0	0	.	.	0
Lindi Urban	0	0	.	0	0	.	.	0
Total	**79**	**370**	**0**	**88**	**0**	**29**	**79**	**486**

AGRICULTURE CONSTRAINTS

9.67: 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	%
Kilwa	946	2.96	237	0.74	11,275	35.31	79	0.25
Lindi Rural	1,488	2.96	744	1.48	14,137	28.15	744	1.48
Nachingwea	376	0.99	188	0.49	19,185	50.37	2,163	5.68
Liwale	29	0.25	29	0.25	5,875	49.63	146	1.23
Ruangwa	2,050	6.67	607	1.98	18,680	60.74	532	1.73
Lindi Urban	271	6.67	0	0.00	1,987	48.89	226	5.56
Total	**5,161**	**3.09**	**1,805**	**1.08**	**71,138**	**42.62**	**3,889**	**2.33**

Cont….

Cont. 9.67: 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	%
Kilwa	867	2.72	79	0.25	473	1.48	631	1.98
Lindi Rural	2,108	4.20	496	0.99	992	1.98	3,844	7.65
Nachingwea	2,445	6.42	282	0.74	1,129	2.96	3,386	8.89
Liwale	555	4.69	146	1.23	351	2.96	1,695	14.32
Ruangwa	1,063	3.46	76	0.25	380	1.23	835	2.72
Lindi Urban	135	3.33	0	0.00	90	2.22	90	2.22
Total	**7,174**	**4.30**	**1,079**	**0.65**	**3,414**	**2.05**	**10,481**	**6.28**

Cont….

Cont. 9.67: Number of Agricultural Households Reporting the FIRST most important Constraint by District, 2007/08 Agricultural Year

District	Constraint							
	Extension Services		Access to Forest Resources		Hunting and Gathering		Access to Potable Water	
	Number	%	Number	%	Number	%	Number	%
Kilwa	1,419	4.44	0	0.00	0	.00	79	0.25
Lindi Rural	1,612	3.21	124	0.25	0	.00	372	0.74
Nachingwea	658	1.73	0	0.00	0	.00	1,505	3.95
Liwale	497	4.20	0	0.00	29	.25	146	1.23
Ruangwa	1,671	5.43	0	0.00	0	.00	76	0.25
Lindi Urban	135	3.33	0	0.00	0	.00	0	0.00
Total	**5,993**	**3.59**	**124**	**0.07**	**29**	**.02**	**2,178**	**1.30**

Cont….

Cont. 9.67: Number of Agricultural Households Reporting the FIRST most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Access to Credit		Access to Off Farm Income		Threshing		Harvesting	
District	Number	%	Number	%	Number	%	Number	%
Kilwa	3,154	9.88	79	0.25	0	0.00	0	0.00
Lindi Rural	6,324	12.59	744	1.48	0	0.00	0	0.00
Nachingwea	2,257	5.93	94	0.25	0	0.00	0	0.00
Liwale	555	4.69	146	1.23	0	0.00	0	0.00
Ruangwa	2,430	7.90	380	1.23	0	0.00	0	0.00
Lindi Urban	0	0.00	90	2.22	0	0.00	0	0.00
Total	**14,720**	**8.82**	**1,533**	**0.92**	**0**	**0.00**	**0**	**0.00**

Cont….

Cont. 9.67: Number of Agricultural Households Reporting the FIRST most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Crop Storage		Crop Processing		Marketing Information		Higher Transport Costs	
District	Number	%	Number	%	Number	%	Number	%
Kilwa	79	0.25	0	0.00	237	0.74	79	0.25
Lindi Rural	248	0.49	0	0.00	124	0.25	372	0.74
Nachingwea	0	0.00	0	0.00	188	0.49	0	0.00
Liwale	0	0.00	0	0.00	29	0.25	29	0.25
Ruangwa	76	0.25	0	0.00	76	0.25	0	0.00
Lindi Urban	0	0.00	0	0.00	0	0.00	0	0.00
Total	**403**	**0.24**	**0**	**0.00**	**654**	**0.39**	**480**	**0.29**

Cont….

Cont. 9.67: Number of Agricultural Households Reporting the FIRST most important Constraint by District, 2007/08 Agricultural Year

	Constraint							
	Destruction by Animals		Stealing		Pest and Disease		Local Government Taxation	
District	Number	%	Number	%	Number	%	Number	%
Kilwa	9,934	31.11	79	0.25	1,183	3.70	0	0.00
Lindi Rural	7,192	14.32	372	0.74	868	1.73	0	0.00
Nachingwea	752	1.98	0	0.00	282	.74	94	0.25
Liwale	994	8.40	0	0.00	322	2.72	0	0.00
Ruangwa	683	2.22	152	0.49	380	1.23	0	0.00
Lindi Urban	497	12.22	0	0.00	45	1.11	0	0.00
Total	**20,053**	**12.02**	**603**	**0.36**	**3,079**	**1.84**	**94**	**0.06**

Cont. 9.67: 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	%
Kilwa	788	2.47	237	0.74	237	100.00
Lindi Rural	7,192	14.32	124	0.25	124	100.00
Nachingwea	3,104	8.15	0	0.00	0	100.00
Liwale	263	2.22	0	0.00	0	100.00
Ruangwa	607	1.98	0	0.00	0	100.00
Lindi Urban	497	12.22	0	0.00	0	100.00
Total	**12,452**	**7.46**	**361**	**0.22**	**361**	**100.00**

9.68: 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	%
Kilwa	79	.2	315	1.0	6,308	19.8	867	2.7
Lindi Rural	124	.2	744	1.5	8,929	17.8	1,612	3.2
Nachingwea	376	1.0	188	.5	5,925	15.6	3,009	7.9
Liwale	0	.0	29	.2	1,754	14.8	234	2.0
Ruangwa	152	.5	759	2.5	5,467	17.8	987	3.2
Lindi Urban	45	1.1	0	.0	768	18.9	316	7.8
Total	**776**	**.5**	**2,036**	**1.2**	**29,149**	**17.5**	**7,026**	**4.2**

Cont…

Cont. 9.68: 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	%
Kilwa	5,519	17.3	315	1.0	1,183	3.7	1,419	4.4
Lindi Rural	6,820	13.6	1,240	2.5	4,216	8.4	5,704	11.4
Nachingwea	10,251	26.9	752	2.0	1,975	5.2	4,608	12.1
Liwale	2,192	18.5	292	2.5	1,052	8.9	2,134	18.0
Ruangwa	10,403	33.8	228	.7	1,291	4.2	3,569	11.6
Lindi Urban	1,309	32.2	90	2.2	181	4.4	361	8.9
Total	**36,495**	**21.9**	**2,918**	**1.7**	**9,898**	**5.9**	**17,796**	**10.7**

Cont…

Cont. 9.68: 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	%
Kilwa	4,100	12.8	0	.0	0	.0	473	1.5
Lindi Rural	2,232	4.4	0	.0	0	.0	620	1.2
Nachingwea	1,787	4.7	0	.0	0	.0	564	1.5
Liwale	731	6.2	0	.0	0	.0	175	1.5
Ruangwa	1,974	6.4	0	.0	76	.2	380	1.2
Lindi Urban	271	6.7	0	.0	0	.0	0	.0
Total	11,095	6.6	0	.0	76	.0	2,212	1.3

Cont…

Cont. 9.68: 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	%
Kilwa	3,154	9.9	158	.5	0	.0	0	.0
Lindi Rural	2,976	5.9	620	1.2	248	.5	0	.0
Nachingwea	4,420	11.6	0	.0	0	.0	94	.2
Liwale	701	5.9	146	1.2	29	.2	0	.0
Ruangwa	1,747	5.7	683	2.2	76	.2	0	.0
Lindi Urban	226	5.6	135	3.3	0	.0	0	.0
Total	**13,224**	**7.9**	**1,743**	**1.0**	**353**	**.2**	**94**	**.1**

Cont…

Cont. 9.68: 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	%
Kilwa	315	1.0	0	.0	315	1.0	79	.2
Lindi Rural	248	.5	0	.0	124	.2	248	.5
Nachingwea	94	.2	0	.0	188	.5	0	.0
Liwale	29	.2	0	.0	58	.5	58	.5
Ruangwa	76	.2	0	.0	0	.0	0	.0
Lindi Urban	45	1.1	0	.0	0	.0	0	.0
Total	**808**	**.5**	**0**	**.0**	**686**	**.4**	**385**	**.2**

Cont…

Cont. 9.68: 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	%
Kilwa	3,627	11.4	237	.7	1,735	5.4	0	.0
Lindi Rural	5,704	11.4	1,612	3.2	3,844	7.7	0	.0
Nachingwea	752	2.0	94	.2	1,693	4.4	94	.2
Liwale	1,549	13.1	0	.0	351	3.0	0	.0
Ruangwa	1,063	3.5	380	1.2	456	1.5	0	.0
Lindi Urban	181	4.4	0	.0	135	3.3	0	.0
Total	**12,876**	**7.7**	**2,322**	**1.4**	**8,213**	**4.9**	**94**	**.1**

Cont…

Cont. 9.68: 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	%
Kilwa	1,656	5.2	79	.2	31,932	100.0
Lindi Rural	2,356	4.7	0	.0	50,223	100.0
Nachingwea	1,223	3.2	0	.0	38,089	100.0
Liwale	322	2.7	0	.0	11,837	100.0
Ruangwa	987	3.2	0	.0	30,754	100.0
Lindi Urban	0	.0	0	.0	4,063	100.0
Total	**6,543**	**3.9**	**79**	**.0**	**166,898**	**100.0**

9.69: 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	%
Kilwa	158	0.5	79	0.2	3,075	9.6	315	1.0
Lindi Rural	124	0.2	124	0.2	5,580	11.1	1,240	2.5
Nachingwea	94	0.2	94	0.2	4,796	12.6	1,599	4.2
Liwale	0	0.0	58	0.5	1,198	10.1	146	1.2
Ruangwa	76	0.2	152	0.5	2,050	6.7	759	2.5
Lindi Urban	45	1.1	181	4.4	361	8.9	45	1.1
Total	**497**	**0.3**	**688**	**0.4**	**17,061**	**10.2**	**4,105**	**2.5**

Cont…

Cont. 9.69: 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	%
Kilwa	4,100	12.8	315	1.0	2,760	8.6	3,311	10.4
Lindi Rural	6,200	12.3	744	1.5	4,092	8.1	6,696	13.3
Nachingwea	4,326	11.4	1,975	5.2	4,984	13.1	7,242	19.0
Liwale	760	6.4	351	3.0	877	7.4	1,812	15.3
Ruangwa	3,037	9.9	228	0.7	4,936	16.0	5,619	18.3
Lindi Urban	993	24.4	0	0.0	497	12.2	497	12.2
Total	**19,417**	**11.6**	**3,613**	**2.2**	**18,145**	**10.9**	**25,177**	**15.1**

Cont. 9.69: 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	%
Kilwa	237	0.7	0	0.0	473	1.5	237	.7
Lindi Rural	992	2.0	0	0.0	248	.5	496	1.0
Nachingwea	0	0.0	0	0.0	658	1.7	0	.0
Liwale	234	2.0	88	0.7	292	2.5	88	.7
Ruangwa	304	1.0	228	0.7	380	1.2	0	.0
Lindi Urban	0	0.0	0	0.0	0	.0	0	.0
Total	**1,766**	**1.1**	**315**	**0.2**	**2,051**	**1.2**	**820**	**.5**

Cont. 9.69: 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	%
Kilwa	2,760	8.6	0	0.0	1,735	5.4	0	.0
Lindi Rural	4,836	9.6	2,108	4.2	2,108	4.2	0	.0
Nachingwea	658	1.7	470	1.2	1,881	4.9	0	.0
Liwale	1,315	11.1	88	0.7	789	6.7	0	.0
Ruangwa	1,822	5.9	304	1.0	987	3.2	0	.0
Lindi Urban	316	7.8	0	0.0	226	5.6	0	.0
Total	**11,708**	**7.0**	**2,970**	**1.8**	**7,726**	**4.6**	**0**	**.0**

Cont. 9.69: Number of Agricultural Households Reporting the THIRD Most important Constraint by District, 2007/08 Agricultural Year

District	Constraint				Total	
	Extended dry spell		Crop Farmers/Livestock keepers Conflicts			
	Number	%	Number	%	Number	%
Kilwa	1,498	4.7	79	.2	31,932	100.0
Lindi Rural	3,844	7.7	0	.0	50,223	100.0
Nachingwea	282	.7	0	.0	38,089	100.0
Liwale	292	2.5	0	.0	11,837	100.0
Ruangwa	835	2.7	0	.0	30,754	100.0
Lindi Urban	90	2.2	45	1.1	4,063	100.0
Total	**6,842**	**4.1**	**124**	**.1**	**166,898**	**100.0**

9.70: 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	%
Kilwa	0	.0	79	.2	2,996	9.4	158	.5
Lindi Rural	372	.7	868	1.7	6,076	12.1	496	1.0
Nachingwea	188	.5	0	.0	3,292	8.6	470	1.2
Liwale	29	.2	58	.5	701	5.9	263	2.2
Ruangwa	152	.5	304	1.0	1,139	3.7	380	1.2
Lindi Urban	0	.0	45	1.1	226	5.6	135	3.3
Total	**741**	**.4**	**1,354**	**.8**	**14,430**	**8.6**	**1,902**	**1.1**

Cont. 9.70: 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	%
Kilwa	3,548	11.1	0	.0	0	.0	394	1.2
Lindi Rural	3,720	7.4	0	.2	124	.2	744	1.5
Nachingwea	3,856	10.1	0	.0	0	.0	470	1.2
Liwale	643	5.4	0	.0	0	.0	175	1.5
Ruangwa	4,100	13.3	0	.0	0	.0	380	1.2
Lindi Urban	271	6.7	0	.0	0	.0	181	4.4
Total	**16,138**	**9.7**	**0**	**.0**	**124**	**.1**	**2,344**	**1.4**

Cont. 9.70: 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	%
Kilwa	710	2.2	0	.0	1,183	3.7	394	1.2
Lindi Rural	1,364	2.7	124	.2	868	1.7	496	1.0
Nachingwea	376	1.0	0	.0	940	2.5	376	1.0
Liwale	351	3.0	438	3.7	701	5.9	58	.5
Ruangwa	835	2.7	152	.5	835	2.7	76	.2
Lindi Urban	90	2.2	0	.0	0	.0	45	1.1
Total	**3,726**	**2.2**	**714**	**.4**	**4,528**	**2.7**	**1,446**	**.9**

Cont. 9.70: 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	%
Kilwa	5,598	17.5	158	.5	1,656	5.2	79	.2
Lindi Rural	6,200	12.3	1,860	3.7	2,232	4.4	124	.2
Nachingwea	940	2.5	470	1.2	3,292	8.6	376	1.0
Liwale	1,549	13.1	146	1.2	1,637	13.8	117	1.0
Ruangwa	3,873	12.6	1,595	5.2	1,519	4.9	76	.2
Lindi Urban	948	23.3	0	.0	542	13.3	0	.0
Total	**19,109**	**11.4**	**4,229**	**2.5**	**10,877**	**6.5**	**772**	**.5**

Cont. 9.70: 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	%
Kilwa	1,340	4.2	79	.2	31,932	100.0
Lindi Rural	3,596	7.2	0	.0	50,223	100.0
Nachingwea	846	2.2	0	.0	38,089	100.0
Liwale	672	5.7	0	.0	11,837	100.0
Ruangwa	1,671	5.4	0	.0	30,754	100.0
Lindi Urban	135	3.3	0	.0	4,063	100.0
Total	**8,261**	**4.9**	**79**	**.0**	**166,898**	**100.0**

9.71: 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	%
Kilwa	0	.0	79	.2	1,104	3.5	79	.2
Lindi Rural	620	1.2	744	1.5	4,712	9.4	744	1.5
Nachingwea	376	1.0	94	.2	1,881	4.9	846	2.2
Liwale	0	.0	0	.0	526	4.4	234	2.0
Ruangwa	304	1.0	228	.7	1,139	3.7	228	.7
Lindi Urban	0	.0	0	.0	181	4.4	90	2.2
Total	1,300	.8	1,145	.7	9,543	5.7	2,221	1.3

Cont. 9.71: 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	%
Kilwa	2,838	8.9	710	2.2	2,602	8.1	2,523	7.9
Lindi Rural	4,340	8.6	496	1.0	2,356	4.7	3,968	7.9
Nachingwea	3,668	9.6	564	1.5	2,445	6.4	3,762	9.9
Liwale	438	3.7	58	.5	672	5.7	760	6.4
Ruangwa	2,354	7.7	380	1.2	1,215	4.0	2,961	9.6
Lindi Urban	406	10.0	90	2.2	135	3.3	361	8.9
Total	14,045	8.4	2,298	1.4	9,426	5.6	14,336	8.6

Cont. 9.71: 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	%
Kilwa	3,469	10.9	0	.0	0	.0	394	1.2
Lindi Rural	4,836	9.6	0	.0	0	.0	1,488	3.0
Nachingwea	5,079	13.3	0	.0	0	.0	188	.5
Liwale	614	5.2	0	.0	0	.0	146	1.2
Ruangwa	4,784	15.6	0	.0	0	.0	304	1.0
Lindi Urban	406	10.0	0	.0	0	.0	271	6.7
Total	19,188	11.5	0	.0	0	.0	2,791	1.7

Cont. 9.71: 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	%
Kilwa	3,233	10.1	1,340	4.2	158	.5	0	.0
Lindi Rural	5,208	10.4	1,736	3.5	0	.0	0	.0
Nachingwea	5,737	15.1	940	2.5	564	1.5	188	.5
Liwale	1,286	10.9	322	2.7	58	.5	0	.0
Ruangwa	3,949	12.8	1,063	3.5	0	.0	0	.0
Lindi Urban	226	5.6	0	.0	0	.0	0	.0
Total	19,638	11.8	5,402	3.2	780	.5	188	.1

Cont…

Cont. 9.71: 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	%
Kilwa	315	1.0	158	.5	2,050	6.4	158	.5
Lindi Rural	1,612	3.2	248	.5	744	1.5	744	1.5
Nachingwea	2,163	5.7	188	.5	846	2.2	564	1.5
Liwale	292	2.5	117	1.0	438	3.7	58	.5
Ruangwa	759	2.5	152	.5	759	2.5	0	.0
Lindi Urban	135	3.3	0	.0	90	2.2	45	1.1
Total	5,278	3.2	863	.5	4,928	3.0	1,570	.9

Cont…

Cont. 9.71: 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	%
Kilwa	2,681	8.4	394	1.2	6,229	19.5	0	.0
Lindi Rural	5,828	11.6	3,844	7.7	3,472	6.9	372	.7
Nachingwea	1,129	3.0	564	1.5	4,232	11.1	940	2.5
Liwale	2,484	21.0	205	1.7	1,695	14.3	58	.5
Ruangwa	3,721	12.1	1,974	6.4	2,734	8.9	152	.5
Lindi Urban	226	5.6	135	3.3	813	20.0	0	.0
Total	16,069	9.6	7,117	4.3	19,175	11.5	1,523	.9

Cont…

Cont. 9.71: 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	%
Kilwa	1,340	4.2	79	.2	31,932	100.0
Lindi Rural	2,108	4.2	0	.0	50,223	100.0
Nachingwea	1,129	3.0	0	.0	38,089	100.0
Liwale	1,374	11.6	0	.0	11,837	100.0
Ruangwa	1,595	5.2	0	.0	30,754	100.0
Lindi Urban	451	11.1	0	.0	4,063	100.0
Total	7,997	4.8	79	.0	166,898	100.0

POVERTY MODULE

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

District	Roofing Materials								
	Mean Number of rooms	Iron Sheets	Tiles	Concrete	Asbestos	Grass/Leaves	Grass & Mud	Other	Total
Kilwa	3	6,465	315	158	237	23,732	1,025	0	31,932
Lindi Rural	3	10,417	248	124	496	37,698	1,240	0	50,223
Nachingwea	2	9,311	94	0	1,223	26,897	564	0	38,089
Liwale	2	3,361	292	0	146	7,745	263	29	11,837
Ruangwa	2	7,745	759	0	532	19,667	1,898	152	30,754
Lindi Urban	2	587	90	45	0	3,341	0	0	4,063
Total	**2**	**37,886**	**1,799**	**327**	**2,633**	**119,081**	**4,991**	**181**	**166,898**
%		**23**	**1**	**0**	**2**	**71**	**3**	**0**	**100**

10.2: Number of households 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
Kilwa	3	28,384	552	0	0	2,996	0	31,932
Lindi Rural	3	44,395	992	248	0	4,464	124	50,223
Nachingwea	2	35,455	1,035	188	94	1,317	0	38,089
Liwale	2	10,668	380	0	0	789	0	11,837
Ruangwa	2	27,337	1,595	152	0	1,671	0	30,754
Lindi Urban	2	3,612	90	0	0	361	0	4,063
Total	**2**	149,851	4,643	588	94	11,598	124	166,898
%		**89.8**	**2.8**	**0.4**	**0.1**	**6.9**	**0.1**	**100**

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

District	Wall Materials								
	Grass	Poles and Mud	Sun-Dried Bricks	Baked Bricks	Wood,Timber	Cement Blocks	Stones	Other	Total
Kilwa	2,050	28,384	315	315	158	473	79	158	31,932
Lindi Rural	4,340	37,698	4,712	2,108	248	868	0	248	50,223
Nachingwea	5,549	9,499	11,380	11,286	94	0	0	282	38,089
Liwale	1,491	8,535	380	1,403	29	0	0	0	11,837
Ruangwa	2,506	17,921	4,252	5,771	228	76	0	0	30,754
Lindi Urban	722	3,251	45	0	0	45	0	0	4,063
Total	16,658	105,287	21,085	20,883	757	1,462	79	688	166,898
%	**10.0**	**63.1**	**12.6**	**12.5**	**0.5**	**0.9**	**0.0**	**0.4**	**100.0**

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

District	Radio			Landline phone			Mobile phone			Iron			Wheelbarrow		
	Yes	No	Total	Yes	No	Total	Yes	No	Total	Yes	No	Total	Yes	No	Total
Kilwa	24,836	7,096	31,932	158	31,774	31,932	7,963	23,969	31,932	5,756	26,176	31,932	315	31,616	31,932
Lindi Rural	28,274	21,949	50,223	372	49,851	50,223	9,921	40,302	50,223	6,448	43,775	50,223	744	49,479	50,223
Nachingwea	19,091	18,997	38,089	188	37,901	38,089	5,361	32,728	38,089	5,173	32,916	38,089	376	37,713	38,089
Liwale	7,892	3,946	11,837	0	11,837	11,837	1,841	9,996	11,837	2,426	9,411	11,837	234	11,604	11,837
Ruangwa	13,972	16,782	30,754	304	30,450	30,754	4,176	26,577	30,754	3,569	27,185	30,754	683	30,070	30,754
Lindi Urban	2,257	1,806	4,063	0	4,063	4,063	903	3,160	4,063	497	3,567	4,063	0	4,063	4,063
Total	**96,322**	**70,576**	**166,898**	**1,022**	**165,876**	**166,898**	**30,165**	**136,733**	**166,898**	**23,868**	**143,030**	**166,898**	**2,353**	**164,545**	**166,898**
%	**58**	**42**	**100**	**1**	**99**	**100**	**18**	**82**	**100**	**14**	**86**	**100**	**1**	**99**	**100**

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

District	Bicycle			Vehicle			Television / Video			Refrigerator			Motor Cycle		
	Yes	No	Total	Yes	No	Total	Yes	No	Total	Yes	No	Total	Yes	No	Total
Kilwa	15,611	16,321	31,932	3,075	28,857	31,932	631	31,301	31,932	237	31,695	31,932	473	31,459	31,932
Lindi Rural	17,361	32,862	50,223	2,604	47,619	50,223	1,364	48,859	50,223	372	49,851	50,223	1,116	49,107	50,223
Nachingwea	20,784	17,305	38,089	3,104	34,985	38,089	752	37,336	38,089	188	37,901	38,089	564	37,524	38,089
Liwale	6,693	5,144	11,837	555	11,282	11,837	234	11,604	11,837	88	11,750	11,837	175	11,662	11,837
Ruangwa	12,833	17,921	30,754	1,519	29,235	30,754	759	29,994	30,754	607	30,146	30,754	532	30,222	30,754
Lindi Urban	1,309	2,754	4,063	90	3,973	4,063	45	4,018	4,063	45	4,018	4,063	0	4,063	4,063
Total	**74,592**	**92,306**	**166,898**	**10,947**	**155,951**	**166,898**	**3,786**	**163,112**	**166,898**	**1,537**	**165,361**	**166,898**	**2,860**	**164,038**	**166,898**
%	**45**	**55**	**100**	**7**	**93**	**100**	**2**	**98**	**100**	**1**	**99**	**100**	**2**	**98**	**100**

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

District	Electricity	Solar	Gas (Biogas)	Hurricane Lamp	Pressure Lamp	Wick Lamp	Candles	Firewood	Other	Total
Kilwa	0	79	79	7,884	1,183	22,234	79	158	237	31,932
Lindi Rural	248	744	124	5,952	2,976	35,962	0	4,216	0	50,223
Nachingwea	94	0	0	9,311	846	26,427	0	1,223	188	38,089
Liwale	263	29	0	2,426	380	8,155	88	409	88	11,837
Ruangwa	76	304	152	5,619	911	23,160	380	152	0	30,754
Lindi Urban	0	0	0	542	181	3,341	0	0	0	4,063
Total	**681**	**1,156**	**355**	**31,734**	**6,477**	**119,279**	**546**	**6,158**	**512**	**166,898**
%	**0.4**	**0.7**	**0.2**	**19.0**	**3.9**	**71.5**	**0.3**	**3.7**	**0.3**	**100**

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

District	Electricity	Solar	Gas(Hh Biogas)	Bottled Gas(Industrial)	Parraffin / Kerosine	Charcoal	Firewood	Crop Residues	Livestock Dung	Other	Total
Kilwa	0	0	0	79	79	631	30,986	79	79	0	31,932
Lindi Rural	0	0	0	124	0	1,984	47,991	124	0	0	50,223
Nachingwea	94	0	94	94	0	940	36,866	0	0	0	38,089
Liwale	29	0	0	29	0	322	11,370	88	0	0	11,837
Ruangwa	0	76	0	152	0	683	29,691	152	0	0	30,754
Lindi Urban	45	45	0	0	0	90	3,883	0	0	0	4,063
Total	**168**	**121**	**94**	**478**	**79**	**4,651**	**160,786**	**442**	**79**	**0**	**166,898**
%	**0.1**	**0.1**	**0.1**	**0.3**	**0.0**	**2.8**	**96.3**	**0.3**	**0.0**	**0.0**	**100.0**

10.7: Number of Agricultural Households Reporting Main Source of Drinking Water during Wet Season by District, 2007/08 Agricultural Year

District	Piped Water	Protected Well	Protected / Covered Spring	Uprotected Well	Unprotected Spring	Surface Water (Lake / Dam / River / Stream)	Covered Rainwater Catchment	Uncovered Rainwater Catchment	Water Vendor	Tanked Truck	Bottled water	Other	Total
Kilwa	2,602	1,656	79	12,300	552	8,909	473	5,361	0	0	0	0	31,932
Lindi Rural	12,649	7,812	248	11,781	2,232	8,681	620	5,332	0	0	0	868	50,223
Nachingwea	1,411	3,198	658	21,066	2,445	1,411	376	7,148	0	0	0	376	38,089
Liwale	1,374	351	88	3,069	526	4,004	29	2,367	0	0	0	29	11,837
Ruangwa	3,417	6,910	0	16,554	152	1,367	0	2,354	0	0	0	0	30,754
Lindi Urban	858	90	451	1,219	271	858	45	45	45	0	0	181	4,063
Total	**22,310**	**20,017**	**1,524**	**65,989**	**6,178**	**25,229**	**1,544**	**22,608**	**45**	**0**	**0**	**1,454**	**166,898**
%	**13**	**12**	**1**	**40**	**4**	**15**	**1**	**14**	**0**	**0**	**0**	**1**	**100**

10.8: Number of Agricultural Households Reporting Distance to Main Source of Drinking Water during Wet Season by District, 2007/08 Agricultural Year

District	Less than 100m	100-299 m	300-499 m	500-999 m	1-1.99 Km	2-2.99 Km	3-4.99 Km	5-9.99 Km	10Km and above	Total
Kilwa	5,913	4,731	1,183	14,192	4,731	1,183	0	0	0	31,932
Lindi Rural	11,161	14,881	3,720	7,440	9,301	1,860	0	1,860	0	50,223
Nachingwea	5,643	5,643	0	12,696	11,286	0	2,821	0	0	38,089
Liwale	1,315	438	877	3,069	5,261	877	0	0	0	11,837
Ruangwa	5,695	3,417	3,417	6,834	11,390	0	0	0	0	30,754
Lindi Urban	677	0	0	2,032	1,354	0	0	0	0	4,063
Total	30,404	29,110	9,197	46,263	43,323	3,920	2,821	1,860	0	166,898
%	18.2	17.4	5.5	27.7	26.0	2.3	1.7	1.1	0.0	100.0

10.9: Number of Agricultural Households Reporting Time Spent to and from Main Source of Drinking Water during Wet Season by District, 2007/08 Agricultural Year

District	Less than 10	10-19 Minutes	20-29 Minutes	30-39 Minutes	40-49 Minutes	50-59 Minutes	One Hour and Above	Total
Kilwa	13,009	2,365	1,183	11,827	0	0	3,548	31,932
Lindi Rural	9,301	5,580	13,021	11,161	1,860	3,720	5,580	50,223
Nachingwea	2,821	2,821	2,821	19,750	0	1,411	8,464	38,089
Liwale	2,631	0	1,315	4,823	0	1,315	1,754	11,837
Ruangwa	3,417	3,417	6,834	6,834	2,278	0	7,973	30,754
Lindi Urban	1,354	0	677	1,354	0	0	677	4,063
Total	32,533	14,184	25,851	55,748	4,138	6,446	27,997	166,898
%	**19.5**	**8.5**	**15.5**	**33.4**	**2.5**	**3.9**	**16.8**	**100.0**

10.10: Number of Agricultural Households Reporting Main Source of Drinking Water during Dry Season by District, 2007/08 Agricultural Year

District	Piped Water	Protected Well	Protected / Covered Spring	Uprotected Well	Unprotected Spring	Surface Water (Lake / Dam / River / Stream)	Covered Rainwater Catchment	Uncovered Rainwater Catchment	Water Vendor	Tanker truck	Bottled water	Other	Total HH
Kilwa	3,942	4,573	315	15,296	1,340	4,494	79	1,577	315	0	0	0	31,932
Lindi Rural	12,525	6,200	248	14,757	6,200	8,432	372	1,488	0	0	0	0	50,223
Nachingwea	3,668	5,361	1,317	21,443	1,599	3,292	94	752	564	0	0	0	38,089
Liwale	1,403	1,169	29	5,904	234	2,835	146	117	0	0	0	0	11,837
Ruangwa	5,164	8,657	0	14,352	911	1,519	0	152	0	0	0	0	30,754
Lindi Urban	1,084	632	497	1,219	271	45	0	0	271	45	0	0	4,063
Total	27,785	26,592	2,406	72,970	10,555	20,617	691	4,086	1,151	45	0	0	166,898
%	**16.6**	**15.9**	**1.4**	**43.7**	**6.3**	**12.4**	**0.4**	**2.4**	**0.7**	**0.0**	**0.0**	**0.0**	**100.0**

10.11: Number of Agriculture Households Distance to Main Source of Drinking Water in Dry Season and District during, 2007/08 Agricultural Year

District	Less than100 Metres		100 - 299 m		300 - 499 m		500 - 999 m		1.00- 1.99 Km		2.00 - 2.99 Km		3.00 - 4.99 Km		5.00 - 9.99 Km		10km and above		Total
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number
Kilwa	7,096	22	3,548	11	0	0	4,731	15	10,644	33	2,365	7	1,183	4	2,365	7	0	0	31,932
Lindi Rural	5,580	11	16,741	33	0	0	5,580	11	7,440	15	7,440	15	0	0	7,440	15	0	0	50,223
Nachingwea	1,411	4	1,411	4	0	0	4,232	11	12,696	33	8,464	22	2,821	7	5,643	15	1,411	4	38,089
Liwale	877	7	0	0	877	7	3,069	26	6,138	52	438	4	0	0	438	4	0	0	11,837
Ruangwa	3,417	11	3,417	11	3,417	11	6,834	22	6,834	22	4,556	15	1,139	4	1,139	4	0	0	30,754
Lindi Urban	0	0	0	0	0	0	2,709	67	1,354	33	0	0	0	0	0	0	0	0	4,063
Total	18,381	11	25,117	15	4,294	3	27,155	16	45,107	27	23,264	14	5,143	3	17,026	10	1,411	1	166,898
%	**11.0**	**0.0**	**15.0**	**0.0**	**2.6**	**0.0**	**16.3**	**0.0**	**27.0**	**0.0**	**13.9**	**0.0**	**3.1**	**0.0**	**10.2**	**0.0**	**0.8**	**0.0**	**100**

10.12: Number of Agricultural Households Reporting Time Spent to and from Main Source of Drinking Water during Dry Season by District, 2007/08 Agricultural Year

District	Less than 10 Minutes	10 - 19 Minutes	20 - 29 Minutes	30 - 39 Minutes	40 - 49 Minutes	50 - 59 Minutes	above one Hour	Total
Kilwa	8,279	3,548	2,365	7,096	2,365	0	8,279	31,932
Lindi Rural	3,720	5,580	7,440	9,301	3,720	1,860	18,601	50,223
Nachingwea	0	0	1,411	5,643	0	1,411	29,625	38,089
Liwale	1,315	0	877	3,069	438	1,315	4,823	11,837
Ruangwa	3,417	3,417	2,278	6,834	1,139	0	13,668	30,754
Lindi Urban	0	677	0	677	0	0	2,709	4,063
Total	16,731	13,223	14,371	32,620	7,663	4,586	77,704	166,898
%	**10.0**	**7.9**	**8.6**	**19.5**	**4.6**	**2.7**	**46.6**	**100.0**

10.13: Number of Agricultural Households Reporting type of TOILET the household normally use by District, 2007/08 Agricultural Year

District	No Toilet / Bush	Flush Toilet	Traditional Pit Latrine	Improved Pit Latrine - hh Owned	Other Type	Total
Kilwa	1,892	79	29,015	867	79	31,932
Lindi Rural	744	124	47,991	1,364	0	50,223
Nachingwea	752	470	35,738	1,129	0	38,089
Liwale	380	88	11,048	322	0	11,837
Ruangwa	1,519	456	28,552	228	0	30,754
Lindi Urban	135	0	3,883	45	0	4,063
Total	**5,423**	**1,216**	**156,226**	**3,954**	**79**	**166,898**
%	**3.2**	**0.7**	**93.6**	**2.4**	**0.0**	**100.0**

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

District	One	Two	Three	Total
Kilwa	315	12,930	18,686	31,932
Lindi Rural	744	22,941	26,538	50,223
Nachingwea	1,129	22,477	14,483	38,089
Liwale	555	4,706	6,576	11,837
Ruangwa	835	14,048	15,870	30,754
Lindi Urban	226	1,174	2,664	4,063
Total	**3,804**	**78,276**	**84,817**	**166,898**
%	**2.3**	**46.9**	**50.8**	**100.0**

10.15: 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
Kilwa	15,926	10,092	3,785	1,735	79	237	0	79	31,932
Lindi Rural	35,466	8,805	3,472	1,860	372	124	124	0	50,223
Nachingwea	23,229	8,464	3,950	1,223	846	188	0	188	38,089
Liwale	5,641	3,420	1,988	468	234	0	58	29	11,837
Ruangwa	10,783	8,429	7,669	2,810	759	76	0	228	30,754
Lindi Urban	2,980	451	316	316	0	0	0	0	4,063
Total	**94,026**	**39,661**	**21,180**	**8,411**	**2,290**	**625**	**182**	**524**	**166,898**
%	**56.3**	**23.8**	**12.7**	**5.0**	**1.4**	**0.4**	**0.1**	**0.3**	**100.0**

10.16: 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
Kilwa	4,494	6,229	5,913	5,361	3,863	2,208	552	3,311	31,932
Lindi Rural	8,308	8,060	9,053	10,665	7,316	3,224	1,612	1,984	50,223
Nachingwea	16,928	5,925	8,558	3,386	1,975	376	470	470	38,089
Liwale	4,969	1,958	2,367	1,403	468	380	29	263	11,837
Ruangwa	4,936	5,619	9,264	5,240	2,354	1,519	456	1,367	30,754
Lindi Urban	406	677	542	632	858	632	181	135	4,063
Total	**40,042**	**28,469**	**35,697**	**26,686**	**16,834**	**8,339**	**3,300**	**7,531**	**166,898**
%	**24.0**	**17.1**	**21.4**	**16.0**	**10.1**	**5.0**	**2.0**	**4.5**	**100.0**

10.17: 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
Kilwa	7,569	10,644	6,544	3,390	3,785	31,932
Lindi Rural	13,765	16,493	6,944	8,557	4,464	50,223
Nachingwea	11,003	11,756	6,583	5,549	3,198	38,089
Liwale	3,800	3,829	1,549	1,549	1,111	11,837
Ruangwa	15,035	7,366	4,328	2,278	1,747	30,754
Lindi Urban	632	1,354	632	1,264	181	4,063
Total	**51,804**	**51,442**	**26,581**	**22,587**	**14,484**	**166,898**
%	**31.0**	**30.8**	**15.9**	**13.5**	**8.7**	**100.0**

10.18: Number of Agricultural Households Reporting Main Source of Income by District, 2007/08 Agricultural Year

District	Sales of Food Crops	Sale of Livestock	Sale of Livestock Products	Sales of Cash Crops	Sale of Forest Products	Business Income	Wages & Salaries in Cash	Other Casual Cash Earnings	Cash Remittance	Fishing	Other	Not applicable	Total
Kilwa	16,321	394	315	7,490	158	1,104	710	2,444	788	1,971	237	0	31,932
Lindi Rural	30,134	1,240	124	7,440	620	4,092	1,116	3,968	372	0	744	372	50,223
Nachingwea	23,888	376	0	6,583	752	1,881	188	2,915	470	0	1,035	0	38,089
Liwale	7,424	0	58	3,829	0	58	175	88	88	0	58	58	11,837
Ruangwa	18,224	76	228	7,821	380	911	228	1,519	380	0	380	607	30,754
Lindi Urban	1,580	0	0	226	497	542	135	497	0	542	0	45	4,063
Total	**97,571**	**2,086**	**726**	**33,390**	**2,406**	**8,588**	**2,552**	**11,431**	**2,098**	**2,513**	**2,453**	**1,083**	**166,898**
%	**58.5**	**1.3**	**0.4**	**20.0**	**1.4**	**5.1**	**1.5**	**6.8**	**1.3**	**1.5**	**1.5**	**0.6**	**100.0**

Appendix III: QUESTIONNAIRES

United Republic of Tanzania

ACQ1 *CONFIDENTIAL*

Small holder/Small Scale Farmer questionnaire

Identification

Agricultural Sample Census 2007/2008

Enumerator Name ..... **Signature** .....

Date of Enumeration

d d / m m / y y y y

Start Time

End Time

Hour	Minutes

Field level checking by:

District Supervisor	Name	Signature	Date ..... / /
Regional Supervisor	Name	Signature	Date ..... / /
National Supervisor	Name	Signature	Date ..... / /

I To be filled by the supervisor ONLY after Field/farm level checking of the enumeration process. This should be countersigned by the Supervisor in front of the enumerator

Distric checking in Office

District Supervisor	Name	Signature	Date ..... / /

All questionnaires must be checked at the district office.

For Use at Regional Level Only

Data entered by:	Name	Signature	Date ..... / /
Queried	Name	Signature	Date ..... / /

See the back page for details of queries

Ministry of Agriculturte and Food Security, Ministry of Livestock and Fisheries Development, Ministry of Agriculture and Environment of Zanzibar, Ministry of Water and Irrigation, Prime Ministers' Office Regional Adminstration and Local Government, Ministry of Industry Trade and Marketing, National Bureau of Statistics, and the Office of the Government Statistician General of Revolution Governemnet of Zanzibar

Definition and working page for page 1

General Definitions

Who is a Smallholder /Small Scale farmer?
Should have one or more of the following: in the 2007/08 farming season had one or more cultivated and planted farms. The farm land may either be owned, rented, borrowed. The farmer may also be raising 1 and 50 head of cattle, and/or between 5 and 100 head of sheep/Goats/Pigs, and/or between 50 and 1000

Household: A group of people who occupy the whole of part one or more housing units and makes joint provision for food and/or other household items. Usually such a group comprises a husband, wife, and their children. Other relatives may be members of the household if they happen to live and get food provisions from the same household. People who live together and eat from the same pot may be considered as member s of the same household even if they stay in separate dwellings. An individual who lives and east alone is considered as an independent household.

Household Head: A person who is acknowledged by all other members of the household either by virtue of his age or standing in the household as the head. He/she should be a permanent resident of the house and he/she is the main person responsible for decision making regarding use of household resources..

!**Agricultural Holding**: This is an economic unit of agricultural production under single management. This unit may have been grown various crops. For the purpose of the survey, the agricultural holdings are restricted to those which meet one of the following conditions:
- Having or operated at least 25 sq meter of arable land
- Own or keep at least one head of cattle or five goats/sheep/five pigs or fifty chicken/ducks/turkeys during the agricultural year 2007/08 (from October 2007 to September 2008).

Question Specific Definitions:

Type of Agriculture holding Codes (Q2.1):
Crops only: A holding is referred to be a crop only holding if it has cultivated at least one piece of land. This also applies to all households owning or have kept livestock whose number does not qualify such households to be an agricultural holding (No cattle, less than 5 goats/sheep/pigs, less than 50 chickens/turkeys/rabbits).

Livestock only: A holding is referred to be a livestock only holding if it has exercised livestock husbandry only during the 2007/08 agricultural year.

NOTE
For agricultural holding only and pastoralist holding only; the number of livestock should be at least one head of cattle, not less than five goats/sheep/pigs, not less than 50 chickens / turkeys / rabbits. This also applies to households having or operated less than 25 sq meter of cultivated land (which does not qualify the household to be considered as agricultural holding) but has the number of livestock that makes the holding qualifies to be considered as livestock holding.

Pastoralist holding: This refers to a household which practices livestock production as its major income generating activity and a means of subsistence, but moves from one place to another searching for water and pasture for the livestock. This movement usually involves long distances and in many cases the whole household unit moves with the livestock and they have no permanent place of residence.

Both crops and livestock: A holding is referred to be a both crops and livestock if it has cultivated a piece of land equal or exceeding 25 sq meter and if such households have own or kept livestock whose number qualify such household be considered as an agricultural holding.

Procedures for questions:

Q 2.1 Type of agriculture household/holding

Using the options under the question classify the type of agriculture household/holding

Note: If the household had an acre of crops and raised 40 chickens during 2007/08, it is classified as 'Crops only' as the number of chickens does not qualify the household as a livestock holding.

1.0 IDENTIFICATION DETAILS

Identification

1.1 **Location**

Na.	Location Name	Codes
1.1.1	Rgion ……	
1.1.2	District ……	
1.1.3	Ward ……	
1.1.4	Village ……	

1.2 Deatails of the respondent or household head

Na.		Codes
1.2.1	Name and number of local leader	
1.2.2	Name and number of household head ……..	
1.2.3	**Sex of household head**	
1.2.4	Name of respondent ……..	
1.2.5	**Relationship of Respondent to household head**	

Relationship to household head codes (Q 1.2.5)

Head of Household *……..1* *Son /Daughter…….....3* *Grandson/Granddaughter…….....5* *No relationship…….7*
Spouse……..…..2 *Father/Mother……...4* *Other relatives……6*

2.0 ACTIVITIES OF THE HOUSEHOLD

2.1	Typeof Agriculture Household	

Household agricultural activities codes(Q 2.1)

Crops only……...1 Livestock only ……...2 Pastoralist……3 Crops and Livestock ……...4

Definition and working page for page 2

Question Specific Definitions:

Relation to head (Col 2):
Household Head: A person who is acknowledged by all other members of the household either by virtue of their age or standing as the household head.

Read and Write (Col 8)
Any other language: Must be a written language.
For someone who can read and write in Kiswahili and any other language apart from English, the correct code is 1. For one who can read and write in English and any other language apart from Kiswahili the the correct code is 2. Code 4 should only be used for any other language which is not English or Kiswahili.

Education Level Reached (Col 10):
Ask the respondent the highest educational level reached. This aims at establishing whether at the time of enumeration the member of the household is studying has completed or has never studied. Make further enquiry for the level of education reached for those who have completed studies. Establish if the member had attained any training after graduation for the purposes for completing column number 9. For those who still continue attending studies during the period of this survey, establish their learning stage. For instance for a household member who studied up to Standard Three but did complete his/her education at this level, then his/her highest education level reached is Standard Two. For those indicated under code 3 (not studied) in column 8 should be marked code 99 (Not applicable) in column 9.

Section 3.0 Note

Make sure that you define the hh proper to ensure that all the members of the hh are included. Ensure that you stress that the hh is not just the hh heads direct family and that it includes other people living and eating together with the family.

If you notice that the hh is large or you see many people around the hh and you have been given a smaller number of the hh members, make further enquiries until you are sure that you have captured all the hh members.

Section 3.0 Household information.

ii) For each household member complete columns 1,2,3 and 3
After completing columns 1, 2, 3 and 3 for each household member, go back to the first household member and complete the remaining columns for that member.
iii) Repeat step 2 for the rest of the household members.

3.0 HOUSEHOLD INFORMATION

Identification

3.1 Give details of personal particulars of all hh members beginning with hh head

Na.	Names of hh members *(Start with hh Head)*	Ex Start with hh Head	Sex M = 1 F = 2	Age *(98 years or more enter 97, under one year old write 00)*	Marital Status	Parental Survival: Mother	Parental Survival: Father	Not applicable for children under 5 years: Reard and Write	Education status	Levek of education attained	On farm engagements	Main activity	Off farm income yes=1 no=2
	(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*	*(7)*	*(8)*	*(9)*	*(10)*	*(11)*	*(12)*	*(13)*
01	……..….	1											
02	……..….												
03	……..….												
04	……..….												
05	……..….												
06	……..….												
07	……..….												
08	……..….												
09	……..….												
10	……..….												
11	……..….												
12	……..….												
13	……..….												
14	……..….												
15	……..….												
16	……..….												
17	……..….												
18	……..….												
19	……..….												
20	……..….												
21	……..….												
22	……..….												
23	……..….												
24	……..….												
25	……..….												
26	……..….												
27	……..….												
28	……..….												
29	……..….												
30	……..….												
31	……..….												
32	……..….												
33	……..….												

Relationship to household head (Col 2)

Head of household.....1
Female/Male…..…..…..2
Son/Daugther…….....3
Father/Mother……...…4
Grandson/daughter….5
Other Relatives.....6

Marrital Status(Col 4)

Married.....…….…..1
Single.....…….…..…2
Co-habiting 3
Divorced
Separated..... …….…..…...4
Widow/widower...……..5

Survival of Parents(Col 6 & 7)

Yes.....1 No 2
Dont't know ...……..3

Ed.ucation Level(Col 9)

Studying ……..1
Has completed…..……....2
Never been to school ..…3

Reading and writing (Col 8)

Kiswahili…….....……..1
English …….....……2
Kiswahili and English….....3
Lugha nyingine…….....…...4
Canno tread or write.....….5

Education Level (Col 10)

Primary education	***Secondary Education***
Below Standard One.....00	*Form One.....11*
Standard One 01	*Form Two 12*
Standard Two.....02	*Fomr Three.....13*
S tandard Three.....03	*Form Four 14*
S tandard Four.....04	*Form Five 15*
S tandard Five.....05	*Form Six 16*
S tandard S ix 06	*Training after Seo.ondary Ed.....17*
S tandard Seven.....07	*University and other Tertiary Ed...8*
Daras S tandard E ight ..08	*Adult*
Education.....19	
Training after Primary Ed...09	*Not apllicable 99*
Pre Form One.....10	

Involvement in farming activitie (Col 11)

Works on farm full time.....1
Works on farm part time.....2
Rarely works on farm.....3
Never works on farm..... 4

..... **Main activity (Col 12)**

Crop farming: ……..01.
Livestock farming/herding: ….02.
Pastoralist ……03
Fishing ……..04
Fish farming ……..……05
Paid employment / Government/parastal……06
Private/NGOs ……07
Self employee (Off- farm cativities)
- With employees ……..08
- Without employees ……..09

Non paid household member (off – farm activities) ……10.
Unemployed but available for work ….11
Unemployed but unavailable for work..12
House mother ……13
Student ……14
Unable to work too old, too young, retired, disabled,child 15
Others (specify) …….....*98*

Off-farm Income (Col 13)

These are income made from activities NOT on the HH's farming activites. This can be from formal employmenbt (e.g. in gpvrenment etc.), temporary jobs, casual labourers and income generation activity and includes working for cash on other people's farms.
Indicate whether each member was involved in an off farm income generating activity during 2007/08

Definitions and working page for page 3

Definitions for Key Specific Questions
Section 4.1 – Land Access/Ownership
These are areas that were used by the households for the 2007/08 farming season

Lease/Certificate of Ownership: Area under lease/certificate of ownership refers to the areas which were issued by the government. The household possesses government issued leasehold little or certificate of ownership. The land will normally be officially surveyed and boundaries marked. This includes leased land bought from others where the lease/certificate of ownership has been transferred.

Customary Law: This refers to the land which the household does not have an official government but its right of use is granted by the traditional leaders.
Bought: This refers to the areas of customary land that has been bought from others. This land does not have an official title and therefore is not leasehold.
Rented from others: Land rented from others for cash or for a fixed amount in crop produce (e.g. fixed number of bags at harvest).

Borrowed: use granted by land owner free of charge. Land owner can either be a lease holder or has right of access through customary law.
Share cropping: where the household is permitted to use land which is then paid for from a percentage of the harvested crop

Section 4.2 Land Use
Temporary crops: are sown and harvested during the same agricultural year
Permanent crops: are crops once sown or planted last for some years and need not to be replanted after each annual harvest.
Permanent crops /mixed crops: This is a mixture of permanent and seasonal crops. The two crops can either be randomly planted together or in a particular pattern e; for example intercropping (1 row of maize and 1 row of beans). A field that has been divided into plots for different crops is not mixed).
This is further subdivided into:
Mixture of Permanent crops – two or more permanent crops grown tougher
Mixture of Permanent and Temporary crops – permanent crop and annual crop together
Mixture of Temporary crops– two or more temporary, annual crops grown together
Pasture land: this is an area of owned/allocated land which is set aside for livestock grazing. It can be improved pasture where the farmer has planted grass, applied fertilized or where other means have been applied to improve the pasture. Or it can be natural pasture.
Natural Bush: Land which has naturally grown shrubs and trees and is considered productive but is not utilized for farming or livestock production.

Overview to section 4

Overview to section 4
Section 4.0: Preliminary note
Land Access/Ownership
Land access/ownership refers to the area utilized by the members of the household. This does not include communal land where the resources are shared between household members. It does not include official communal land that the household has sole access to for example a plot for crop farming in the communal area.

Procedures for questions

Section 4.0 – Land Ownership
1. Ask the respondent if he knows the total areas of land the household has sole access to. If he knows make a note in the calculation space
2 Ask the respondent the area of the different land ownership categories the household has sole access to (Q4.1, 1 to 4.1.7) and record in the appropriate spaces.
3. Add up the area of the different categories of land and compare it with the total area obtained in step 1 (if the respondent provided the information)
4. If the total area is different find out which one is correct and make

Section 4.2: Land Use
1. Ask the respondent the area of the different land use categories the household has sole access to (Q4.2.1 to 4.2.12) and record in the appropriate spaces.

2. Add up the area of the different categories of land and compare it with the total area obtained in section 4.0. The total area should be the same.

3. If the total area is different find out which one is correct and make amendments where appropriate.

4.0 LAND ACCESS/OWNERSHIP/TENURE Identification

4.1 LAND ACCESS/OWNERSHIP/TENURE

Give details on Area owned by the household during 2007/08 agricultural season.

	Give area as reported by the respondent in acres	**Area in Acre**
4.1.1	Area under certificate of ownership	.
4.1.2	Area owned under customary law	.
4.1.3	Area bought	.
4.1.4	Area rented from others	.
4.1.5	Area borrowed from others	.
4.1.6	Area share cropped from others	.
4.1.7	Area under other forms of tenure	.
	Total area	.

4.1.8	Was the whole household area used during the 2007/08 agricultural season? (Yes=1, No=2)
4.1.9	Do you consider to have enough land for your household? (Yes=1, No=2)
4.1.10	Is there any female who owns land or has customary rights to land ownership in this household? (Yes=1, No=2)

4.2 LAND USE

Area used by the household for various agricultural activities during 2007/08 agricultural season

	Enter area as reported by the respondent in acres	**Area in acre**	Working space for calculations
4.2.1	Area planted temporary monocrops	.	
4.2.2	Area planted temporary mixed crops (e.g. maize and beans)	.	
4.2.3	Area planted permanent moncrops	.	
4.2.4	Area planted permanent mixed crops (e.g. banana, coffee, trees)	.	
4.2.5	Area planted permanent and temporary mixed crops (e.g. maize and banana)	.	
4.2.6	Area under pasture	.	
4.2.7	Area under fallow	.	
4.2.8	Area under natural forest	.	
4.2.9	Area planted trees	.	
4.2.10	Area rented to others	.	
4.2.11	Area unsuitable for agricultrure	.	
4.2.12	Uncultivated arable land (minus area under fallow)	.	
	Total area	.	

Definitions and working page for page 4

Working table for the calculation area for annual mixed crops

Mixed crops 1	Crop Name	Total area of mixed (acre)	Area for plants (acre)	Total number of plants	Total area of plants (acre)
(a)	*(b)*	*(c)*	*(d)*	*(e)*	*(f)=(d)*(e)*
Permanent crop 1			0.000		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		.
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		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 temporary crop
Name of the crop temp/permanent 1		.
Name of the crop temp/permanent 2		.
Name of the crop temp/permanent 3		.
Check total area .	Check total area for temporary crops	.

Planted Area: Area in acre the household was able to plant
Harvested Area: Area in acre the household was able to harvest a large portion of harvests. this is the same as the area planted minus the area that was destroyed by floods/ pets /

Temporary/Annual Crops
Crops planted and harvested within 12 months after which time the plants die . Most annual crops are planted and harvested on a seasonal base.

Cash crop codes:

Code	Crop
50	Cotton
51	Tobacco
53	Payrethrum
62	Jute
19	Seaweed

Crop Codes(Creal / Tubers/ Roots:

Code	Crop
11	Maizei
12	Paddy
13	Sorghum
14	Buirush Millet
15	Finger Millet
16	Wheat
17	Barley
22	Sweet Potatoes
23	Irish Potatyoes
24	Yams
25	Cocoyamsi
26	Onions
27	Gingeri

Vegetable Codes:

Code	Crop
86	Cabbage
87	Tomatoes
88	Spinach
89	Carrot
90	Chillies
91	Amaranths
92	Pumpkin
93	Cucumber
94	Egg plant
95	Water mellon
96	Cauliflower
06	Melllon
05	nyanyachungu
02	Ocra
03	Radish
01	Green Beans
04	Bizari

Crop Codes Legumes and Oil

Code	Crop
31	Beans
32	Cowpeas
33	Green Gram
34	Chick Peas
35	Dengu
36	Bambara nuts
37	Njegere
41	Sun flower
42	Simsim
43	Ground uts
47	Soya beans
48	Caster Seed

Instructions for calculating the area of mixed crops in a mixture

A. If the mixed crop is mixed annual ly only enter the total area of the field in the remaining area under temporary Crop and go to step one of these instructions.

B. If the mixed crop is mixed permanent and annual try to work tyhe percent age taken by the different crops and calculate the area of annual crops outlined in step 1. Otherwise use the number of trees method to calculate the area of annula crops in the mix.

C: Number of trees method to calculate annual crop areas in a permanent-annual crop mix.:

(i) List each of the permanent crop in collumn **b** and enter the ground area per acre for each permanent crop (from instrcutions for page 8) in colum d.

(ii) Enter the number of permanent trees in the mix in collumn e as will be provided to you by the respondent

(iii) Calculate the area occpied by each crop by multiplying collumn d and collumn e and sum up these to obatin the total area of permanent crops in the mix.

iv) To obatin the area for tempofrary crops , substract **(-)** the area fro permanent crops from thne total area of crop mix and enter the resulst in in the total area under temporary crops.

(v) Proceed to step 1 to calculate the area under each temporary crop.

1. Enter the name of each temporary crop in tyhe crop mix and estimate percentages of each crop**.**

2. Using the percentage for each crop, calculate the are for each crop from the remaining area under tenmporary crop.

3. After completing the exrcise for all the fields, sum the area of each crop in tyhe mix plus any monocrops and uenter the totals in section 5.1.1 Collumn 3.

4. Once the quantity harvested is obtained , caklculate the yields (metric tonnes/acre) and compare the figures with the norms given in the crops code box. If there is significantly differentce, check the area and the amouint harvested..

5.0 PERMANENT AND TEMPORARY CROP PRODUCTION

5.1 ANNUAL CROPS AND VEGATBLE PRODUCTION-SHORT RAINY SEASON

Identificatoion

Did your household palnted any crop duding short rainy season for 2007/08 agricultural year? Yes = 1, No = 2,(If the answer is yes proceed to Section 5.3)

5.1.1 Provide the following details for each crop planted during the short rainy season for 2007/08 agricultural year

Name of Crop	Planting: Crop code	Planting: Actual area plnated (acre)	Main crop owner: Enetr the number of the hh member from page 2 on information for hh members	Pembejeo: Use of Seeds: The type of seed planted	Use of Seeds: Use of seeds	Use of Seeds: Quantity: Quantity	Use of Seeds: Quantity: Quantity used	Use of Seeds: Cost (Tshs)	Irrigated area	Use of fertilisers (If 6 is the answer in col 11 proceed to col 16): Cultivated area	Tyep of fertilisers used	Quantity of fertilisers: Measurement	Quantity of fertilisers: Quantity used	Coist (Ths)	Use of chemicals agaisnt weeds (If 6 is the answer in col 11 proceed to col 20): Cultivated areaEneo lililotumika	Qunaity of agrochemicals: Quantity	Qunaity of agrochemicals: Quantity used	Cost
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
……																		
……																		
……																		
……																		
……																		
……																		
……																		
……																		
……																		
Total area planted																		

Type of seeds planted (Col 5)
Local seeds ...1
Improved seeds……...2

Use of agricultural seeds (Col 6.)
For the whole crop.....1
3/4 of the whole crop……...2
1/2 of tyhe whole crop……...3
1/4 ofd the whole crop……...4
Under 1/4 of the whole crop...5

Qunatity (Col 7)
Kg 1
Seedlings....2
Gram…...3

Use of farm inputs (SCol10,11 & 16)
For the whole crop.....1
3/4 of the wholrecrop……...2
1/2 of tyhe whole crop……...3
1/4 ofd the whole crop……...4
Under 1/4 of the whole crop...5
Not used ……6

Type of fertilsers (Col 12)
Organic fertiliser……...1
inorganic fertlisers.....2

Quantity (Col 17)
Kig 1
Litre.....2
Gram…...3
Millilitre…...6

Kipimo (S/wima 13)
Kilo 1
Lita.....2
Milli-lita..3

Main crop owner: (Col 4)
Enter number of hh member from page 2 on details on hh members in Q. 3

5.2 ANNUAL CROPS AND VEGATBLE PRODUCTION-LONG RAINY SEASON CONTINUED …

5.2.1 Provide the following details for each crop planted during the short rainy season for 2007/08 agricultural year

Identification

Name of crop	Crop code	Use of fungicides (If 6 is the answer in col 20 proceed to col 24)				Use of pesticides (If 6 is the answer in col 24 proceed to col 28)				Harvesting and Storage			Marketing		
		Area used	Size: Quantity	Size: Used	Cost	Area used	Size: Quantity	Size: Used	Cost	Quantity harvested (kg)	Quantity stored (kg)	Main storage methods	Quantity sold (kg)	Where was the crop mostly sold?	Main problems in crop marketing
(1)	(2)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)
……															
……															
……															
……															
……															
……															
……															
……															
……															

Use of farm inputs (Col 20&24)

For the whole crop.....1
3/4 of the wholrecrop…….....2
1/2 of tyhe whole crop…….....3
1/4 ofd the whole crop…….....4
Under 1/4 of the whole crop...5
Not used ……..……6

Quantity (Col 21&25)

Kig …….1
Litre.....2
Gram…..3
Millililitre…..6

Main Storage mechanisms (Col 30)

Locall storage facilities……1
Improved Local storage facilitiies 2
Modern store…….....3
Open drums/sacks.. 4
Cealed drums……...5
In heaps.....O.....6
not Stored.....7
Other means ()Specify.....8

Where the crop was sold(Col 32)

Neighbours……..……..01 Private Businessman.....08
Open markets. ……....02 Contract farming.....09
Auctions……..03 Not sold……..10
Main Market……....04 Others 98
Cooperative Union….05
Farmers Association..06
Large Scale farm……....07

Marketing problems (Col 33)

Very low prices.....01 No problem 11
No transport……....02 Others (Specify 98
High transport costs.....03 Not applicable 99
Lack of crop buyers 04
Markets located far away ..05
Problems with farmers Associations 06
Probloems with cooperative Unions 7
Problems with Businessmen Association ...8
Strigent Government Conditions ...9

Definitions and working page for page 5

Storage (Col. 30, Q 5.1.1):
- **Traditionally Made strcutures:** The design of storage structures villagers have inherited from forefathers .
- **Improved Traditionally made structures:** The design of tradional storagesrutures improved through modern technology.

Marketing Challenges Q 5.1.1 Col. 33:

- **Farmers' Association:** Village farmers who came together and started an association for the puporses of purchasing inputs/selling/storage of crops aiiming at fetching better prices.
- **Cooperative Union:** A large inter-village/community set up in the district/ region or at national level for providing inputs, markets and storage of farmers' crops.
- **Government Regulatory laws for crops marketing:** Government instituted laws for regulating transportation and selling of crops.

Inputs (Q 5.1.1)

Farm Yard Manure: An organics fertliser made on farm from animal dung. .
Compost: An organic fertiliser made on farm from decomposed plant materials.
Insectcides: This is the chemical usde in protecting plants or killing pests.
Fungicides: Protects plants from fungi attack.
Herbicide: Chemicals used to control or kills weeds.
Improved seeds: Scientifically attested to be suitable for agricultural use.

Questions specific definitions

Q 5.1.1. Instructions on crops storage:
1. For the listed crops establish whether or not the household stored crops for 2007/2008 agricultural season.

2. For the listed crops give explanations on storage.

Crops storage is keeping/reserving crops in a container or a special place for future use.

Q 5.1.1 Col 31
1. For each of crops listed indicate major marketing problems for 2007/2008 agricultural season.

Working area/calculation space

Definitions and working page for page 6

Working table for the calculation area for annual mixed crops

Mixed crops 1	Crop Name	Total area of mixed (acre)	Area for plants (acre)	Total number of plants	Total area of plants (acre)
(a)	*(b)*	*(c)*	*(d)*	*(e)*	*(f)=(d)*(e)*
Permanent crop 1			0.000		0 .
Permanent crop 2			0.000		0 .
Permanent crop 3			0.000		0 .
Permanent crop 4			0.000		0 .
Total Area for 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		.
Name of the crop temp/permanent 2		.
Name of the crop temp/permanent 3		.
Check total area .	Check total area for temporary crops	.

Mazao mchanganyiko 2	Name of plant	Total area mix (acre)	Area for the plant (acre)	Total of plants	Total area for plants (acre)
(a)	*(b)*	*(c)*	*(d)*	*(e)*	*(f)=(d)*(e)*
Permanent crop 1			0.000		0 .
Permanent crop 2			0.000		0 .
Permanent crop 3			0.000		0 .
Permanent crop 4			0.000		0 .
Total area for mixed crops			Total area for permanent crops		0 .

The remaining area for temp crops . .

	% of temporary	Area for temporary crop
Name of the crop temp/permanent 1		.
Name of the crop temp/permanent 2		.
Name of the crop temp/permanent 3		.
Check total area .	Check total area for temporary crops	.

Planted Area: Area in acre the household was able to plant
Harvested Area: Area in acre the household was able to harvest a large portion of harvests. this is the same as the area planted minus the area that was destroyed by floods/ pets /

Temporary/Annual Crops
Crops planted and harvested within 12 months after which time the plants die . Most annual crops are planted and harvested on a seasonal base.

Cash crop codes:

Code	Crop
50	Cotton
51	Tobacco
53	Payrethrum
62	Jute
19	Seaweed

Crop Codes(Creal / Tubers/ Roots:

Code	Crop
11	Maizei
12	Paddy
13	Sorghum
14	Buirush Millet
15	Finger Millet
16	Wheat
17	Barley
22	Sweet Potatoes
23	Irish Potatyoes
24	Yams
25	Cocoyamsi
26	Onions
27	Gingeri

Vegetable Codes:

Code	Crop
86	Cabbage
87	Tomatoes
88	Spinach
89	Carrot
90	Chillies
91	Amaranths
92	Pumpkin
93	Cucumber
94	Egg plant
95	Water mellon
96	Cauliflower
06	Melllon
05	nyanyachungu
02	Ocra
03	Radish
01	Green Beans
04	Bizari

Crop Codes Legumes and Oil

Code	Crop
31	Beans
32	Cowpeas
33	Green Gram
34	Chick Peas
35	Dengu
36	Bambara nuts
37	Njegere
41	Sun flower
42	Simsim
43	Ground uts
47	Soya beans
48	Caster Seed

Instructions for calculating the area of mixed crops in a mixture

A. If the mixed crop is mixed annual ly only enter the total area of the field in the remaining area under temporary Crop and go to step one of these instructions

B. If the mixed crop is mixed permanent and annual try to work tyhe percent age taken by the different crops and calcualet the area of annual crops outlined in step 1. Otherwise use the number of trees method to calculate the area of annula crops in the mix.

C: Number of trees method to calculate annual crop areas in a permanent-annual crop mix.:

(i) List each of tyhe permanent crop in collumn **b** and enter the ground area per acre for each permanent crop (from instrcutions for page 8) in colum d.

(ii) Enter the number of permanent trees in the mix in collumn e as will be provided to you by the respondent

(iii) Calculate the area occpied by each crop by multiplying collumn d and collumn e and sum up these to obatin the total area of permanent crops in the mix.

iv) To obatin the area for tempofrary crops , substract **(-)** the area fro permanent crops from thne total area of crop mix and enter the resulst in in the total area under temporary crops.

(v) Proceed to step 1 to calculate the area under each temporary crop.

1. Enter the name of each temporary crop in tyhe crop mix and estimate percentages of each crop**.**

2. Using the percentage for each crop, calculate the are for each crop from the remaining area under tenmporary crop.

3. After completing the exrcise for all the fields, sum the area of each crop in tyhe mix plus any monocrops and uenter the totals in section 5.1.1 Collumn 3.

4. Once the quantity harvested is obtained , caklculate the yields (metric tonnes/acre) and compare the figures with the norms given in the crops code box. If there is significantly differentce, check the area and the amouint harvested..

5.3 PERMANENT/PERENNIAL CROPS AND FRUIT TREE PRODUCTION

Identification

Does your household have any permanent/perennial crops or fruit trees Yes =1, No = 2, (If answer is NO proceed to Section 6.0)

5.3.1 Give details on permanent/perennial crops or fruit trees

		Production Section				Farm inputs									
		Monocrops	Mixed crops		Main crop owner: Enetr the number of the hh member from page 2 on information for hh	Uses of seeds						Uses of Fertilisers (If 6 is the answer in col 13 proceed to col. 17)			
Name of permanent/perennial crop	crop code of permanent / perennial crop/fruit trees	Area for trees/seedling/branch/bushes	Are for mixed crops (Acre)	Number of Tplants/ trees in the crop mixh of permanent and perennial crop		Type of planted seeds	Cultivated area	Size: Quantity	Size: Used	Cost (Ths)	Irrigation	Area used	The type of fertiliser used	Quantity of fertiliser (kg)	Cost (Ths)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
.....															
.....															
.....															
.....															
.....															
.....															
.....															
.....															
.....															

Type of seed planted (Col 7)
Local seeds.....1
Improved seeds.....2
Dont't know/ Not applicable...3

Main crop owner (Col 6):
nter the number of the hh member from page 2 on information for hh members in Q 3

Area culltivated (col. 8)
For the whole crop.....1
3/4 of the whole crop.....2
1/2 of tyhe whole crop.....3
1/4 ofd the whole crop.....4
Under 1/4 of the whole crop...

Qunatity (Col 9)
Kg 1
Seedlings....2
Gram.....3

Use of farm inputs (Col 12 & 13)
For the whole crop.....1
3/4 of the wholrecrop.....2
1/2 of tyhe whole crop.....3
1/4 ofd the whole crop.....4
Under 1/4 of the whole crop...5
Not used 6

Type of fertilsers (Col 14)
Organic fertiliser... 1

5.3 PERMANENT/PERENNIAL CROPS AND FRUIT TREE PRODUCTION CONTINUED …..

Identification

5.3.1 Give details on permanent/perennial crops or fruit trees during 2007/08 agricultural year

Name of crop	Crop code	Uses of weeds control chemical (If 6 is the naswer in col 17 Proceed to col 21)				Use of fungicides (If 6 is the answer in col 20 proceed to col 24)				Use of pesticides (If 6 is the answer in col 25 proceed to col 29)				Crop harvesting and storage					Marketing	
		Area used	Size		Cost	Area used	Size		Cost	Area used	Size		Cost	Harvested area (acre)	Quantity of mature plants	Quantity harvested (kg)	Quantity stored (kg)	Njia Kuu ya kuhifadhi	Quantity sold (kg)	Main marketing problem
			Quantity	Used			Quantity	Used			Quantity	Used								
(1)	(2)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)
……																				
……																				
……																				
……																				
……																				
……																				
……																				
……																				
……																				

Area used (Col 20&24)

For the whole crop……1
3/4 of the wholrecrop….. …….2
1/2 of tyhe whole crop….. … ..3
1/4 ofd the whole crop….. … ..4
Under 1/4 of the whole crop…5

Main Storage mechanisms (Col 33)

Locall storage facilities… … … … … …. ..1
Improved Local storage facilitiies ……..2
Modern store… ……. … … … … …… ..3
Open drums/sacks…… …… ..4
Cealed drums…. …… … … … ..5
In heaps……6
not Stored……7
Other means ()Specify…… … … … … …..8

Marketing problems (Col 35)

Very low prices……01 No problem ……11
No transport……02 Others (Specify ……98
High transport costs……03 Not applicable ……99
Lack of crop buyers ……04
Markets located far away ..05
Problems with farmers Associations 06
Probloems with cooperative Unions ….7
Problems with Businessmen Association …8
Strigent Government Conditions …9

Quantity (Col 18, 22, & 26)

Kig … … .1
Litre……2
Gram… ..3
Millilitre… ..6

Definitions and working page for page 7

Storage (Col. 30, Q 5.2.1):
- **Traditionally Made strcutures:** The design of storage structures villagers have inherited from forefathers .
- **Improved Traditionally made structures:** The design of tradional storagesrutures improved through modern technology.

Marketing Challenges Q 5.2.1 Col. 33:

- **Farmers' Association:** Village farmers who came together and started an association for the puporses of purchasing inputs/selling/storage of crops aiiming at fetching better prices.
- **Cooperative Union:** A large inter-village/community set up in the district/ region or at national level for providing inputs, markets and storage of farmers' crops.
- **Government Regulatory laws for crops marketing:** Government instituted laws for regulating transportation and selling of crops.

Inputs (Q 5.2.1)

Farm Yard Manure: An organics fertliser made on farm from animal dung. .
Compost: An organic fertiliser made on farm from decomposed plant materials.
Insectcides: This is the chemical usde in protecting plants or killing pests.
Fungicides: Protects plants from fungi attack.
Herbicide: Chemicals used to control or kills weeds.
Improved seeds: Scientifically attested to be suitable for agricultural use.

Questions specific definitions

Q 5.2.1. Instructions on crops storage:
1. For the listed crops establish whether or not the household stored crops for 2007/2008 agricultural season.

2. For the listed crops give explanations on storage.

Crops storage is keeping/reserving crops in a container or a special place for future use.

Q 5.2.1 Col 33
1. For each of crops listed indicate major marketing problems for 2007/2008 agricultural season.

Working area/calculation space

Definitions and working page for page 8

Permanent Crops:
These are crops once planted last longer in the farm and need not be replanted after each annual harvest. Most of the permanent plants include tress such as coconut tress, apple trees, grape trees, banana trees, pineapple trees etc.

Number of Trees:
These include manure trees and premature trees.

Number of mature plants:
A total of fruit bearing tress (e.g. mango trees, orange trees, avocado trees e.t.c).

Instructions for permanent monocrops and crop mix:
A. For a field with permanent monocrop enter farm size in collumn. 3.
B. For a field with a permanent crop mix or a temporary crop mix, enter the number of trees only in collumn **4**.
C. For a field with a permanent crop mix /temporary annual crops , either:
-Enter the area in collumn 4, if the total arae for permanent crops was obatined through calcualtion of percentages of each crop
OR
Enter the number of tree in collumn 5, if the number of plants/ seedlings of permanent crops was excluded

21 Cassava: Cassava is a temporary crop, in order to simplify data collection on areas of production, data on cassava will be collected from areas under permanent crops.

Permanent crops:(crop oils)

Code	Crop	Area per crop
44	Palm Trees	0.00049
45	Coconut tree	0.00037
46	Cashew nut tress	0.00062

Permanent crops (Cash crops)

Code	Crop	Area per crop
53	Sisal	0.00012
54	Coffee	0.00049
55	Tea	0.00037
56	Cocoa	0.00049
57	Rubber	0.00099
58	Wattle	0.00099
59	Kapok	0.00124
60	Sugar-cane	0.00012
61	Cardamon	0.00049
63	Tamarin	0.00099
64	Cinarmon	0.00124
65	Nutmeg	0.00099
66	Clove	0.00074
18	Black pepper	0.00037
34	Pigeon Peas	0.00025
21	Cassava	0.00019
75	Pineapple	0.00006
86	Lemon Grass	

Permanent crops:

Code	Crop	Area per crop
70	Passion Fruit	0.00074
71	Bananas	0.00037
72	Avocado	0.00099
73	Mango	0.00099
74	Pawpaw	0.00037
76	Orange	0.00074
77	Grape fruit	0.00074
78	Grape	0.00012
79	Mandarin	0.00074
80	Guava .	0.00074
81	Plums	0.00074
82	Apples	0.00074
83	Peaches	0.00074
84	**Mifyoksi**	0.00074
85	Lime/lemon	0.00074
68	Pomelo	0.00099
69	Jack Fruit	0.00074
97	Durian	0.00074
98	Bilimbi	0.00074
99	Rambutan	0.00074
67	Bread Fruit	0.00099
38	Malay apple	0.00074
39	Star Fruit (Sakua)	0.00074

Definitions and working page for page 9

Storage (Col. 33, Q 5.3.1):
- **Traditionally Made strcutures:** The design of storage structures villagers have inherited from forefathers .
- **Improved Traditionally made structures:** The design of tradional storagesrutures improved through modern technology.

Marketing Challenges Q 5.3.1 Col. 35:

- **Farmers' Association:** Village farmers who came together and started an association for the puporses of purchasing inputs/selling/storage of crops aiiming at fetching better prices.
- **Cooperative Union:** A large inter-village/community set up in the district/ region or at national level for providing inputs, markets and storage of farmers' crops.
- **Government Regulatory laws for crops marketing:** Government instituted laws for regulating transportation and selling of crops.

Inputs (Q 5.3.1)

Farm Yard Manure: An organics fertliser made on farm from animal dung. .
Compost: An organic fertiliser made on farm from decomposed plant materials.
Insectcides: This is the chemical usde in protecting plants or killing pests.
Fungicides: Protects plants from fungi attack.
Herbicide: Chemicals used to control or kills weeds.
Improved seeds: Scientifically attested to be suitable for agricultural use.

Questions specific definitions

Q 5.3.1. Instructions on crops storage:
1. For the listed crops establish whether or not the household stored crops for 2007/2008 agricultural season.

2. For the listed crops give explanations on storage.

Q 5.3.1 Col 35
1. For each of crops listed indicate major marketing problems for 2007/2008 agricultural season.

Working area/calculation space

Definitions and working page for page 10

Investment in agriculture
Investment activities:
Investment activities refer to medium to long term farm development structures and projects. This can be irrigation structures, erosion conrol and water harvesting structures or other permanent or semi-permanent investment made on the land that the household owns.

Irrigated farming: Section 6.5:
Source of irrigation water (Col 1): The main source of the water used for irrigation.
Method of obtaining water (Col 2): The mechanism by which the water is extracted from the source
Irrigatable area (Col 3): The area the irrigation system is designed to cover in acrage
Area of irrigated land during the 2007/08 (Col 5): Area of land under irrigation during the 2007/08 agricultural year. This is the actual area nd NOT the cumulative areas recultivated in 2 or more cropping seasons.

Farm Implements (Col. 1):

Machette : Includea all implements use in tree cutting namely cicle, et.c.

Sprimkler: The pump carrued on the back or a hand used water pump
Hand used small tractor: A small tractor used in cultivation while the user walks on foot (see photo).

Section 6.2 Use of draft animals
Animals used in agricultural activities by the household during 2007/08 agricultural season.

Castrated Bulls: Castrated oxen meant for use in agricultural production.
Uncastrated Bulls: mature bulls used for garicultrural activities but are not castrated**.**
Cow: Farmers also use mature female cattle in agricultural activities due to shortage of bulls
Donkey: Mature Male or female donekys are also used for agricultural production.

Q 6.5 Irrigation.
1. If a household uses irrigated farming give explanations aon source and method of obatining water**.** .
2. **See Col** 10, Q. 5.1.1 and 5.2.1 and **Col** 12, Q 5.3.1 to see if irrigation was applied to any crop.

Farm implements, Q 6.1:
1. Collumn **2** Indicate whether or not inputs were used
2. Complete collumn 3 by entering the number of inputs used.

Farm inputs: Sections 6.3 and 6.4

1. Collumn **2** Indicate whether or not inputs were used.
2. Compelte collumn 3 by indicating where the inouts were obatined and collumn 4 by indicating the distance from where the inputs were obatined

Compost: An organic fertiliser made on farm from decomposed plant materials.
Insectcides: This is the chemical usde in protecting plants or killing pests.
Fungicides: Protects plants from fungi attack.
Herbicide: Chemicals used to control or kills weeds.
Improved seeds: Scientifically attested to be suitable for agricultural use.

Tractor tiller		
Tractor hallow		
Castrated bulls		
Uncastrated bulls		
Cows		
Donkeys		
Shredding Machine		
Power Tiller		
Oxen pulled plough for making terraces		

6.2.6	Power Tiller			

6.3 USE OF ORGANIC FERTILISERS

6.3.1 Give details on the use of organic fertlisers during 2007/08 agriculture year

	Type of fertiliser	Used Yes=1, No=2	Quantity	Quantity used	Area used (Acre)
	(1)	(2)	(3)	(4)	(5)
6.3.2	Manure				
6.3.3	Compost				

KQuantity (Col 3)
Kg……1
Ton……..2

ACCES TO INPUTS

Give details on inputs used during 2007/08 agricultural year

Name of inputs	Used (Yes=1, No=2)	Source	Distance
(1)	(2)	(3)	(4)
Inorganic fertilisers			
Farm yard manure			
Compost			
Insecticides/Fungicide			
Pest and weeds control chemicals			
Improved seeds			

Source (Col.3)
Government……..01
Cooperative Union…... ...02
Farm inputs store/market.....03
Auction.....04
Development project……....05
Corp buyers…....06
Large Scake farms…....07
Made by the household.....08
Form neighbour.....09
Cooperative Union…….....10
Others ....…….....98
Not applicable.....99

Distance from the source (Cola 4)
Under 1 kilometre……....1
Btween One and three kilometres 2
Btween three and 10 killometres3
Between 10 and 20 Kilometres 4
Over 20 Kilometres.....5
Not applicable.....9

IRRIGATED FARMING

Did the household use irrigated farming during 2007/08 agriculture year? Yes=1, No = 2

If the answer is yes proceed to Section 6.6

Na.	Main source of water for irrigation	Main source of obtaining water	Area that can be irrigated (Acre)	Area irrigated during 2007/08 agriculture year (Acre)
	(1)	(2)	(3)	(4)
6.5.2				

Source of irrigation water (Col 1)
River……1 Wells ……..…..4
Lake ……..2 Deep wells…… .5
Dams……..3 Cannals …….. .6
Tape water…..…… …7

Means of obtaining water(C0l2)
Flwoing. (gravity)…….....1
Using a bucket…….....2
Water pump (using hand or leg)……....3
Electric /fuel driven pump/ mafuta……...4
Other (Specify)…....……..8

Definitions and working page for page 11

Q 6.6

The type of erosion contro/Water harvesting (Col 1)
Terraces: Structures constructed on mountain slopes to provide flat terrain for crop planting.

Erosion control bunds: these are bunks of earth/stones built perpendicular to the slope to slow dowm the speed of water and thus preventing soil erosion. Its differs from terraces in that the soils on these banks are not at ground level **.**

Gabions: A box like structure made of wire and filled with large stones to prevent gully errosion.

Sand bags: Are used in controlling and preventing gully errosion
Tree belt/wind breaks: Trees planted against the wind direction for breaking wind speed..

Section 7.0 Acces to credit for crop or livestock production
Credit refers to something provided in cash or in kind (such as farm inputs, machines, livestock and other things) for crop or livestock production. The value of the credit must be repaid back to the lender. An Interest may or may not be attached to the value of the credit
The credit may be repaid either in cash or through farm produce to be harvested **.**

In this question the enumerator is at liberty to inquire up to three sources of credit where the farmer accessed credit from more than one source.

Section 8.0 Agricultural Extension Services
Agricultural Extension Services: Refers to educational services provided to farmers by exetsion officers for the purposes of increasing crop and livestock production.

Share-cropping: Refers to farming where smallholder / Smallscale farmer enters into an agreement with large scale farmer where the former sells produce to the latter in exchange of provisions of farm inputs and the like. .

Contract farming Farming: Farming agreement entered between smallscale and large scale farmerswith regards to markets of farm produce and provision of farm inputs

Q 6.6 Number of water harvestin structures and year of construction

1. The number water haversting structures refers to the number of wokring / maintained structures and does not include derelict or iireparable structures.

2. Year of construction refers to the year in which the structures were built, and not the year the structures were last repaired.The year should be written in figures e.g. 1998, 2006.

Section 7.0 Source of agriculture credit
If tghe farmer obtained credit from more than one source the use the code from the list provided. Start with the main source of credit in Section **"7.1.1".a**

Section 8.0 Agricultural extension services

1. Ask if the household did receive agricultural extension services during 2007/08 agricultural season from the respondents listed in collumn 1, then enter column 2.

2. Complete all columns for every extension officer**.**

6.6	**SOIL EROSION**	Identification
6.6.1	Did the household experience soil erosion during 2007/08 agriculture year? *(Yes=1,No=2)*	
6.6.2	Did the household applied any methods for erosion contro/water harvesting during 2007/08 agricultural year? (Yes=1, No =2) (If the answer is No, Proceed to Section *7.0)*	

Na.	Mechanisms of controlling erosion/ Water harvesting	Number of water harvesting	Year of construction		Type of erosion control/water harvesting	Number of water harvesting	Year of construction
	(1)	*(2)*	*(3)*		*(1)*	*(2)*	*(3)*
6.6.3	Terraces			6.6.7	Tree belt		
6.6.4	Bunks for erosion control			6.6.8	Soil bunks of water harvesting		
6.6.5	Gabions/sand bags			6.6.9	Trenches		
6.6.6	Vetiva leaves			6.6.10	Other		

7.0 ACCESS TO ON FARM CREDITS

7.1 Is there any household member who accessed on farm credit during 2007/08 agriculture year? Yes=1, No=2 (If answer is NO, Proceed to Section *7.2)*

SELECT UP TO THREE SOURCES AND PROCEED TO QUESTIONA 8.0

(Source of credit Q 7.1.1, 7.1.2, 7.1.3)
Relative..... 1 Saccos....4 NGO/Development projectsi.....7
Bank... .....2 Businemen/Shop.....5
Cooperative Union.....3 Priviate individuaks.....6 Other.....9

Source of credit	7.1.1a	7.1.2a	7.1.3a
Credit provided to (Male=1, Female=2)	7.1.1b	7.1.2b	7.1.3b

7.2 IF THE ANSWER TO QUESTION 7.1 IS NO

Give reasons for not accessing credit

Reasons for not accessing credit (Q 7.2)COL
Not required .....1 Did not to be indebted.....3 Did nott know how to access credit.....5 Credit delayed.....7 Did not credit existed.....9
Not available .....2 High interest rates.....4 Bureaucracy.....6 Other (Specify).....8

8.0 ADVISORY SERVICES IN AGRICULTURE

8.1 Did the household participate in outgrowers scheme during 2007/08 agriculture year? (Yes=1, No=2)

8.2 Did the household participate in the contract farming during 2007/08 agriculture year? (Yes=1, No=2)

8.3 Did your household receive agricultural advise on the following : *(IF THE ANSWER IS NO IN COL 2 PROCEED TO THE FOLLOWING QUESTION*

Na.	Advise on agriculture	Rceived advice (Yes=1, No=2)	Source of advise
	(1)	(2)	(3)
8.3.1	Spacing		
8.3.2	Use of agrochemicals		
8.3.3	Soil erosion control		
8.3.4	Use of organic manure		
8.3.5	Matumizi ya mbolea za viwandani		
8.3.6	Use of improved seeds		
8.3.7	Use of modern farm implements		
8.3.8	Irrigation		
8.3.9	Crop Storage		
8.3.10	Pest control		
8.3.11	Other (Specify)		

Source of agricultural advice (Cokl. 3)
Government.....1 NGO/Development project.....2 Cooperative....3 Large Scale farmer....4 Ratdio/Newspapers....5 Neighbour .....6 Other source.....8

Definitions and working page for page 12

Q 9.1 and 9.3 : What is required is to establish whether or not the household kept or raised the listed livetsock during 2007/08 agricultural season (i.e. from October 2007 to September 2008). Also to establish the number of livestock as of 1st October 2008

Keeping or raising livestock is to to keep livestock at home while providing the livestock with animal feeds and medication and other services. The livestock could be owned by the farmer or kept on behalf of relatives or neighbours .

Sections 9.1.1 to 9.1.7 Cattle

Note:
Q 9.1 is for the actual number of cattle owned or kept by the household (as of 1st October 2008). This number does not include herds of cattle kept on behalf by relatives or neighbours; that is, the cattle outside the residential area of the household under survey.
1. If the the household keep mature fecund female cattle, it is expected that such a household will have calves which will be entered in question 9.1.6 or 9.1.7

Type of cattle (sectioin 9.1.1 to 9.1.7)

Bull: Mature uncastrated made cattle used for breeding
Cow: Mature female cattle that has given birth at least once

Ox: Castrated made cattle used for farm work

Steer: Castrated made cattle used for meat

Heifer: Female cattle of 1 year up to the first calving

Section 9.3 Goat
Note:
Question 9.3 is for the actual number of owned or raised by the household (as of 1st October 2008) This number does not include goats kept on behalf by relatives or neighbours, that is the goat outside the residential area of the household under survey.

1. If the household has she goats, you would normally expect them to have kids

Type of Goat (Qs 9.3.1 to 9.3.5)

Billy Goat (he-goat): Mature Uncastrated male goat used for breeding
Castrated goat: Male goat that has been castrated
She Goat: Mature female goat over 9 months of age

9.0 LIVESTOCK (LIVESTOCK AND FISH)

9.1 **CATTLE** **Identification**

Did your household keep or raise cattle during 2007/08 agriculture year? Yes=1, No= 2 (If the answer is No proceed to Section 9.3)

Number of cattle as of 1.10.2008

No.	Type of cattle	Number of indigenous cattle	Number of improved cattle: for meat	Number of improved cattle: Dairy	Total
		(2)	(3)	(4)	(5)
9.1.1	Castrated bulls				
9.1.2	uncastrated bulls				
9.1.3	Cows				
9.1.4	Steers				
9.1.5	Heifer				
9.1.6	Male calves				
9.1.7	Female calves				
				Grand total	

9.1.8 What main methods do you use to identify your cattle?

Cattle idenfificatio methods
Iron stamp (chapa moto)……1 Throat….2 Ear/tail cutting…..3
Colour……..4 Earings…5 Other ……..8

9.2 Milk production: CATTLE

Na.	Season	Type of cattle	Number of milked cows	Average of milk per cow per day (litre)	Average number of days which your cows were milked	Average price per litre per season
	(1)	(2)	(3)	(4)	(5)	(6)
9.2.1	Rainy	Improved				
9.2.2		Indigenous				
9.2.3	Dry	Improved				
9.2.4		Indigenous				

9.3 GOAT

Did your household keep or raise cattle during 2007/08 agriculture year? Yes=1, No= 2 (If the answer is No proceed to Section 9.3)

Number of goats as of 1.10.2008

Na.	Tyep of goat	Number of indigenous goat	Number of improved: for meat	Number of improved: Dairy	Total
	(1)	(2)	(3)	(4)	(5)
9.3.1	Male uncastrated goat				
9.3.2	Male castrated goat				
9.3.3	She goat				
9.3.4	Male kid				
9.3.5	She kid				
				Grand total	

Milk Production: GOAT

Na.	Season	Number of ilked goats	Average of milk per goat per day (litre)	Average number of days which your she goats were milked	Average price per litre per season
	(1)	(2)	(3)	(4)	(5)
9.3.6	Rainy				
9.3.7	Dry				

Definitions and working page for page 13

Q 9.1 and 9.3 : What is required is to establish whether or not the household kept or raised the listed livetsock during 2007/08 agricultural season (i.e. from October 2007 to September 2008). Also to establish the number of livestock as of 1st October 2008

Keeping or raising livestock is to to keep livestock at home while providing the livestock with animal feeds and medication and other services. The livestock could be owned by the farmer or kept on behalf of relatives or neighbours .

Sections 9.4 Sheep

Note:
Q 9.4 is for the actual number of sheep owned or kept by the household (as of 1st October 2008). This number does not include sheep kept on behalf by relatives or neighbours; that is, the sheep outside the residential area of the household under survey.

1. If the the household keep ewes, it is expected that such a household will have calves which will be entered in question 9.1.6 or 9.1.7

Type of Sheepe (Sectioin 9.4.1 to 9.4.5)

Ram: Mature Uncastrated male sheept used for breeding

Castrated sheep: Male sheep that has been castrated

Ewe: Mature female sheep over 9 months of age

Lamb: Young sheep under 9 months of age.

Section 9.5 Pigs
Note:
Question 9.3 is for the actual number of pigs owned or raised by the household (as of 1st October 2008). This number does not include pigs kept on behalf by relatives or neighbours, that is the cattle outside the residential area of the household under survey. .

1. If the household has she goats, you would normally expect them to have kids in column

Type of Pigs (Qs 9.5.1 to 9.5.5)

Boar: Mature Uncastrated male pig used for breeing
Sow: Mature female pig that has given birth to at least one ltter of pigs.
Gilt; Female pig of over 3 months up to the first farrowing
Piglet: Young pig less than 3 months of age

Identification

9.4 SHEEP

Did your household keep or raise cattle during 2007/08 agriculture year? Yes=1, No 2 (If the answer is No proceed to Section 9.5)

Number of sheep as of 1.10.2008

Na.	Type of sheep	Number of indigenous sheep	Number of improved	Total
	(1)	(2)	(3)	(5)
9.4.1	Ram			
9.4.2	Castrated sheep			
9.4.3	She sheep			
9.4.4	Male lamb			
9.4.5	Female lamb			
			Grand total	

9.5 PIGS

Did your household keep or raise cattle during 2007/08 agriculture year? Yes=1, No= 2 (If the answer is No proceed to Section 9.6)

Number of pigsp as of 1.10.2008

Na.	Type Pigs	Number of pigs
	(1)	(2)
9.5.1	Boar	
9.5.2	Castrated male	
9.5.3	Sow/Gilt	
9.5.4	Male piglet	
9.5.5	Female piglet	
	Grand total	

9.6 OTHER LIVESTOCK

	Type of animal	Number as of 1 October 2008	Number of eggs 2007/08 agriculture year
	(1)	(2)	(3)
9.6.1	Local chicken		
9.6.2	Layers		
9.6.3	Broilers		
9.6.4	Ducks		
9.6.5	Guinea pigs		

	Type of animal	Number as of 1 October 2008	Number of Eggs 2007/08 agriculture year
	1	(2)	(3)
9.6.6	Turkeys		
9.6.7	Rabbit		
9.6.8	Donkeys		
9.6.9	Horses		
9.6.10	Dogs		

Definitions and working page for page 14

Control of livestock dieases causing bugs

Livestock worm control medicine: Medicine used to kill or control livestock on livestock . It is often used for cattle, goats, sheep and pigs.

Tiick: Is a dangerous bug that sucks blood form livestock and transmits animals diseases from one to the other animal.

Tse tse fly: A fly like bug that sucks blood from livetsock and transmits diseases sleewping sickness from one to the other animal.

Livestock advice (Section 9.8)
IA service provided by extension officers to livestock keepers for increasing livestock production.

9.7	**LIVESTOCK DISEASES AND PEST CONTROL**		**Identificatio**
	Did you livestock during 2007/08 agriculture year? (Yes=1, No=2) (If the answer is No proceed to Section 9.7.5		
9.7.1	Which animals did your deworm? (Yes=1,No =2, Not applicable=3 in the relevant box) Cattle **9.7.2** Goat/Sheep **9.7.3** Pigs **9.7.4** Poutry		
9.7.5	Do you experience tick problem with your livestock? (Yes =1, No = 2, Not applicable 3)		
9.7.6	How did you control tick problem? *Control method (Q. 9.7.6): Dipping……1 Spaying……..2* *Application of medicine on back bone……..3 None..4 ……. Other……8*		
9.7.7	Do you experience Tse tse problem with your livestock? (Yes =1, No = 2, Not applicable 3)		
9.7.8	How did you control Tse tse problem with your livestock? *Control method (Q. 9.7.8): Dipping……1 Spaying……..2* *Traps……..3 None..4 ……. Other……8*		
9.7.9 **9.7.7**	Do you experience Newcastle disease problem with your poutry? (Yes =1, No = 2, Not applicable 3)		
9.7.10	How do you control Newcastle disease problem with your poutry? *Control/Curative methods (Q. 9.7.10)* *Vaccination..1 Herbs....2 None..3*		
9.7.11	Did you experience Fowl Typhoid with your poutry?Yes=1, No=2 , Not applicanblei=3		
9.7.12	How did you cotrol/ cure Fowl Typhoid with your poutry? *Contro/curative methods(Swali 9.7.12* *Vaccination..1 Herbs....2 Noe.3*		
9.7.13	Were your cattle vaccinated agaionst the following diseases? (Yes = 1, No = 2, Not applicable=3). **9.7.13 A:** Foot and Mouth diseases **9.7.13B:** Skin disease		

NOTE : If answers to Qs *9.1 to 9.6 is No (THAIS THE HOUSEHOUSE DOES NOT RAISE LIVESTOCK,) Proceed to q 9.9*

9.8 Extenmsion services on livestock

Did you receive the following extension advice on the followingJe? *(IF THE ANSWER IS NO IN COL 2 PROCEED TO THE FOLLOWING QUESTION*

Na.	**Livestock extension advice**	Received Extension advice (Yes=1, No=2)	Soure of Extension
	(1)	(2)	(3)
9.8.1	Feed and better feeding methods		
9.8.2	Improved livestock shed (Goat, Dairy cattle, Poutry and pigs)		
9.8.3	Milking and hygiene		
9.8.4	Cattle fattening		
9.8.5	Livetsock diseases control		
9.8.6	Livestock keeping in line with land availability		
9.8.7	Pasture establsihment and maintanence		
9.8.8	Forming and strengthening groups/cooperatives		
9.8.9	Calf rearing		
9.8.10	Basics of production and use of improved bulls (AI)		
9.8.11	Animals feed production		
9.8.12	Other extension advice (Specify) ……		

Source of agriculture extesnion(S/wima 3)
SGovernment……1 NGO/Development project…..2 Cooperative Union….3 Large Scale farmer….4 Radio/TV/Newspapere.5
Neighbour……6 Other source …..8

Definitions and working page for page 15

General definitions

Fish farming: Refers to the rearing/production of fish. It is different from fishing in that in fish farming the fish have to be reared. While in fishing, fishing nets or traps are used to catch fish from rivers, lakes and the sea; thus fishing should not be included in this section

I

Question Specific Definitions (Q 9.9)

Production unit number (Col 1): A production unit is a pond river/lake which is treated as a separate entity for the production of fish eg it may be by virtue of manageable size, maturity of fish, tye of fish etc. eg. a farmer may have 3 fish ponds (each one is a separate production unit).

Frequency of stocking (Col . 5): What is the number of time the farmer puts new fingerlings into the pond each year.

Fingerlings: These are young immature fish used for stocking ponds.

Sols: (Col 10 & 11)

If no fish were sold enter "0" in column 10 and 11`

Fish sold (Col.12)

Kama hakuna samaki waliouzwa jaza "0" katika safuwima 12

Working space for page 15

9.9 FISH FARMING

Identification

Did your household practice fish farming? Yes=1, No=2 (*If the answer is no proceed to section 9.10*)

Give details on the fish farming during 2007/08 agriculture year

No.	Number of Ponds	Aina ya ufugaji	Square area of pond (m^2)	Source of fingerings	What is the frequency of stocking during the period?	Kiwango cha Huduma ya bwawa	Total number of stoked fish: Tialpia	Mwatiko	Crabs	Lulu	Total number of fish harvested	Total weight of all fish: waliovuliwa (kg)	waliouzwa (kg)	What is the main fish outlet?
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
9.9.1	1													
9.9.2	2													
9.9.3	3													

Type of farming (SCol 2)
Natural pond…….1
Small earth pond…….2
Large pond……..3
Other ……..8

Standard of servives to the pond (Col6)
High leve ……..1
Intermediate level……..2
Low leve…….3
Don't know……..8

Source of fingerings(Col 4)
From the pond……1 Neighbour…….4
Government……..2 Business man…..5
NGO/Development Project…3 Natural Pond……..6
Other ……..8

mainly sold to? (Col 14)
Neighbour…1 Auction……..3 Large Scale farmers……..5
Open market….2 Fish processing industry..4 Private business people ….6
Did not sell……7 Other ……..8

9.10 HONEY PRODUCTION

Is there honey production/harvesting in your household? Yes=1, No=2 (If answer is no PROCEED to Section 9.11)

Give details on honery harvesting during 2007/08 agriculture year

Number	Type of honey	Harvesting done ? (Yes=1, No=2)	Number of improved bee hives	Number of local bee hives	Amount sold per year (Litre)	Amount of honey sold (litre)	Price per litre	Main market)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
9.10.1	Small bees							
9.10.2	Large bees							

Honey outlet Co 8
Neighbour…1 Auction……..3
Large Scale farmers……..5
Open market….2 Fish processing industry..4
Private business people ….6
Did not sell……7

9.11 AGRICULURAL CHALLENGES

From the list of cahhalengs in farming on the right of the page, SELECT FIVE MAIN CHALLENGES WHICH constrain your development in agriculture

No	With first five priorities	Code
	(1)	(2)
9.11.1	Priority 1	
9.11.2	Priority 2	
9.11.3	Priority 3	

No	Important for	Code
	(1)	(2)
9.11.4	Priority 4	
9.11.5	Prioty 5	

LIST OF CHALLENGES

01 Land availability
02 Land owenership
03 Poor farm implementso
04 Soil fertility
05 Availability of imrpoved seeds
06 Irrigation services
07 Availability of agrochemicals
08 Cists of farm inputs
09 Extension services
10 Availability of forest resources
11 Huntinf and collection problems
12 Water availability
13 Access to credits
14 Lack of off farm incomes
15 Harvesting problems
16 Kupukuchua
17 Crop stiorage
18 Crop processing
19 Market information
20 High transporation costs
21 Destructive animals
22 Crop thefty
23 Pests and diseases
24 Advice from Local government
25 Long dry spells
26 Conflicts between livetsock keepera and pastoralists

Definitions and working page for page 16

10.0 Household poverty indicators

Number of rooms used for sleeping in the household (Q 10.1.4)
Include sitting room, during room, kitchen, etc if used for sleeping.

It also includes rooms outside the main dwelling

A room is defined as a space which is separate from the rest of the building by a permanent wall or division. A building / house that is not divided into rooms is considered to have one room.

Household assets (Q 10.2):
There assets must be functionin. Do not include if broken.

Access to drinking water (Q 10.4):
If there is more than one source use the one, which the hh uses most frequently.

Main source of hh cash income:(Q 10.7:
Activity that provides the hh with the most can during 2007/08 agricultural season.

10.0 POVERTY INDICATORS

Idetification

10.1 HOUSE CONSTRUCTION
Specify materials used in the construction of the following sehemu zifuatazo

10.1.1 Roof **10.1.2** Floor **10.1.3 Wall**

Roofing materials
Iron sheets……..1
Tiles……..2
Concrete……3
Asbestos ….4
GrassiMakuti……..5
Grass and mud….6
Other …….. .8

Floor matrials
Earthen material……..1
Wood……..2
Wooden tiles…3
Tiles……..4
Cement……5
Other……..8

Main materials
Grass and pieces of woods……..1 Mud……..2
Wet bricks…….3 Burnt bricks...4
Wood……..5 Block bricks.....6
Stonese ……..7 Bricks /Mawe ya kichanga……..8

10.1.4 Number of bedrooms

10.2 Household property
Does your houshold woen the following?, (Yeso=1 No =2)

Number	Property	Yes=1, No=2
	(1)	(2)
10.2.1	Radio (Radio, Radio Casette, music system)	
10.2.2	Land line	
10.2.3	Celkl phone	
10.2.4	Iron	
10.2.5	Trolley	
10.2.6	Bycicle	
10.2.7	Vehicle	
10.2.8	TV/ Video	
10.2.9	Refrigerator	
10.2.10	Motorbike/vespa	

10.3 Energy use and availability in the hsousehold

Main source of energy

10.3.1 Lightning 10.3.2 Cooking

Nishati za Kuangazia
Umeme……..01
Sola……..02
Gesi (biogas) ……03
Taa ya kandili……04
Karabai……..05
Kibatari……..06
Mishumaa……07
kuni……08
Nyingine …….. 98

Nishati za kupikia
Umeme……..01
Sola……..02
Gesi (biogas) ……03
Gesi (Kiwandani)…..04
Mafuta ya taa……05
Mkaa……..06
Kuni ……..07
Mabaki ya Mazao….08
Kinyesi cha Wanyama……..09
Nyingine ……..98

10.4 Availability of drinking water

	Season	Main source of water	Distance from source (km)	Time spent waitingor going to and from the source (Hours)
	(1)	(2)	(3)	(4)
10.4.1	Rainy			
10.4.2	Dry period			

Main sourece of drinking water
Col. 2
Tape water……..01 Water venders……..09
Arificial well……..02 Boozer……10
Arificial spring... ……..03 Bottled water……..11
Openwell……..04 Other (Specify)……..98
Natural spring……..05
Lake water,piond,river,stream n etc……..06
Covered Rain water harvesting well..07

Note: *Code01,* ***Bomba*** *kwa Zanzibar hujulikana kama Mfereji*

10.5 Toilet facilities

10.5.1 What type of toilet does your hosuehold use?

Typ of toilet
No toilet/in the buish……1 Pit latrine…..4
Flash toilet……..2 Other type (Specify)……..8
Ordinal pit latrine……3

10.6 Eating patterns

10.6.1	**How many meals does your hosue usually get per day ?**	
10.6.2	How days did the household eat meat last week?	
10.6.3	How days did the household eat fish last week?	
10.6.4	How many times did the household experience food shortages last year?	

Food shortage problems (Swali 10.6.4)
Never ……..1
Few times……..2
Sometimes……..3
Many times……4
Often……..5

10.7 Main source of household cash income?

10.7.1 What are the sources of household income?

Code for source of income
Selling food crops……..01 Sales of foerst products..05 Cash assisnatce...09
Sales of livestock……..02 Business……..06 Fishingi……..10
Sales of livestock products……03 Salaries……..07 Other……..98
Sales of cash crops...04 Casual labour……..08 None……..99

TIME OF FINISHING THE INTERVIEW	Hour	Minutes

Average/maximum yields per area

Use this table to compare the yields calculated in Sections 5.1, 5.2 and 5.3.

These stats are strictly to be used used as a guide for the purpose of assisting to get the correct area and yields for each crop.

	Name of Crop	Kilogram/ha		Kilogram/acre				Name of Crop	Kilogram/ha		Kilogram/acre	
		Average	Max	Average	Max				Average	Max	Average	Max
11	Maize	1,150	6,250	466	2,530		86	Cabbage	20,000	50,000	8,097	20,243
12	Paddy	700	4,000	283	1,619		87	Tomatoes	25,000	60,000	10,121	24,291
13	Sorghum	750	3,500	304	1,417		88	Spinach	15,000	17,000	6,073	6,883
14	Bulrush Millet	350	3,000	142	1,215		89	Carrot	25,000	30,000	10,121	12,146
15	Funger Millet	300	2,500	121	1,012		90	Pepper	3,500		1,417	0
16	Wheat	1,150	4,500	466	1,822		91	Amaranthus	20,000	40,000	8,097	16,194
17	Barley	1,400	1,800	567	729		92	Pumpkin	35,000	40,000	14,170	16,194
16	Cassava	3,000	7,000	1,215	2,834		93	Cucumber	5,000	10,000	2,024	4,049
17	Sweet potatoes	600	8,000	243	3,239		94	Egg plant	30,000	60,000	12,146	24,291
18	Irish potatoes	750	8,500	304	3,441		95	Water melon	10,000	20,000	4,049	8,097
19	Yams	4,000	10,000	466	1,822		96	Caouliflower	17,000	20,000	8,097	16,194
25	Coco yams	2,500	5,000	567	729		52	Cotton	800	25,000	14,170	16,194
26	Onions	30,000	50,000	1,215	2,834		54	Coffee	500	100	2,024	4,049
27	Ginger	20,000	30,000	243	3,239		55	Tea	2,500	10,000	12,146	24,291
31	Mahara Beans	400	1,300	304	3,441		56	Cocoa	150	1,000	4,049	8,097
32	Cow peas	300	1,750	121	709		57	Rubber	400	1,400	6,883	8,097
33	Green gram	1,500	1,800	1,012	2,024		58	Wattle			324	10,121
34	Pigeon peas	600	1,500	243	607		59	Kapok			0	0
35	Chick peas	500	1,500	202	607		60	Sugar cane	60,000	150,000	24,291	60,729
36	Bambara nuts	600	4,000	243	1,619		61	Cardamon	3,000		1,215	0
41	Sun flower	600	1,700	243	688		71	Banana	10,000	50,000	4,049	20,243
42	Simsim	300	1,000	121	405		72	Avocado			0	0
43	Gound nuts	600	4,000	243	1,619		73	Mango	10,000	25,000	4,049	10,121
47	Soyabeans	1,300	2,500	526	1,012		74	Pawpaw	50,000	70,000	20,243	28,340
48	Caster seeds	300	750	121	304		76	Orrage	15,000	40,000	6,073	16,194
75	Pineapple	25,000	60,000	10,121	24,291		77	Grape fruit	30,000	50,000	12,146	20,243
50	Cotton	300	1,500	121	607		78	Grapes	5,000	30,000	2,024	12,146
51	Tobacco	500	1,500	202	607		79	Mandarin	15,000	40,000	6,073	16,194
53	Pyrethrum			0	0		80	Quava	7,000	35,000	2,834	14,170
62	Jute	800	3,500	324	1,417		81	Plums			0	0
44	Palm oil	1,150	5,000	466	2,024		82	Tufaha		20,000	0	8,097
45	Cononut	1,500	8,000	607	3,239		83	Pea	15,000	27,000	6,073	10,931
46	Cashw nut	9	60/tree	4	24		84	Pitches	14,000	57,000	5,668	23,077
							66	Clove	4,500	5,000	1,772	1,969
								Black pepper	2,000	3,750		
								Mung'unye				
								Ocra	1,000	1,500		

Appendix V

Community Level Questionnaire

United Republic of Tanzania

ACQ 3 *CONFIDENTIAL*

Village/Community Level Formats

Access to and Use of Community Resources

Farmg Gate Prices of commodoties produced by the village

Agricultural Sample Census 2007/2008

Region	.....			Ward	
District	.....			Village	

NUMBER OF FARMERS HH IN THE VIALLAGE
To be filled by the enumerator after completeing form ACLF2

NUMBER OF HH MEMBERS
To be filled by the enumerator after completeing form ACLF2

Enumerator Name ..... Signature .....

Date of Enumeration

d d / m m m / y y y y

Start Time

End Time

Hour	Minutes

Field level checking by:

District Supervisor	Name	Signature	Date / /
Regional Supervisor	Name	Signature	Date / /
National Supervisor	Name	Signature	Date / /

I To be filled by the supervisor ONLY after Field/farm level checking of the enumeration process. This should be countersigned by the Supervisor in front of the enumerator

Distric checking in Office

District Supervisor	Name	Signature	Date / /

All questionnaires must be checked at the district office.

For Use at Regional Level Only

Data entered by:	Name	Signature	Date / /
Queried	Name	Signature	Date / /

See the back page for details of queries

Ministry of Agriculturte and Food Security, Ministry of Livestock and Fisheries Development, Ministry of Agriculture and Environment of Zanzibar, Ministry of Water and Irrigation, Prime Ministers' Office Regional Adminstration and Local Government, Ministry of Industry Trade and Marketing, National Bureau of Statistics, and the Office of the Government Statistician General of Revolution Governemnet of Zanzibar

Definitions and working page for page 3

Question Specific Definitions:

Obtain answers to the following questions from the meeting between the enumerator and influencial farmers in the village Infuencial people can be Village Chairman, Village Governement Executive Officer, Councillor, Ward Chairman, Extension Officer in the village or any other person in the village and who is well informed about village matters. It is important to not that these questions must be asked in groups (of more than one people) to obtain answers discussed and approved by many people.

Definitions of some specific terms

Access to community resources. Section 1.0
Community Resources: Resources in which the hh members have no individual claim to and which are shared together by all the village
Community Land: The area officiall demarcated by the village as shared/public land.
Squatting farmers Land: Communal land where individual hhs make sole claim to (for crop farming or fenced livestock) without official rights to ownership.
Available remaining Land: Official area of communal land minus areas of squatting farners.
Givernment Land Reserve: Area set aside by the government as national reserve

Community tree planting scheme(Section 14.3)

Community Forest: A forest planted on the communal land which is planted, replanted or spt planted by the members of the village.

Plant Planting: An area designated by the village for planting a block of trees.

Spot Planted: Replanting an area where selective logging has been carried out. A tree is planted to replace the one that has been cut.

Indigeous Trees: Trees that are native to Tanzania

Exotic Trees: Trees that are not native to Tanzania

Non Government Organisation: Is managed by people from outside the village and it normally covers more than one village/District/Region. Its function is to provide deveoopment assistance to the farmer and is free from direct government links.

Village level organization: is managed by members of the village. Its purpose is normally to access/provide development assistance to the village

ACCESS TO COMMUNAL RESOURCES

1 ACCESS TO COMMUNITY RESOURCES

1.1 Does the village set aside an area for communal resources e.g. forest, grazing, etc. (Yes =1 No =2) [ ]

(If the answer is no proceed to 1.2)

	Are of Comminity, Village, Wrad resources	Area in acre	
1.1.1	**Total area of communal land**		Oficial figures from the leader
1.1.2	**Area of squatting famers in communal land**		Key informant (Leader/Extension officer etc.)
1.1.3	**Remaining available communal land**		Key informant (Leader/Extension officer etc.)
1.1.4	**Government reserve land**		Key informant (Leader/Extension officer etc.)

1.2 UPATIKANAJI NA MATUMIZI YA MALIASILI ZA JUMUIYA/KIJIJI/SHEHIA

	Community Resources	Distance from the resource in Km -season		Main Use
		Dry	Rainy	
	(1)	(2)	(3)	(4)
1.2.1	Water for human consumption			
1.2.2	Wtar for livestock			
1.2.3	Communal grazing land			
1.2.4	**Communal firewood**			
1.2.5	Wood for chracoal burning			
1.2.6	**Wood for building poles**			
1.2.7	Forest for bee keeping (honey)			
1.2.8	**Hunting**			
1.2.9	**Fishing**			

Instructions on distance from the resource (Cols 2 and 3):
Distance is estimated from the centre of the village.

If under1 km 1, enter 0
If abover 1 km 1 enter whole number , eg. 1.5km= 2km, 1.25km= 1km

Msin uses (Col. 4)
Home or farm /livetsock consumption...1
Sold to traders in the village.....2
Sold to the village market.....3
Sold to local wholesalers.....4
Sold to Big wholewsalers 5
Not available.....6

2.0 COMMUNITY PLANTED TREES

2.1 Didi your village have community planted trees during 2007/08 agriculture year? (Yeso=1, No=2) [ ]

If the answer is no proceed to Section 3.0

Details of the community tree planting scheme

No.	Dustance from the community forest	Forest Area (acre)	Type of Pllanting	Type of Trees	Source of seeds/ Seedlings	Number of Years since the start of planting	Main uses 2007/08 agriculture year	Main uses of communal forest products
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
2.2	•							

Type of planting (col. 3)
POlantion planting.....1
Spot planting.... 2

Type of trees (Col. 4)
Indigenous tress.....1
Exotic tree.....2
Both types.....3

Source of seedlings (Col. 5)
Seeds collection and planting.....1

Villlage Nursery.....2
Department of Forestry..... 3
Private Individuals.... 4

Main Uses (Col. 7)
Poles 1
Wood 2
Charcoal 3
Firewoodi 4
Other (Specify) 8

Main use of revenue (Col.8)
Village development fund.1
Household use.....2
Household ilcome.... 3

3.0 Non governmental Organisation (NGOs) Contact

3.1 Did any NGO visit the village during 2007/08 agriculture year? (Yes=1,No=2) (If no provceed to Section 4) [ ]

Na.	Type of NGO	Visited Y=1,N=2	Number of visits	Distnatce to the Office (km)
3.2	Extension/ Rsearch			
3.3	Service /Input provision			
3.4	Community Development			
3.5	Other			

4.0 Community Based Organisation

4.1 Didi the village have any CBO during the 2007/08 agricuylture year?(Yes=1, No=2) [ ]

Na.	Type of CBO Nd=1,Hap=2	
4.2	Extension/ Rsearch	
4.3	Service /Input provision	
4.4	Community Development	
4.5	Other	

5.1 Did the village have Field farm schools during 2007/08,agriculture year? (Yes=1,No=2) [ ]

5.2 Did the village participate in any research on crops/ improved livestock during in the village during 2007/08 agriculture year? (Yes=1, No=2) [ ]

5.3 Did the village have local ironsmiths during 2007/08 agriculture year? (Yes=1, No=2) (If the answer is 2 proceed to q. 5.5 [ ]

5.4 Number of local ironsmiths

5.5 Did the village have any training centres on draft animals during 2007/08 agriculture year? (Yes=1, No=2) If number 2 is the answer conclude the enumeration. [ ]

5.6 Number of training centres for draft animals

Obtain answers to the following questions from the meeting of enumerator and key informants in the village.Key infomants can be a village chairman, Village Local Government Executive Officer, Councellor, Wrad Chairman, Village extsion officer, or any knowledgeble member in the community. Where possible ask these questions to a group inorder to reach a consensus . **The numebr should be below five people.**

Procedure: Administer this frpom after completing asll smallholder questionnaires for the village.
1. Copy the name of all crops from Sections 5.1, 5.2 and 5.3 grown in the village from smallholder questionnaires
   This should also include livetsock raised by the household from questions 9.1, 9.3, 9.4 and 9.5 and enter them in col na 1 of this form.
   Also see codes for livetsock below.
2. Enter price estimates per kg in col 5 and 6.

Name of crop/livestock	Code of crop/livestock	Name of main crop	Code of Main crop	Type of measure	Price of measure: Minimum Per year	Price of measure: Maximamun Per year
(1)	*(2)*	*(3)*	*(4)*	*(5)*	*(6)*	*(7)*

Type of livestock(Col 2)
Cattle .....01 Ducks……...07
Goat.....02 Turkey…….08
Sheep.....03 Rabbit……09
Pigs.....04 Kanga……10
Poutry……...05 Simbilisi……..11
Donkeys……06

Main poroduct- CROPS (sCol.4)
Cereals……..01 Flowers eg. Pyrethrum.....07
Green maize.....02 Vegetables.....,08
Green leaves and stem .....03 Fruit……...09
Straw, dry stems etc..04 Other……...10
Roots and tubers, etc.....05
Leaves (Tobacco etc)..... 06

Main product- LIVESTOCK (Col. 4)
Live animals…..01
Meat 02
Milk.....03
Eggs.....04

***Q*uantity (Col.5)**
Kg…….1
Number.....2
Litre……..3
A portion/piece ↓.4

Appendix V

Village Community Level formats

UNITED REPUBLIC OF TANZANIA

CONFIDENTIAL

ACLF 1

Page Number…….. out of……

Agriculture Sample Census 2007/08

Sub-village /ward leader listing from

Region _____Code ☐☐ Ward _____Code ☐☐☐

District _____Code ☐ Village _____ Code ☐☐

Sub village leader Number	Name of Ward village leader	Number of Households Form Office Register	After enumeration	Comments
(1)	(2)	(3)	(4)	(5)
☐☐☐		☐☐☐☐	☐☐☐☐	
☐☐☐		☐☐☐☐	☐☐☐☐	
☐☐☐		☐☐☐☐	☐☐☐☐	
☐☐☐		☐☐☐☐	☐☐☐☐	

UNITED REPUBLIC OF TANZANIA

CONFIDENTIAL

ACLF 2

Page Number…….. out of……

Agriculture Sample Census 2007/08

Household listing from-for listing hh heads and agriculture activities

Region _____ Code ☐☐

District _____ Code ☐

Ward _____ Code ☐☐☐

Village _____ Code ☐☐

Name of sub village leader ☐☐☐

Name of sub village_____

Household number	Household head name	Number of										If the Respondent Qualifies X	Farmer Serial Number
		Fields a	Cattle				Goats	Sheep	Pigs	Kuku/Bata/	Rabbit		
			Total	Bulls	Cows	Calves							
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
☐☐☐☐													
☐☐☐☐													
☐☐☐☐													
☐☐☐☐													

UNITED REPUBLIC OF TANZANIA

CONFIDENTIAL

ACLF 3

Household listing for 15 selected farmers

National Agriculture Sample Census 2007/08

Region _____ Code ☐☐ ward : _____ code ☐☐☐ ☐☐ Namba Sawia ☐☐☐

District _____ Code ☐☐ village _____ code ☐ Hatua ☐☐☐

S/N	Sub-village leader Number	Name of sub-village leader	Name of selected head of household	Name of Household Head	Number of					
					Field	Cattle	Goat	Sheep	Pigs	Poutry
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
☐☐	☐☐☐		☐☐☐☐							
☐☐	☐☐☐		☐☐☐☐							
☐☐	☐☐☐		☐☐☐☐							
☐☐	☐☐☐		☐☐☐☐							