

INTEGRATED AGRICULTURAL SURVEY 1997/98
Rural Tanzania Mainland

REPORT

**Household and Holding Characteristics, Crop and Yield Estimates,
Sales of Agricultural Inputs and Survey Evaluation**

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TABLE OF CONTENTS	i
ACRONYMS	iv
PREFACE	v
PART I BACKGROUND	
1.1 Introduction	1
1.2 Survey Undertaking	1
1.3 Objectives of the Survey	2
1.4 Survey Coverage	2
1.4.1 Geographical Coverage	2
1.4.2 Subject Coverage	3
1.5 Authority of the Survey	3
1.6 Reference Period	3
1.7 General Terms, Concepts and Definitions	4
1.7.1 Primary Sampling Units	4
1.7.2 Household and Holding	4
1.7.3 Holding Characteristics	5
PART II ESTIMATION PROCEDURES	
2.1 Determination of Sample Sizes	6
2.2 Calculation and Application of Sampling Weights	7
PART III DATA PROCESSING	
3.1 Systems Development	8
3.2 Training of Personnel	8
3.3 Questionnaire Receiving	8
3.4 Manual Data Checking, Coding, and Editing	8
3.5 Data Entry and Verification operation	8
3.6 Computer Screen Editing operation	10
3.7 Survey Data Organization and Calculation of Sample Weights ...	10
3.8 Data Archives and Documentation	10
PART IV MAIN SURVEY RESULTS AND FINDINGS	
4.1 Introduction	11

A:	LONG RAINS SEASON (MASIKA)	
4.2	Household and Holding Characteristics	11
4.2.1	Number of Agricultural Households	13
4.3	Agricultural Households Characteristics	14
4.3.1	Household Heads by Gender	14
4.3.2	Agricultural Household by Literacy	14
4.3.3	Agricultural Household Heads by Occupation and Education.....	14
4.4	Crops Grown on Holding	15
4.4.1	Plots Grown to Crops.....	15
4.5	Crop Estimates	16
4.5.1	Plots Grown to Crops and Type	16
4.5.2	Planted Area and Production of Food Crops	17
4.5.2.1	Maize	18
4.5.2.2	Paddy.....	18
4.5.2.3	Sorghum	18
4.5.2.4	Legumes (Beans).....	18
4.5.2.5	Roots and Tubers	19
4.5.2.6	Planted Area with Oil Crops	19
4.6	Planting Methods, Use of Fertilizer, Storage, Chemicals, Marketing, Credit Facilities and Source of Income	20
4.6.1	Farm Practices.....	21
4.6.2	Marketing of Produce	22
4.6.3	Credit	22
4.6.4	Sources of Income	22
B:	SHORT RAINS SEASON (VULI)	
4.7	Household and Holding Characteristics.....	23
4.7.1	Crops Grown	23
4.7.2	Area Under Cereal Crops	23
4.7.3	Maize	23
4.7.4	Paddy.....	23
4.7.5	Other Cereal Crops	24
C:	LONG RAINS (MASIKA) AND SHORT RAINS (VULI) COMBINED RESULTS	
4.8	Combined Results for 1997/98 Long Rains and Short Rains.....	26
4.8.1	Comparison of Results (Area and Production between 1993/94 to 1997/98) ...	27

PART V	CONCLUSIONS AND RECOMMENDATIONS	
5.1	General Overview.....	29
5.2	Conclusions.....	29
5.3	Data Processing.....	30
5.4	Problems Faced and their Solutions.....	30
5.5	Non and Partial Responses.....	30
5.6	Data Limitations.....	30
5.7	Recommendations.....	31
APPENDIX A:	IAS - Tables of Results - Long Rain (Masika).....	32
APPENDIX B:	IAS - Tables of Results - Short Rain (Vull).....	82
APPENDIX C:	IAS - Questionnaires.....	99
APPENDIX D:	References.....	100

ACPM (A)	- Assistant Commissioner for Planning and Marketing (Agriculture)
ASMP	- Agricultural Sector Management Project
CAN	- Calcium Ammonia Nitrate
CPM	- Commissioner for Planning and Marketing
DALDO	- District Agricultural and Livestock Development Officer
DEO	- Data Entry Operator
DS	- District Supervisor
DV	- Data Verifier
DAP	- Diamonium Phosphate
IAS	- Integrated Agricultural Survey
IASLF	- Integrated Agricultural Survey Listing Form
IASQ	- Integrated Agricultural Survey Questionnaire
FAO	- Food and Agriculture Organization of the United Nations
IMPS	- Integrated Microcomputer Processing Systems
MASIKA	- Long Rains Season
MAC	- Ministry of Agriculture and Co-operative Development
MS-DOS	- Micro Soft - Disk Operating System
NBS	- National Bureau of Statistics
NPK	- Nitrogen Phosphorous and Potassium
NMS	- National Master Sample
NSCA	- National Sample Census of Agriculture
PPS	- Probability Proportional to Size
PSU	- Primary Sampling Unit
RALDO	- Regional Agricultural and Livestock Development Officer
RS	- Regional Supervisor
RSO	- Regional Statistical Officer
SA	- Sulphate of Ammonia
SOP	- Sulphate of Potash
SSP	- Single Super Phosphate
VULI	- Short Rains Season

PREFACE

The Integrated Agricultural Survey Report 1997/98 is the third in the series of related publications since 1995/96. The word Integrated has been used as it encompasses many surveys in one. Previous surveys were referred to as Expanded Agricultural Surveys to mean the continuation of the agricultural sample censuses of 1993/94 and 1994/95.

The report contains information pertaining to Agricultural Household and Holding Characteristics, Crop and Yield Estimates, Sales of Agricultural Products and Agricultural Inputs. It also, contains information on the Survey Operations and Procedures.

The report is a product of co-ordination and collaboration between the Ministry of Agriculture and Cooperatives and National Bureau of Statistics, which started in 1993/94.

Sincere gratitude goes to the World Bank for financing the activities of the Survey through the Agricultural Sector Management Project and the Food and Agricultural Organization of the United Nations for providing technical assistance.

Acknowledgment goes to the staff of the Ministry of Agriculture and Cooperatives, National Bureau of Statistics and the International Consultants for their committed work, which made the 1997/98, survey a success.



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May 2000

1.1 Introduction

The 1997/98 Integrated¹ Agricultural Survey report gives a description of survey operations undertaken in Tanzania Mainland. The survey was conducted in selected 540 villages distributed throughout the country. The enumerators of this survey were the resident extension officers of the respective villages, who were supervised by District, Regional and Headquarters supervisors. The same sample that was used in the previous Sample Censuses and annual Agricultural surveys was also used in the 1997/98 Integrated Agricultural Survey.

The report has been organized in five parts. The first part gives the background of the survey. The second describes the estimation procedures. The third gives the way data was processed, the fourth gives a detailed survey result and the last is survey evaluation.

The survey duration covers the agricultural season from October 1997 to September 1998. During implementation of this survey both agricultural seasons were covered namely Short rains (Vuli) season and long rains (Masika) season. Masika season covers the whole country and Vuli season covers mainly 11 regions of Tanzania Mainland. The questionnaires, forms and tables of results are attached as appendices to this report.

1.2 Survey Undertaking

Before 1983/84, the Ministry of Agriculture and Co-operative has been collecting agricultural statistics using subjective² methods. Data flow was from the village to the MAC headquarters through district and regional offices.

From 1983/84, the Ministry of Agriculture and Co-operatives with technical assistance from FAO started to apply objective methods³ of data collection

¹ The word "Integrated" is used to mean the amalgamation of different surveys into one survey during planning and execution.

² Means that the quality of data collected depends on personal judgement of the collector (Sometimes called eye estimate), no specified method is used.

³ Objective method means that all fields operated by the sampled households are measured for the crops planted. Field identification is done and the member of the selected field confirms type of crop planted. General shape of the field is identified. Many fields are irregular in shape, and give and take away method is applied in order to approximate the fields with a regular polygon. Sketch is then drawn on a notebook before the actual measurements. With the help of compass and tape measure the area is measured. Objective crop cutting method is used to estimate the yield of a crop by harvesting randomly two located sample plots in selected fields. For estimation of the

These methods were pilot tested in two regions of Morogoro and Shinyanga and later extended to the other regions after being found successful.

In 1993/94 the National Sample Census of Agriculture was conducted. The Ministry of Agriculture and Co-operatives undertook the Sample Census in collaboration with the National Bureau of Statistics (NBS) with technical assistance from FAO. The Sample Census was implemented using objective methods. Following the successful implementation of the 1993/94 and 1994/95 NSCA, MAC and NBS implemented 1995/96 and 1996/97 Expanded Agricultural Surveys.

The 1997/98 Integrated Agricultural Survey was implemented using the same methodologies; procedures and infrastructure used to undertake NSCA and expanded surveys. The survey was designed in such a way that an elements of sustainability and cost-effectiveness were considered.

1.3 Objectives of the Survey

The 1997/98 IAS had six major objectives. These were to:

- Obtain time series data for improving current food and agricultural data at national and regional levels
- Obtain basic data to be utilized in the preparation, formulation of policies and implementation of agricultural plans;
- Obtain basic statistics for comparing between population increase and development of the agriculture sector;
- Obtain data which will help in carrying out future surveys and censuses;
- Contribute input for an agricultural statistical databank;
- Obtain detailed data on various inputs used for agricultural production, such as type of fertilizers, pesticides, improved seeds, etc.

In addition to these stated objectives, there was an implicit and yet important objective of developing a national capability to build, manage and sustain an efficient agricultural statistical system

1.4 Survey Coverage

1.4.1 Geographical Coverage

The survey covered a total of 540 selected rural villages from the National Master Sample⁴ (NMS). The data for urban agriculture and large-scale farms'

production of a crop, two components are used, namely the area and the yield per unit area.

⁴ National Master Sample (NMS) is a national framework for integrating and systematising conduct of household-based surveys by various Ministries and Institutions in Tanzania Mainland. The strength of the NMS lies on the organisational structure rather than on the statistical techniques employed to operate it. In other words it

surveys are presented in different reports. The reasons being due to the heterogeneity in nature of the agricultural activities taking place in urban areas and large-scale farms. Thus, different approaches are being applied to each survey. In each selected village, a sub-sample of 15⁵ farming households was randomly selected with the overall sample size of 8,100 rural agricultural farming households.

1.4.2 Subject Coverage

The 1997/98 Integrated Agricultural Survey (IAS) covered the following subjects:

Household characteristics, holding characteristics, crops and sales of crops, sources of income, social amenities, storage, crop markets, credit facilities and farm practices.

1.5 Authority of the Survey

The 1997/98 Integrated Agricultural Survey was conducted under the Statistics' Act Articles II of 1961 that makes the individual information collected strictly confidential and the data to be used for statistical purposes only.

1.6 Reference Period

Agricultural Year

The agricultural year in Tanzania generally starts from October and ends in September of the following year. The reference period was therefore the agricultural year 1997/98. Vuli and Masika seasons were both involved.

Long rains season (Masika) normally runs from March to May. This season is experienced in most northern, northeast and Lake Zone regions of the country. Some of the data presented in this report relate to this season.

can be said that returns from the surveys to be carried out within the NMS will depend on the ability of the supporting staff to maintain it. This means that proper understanding of the work involved and commitment of the staff are important factors for the actual functioning of the NMS.

From the Census experience of 1993/94 and 1994/95 and the post enumeration surveys experience of 1995/96 and 1996/97, it was seen that the fifteen selected numbers of agricultural households has been found to be adequate to produce precise estimates. Any selection less than fifteen would not give precise estimates. On the other hand, larger sample size would increase survey costs without significant reduction in the level of sampling error. Hence, the sample of fifteen households per village has been found to be optimal.

Short rains season (Vuli) normally runs from October to January and is experienced in most northern, North east and lake zone regions of the country. Some of the data presented in this report relate to this season.

1.7 General Terms, Concepts and Definitions

The general concepts and definitions given hereunder are those frequently and commonly used in the survey operations.

1.7.1 Primary Sampling Unit (PSU)

This represents constant statistical area units identifiable by geographical boundaries and defined by physical features and important landmarks. The PSU for this survey was the village

1.7.2 Household and Holding

Household

A one-person household is a person who occupies a housing unit and makes provision for his or her food or other essentials for living, without combining with other persons to form a multi person household.

A multi person household is a group of two or more people who occupy the whole or part of one housing unit and make joint provisions for food or other essentials for living. Domestic servants living in the same housing unit are included in a multi person household.

Head of Household

This is a person who is acknowledged by all other members of the household either because of his age or standing in the household as the head.

Agricultural Holding

Agricultural holding is an economic unit of agricultural production under single management. It consists of all land used for agricultural production without regard to title. For the purpose of this survey, the agricultural holdings were restricted to those having or operating at least 25 square meters of arable land. Thus, holding without land but had livestock only were not covered by the survey.

Holder

A holder is a person who exercises management control over the operation of agricultural holding and who takes major decision regarding resource utilization or disbursement.

Agricultural Household

An agricultural household is one where one or more of its members are holders. In peasant farming, there will normally be a one-to-one correspondence between the agricultural household and the holding. Holdings can however, also be operated by institutions, projects, etc.

1.7.3 Holding characteristics

Field

This is a continuous land cultivated as one piece by a holder, even if planted with different crops. An individual holding may consist of one or more such fields.

Plot

This is a portion of a field normally planted with one specific crop, such as maize sorghum or a crop mixture, like maize and bean's mixture.

Planted Area

This refers to total area where crops have been planted.

Mixture

This is a two or more crop planted simultaneously in the same field. The number, kind and proportion of crops in the mixture will generally vary according to the availability of seed, prevailing practices, soil, rainfall and other agro-meteorological conditions.

Pure Stand

This is a single crop cultivated in a field or plot.

Agricultural Production

This includes growing and production of different type of crops.

2.1 Determination of Sample Sizes⁶

The sample size for the 1997/98 Integrated Agricultural Survey (IAS) was the same as the one used for the 1996/97 Expanded Agricultural Survey. In summary, the sample size was determined by using the following criteria, namely: -

- Detailed breakdown of the tabulation plan was prepared as requested by the data processing team.
- Effects of cost implications for designing a large sample both in terms of resources and non-sampling errors were considered.
- Acceptable level of sampling errors was prepared.
- Availability of organizational and operational infrastructure was in place.

Taking the above-mentioned considerations into account, a sample of 540 villages was selected using National Master Sample. Villages were used as Primary Sampling Units. These 540 Primary Sampling Units were seen to be sufficient to give precise estimates for most important variables both at national level and at regional level.

After the completion of the listing exercise, a sub sample of fifteen agricultural households were selected and surveyed. The rationale of using fifteen randomly selected agricultural households came from the census experience of 1993/94 and 1994/95. Also, the post enumeration survey experience of 1995/96 and 1996/97 was used. The experience showed that, the fifteen selected agricultural households to be adequate to produce precise estimates. The results from the previous survey experiences showed that any selection less than fifteen do not give precise estimates. And, on the other hand, larger sample size selection would increase survey costs without significant reduction in the level of sampling error. Hence, the sample of fifteen households per village is found to be optimal.

⁶ Detailed break down of the estimation procedures is given in 'Technical Report National Sample Census of Agriculture, 1993/94, Volume I', 1996.

2.2 Calculation and Application of Sampling Weights⁷

Since the Integrated Agricultural Survey was executed on a sample basis, sampling weights were used to get higher level aggregates.

The first and second stage selections of the revised rural module of the NMS were basically done with Probability Proportional to Size (PPS). The weights were essentially reciprocals of the probabilities of selection.

Detailed break down of the section on calculation and application of sampling weights is given in Technical Report National Sample Census of Agriculture, 1993/94, Volume I', 1996.

3.1 System Development

The 1997/99 Integrated Agricultural Survey was processed based on the data processing system that was designed for microcomputer (DOS environment) based on IMPS (Integrated Microcomputer Processing System) software. The developed system covered procedures related to manual data editing, data entry and verification. Also, computer based editing, data organization, handling tabulation function activities and documentation.

The system had a number of manuals that served as reference materials for the training. The system development team was involved in the survey design to shape the survey so that it remains in compliance with the data processing system requirements.

3.2 Training of Personnel

Data processing related training was given to different people involved in the survey. The aim was to acquaint the personnel with data processing requirements to improve the data quality.

The training preceded every stage of the operation. Before the survey began, the System Development and Data Processing team was given an opportunity to train the Regional and District supervisors' on data checking techniques (both manual and computer).

3.3 Questionnaire Receiving

The processing of the Integrated Agricultural Survey data consisted of both manual and computer aided processes. The questionnaires from the field were orderly received and recorded into receiving logs to control and maintain the data flow. The personnel involved in the questionnaire receiving operation conducted the following tasks:

Receiving of all completed listing forms and questionnaires from the

regions.

- Recording the filled in forms and questionnaires, after making the necessary counts and checks, on provided logbooks.
- Shelving the forms and questionnaires for further processing and storage.

3.4 Manual Data Checking, Coding and Editing

As part of the data handling and cleaning process, the team of Manual Data Checkers was formed. Main purpose was to check the dully-filled in questionnaires for completeness and correctness according to the established set of instructions. This process was meant to correct all illogical errors introduced into the data set during the field operation.

To achieve an effective and efficient implementation of the manual data checking tasks, manuals of instructions were prepared and training was conducted to the involved personnel. The manual data checking team performed duties along these lines:

- Checking all forms and questionnaires for geographical codes and names.
- Assembling the forms and questionnaires according to type and village thus making one batch for each village for data processing use and purposes.
- Checking each questionnaire (within one batch) for completeness, value ranges and consistencies.
- Editing and coding wherever necessary.
- Each batch, containing fifteen questionnaires, labeled and placed in provided envelope.

All these tasks were aimed to increase the quality and integrity of data according to the developed survey methodologies.

3.5 Data Entry and Verification Operation

After manual data checking, well-batched questionnaires were passed to the Data Entry Operators (DEOs) for *data entry and verification*. This task was given a considerable importance to reduce possible human errors. Hence, computer entered data went through a 100% data verification to control possible data entry errors.

Data entry operators involved in the operation were trained on how to enter

and verify data based on the developed application programs.

3.6 Computer Screen Editing Operation

After data entry and verification, data was subjected to computer editing through screen editing process. The process facilitated further editing and correction of survey data by using prepared computer programs. The System Development and Data Processing Team prepared the required computer programs. The base for preparing these programs was the detecting and displaying of possible logical errors in the data sets.

CONCOR Module was developed and programs were written and supplied by the subject matter specialists based on the editing and correction rules and procedures,

3.7 Data Organisation and Calculation of Sample Weights

The screen-edited data was sorted, merged and organized accordingly into regional and national file(s) on the basis of the type of questionnaires. The process included checking for data mismatches. The data was collected from rural villages that had been sampled from the National Master Sample (NMS) frame and for that case each village has a sample weight and so is each sampled farming households.

The weight file was created for this purpose that was merged with the raw data at a later stage. These sample weights were applied at the tabulation stage to get weighted tables for regional estimates. The tabulation programs were written using CENTS (for tabulation) and CENVAR (for analysis of ratios) was used in producing the analysis ratios.

3.8 Data Archives and Documentation

At the end of all the above detailed operations, data were archived into floppy diskettes and hard disks. Survey data processing procedures were compiled into one big document called "1997/98 Integrated Agricultural Survey, System Document." The document can work as a future reference material in case of any other similar survey system development, data processing and data dictionary.

4.1 Introduction

The 1997/98 Integrated Agricultural Survey (IAS) was carried out in rural areas of Tanzania Mainland as an annual data collection program. In this chapter the results will be discussed and a comparison be made from 1993/94 survey results to date. The discussion will be based on holdings' characteristics, crops, and sale of crops and sources of income. For easy understanding, statistical tables and graphs will be presented. The chapter comprises of two sections, the first section covers long rain (Masika) and the second covers short rain (Vuli). Also Masika and Vuli results shall be combined to obtain an aggregation of area and production for 1997/98 agricultural year.

4.1.1 Type of Crops Grown

Crops covered in this survey fall in four categories that is, mainly cereal crops, root and tuber crops, oil crops and cash crops. In 1997/98 agricultural season the cereal crops grown were maize, paddy, sorghum, bulrush millet, finger millets and wheat. Root and tuber crops grown were cassava, sweet potatoes, Irish potatoes, yams and cocoyams. Oil crops grown were sunflower, simsim, groundnuts, palm oil, coconuts, Soya beans and castor oil. Cash crops grown were cotton, tobacco, coffee and tea. Beans was the only type of legume grown.

A: LONG RAINS SEASON (MASIKA)

4.2 Household and Holding Characteristics

In the agricultural year 1997/98, the number of agricultural holdings in rural areas of Tanzania Mainland was 4,396,000 as compared to previous year that was 4,357,000. The estimate is 0.9% higher than the estimate obtained in 1996/97. Out of the estimated total holdings, about 3,043,000 (69%) grew crops only and 1,352,477(31%) had a combination of crops and livestock.

Table 01: Comparisons of Types of Agricultural Households 1993/94 - 1997/98⁸

Type of Holding	NSCA 1993/94	NSCA 1994/95	EAS 1995/96	EAS 1996/97	IAS 1997/98
Sample Size 540 villages					
1. Crops Only	2,396,000 (65%)	2,432,000 (63%)	2,710,850 (65.3%)	2,895,800 (67%)	3,043,394 (69%)
2. Livestock Only	15,461 (0.42%)	13,902 (0.36%)	15,637 (0.4%)	47,800 (1%)	Not Covered
3. Crops and Livestock	1,279,051 (34.6%)	1,425,951 (36.8%)	1,420,239 (34.3%)	1,413,500 (32%)	1,352,477 (31%)
Total	3,692,000 (100)	3,872,000 (100)	4,146,700 (100)	4,357,100 (100)	4,395,871 (100)

Source: NSCA 1993/94, NSCA 1994/95, EAS 1995/96, EAS 1996/97 and IAS 1997/98

Table 01 shows the comparisons of types of agricultural holdings, from 1993/94 to 1997/98 agricultural years.

The result from the table shows that there have not been substantial changes of the number of holdings growing crops only over the past agricultural surveys and census. Likewise there have not been big changes of the number of holdings growing crops and raising livestock over the previous surveys.

Fig 1 below depicts the types of agricultural holdings in the 1997/98 Integrated Agricultural Survey. The percentage representation of holding with crops only and the holding with livestock and crops were 69% and 31% respectively.

⁸ Each of the above mentioned censuses and surveys, the sample size selected was 540 villages from the National Master Sample.

Fig. 1: Agricultural Holding By Type of Holding



4.2.1 Number of Agricultural Households

There were about 4,396,000 agricultural households in 1997/98 agricultural season. The male-headed households were about 3,568,000 and female-headed households were estimated to be 828,000.

Table 02 below shows the comparisons of household characteristics from 1993/94 to 1997/98 Agriculture seasons.

The results from table 02 shows that the number of farming households increased from 3,692,000 in 1993/94 to 4,395,871 in 1997/98 an increase of 19%. This increase is higher compared to that of 1993/94 to 1996/97, which was 1%.

The result also shows that the number of male-headed households increased by 17% from 3,044,471 in 1993/94 to 3,568,032 in 1997/98. For female headed households the increase was 28% from 647,858 in 1993/94 to 828,374 in 1997/98.

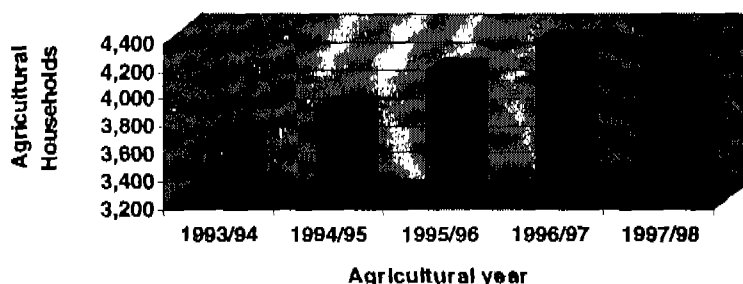
Table 02: Comparison of Agricultural Household Characteristics 1993/94 - 1997/98

Variable	Agricultural Year				
	1993/94	1994/95	1995/96	1996/97	1997/98
Number of Agricultural Household	3,692,000	3,871,2000	4,146,000	4,357,100	4,395,871
Average Household	5.42	5.42	5.30	5.29	Not Covered
Head of Household:					
Male	3,044,471	3,210,458	3,351,374	3,532,630	3,568,032
Female	647,858	661,868	795,352	824,523	828,374
% of female headed	17.5	17.1	19.2	18.9	18.8

Source: NSCA 1993/94, NSCA 1994/95, EAS 1995/96, EAS 1996/97 and IAS 1997/98

Fig. 2 below gives the comparison of agricultural households between 1993/94 to 1997/98.

Fig. 2: Number of Agricultural Households 1993/94 - 1997/98



4.3 Agricultural Household Characteristics.

4.3.1 Household Heads by Gender

From the estimated 4,396,000 Agricultural households, 3,568,000 (81%) households were male headed and 828,000 (19%) female headed. Female headed households growing crop only were 639,000 (15%) while those holding with crop and livestock were 189,000 (4%). Also female headed households with no formal education were 466,000 (11%) while those with formal education were 362,000 (8%). See Table 1-04, 1-05, 1-09 (Appendix A).

4.3.2 Agricultural Households by Literacy

Out of the total 4,396,000 heads of households 2,845,000 had formal education and 460,000 had adult education. A total of 3,305,000 (76%) heads of household had formal and adult education whereas 1,091,000 (24%) had no education.

4.3.3 Agricultural Household Heads By Occupation and Education

The estimated 4,396,000 agricultural households working on farm, 3,568,000 (81%) male headed households were involved in farm activities. They were distributed in different activities as follows:

Manager, administration and related workers were 6,700, professional and related worker 79,900, clerk 4,800, sales worker 8,100, office worker 4,900, peasant farmer 3,317,700, cattle heading and fishery 38,000, other agricultural worker 5,900, business 44,700, others 57,100.

Female headed households were 828,400 (19%) distributed in agricultural activities as follows:- manager, administrator and related workers were 2,100, professional and related workers 16,400, clerks 1,200, sales workers 910. Others include office workers 1,700, peasant farmers 791,700, cattle herding and fishery 4,500, other agricultural workers 2,900, business 4,300, and others 2,500, refer to Table 1-09.

and fishery 4,500, other agricultural workers 2,900, business 4,300, and others 2,500, refer to Table 1-09.

From the estimated agricultural heads of households, 4,109,000 (93%) were peasant farmer. Of the total peasants, 2,864,000 (70%) grew crops only whereas 1,246,000(30%) grew crops and raised livestock. Out of the total peasant farmers 791,700 (19%) were female heads of households.

Of the total peasant farmers, about 2,603,000 (63%) had formal education. Only about 448,000 (11%) had adult education. A total of 3,051,000 (74%) had formal education and adult education, whereas 1,058,000 (26%) had no education.

Of all peasant farmers, 828,000 (31%) were females. Out of these 362,000(44%) had formal education, whereas 466,000(56%) had no education. For reference see Appendix. A, Table 1-10.

4.4 Crops Grown On Holding.

A total of 4,264,000 agricultural holdings were found to be growing crops, out of which 2,124,000 (50%) were growing three and more different crops.

About 1,320,000 (31%) agricultural holdings were growing two crops whereas 819,000 (19%) were growing one crop.

About 75% of all holdings that grew three and more different crops had cultivated more than one hectare of land. Refer to Appendix A, table E2-03A for more details.

Morogoro is one of the regions with the highest 141,000 (17%) number of holdings growing only one crop on the holding, followed by Mwanza with 78,000 (10%) holdings. On contrary, Kagera had a greater number of agricultural holdings 264,000 (12.4%) which grew three and more different crops on the holding. Shinyanga followed this with 260,000 (12.2%) holdings. Kagera was the region with the fewest about 8000 (1-%) number of holdings with single crop (pure stand). Likewise, Morogoro was the region with the fewest 22,389 (1-%) number of holdings that grew three and more crops on the holding.

4.4.1 Plots Grown to Crops

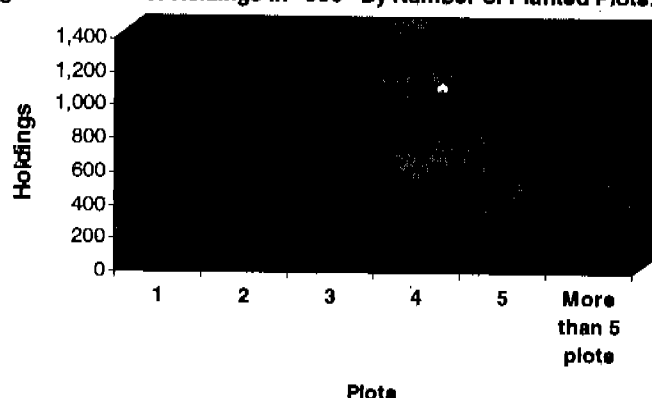
Table 03 shows the distribution of the number of holdings by cultivated plots. More than 60% of all holdings had operated between one and two plots. On the other hand, only 30% of all holdings had cultivated between three and four plots. Those who operated five (5) and above plots were only 7% of the total agricultural holdings.

Table 03: Number of Holdings (000) by Number of Planted Plots.

Number of Plots	Number of Holdings ("In 000")	Percentage
1	1,347	32
2	1300	31
3	852	20
4	428	10
5	190	4
More than 5 plots	147	3
TOTALS	4,264	100

Source : Appendix A, Table E2-09.

Figure 3 below shows the distribution of the number of agricultural holdings by number of planted area Refer to Appendix A, Table E2-09.

Fig. 3: Number of Holdings In "000" By Number of Planted Plots.

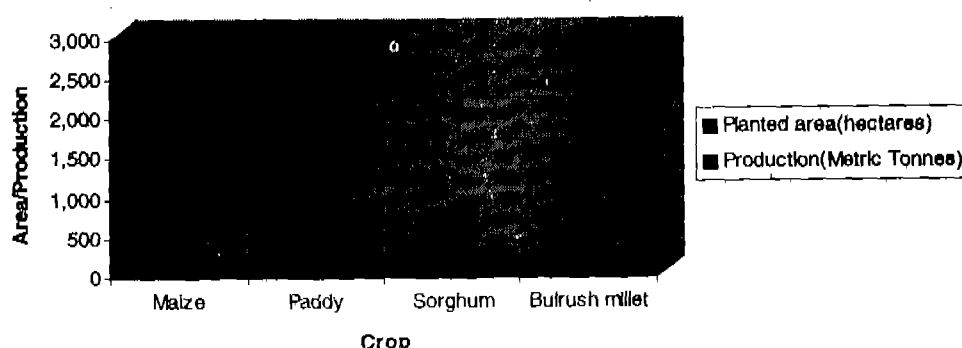
4.5 Crop Estimates

4.5.1 Plots Grown to Crops and Type.

There were 10,207,000 total plots grown to crops in all-4,264,000 agricultural holdings with planted area. About 9,236,000 (90%) of all plots were grown to more than one different crop. Only 10% of all plots were grown to pure stand.

When compared to the results of 1996/97 agricultural season. The number of holdings with one crop only decreased from 32% in 1996/97 to 19% in 1997/98 agricultural season. While, the percentage of holding with two crops increased from 27% to 31% from 1996/97 to 1997/98 agricultural seasons. The holdings that planted three and more crops increased from 40% in 1996/97 to 50% in 1997/98 agricultural season. The result shows that more than 80% of the holdings grew more than one crop.

Fig. 4: Area (In 000 ha.) and Production (In 000 mt.) of Cereal Crops



4.5.2 Planted Area and Production of Food Crops

About 7,182,000 hectares of land were cultivated to different crops 1997/98 (IAS). The average plot's size was 0.7 hectares. About 54% of all holdings operated 83% of all planted area to crops. These 54% holdings operated more than one hectare of planted area. Out of the total 7,182,000 hectares of planted area, 5,948,000(83%) hectares were under holdings with more than one hectare of planted area. Also, more than 50% of the planted area was under holdings with more than two (2) hectares. Reference is made to Appendix A, table E2 - 07A

Dodoma region had the largest plot size with average of 1.2 hectares. It was followed by Rukwa region that had an average plot size of 1.05 hectares. Although Kagera region was among the few regions with the highest number of plot's 1,015,000(10%), it was also noted that this is the same falling in the group of few regions with the lowest plot size of 0.47 hectares. See Appendix A, table E2 - 07B. Shinyanga region had the largest cultivated area of 961,107(13%). It was then followed by Dodoma region with 681,000 (9.5%) hectares. Appendix A, table E2 - 08B

Table 04 Area and Production of Cereal Crops.

Type of Crop	Number of Holdings	Planted Area (hectares)	Production (Metric Tonnes)	Yield / Hectare (In kilograms)
Maize	3,641,000	2,581,356	1,626,429	630
Paddy	918,000	562,690	600,708	1068
Sorghum	875,000	597,482	198,298	332
Bulrush millet	272,000	261,783	48,486	185
Finger millet	191,000	76,139	-	-
Wheat	75,000	35,949	-	-
Total		4,115,399	2,473,921	N/A

Source: Appendix A, Table E4-9A to Table E4-9D.

The results in Table 04 show that maize was widely grown and contributed about 66% of the total production of cereal crops. Paddy contribution was 24% while sorghum contributed 8%.

4.5.2.1 Maize

Maize was mainly grown in Shinyanga, Iringa, Dodoma, Arusha and Mbeya regions. In the 1997/98 Integrated Agricultural Survey maize was grown by 3,641,000 holdings that is about 85% of all agricultural holdings of 4,263,720 with planted area. Out of the total 7,182,000 hectares of planted area to food crops, about 4,115,399 was planted to cereal crops. Area planted to maize was estimated to about 2,581,000 with Shinyanga region recording the highest planted area of 338,162 (13%) hectares, followed by Iringa with 320,270(12%) hectares.

Maize production was 1,626,000 tonnes, out of which Arusha region had the highest share of 228,880(14%) tonnes, followed by Iringa 223,000 (13%) and Ruvuma 161,000 (10%).

4.5.2.2 Paddy

Paddy was grown mainly in Shinyanga, Morogoro, Mwanza and Tabora regions. A total of 917,600 holdings grew paddy. Out of these 146,000 (16%) were female headed households. About 563,000 hectares of cultivated land was grown to paddy.

There were about 601,000 tonnes of paddy produced. The main paddy producing regions were Shinyanga (36%), Mwanza (18%) and Tabora (15%).

4.5.2.3 Sorghum

Sorghum was planted on 597,000 hectares with production of 198,000 tonnes. The main regions reported to have grown Sorghum includes Shinyanga (22%), Dodoma (21%) and Singida (16%) of the total planted area to Sorghum.

4.5.2.4 Legumes (Beans)

The type of legume grown were beans that were planted in 462,000 hectares and the production was 156,000 tonnes.

4.5.2.5 Root and Tuber Crops

Table 05. Distribution of Planted Area By Type of Crop

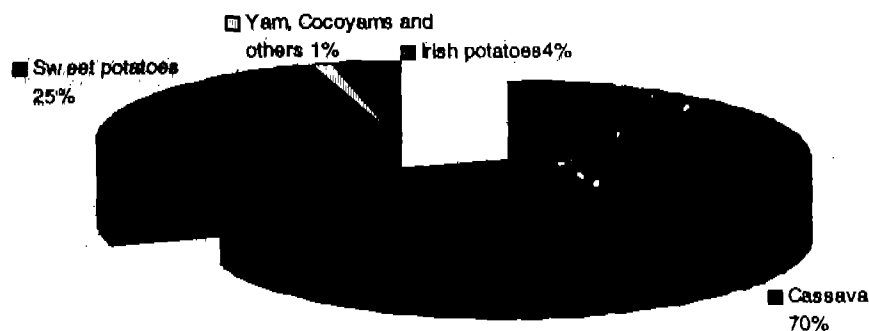
Type of crop	Planted area (Hectares)
Cassava	721,655
Sweet potatoes	257,220
Irish potatoes	36,632
Yam, cocoyams	11,486
Others	297
Total	1,027,290

Source: Appendix A, Table E2-12B.

Table 05 gives the distribution of planted area by type of crop. From the table Cassava was widely planted and covered 721,655 ha. (70%) of the total planted area of root and tuber crops. Sweet potatoes covered 257,220 ha.(25%) while Irish potatoes covered 36,632 ha.(4%) of the total planted area.

Figure 5 shows the distribution of planted area with roots and tuber crops. Cassava has the dominates the areas planted with roots followed by sweet potatoes, Irish potatoes and yams and others.

Fig. 5 PLANTED AREA WITH ROOTS AND TUBER CROPS



4.5.2.6 Planted Area With Oil Crops

Table 06 shows the distribution of planted area by type of oil crop. The table show that groundnut is widely grown and covers 41% of the total area under

oil crops followed by Cashewnuts 32% and Sunflower 15%. While Coconuts contributed 7% and Simsim 4%.

Table 6: Distribution of Planted Area by of Oil Crop

Type of Crop	Planted Area (ha)
Groundnuts	202,343
Cashewnuts	157,505
Sunflower	80,676
Coconuts	33,435
Simsim	20,794
Other	4,125
Total	498,878

Source: Appendix A, Table E2-11C.

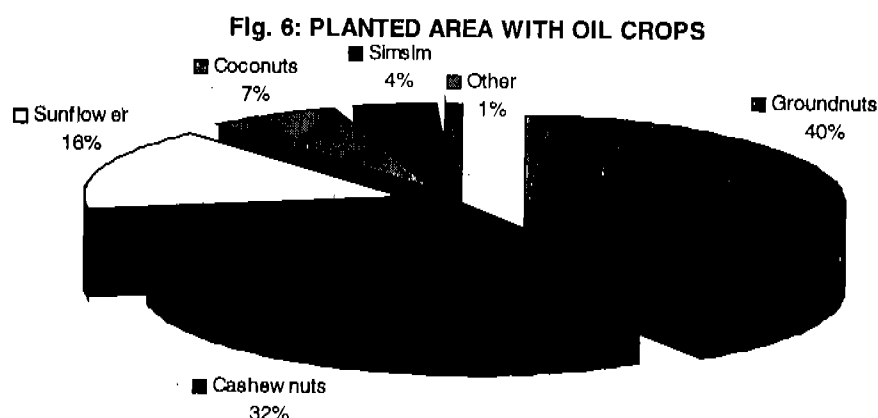


Figure 6 below shows the percentage distribution of planted area by type of oil crop.

4.6 Planting Methods, Use of Fertiliser, Storage, Chemicals, Marketing, Credit Facilities and Source of Income.

4.6.1 Farming Practices

For the purpose of this survey, farming practices include, among others:

➤ Planting Methods.

There were mainly three methods of planting practised by farmers. These are broadcasting(24%), row plant by planter(1%) and row plant by hand(60%). Other methods were used by 15% of the holdings. Appendix A, table E5 - 05B

➤ **Use of Fertiliser**

The use of fertilizers reported is mostly for food crops. The holdings reported using fertilizers were 1,475,965 (35%). Out of these 446,242 (10%) used chemical fertilizers, 819,567 (19%) used manure, 78,993 (2%) used compost manure, 128,757 (3%) used a combination of chemical and compost manure 3% and about 2,406 holdings used other types of fertilizers. For more details see Appendix A, Table E5-02.

It was observed that 2,908,000 (68%) of holdings were unable to use fertilisers due to some reasons. Among the reasons given were

- too expensive 27%,
- did not know how to use 4%,
- destroy soil fertility 4%,
- not available 25%,
- other reasons for not using fertilisers were 8%.

For more details see Appendix A, Table E5-03.

Ruvuma region had the highest 28% usage of fertilizer, followed by Iringa region 21%, Mbeya region 17% and Tabora with 15% of all chemical fertilizers used.

➤ **Storage**

Different storage facilities were used for different crops. The farm produce was found to be stored mainly in local store, modern stores and in sacks (bags). About 65% of holders used local storage facilities, modern stores were used by 1% and storage in bags at home was by 64% of all holdings.

Note: Some of the holders reported the use of two or more methods but the mainly one was reported.

Out of the total holdings reported to have grown maize, 73% reported to have stored their crop. Only 23% of all holdings stored their crop for more than six (6) months.

About 608,800(66%) holdings that grew paddy reported to have stored the crop. About 40% of the holders reported to have stored the crop for more than six (6) months. Other crops reported to be stored were sorghum, Bulrush Millet, Finger Millet, Wheat and Beans. The duration of storage ranges from less than three months to more than six months.

4.6.2 Marketing of Produce

There were 2,111,000 (59%) households that reported to have sold their produce through different markets. Majority of the holdings (31%) sold their produce to private businesspersons. However there were marketing problem reported. About 1,259,000 (29%) holdings reported to have faced different marketing problem. The main marketing problems reported were that of low price, poor roads, transport, lack of market, no grain bags.

4.6.3 Credit

Very few farmers were able to secure credits from different sources. Only 4% received credit with cash or in a form of inputs. The main sources of credit were observed to be individual and private companies. However, out of 4,217,000 holders who could not acquire credits 3,063,000 (70%) reported to have failed due to lack of creditors.

4.6.4 Sources of Income

The main source of income for small holders are through the sale of crops followed by business, and then sales of livestock and livestock products. The results show that from the above mentioned source of income, the main beneficiaries are those having planted area of one acre and above, especially those having between two and five acres. For more details see Appendix A, Table E5 -13 and 14.

B. SHORT RAIN SEASON (VULI)

4.7 Households and Holding Characteristics

The 1997/98 Short rains (Vuli) season involved 1,900,000 agricultural holdings and planted 1,259,900 hectares. The regions under Vuli season include Arusha, Kilimanjaro, Tanga, Morogoro, Pwani/Dar-es-Salaam. Others are Ruvuma (some areas of Mbinga District), Mbeya, Kigoma, Mwanza and Mara.

4.7.1 Crops Grown

The main cereal crops grown during the 1997/98 Vuli season were Maize, Paddy, Sorghum, Bulrush millets and Wheat. Roots and Tuber crops were Cassava, Sweet potatoes, Irish potatoes, Yam and Cocoyams. The oil crops grown were Sunflower, Simsim, Groundnuts, Palm oil, Coconuts, and Cashewnuts. Also cash crops grown were Cotton, Tobacco, Coffee and Tea.

4.7.2 Area Under Food Crops

About 1,259,873 hectares of land were planted to different cereal crops. These crops include: Maize 777,570 hectares, Paddy 175,454 hectares, Sorghum 94,363, Bulrush millet 3,384 hectares and beans 209,103 hectares.

Apart from the above mentioned crops, there were some other crops grown such as Wheat, Sweet potatoes, Irish potatoes, Yams, etc.

4.7.3 Maize

Maize is the main cereal crop grown in Tanzania Mainland for both long and short rains' seasons. During the short rain seasons (Vuli), Maize was grown in 777,570 hectares in the regions of Mwanza (24%), Tanga (17%), Morogoro (13%), Kigoma (10%). Other regions planted less than 10% of the total planted area to maize. About 446,341 tonnes of maize were produced during this season. Mwanza, Kilimanjaro, Tanga, and Mbeya produced 58% of the total produce of maize.

4.7.4 Paddy

Paddy is the second main cereal crop grown in Tanzania mainland. During short rains season the crop was grown in 175,454 hectares of land with Mwanza having planted more than 84% of area. Other regions that grew paddy include Kilimanjaro, Tanga, Morogoro, Coast/DSM and Mara. Total paddy produced during Vuli was 245,843 tonnes with Mwanza producing about 95%.

4.7.5 Other Food Crops

Other cereal crops grown in short rain's season were sorghum, bulrush millet and beans.

Sorghum was mainly grown in Mara region, followed by Mwanza. Bulrush millet was mainly grown in Mwanza.

Bean was grown in 267,440 hectares, was mainly grown in Kagera, Ruvuma, Kigoma and Kilimanjaro regions. See Appendix A, Table V4 – 09E.

Table 8: Planted Area and Production By Type of Crop.

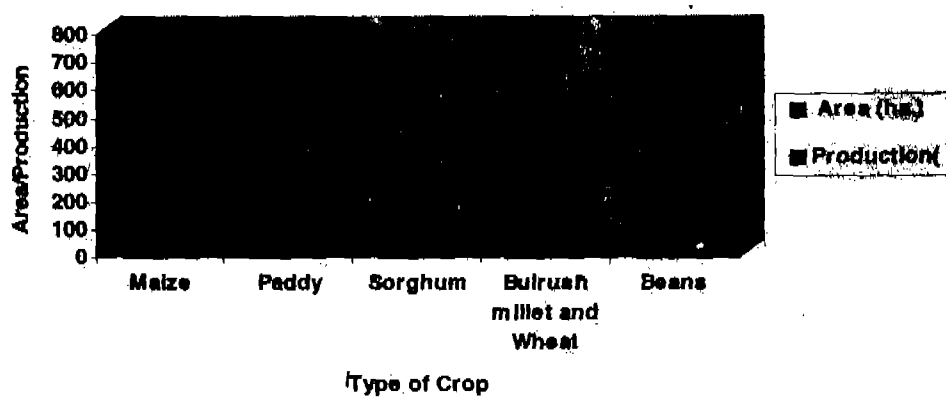
Type of Crop	Planted Area (hectares)	Production (Metric Tones)	Yield/Hectare (In Kilograms)
Maize	777,570	446,341	574
Paddy	175,454	245,843	1,401
Sorghum	94,363	50,436	534
Bulrush millet	3,384	1,742	514
Beans	267,440	99,560	372
Total	1,259,873	843,922	N/A

Source: Appendix B, Table V4-09A to Table V4 - 9E.

The result shows that during short rain season (Vuli) about 1,259,873 hectares were planted with main food crops. The area and production per crop are shown in table number 8 above.

Figure 8 shows the distribution of area and production by type of crop

Fig. 8: Area(In 000 ha.) and Productin(In 000 mt.) By Type Crop



C: LONG RAINS (MASIKA) AND SHORT RAINS (VULI) COMBINED RESULTS

4.8 Combined Results for 1997/98 Long Rains (Masika) and Short Rains (Vuli).

Table 9: Planted Area and Production for Vuli and Masika seasons 1997/98

Crop	PLANTED AREA (Hectares)			PRODUCTION (Metric Tones)		
	Masika	Vuli	Total	Masika	Vuli	Total
Maize	2,581,356	777,570	3,358,926	1,626,429	446,341	2,072,770
Paddy	562,690	175,454	738,144	600,708	245,843	846,551
Sorghum	597,482	94,363	691,845	198,298	50,436	248,734
Beans	462,216	209,103	671,318	156,657	99,560	256,217
B/Millet	261,783	3,384	265,167	48,486	1,742	50,228
Total	4,465,527	1,259,873	5,725,400	2,630,578	843,922	3,474,500

Source: Appendix A, Table E4-9A to Table E4- 9D and Appendix B, Table V4-9A to V4- 9E.

Total planted area and production for rain fed main food crops (for Vuli and Masika season) is given in table 9. In this survey Irrigation was not considered. The results show that 20% of the total planted area was under short rain season, while the remaining 80% were planted during long rains season.

Production results show that 24% of the total production was obtained from short rain's season, where as long rain season contributed 76%.

When the 1997/98 results are compared with that of 1996/97 it is observed that Masika remains the main dependable season for agricultural production. Previous censuses and surveys have shown that Vuli contributed less than 30% of the total annual production.

4.8.1 Comparison of Results (Area and Production between 1993/94 to 1997/98)

Table 10: Comparisons of Total Planted Area and Production of Main Cereal Crops.

Agricultural season	Total Planted Area (hectares)	Total Production (Metric tonnes)
1993/94	2,574,400	2,242,000
1994/95	3,348,010	3,619,525
1995/96	3,897,278	3,701,176
1996/97	3,696,563	3,591,266
1997/98 ⁹	5,783,738	3,474,500

Source: 1993/94 NSCA Volume III Report, 1994/95 NSCA Volume III Report, 1995/96 EAS Report and 1996/97 EAS Main Report.

The data in table shows that there is average growth rate of 24% total planted area. Planted area decreased from 3,897,278 hectares in 1995/96 to 3,696,563 hectares in 1996/97. Thereafter, planted area increased to 5,783,738 hectares in 1997/98-crop season.

⁹ **Note:** In 1997/98 interview method was used instead of objective measurement method. Using the experience of 1995/96 and 1996/97 Expanded Surveys and comparing the results obtained by objective measurement method and interview method, it was discovered that the two methods do not differ much in the results. Though, it was found that farmers have the tendency of slightly overstating the area planted to food crops and understating the production. The differences are not much - hence the decision to use interview method. Also, the El - Nino rains of 1997/98 agricultural season favoured crop production especially paddy even though infrastructure was destroyed. For more details on production refer to table 11.

Fig. 9 Total Area and Production By Crop

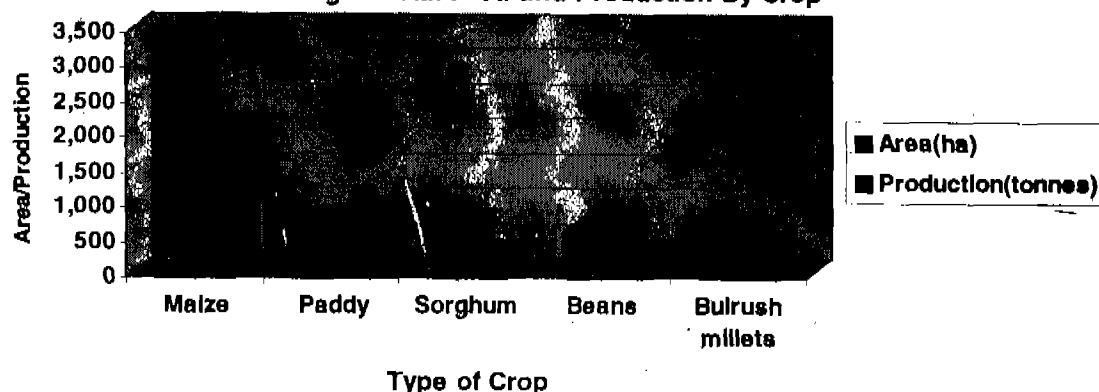


Table 11: Planted Area (In '000' hectares) and Production (In '000' tonnes) of Selected Crops 1993/94- 1997/98.

Agricultural Year	Variable	Crop				
		Maize	Paddy	Sorghum	B/Millet	Beans
1993/94	Area Planted	1,203	162	212	275	112
	Production	1,458	192	258	295	39
	Average Yield(Kg/ha)	1,212	1,182	1,216	1,071	349
1994/95	Area Planted	1,368	274	389	208	228
	Production	2,361	519	410	221	143
	Average Yield(Kg/ha)	1,726	1,892	1,053	1,062	625
1995/96	Area Planted	1,580	285	320	231	234
	Production	2,499	448	342	263	149
	Average Yield(Kg/ha)	1,581	1,574	1,068	1,138	639
1996/97	Area Planted	2,391	343	523	186	592
	Production	2,386	413	449	195	370
	Average Yield(Kg/ha)	998	1,204	859.0	1,052	624
1997/98	Area Planted	3,359	738	692	265	729
	Production	2,073	847	249	50	256
	Average Yield(Kg/ha)	617	1,147	359	189	351

Source: 1993/94 NSCA Volume III Report, 1994/95 NSCA Volume III Report, 1995/96 EAS Report, 1996/97 EAS Main Report and Appendix A, Table E4-9A to Table E4- 9D and Appendix B, Table V4-9A to V4- 9E.



5.1 General Overview

The 1997/98 Integrated Agricultural Survey was done in 540 selected rural villages from NMS. The resident extension staffs of the selected villages were used in the execution of the survey and District and Regional Supervisors mostly did supervision. Supervision from headquarters was minimised in order to reduce cost and sustainability.

To undertake such a big survey there are always achievements and problems accruing. Such achievements and problems are explained in this part of the report.

5.2 Conclusions

Co ordination of Agricultural Statistics Producers

Continuation of co ordination between the Ministry of Agriculture and the NBS (Planning Commission) continued by rationalising the agricultural statistical information system in the country to ensure cost-efficiency, increase accuracy and consistency in data production.

The Integrated Agricultural Survey activities were jointly conducted and resources of both institutions were pooled together. All these had a remarkable impact on the success of the operation. Therefore, it can be concluded that the co ordination is in place and expected to continue even in the planned future annual surveys.

Meeting the Integrated Agricultural Survey Objectives.

The Integrated Agricultural Survey was conducted with six objectives in mind. It can be concluded that the survey achieved present objectives as follows:

- Time series data for improving current food and livestock at national and regional levels were collected.
- Basic data to be utilised in the preparation, formulation of policies and implementation of agricultural and livestock plans were obtained;
- Basic statistics for comparing population increase and development of the agriculture sector were obtained;
- Data which will help in carrying out future surveys and censuses were collected;

- A base for an agricultural statistical database was established;
- Detailed data on various inputs used for agricultural production, such as type of fertilisers, pesticides, improved seeds was obtained etc.

In addition to the above objectives, another important objective achieved was that of developing a national capability to build, manage and sustain an efficient agricultural statistical system in the country.

5.3 Data Processing

Two national staff was sent for training abroad to built capacity in data processing activities.

5.4 Problems Faced and their Solutions.

- Most of the motorcycles used by district supervisors were out of order, thus supervision work were somehow hampered.
- To sole the problem new motor cycles were ordered and are expected to arrive any time before the completion of the survey.
- The number of days for supervision and fuel allocated to both District and Regional supervisors were inadequate.
- Increasing the number of days for supervisors solved the problem.
- There was partial involvement of both district and regional authorities during the field operations of the of survey operations. Their involvement was at the initial stages of the field preparation. This was due to financial constrains. In future, all district and regional authorities to be fully involved in the survey activities.
- Identification of the boundaries of the selected villages as they were in the 1988 population census was difficult to be located. Involving the village, ward and divisional leaders in identification of the boundaries as they were in 1988 population census solved the problem.

5.5 None and Partial Respons

None and partial responses due to death and shifting of the sampled households after the survey had started during which the replacement in the field was not allowed. Partial responses were due to memory decay and refusal. Manual Data Checking and Editing and Computer Hot Deck Imputation method with advises from subject matter and sampling experts respectively solved these problems.

5.6 Data Limitations

The scope and coverage brings about the limitation of the usage of data of the Integrated Agricultural Survey. As mentioned earlier, data were collected

using the scheme (A+B) of the NMS, which gives estimates at the regional level. If data was to be collected to give data for district estimates, using Scheme (A+B+C) of NMS would require more resources, which the government could not manage immediately. This is a serious limitation because the demand of data at district level, which is needed for lower level planning, is increasing.

Data on large-scale farms and urban agriculture surveys are not included in this report as they are covered in separate reports.

5.7 Recommendations

For future survey implementation, it is recommended that for similar surveys:

- Allocating enough fuel should strengthen supervision.
- The regional and district authorities should be fully involved in the implementation of field activities from the early stages to the end.
- The Government of Tanzania should conduct the population and housing census so that a new frame, which is a basis of conducting other surveys, be in place. This will solve village boundary identification.
- Since MAC and NBS are working in close collaboration with Statistics Department of the University of Dar es Salaam, there is need to include University Staff in the initial stages of planning and training of the supervisors and enumerators during survey preparation.

APPENDIX A:

TABLE OF RESULTS: Masika

Table 1-01: Number of Agricultural Households*
by Type of Holding by Region

Region	Total Households	TYPE OF HOLDING	
		Crop Only	Crop and Livestock
TOTAL	4,710,273	3,250,212	1,460,061
Dodoma	314,055	240,691	73,364
Arusha	250,013	106,410	143,603
Kilimanjaro	229,190	52,035	177,155
Tanga	268,845	179,602	89,243
Morogoro	270,045	244,699	25,346
Pwani/D'Salaam	155,527	149,145	6,382
Lindi	157,783	140,022	17,761
Mtwara	217,487	196,526	20,961
Ruvuma	216,266	131,474	84,792
Iringa	303,981	257,546	46,435
Mbeya	333,886	198,715	135,171
Singida	200,363	110,290	90,073
Tabora	207,628	153,403	54,225
Rukwa	146,764	118,574	28,190
Kigoma	172,197	130,070	42,127
Shinyanga	364,402	203,864	160,538
Kagera	350,196	274,035	76,161
Mwanza	354,201	223,780	130,421
Mara	197,441	139,330	58,111

Table 1-02: Total Number of Agricultural Households
by Sex of Head of Household

Region	Number of Agricultural Households		
	Total	Male Headed	Female Headed
TOTAL	4,710,273	3,814,309	895,964
Dodoma	314,055	234,057	79,998
Arusha	250,013	209,165	40,848
Kilimanjaro	229,190	194,485	34,705
Tanga	268,846	204,421	64,425
Morogoro	270,045	223,912	46,133
Pwani/D'Salaam	155,527	123,400	32,127
Lindi	157,783	111,617	46,166
Mtwara	217,487	169,257	48,230
Ruvuma	216,266	193,242	23,024
Iringa	303,981	220,683	83,298
Mbeya	333,886	256,527	77,359
Singida	200,363	157,641	42,722
Tabora	207,628	175,124	32,504
Rukwa	146,765	132,758	14,007
Kigoma	172,197	145,309	26,888
Shinyanga	364,402	312,117	52,285
Kagera	350,196	289,326	60,870
Mwanza	354,202	312,504	41,698
Mara	197,442	148,765	48,677

Table 1-04: Total Number of Agricultural Households by Type of Holding, Sex and Age Group of Head

Sex and Age Group of Head	Total	TYPE OF HOLDING	
		Crop Only	Crop and Livestock
MALE HEADED HOUSEHOLD			
< 20 Years. . .	17,481	16,322	1,159
20 - 24 Years. . .	165,290	136,401	28,889
25 - 29 Years. . .	430,143	330,714	99,429
30 - 34 Years. . .	518,227	377,635	140,592
35 - 39 Years. . .	558,687	390,939	167,748
40 - 44 Years. . .	448,653	295,816	152,837
45 - 49 Years. . .	427,835	265,977	161,858
50 - 54 Years. . .	341,659	201,952	139,707
55 - 59 Years. . .	259,346	151,864	107,482
60 - 64 Years. . .	240,385	149,692	90,693
65 + Years. . .	406,603	241,968	164,635
Not Stated . . .			
Total.	3,814,309	2,559,280	1,255,029
FEMALE HEADED HOUSEHOLD			
< 20 Years. . .	1,786	910	876
20 - 24 Years. . .	17,331	15,512	1,819
25 - 29 Years. . .	74,612	58,414	16,198
30 - 34 Years. . .	93,407	79,670	13,737
35 - 39 Years. . .	127,786	102,825	24,961
40 - 44 Years. . .	103,682	78,980	24,702
45 - 49 Years. . .	111,739	83,165	28,574
50 - 54 Years. . .	106,829	79,975	26,854
55 - 59 Years. . .	76,252	54,035	22,217
60 - 64 Years. . .	72,134	53,045	19,089
65 + Years. . .	110,407	84,400	26,007
Not Stated . . .			
Total.	895,965	690,931	205,034
ALL AGRICULTURAL HOUSEHOLDS			
< 20 Years. . .	19,267	17,232	2,035
20 - 24 Years. . .	182,621	151,913	30,708
25 - 29 Years. . .	504,755	389,128	115,627
30 - 34 Years. . .	611,634	457,305	154,329
35 - 39 Years. . .	686,473	493,764	192,709
40 - 44 Years. . .	552,335	374,796	177,539
45 - 49 Years. . .	539,574	349,142	190,432
50 - 54 Years. . .	448,488	281,927	166,561
55 - 59 Years. . .	335,598	205,899	129,699
60 - 64 Years. . .	312,519	202,737	109,782
65 + Years. . .	517,010	326,368	190,642
Not Stated . . .			
Total.	4,710,274	3,250,211	1,460,063

Table 1-05: Total Number of Heads of Agricultural Households by No Formal and Formal Education, Sex and Age Group of Head

Sex and Age Group of Head	Total	NO FORMAL EDUCATION			FORMAL EDUCATION			
		Total No Formal Education	No Education	Adult Education	Total Formal Education	Primary School*	Secondary School*	University and Higher
MALE HEADED HOUSEHOLD								
< 20 Years. . .	17,481	2,174	1,552	622	15,307	15,307	-	-
20 - 24 Years. . .	165,290	15,887	14,232	1,655	149,403	147,579	1,824	-
25 - 29 Years. . .	430,143	34,268	30,727	3,541	395,875	384,687	11,188	-
30 - 34 Years. . .	518,228	52,734	43,355	9,379	465,494	453,953	11,541	-
35 - 39 Years. . .	558,687	97,282	69,041	28,241	461,405	440,038	21,367	-
40 - 44 Years. . .	448,654	116,122	68,199	47,923	332,532	317,354	14,672	506
45 - 49 Years. . .	427,834	148,770	87,020	61,750	279,064	269,248	9,319	497
50 - 54 Years. . .	341,659	147,836	90,017	57,819	193,823	180,595	11,277	1,951
55 - 59 Years. . .	259,346	124,834	68,455	56,379	134,512	122,919	11,432	161
60 - 64 Years. . .	240,385	143,018	88,153	54,865	97,367	89,687	7,680	-
65 + Years. . .	406,603	272,487	198,421	74,066	134,116	130,703	3,413	-
Not Stated . . .	-	-	-	-	-	-	-	-
Total.	3,814,310	1,155,412	759,172	396,240	2,658,898	2,552,070	103,713	3,115
FEMALE HEADED HOUSEHOLD								
< 20 Years. . .	1,786	617	617	-	1,169	1,169	-	-
20 - 24 Years. . .	17,331	4,790	3,110	1,680	12,541	12,541	-	-
25 - 29 Years. . .	74,612	12,760	10,243	2,517	61,852	60,219	1,633	-
30 - 34 Years. . .	93,408	22,558	16,883	5,675	70,850	69,990	860	-
35 - 39 Years. . .	127,786	39,460	28,620	10,840	88,326	85,747	2,579	-
40 - 44 Years. . .	103,683	52,325	40,447	11,878	51,358	49,385	1,973	-
45 - 49 Years. . .	111,739	69,197	56,499	12,698	42,542	41,461	750	331
50 - 54 Years. . .	106,830	83,101	69,631	13,470	23,729	23,114	615	-
55 - 59 Years. . .	76,252	60,820	46,594	14,226	15,432	13,691	1,741	-
60 - 64 Years. . .	72,134	57,866	47,974	9,892	14,268	13,810	458	-
65 + Years. . .	110,408	98,903	86,344	12,559	11,505	11,505	-	-
Not Stated . . .	-	-	-	-	-	-	-	-
Total.	895,969	502,397	406,962	95,435	393,572	382,632	10,609	331
ALL AGRICULTURAL HOUSEHOLDS								
< 20 Years. . .	19,267	2,791	2,169	622	16,476	16,476	-	-
20 - 24 Years. . .	182,621	20,677	17,342	3,335	161,944	160,120	1,824	-
25 - 29 Years. . .	504,755	47,028	40,970	6,058	457,727	444,906	12,821	-
30 - 34 Years. . .	611,636	75,292	60,238	15,054	536,344	523,943	12,401	-
35 - 39 Years. . .	686,473	136,742	97,661	39,081	549,731	525,785	23,946	-
40 - 44 Years. . .	552,337	168,447	108,646	59,801	383,890	366,739	16,645	506
45 - 49 Years. . .	539,573	217,967	143,519	74,448	321,606	310,709	10,069	828
50 - 54 Years. . .	448,489	230,937	159,648	71,289	217,552	203,709	11,892	1,951
55 - 59 Years. . .	335,598	185,654	115,049	70,605	149,944	136,610	13,173	161
60 - 64 Years. . .	312,519	200,884	136,127	64,757	111,635	103,497	8,138	-
65 + Years. . .	517,011	371,390	284,765	86,625	145,621	142,208	3,413	-
Not Stated . . .	-	-	-	-	-	-	-	-
Total.	4,710,279	1,657,809	1,166,134	491,675	3,052,470	2,934,702	114,322	3,446

* Note: 1. Primary School Include Currently Attending, Completed and Course Attended After Primary School
2. Secondary School Include Currently Attending and Completed Secondary School

Table 1-09: Total Number and Percentage of Agricultural Households by Type of Holding
by Sex and Occupation of Head

Sex and Occupation of Head	Total		TYPE OF HOLDING			
			Crop Only		Crop and Livestock	
	Number	%	Number	%	Number	%
MALE HEADED HOUSEHOLDS						
Manager, Administrator and Related Worker	7,180	0.15	6,335	0.19	845	0.06
Professional and Related Worker	84,138	1.79	49,854	1.53	34,284	2.35
Clerk	5,171	0.11	3,899	0.12	1,272	0.09
Sales Worker	8,709	0.18	6,086	0.19	2,623	0.18
Office Worker	5,450	0.12	2,850	0.09	2,610	0.18
Peasant Farmer	3,545,520	75.27	2,397,689	73.77	1,147,831	78.62
Cattle Herding and Fishery	41,174	0.87	13,669	0.42	27,505	1.88
Other Agricultural Worker	6,369	0.14	4,549	0.14	1,820	0.12
Business	48,486	1.03	28,070	0.86	20,416	1.40
Other	62,102	1.32	46,279	1.42	15,823	1.08
Total	3,814,309	80.98	2,559,280	78.74	1,255,029	85.96
FEMALE HEADED HOUSEHOLDS						
Manager, Administrator and Related Worker	1,661	0.04	1,186	0.04	475	0.03
Professional and Related Worker	17,616	0.37	14,894	0.46	2,722	0.19
Clerk	1,294	0.03	789	0.02	505	0.03
Sales Worker	975	0.02	975	0.03	-	-
Office Worker	1,285	0.03	1,033	0.03	252	0.02
Peasant Farmer	857,173	18.20	660,751	20.33	196,422	13.45
Cattle Herding and Fishery	5,213	0.11	847	0.03	4,366	0.30
Other Agricultural Worker	3,153	0.07	3,153	0.10	-	-
Business	4,944	0.10	4,653	0.14	291	0.02
Other	2,652	0.06	2,652	0.08	-	-
Total	895,966	19.02	690,933	21.26	205,033	14.04
ALL AGRICULTURAL HOUSEHOLDS						
Manager, Administrator and Related Worker	8,841	0.19	7,521	0.23	1,320	0.09
Professional and Related Worker	101,754	2.16	64,748	1.99	37,006	2.53
Clerk	6,465	0.14	4,688	0.14	1,777	0.12
Sales Worker	9,684	0.21	7,061	0.22	2,623	0.18
Office Worker	6,745	0.14	3,883	0.12	2,862	0.20
Peasant Farmer	4,402,693	93.47	3,058,440	94.10	1,344,253	92.07
Cattle Herding and Fishery	46,387	0.98	14,516	0.45	31,871	2.18
Other Agricultural Worker	9,522	0.20	7,702	0.24	1,820	0.12
Business	53,430	1.13	32,723	1.01	20,707	1.42
Other	64,754	1.37	48,931	1.51	15,823	1.08
Total	4,710,275	100.00	3,250,213	100.00	1,460,062	100.00

Table 1-10: Total Number and Percentage of Agricultural Households by
No Formal and Formal Education, Sex and Occupation of Head

Sex and Occupation of Head	Total		NO FORMAL EDUCATION						FORMAL EDUCATION							
			Total No Formal Education		No Education		Adult Education		Total Formal Education		*Primary School		Secondary School		University and Higher	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
MALE HEADED HOUSEHOLDS																
Manager, Administrator and Related Worker	7,181	0.15	433	0.03	-	-	433	0.09	6,748	0.22	4,923	0.17	1,328	1.16	497	14.42
Professional and Related Worker	84,138	1.79	720	0.04	-	-	720	0.15	83,418	2.73	43,595	1.49	39,823	34.83	-	-
Clerk	5,172	0.11	368	0.02	-	-	368	0.07	4,804	0.16	2,656	0.09	2,148	1.88	-	-
Sales Worker	8,799	0.18	1,146	0.07	1,146	0.10	-	-	7,653	0.25	7,563	0.26	-	-	-	-
Office Worker	5,460	0.12	-	-	-	-	-	-	5,460	0.18	5,085	0.17	375	0.33	-	-
Peasant Farmer	3,545,521	75.27	1,116,987	67.38	733,576	62.91	383,411	77.98	2,428,534	79.56	2,377,161	81.00	49,413	43.22	1,960	56.88
Cattle Herding and Fishery	41,175	0.87	24,799	1.50	17,717	1.52	7,082	1.44	16,376	0.54	16,376	0.56	-	-	-	-
Other Agricultural Worker	6,369	0.14	2,004	0.12	1,799	0.15	205	0.04	4,365	0.14	4,365	0.15	-	-	-	-
Business	48,485	1.03	3,795	0.23	1,180	0.10	2,615	0.53	44,690	1.46	38,849	1.32	5,344	4.67	497	14.42
Other	62,102	1.32	5,161	0.31	3,755	0.32	1,406	0.29	56,941	1.87	51,497	1.75	5,283	4.62	161	4.67
Total	3,814,312	80.98	1,155,413	69.70	759,173	65.10	396,240	80.59	2,658,899	87.11	2,552,070	86.96	103,714	90.72	3,115	90.39
FEMALE HEADED HOUSEHOLDS																
Manager, Administrator and Related Worker	1,661	0.04	460	0.03	460	0.04	-	-	1,201	0.04	-	-	1,201	1.06	-	-
Professional and Related Worker	17,617	0.37	-	-	-	-	-	-	17,617	0.58	10,921	0.37	6,365	5.57	331	9.61
Clerk	1,293	0.03	-	-	-	-	-	-	1,293	0.04	1,293	0.04	-	-	-	-
Sales Worker	975	0.02	687	0.04	687	0.06	-	-	288	0.01	-	-	-	-	-	-
Office Worker	1,285	0.03	-	-	-	-	-	-	1,285	0.04	1,285	0.04	-	-	-	-
Peasant Farmer	857,171	18.20	493,047	29.74	397,615	34.10	95,432	19.41	364,124	11.93	363,050	12.37	1,074	0.94	-	-
Cattle Herding and Fishery	5,213	0.11	4,068	0.25	4,068	0.35	-	-	1,145	0.04	1,145	0.04	-	-	-	-
Other Agricultural Worker	3,363	0.07	687	0.04	687	0.06	-	-	2,466	0.08	2,466	0.08	-	-	-	-
Business	4,944	0.10	1,996	0.12	1,996	0.17	-	-	2,948	0.10	2,183	0.07	765	0.67	-	-
Other	2,652	0.06	1,449	0.09	1,449	0.12	-	-	1,203	0.04	-	-	1,203	1.05	-	-
Total	895,964	19.02	502,394	30.30	406,962	34.90	95,432	19.41	393,570	12.89	382,631	13.04	10,608	9.28	331	9.61
ALL AGRICULTURAL HOUSEHOLDS																
Manager, Administrator and Related Worker	8,842	0.19	893	0.05	460	0.04	433	0.09	7,949	0.26	4,923	0.17	2,529	2.21	497	14.42
Professional and Related Worker	101,755	2.16	720	0.04	-	-	720	0.15	101,035	3.31	54,516	1.86	46,188	40.40	331	9.61
Clerk	6,465	0.14	368	0.02	-	-	368	0.07	6,097	0.20	3,949	0.13	2,148	1.88	-	-
Sales Worker	9,684	0.21	1,833	0.11	1,833	0.16	-	-	7,851	0.26	7,851	0.27	-	-	-	-
Office Worker	6,745	0.14	-	-	-	-	-	-	6,745	0.22	6,370	0.22	375	0.33	-	-
Peasant Farmer	4,402,692	93.47	1,610,034	97.12	1,131,191	97.00	478,843	97.39	2,792,858	91.49	2,740,211	93.37	50,487	44.16	1,960	56.88
Cattle Herding and Fishery	46,388	0.98	28,867	1.74	21,785	1.87	7,082	1.44	17,521	0.57	17,521	0.60	-	-	-	-
Other Agricultural Worker	9,522	0.20	2,691	0.16	2,486	0.21	205	0.04	6,831	0.22	6,831	0.23	-	-	-	-
Business	53,429	1.13	5,791	0.35	3,176	0.27	2,615	0.53	47,638	1.56	41,032	1.40	6,109	5.34	497	14.42
Other	64,754	1.37	6,610	0.40	5,204	0.45	1,406	0.29	58,144	1.90	51,497	1.75	6,486	5.67	161	4.67
Total	4,710,276	100.00	1,657,807	100.00	1,166,135	100.00	491,672	100.00	3,052,469	100.00	2,934,701	100.00	114,322	100.00	3,446	100.00

* Note: 1. Primary School Include Currently Attending, Completed and Course Attended After Primary School
2. Secondary School Include Currently Attending and Completed Secondary School

Table E1-22: Total Number and Percentage of Heads of Households by Age Group, Sex and Occupation

Sex and Occupation	AGE GROUP													
	Total		10-19 Years		20-29 Years		30-39 Years		40-49 Years		50 + Years		Not Stated	
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%
MALE														
Manager, Administrator and Related Worker	7,180	0.15	-	-	1,266	0.18	1,471	0.11	1,701	0.16	1,602	0.21	1,140	0.13
Professional and Related Worker	84,138	1.79	-	-	4,912	0.71	27,302	2.10	33,781	3.09	13,280	1.77	4,863	0.56
Clerk	5,171	0.11	-	-	296	0.04	2,184	0.17	1,381	0.13	1,310	0.17	-	-
Sales Worker	8,708	0.18	-	-	4,369	0.64	2,236	0.17	781	0.07	-	-	1,322	0.15
Office Worker	5,460	0.12	-	-	343	0.05	1,015	0.08	4,102	0.38	-	-	-	-
Peasant Farmer	3,545,520	75.27	17,481	90.73	557,693	81.13	980,886	75.56	793,949	72.71	544,831	72.58	650,680	75.40
Cattle Herding and Fishery	41,176	0.87	-	-	7,381	1.07	13,506	1.04	9,761	0.89	5,124	0.68	5,404	0.63
Other Agricultural Worker	6,369	0.14	-	-	416	0.06	2,413	0.19	2,672	0.24	663	0.09	205	0.02
Business	48,487	1.03	-	-	9,140	1.33	21,526	1.66	13,408	1.23	2,301	0.31	2,112	0.24
Other	62,102	1.32	-	-	9,617	1.40	24,375	1.88	14,952	1.37	6,344	0.85	6,814	0.79
Total	3,814,311	80.98	17,481	90.73	595,433	86.62	1,076,914	82.96	876,488	80.27	575,455	76.66	672,540	77.93
FEMALE														
Manager, Administrator and Related Worker	1,651	0.04	-	-	-	-	1,201	0.09	-	-	460	0.06	-	-
Professional and Related Worker	17,611	0.37	-	-	1,633	0.24	4,536	0.35	8,868	0.81	2,121	0.28	458	0.05
Clerk	1,211	0.03	-	-	-	-	789	0.06	505	0.05	-	-	-	-
Sales Worker	913	0.02	-	-	-	-	-	-	975	0.09	-	-	-	-
Office Worker	1,211	0.03	-	-	385	0.06	900	0.07	-	-	-	-	-	-
Peasant Farmer	857,173	18.20	1,785	9.27	85,373	12.42	209,154	16.11	200,595	18.37	171,144	22.80	189,122	21.91
Cattle Herding and Fishery	5,213	0.11	-	-	2,526	0.37	-	-	1,822	0.17	-	-	865	0.10
Other Agricultural Worker	3,153	0.07	-	-	660	0.10	1,119	0.09	687	0.06	687	0.09	-	-
Business	4,944	0.10	-	-	1,365	0.20	2,814	0.22	-	-	765	0.10	-	-
Other	2,652	0.06	-	-	-	-	681	0.05	1,971	0.18	-	-	-	-
Total	895,966	19.02	1,785	9.27	91,942	13.38	221,194	17.04	215,423	19.73	175,177	23.34	190,445	22.07
BOTH SEXES														
Manager, Administrator and Related Worker	8,841	0.19	-	-	1,266	0.18	2,672	0.21	1,701	0.16	2,062	0.27	1,140	0.13
Professional and Related Worker	101,754	2.16	-	-	6,545	0.95	31,838	2.45	42,649	3.91	15,401	2.05	5,321	0.62
Clerk	6,465	0.14	-	-	296	0.04	2,973	0.23	1,886	0.17	1,310	0.17	-	-
Sales Worker	9,683	0.21	-	-	4,369	0.64	2,236	0.17	1,756	0.16	-	-	1,322	0.15
Office Worker	6,745	0.14	-	-	728	0.11	1,915	0.15	4,102	0.38	-	-	-	-
Peasant Farmer	4,402,693	93.47	19,266	100.00	643,066	93.55	1,190,040	91.67	994,544	91.08	715,975	95.38	839,802	97.31
Cattle Herding and Fishery	46,389	0.98	-	-	9,907	1.44	13,506	1.04	11,583	1.06	5,124	0.68	6,269	0.73
Other Agricultural Worker	9,522	0.20	-	-	1,076	0.16	3,532	0.27	3,359	0.31	1,350	0.18	205	0.02
Business	53,431	1.13	-	-	10,505	1.53	24,340	1.88	13,408	1.23	3,066	0.41	2,112	0.24
Other	64,754	1.37	-	-	9,617	1.40	25,056	1.93	16,923	1.55	6,344	0.85	6,814	0.79
Total	4,710,277	100.00	19,266	100.00	687,375	100.00	1,298,108	100.00	1,091,911	100.00	750,632	100.00	862,985	100.00

Table E2-03A: Number of Holdings and Number of Crops Grown by Size of Planted Area

Size of Planted Area	Total Number of Holding	Number of Holding Crops Grown		
		One Crop	Two Crops	Three and More Crops
0.01 - 0.10	2,308	2,308	-	-
0.11 - 0.20	92,085	58,310	32,560	1,215
0.21 - 0.30	245,833	126,385	99,412	20,036
0.31 - 0.40	130,669	30,830	60,450	39,389
0.41 - 0.50	485,959	236,238	181,138	68,583
0.51 - 0.60	3,214	-	-	3,214
0.61 - 0.70	146,092	13,896	52,108	80,088
0.71 - 0.80	368,909	86,840	150,119	131,950
0.81 - 0.90	128,213	14,051	25,981	88,181
0.91 - 1.00	473,222	131,205	203,641	138,376
1.01 - 1.50	835,381	92,008	273,454	469,919
1.51 - 2.00	533,172	37,333	141,542	354,297
2.01 - 5.00	963,613	44,742	173,833	745,038
5.01 +	159,426	3,959	20,392	135,075
Total	4,568,096	878,105	1,414,630	2,275,361

Note: This Table Excludes Holdings Without Planted Area

Table E2-03B: Number of Holdings and Number of Crops Grown by Region

Region	Total Number of Holding	Number of Holding Crops Grown		
		One Crop	Two Crops	Three and More Crops
Dodoma	314,055	58,980	137,319	117,756
Arusha	248,497	61,128	151,783	35,586
Kilimanjaro	226,801	50,227	76,860	99,714
Tanga	262,910	62,531	101,679	98,700
Morogoro	261,807	151,101	86,720	23,986
Pwani/D'Salaam	150,265	39,287	54,576	56,402
Lindi	157,783	14,993	68,577	74,213
Mtwara	217,032	25,915	80,482	110,635
Ruvuma	216,267	14,308	28,882	173,077
Iringa	303,981	80,062	106,837	117,082
Mbeya	318,814	60,055	69,810	188,949
Singida	200,363	30,203	51,119	119,041
Tabora	207,628	11,858	44,383	151,387
Rukwa	146,764	33,333	49,299	64,132
Kigoma	144,016	46,084	40,781	57,151
Shinyanga	364,401	19,832	65,942	278,627
Kagera	337,985	8,571	46,499	282,915
Mwanza	294,030	83,795	109,799	100,436
Mara	194,697	25,842	43,283	125,572
Total	4,568,096	878,105	1,414,630	2,275,361

Note: This Table Excludes Holdings Without Planted Area

Table E2-04: Number of Plots and Number of Crops
Grown by Size of Planted Area

Size of Planted Area	Total Number of Plots	Number of Plots Crops Grown		
		One Crop	Two Crops	Three and More Crops
0.01 - 0.10	2,995	2,995	-	-
0.11 - 0.20	95,274	58,310	34,533	2,431
0.21 - 0.30	297,333	130,200	127,061	40,072
0.31 - 0.40	220,454	35,009	95,390	90,055
0.41 - 0.50	646,082	242,845	222,309	180,928
0.51 - 0.60	7,883	-	-	7,883
0.61 - 0.70	327,674	18,692	93,716	215,266
0.71 - 0.80	664,218	94,947	227,565	341,706
0.81 - 0.90	342,684	25,434	53,209	264,041
0.91 - 1.00	820,351	149,790	303,443	368,118
1.01 - 1.50	2,031,583	122,301	450,345	1,457,937
1.51 - 2.00	1,514,808	59,136	273,767	1,181,905
2.01 - 5.00	3,304,246	96,305	364,624	2,843,317
5.01 +	659,332	3,959	43,268	612,105
Total	10,934,917	1,039,923	2,289,230	7,605,764

Note: This Table Excludes Holdings Without Planted Area

Table E2-07A: Number of Holdings, Number of Plots, Planted
Area (Hectares) and Average Area Per Plot by
Size of Planted Area

Size of Planted Area	Number of Holding	Planted Area (In Hectares)	Number of Plots	Average Area (In Hectares) Per Plot
0.01 - 0.10	2,308	196.50	2,995	.07
0.11 - 0.20	92,086	12,057.62	95,274	.13
0.21 - 0.30	245,833	61,499.65	297,333	.21
0.31 - 0.40	130,670	49,520.14	220,455	.22
0.41 - 0.50	485,959	242,722.65	646,083	.38
0.51 - 0.60	3,214	1,811.01	7,883	.23
0.61 - 0.70	146,092	92,069.75	327,674	.28
0.71 - 0.80	368,910	276,664.32	664,218	.42
0.81 - 0.90	128,214	112,685.89	342,684	.33
0.91 - 1.00	473,222	473,077.22	820,351	.58
1.01 - 1.50	835,381	1,128,230.72	2,031,583	.56
1.51 - 2.00	533,171	986,520.29	1,514,808	.65
2.01 - 5.00	963,613	2,939,497.90	3,304,246	.89
5.01 +	159,426	1,317,991.15	659,332	2.00
Total	4,568,099	7,694,544.81	10,934,919	.70

Table E2-07B: Number of Holdings, Number of Plots, Planted Area (Hectares) and Average Area Per Plot by Region

Region	Number of Holdings	Planted Area (In Hectares)	Number of Plots	Average Area (In Hectares) Per Plot
Dodoma	318,055	729,604.38	609,586	1.20
Arusha	298,497	317,579.39	368,292	.87
Kilimanjaro	226,801	209,778.96	414,867	.51
Tanga	262,918	886,881.55	511,516	.56
Morogoro	281,807	308,493.30	376,669	.82
Pwani/D'Salaam	158,264	217,888.83	268,432	.81
Lindi	157,783	268,848.68	312,105	.85
Mtwara	217,833	343,841.56	439,435	.90
Mruvuu	216,266	830,984.04	784,109	.70
Iringa	303,882	502,881.84	751,058	.67
Mbeya	318,613	644,079.36	1,048,488	.52
Singida	200,363	482,301.27	639,613	.75
Tabora	207,628	618,128.24	650,424	.79
Rukwa	146,794	321,882.65	306,939	1.05
Kigoma	144,817	89,353.32	297,489	.30
Shinyanga	364,401	1,029,631.20	1,138,735	.90
Kapara	337,886	610,687.01	1,087,645	.47
Mwanza	234,830	262,380.01	535,831	.49
Mara	194,887	265,378.04	525,685	.49
Total	4,568,096	7,694,544.83	10,934,918	.70

Table E2-08A: Number of Holdings, Planted Area (Hectares) and Number of Plots by Size of Planted Area

Size of Planted Area	Holdings		Planted Area		Plots	
	Number	%	Hectares	%	Number	%
0.01 - 0.10	2,388	.05	196.50	.00	2,995	.03
0.11 - 0.20	92,886	2.02	12,067.62	.16	95,274	.87
0.21 - 0.30	245,433	5.38	61,499.66	.80	297,333	2.72
0.31 - 0.40	138,870	2.86	49,520.14	.64	220,456	2.02
0.41 - 0.50	485,959	10.64	242,722.85	3.15	646,083	5.91
0.51 - 0.60	3,214	.07	1,811.01	.02	7,883	.07
0.61 - 0.70	146,092	3.20	92,888.75	1.20	327,674	3.00
0.71 - 0.80	368,910	8.08	276,644.32	3.60	664,218	6.07
0.81 - 0.90	128,214	2.81	112,885.89	1.46	342,684	3.13
0.91 - 1.00	473,222	10.35	473,877.22	6.15	820,351	7.50
1.01 - 1.50	835,381	18.29	1,188,230.72	14.56	2,031,583	18.58
1.51 - 2.00	533,171	11.67	985,520.29	12.82	1,514,808	13.85
2.01 - 5.00	963,613	21.09	2,887,487.90	38.20	8,384,246	30.22
5.01 +	159,426	3.49	2,317,980.15	17.13	559,332	6.03
Total	4,568,099	100.00	7,694,544.83	100.00	10,934,918	100.00

Table E2-088: Number of Holdings, Planted Area (Hectares) and Number of Plots by Region

Region	Holdings		Planted Area		Plots	
	Number	%	Hectares	%	Number	%
Dodoma	314,055	6.87	729,604.38	9.48	609,586	5.57
Arusha	248,497	5.44	317,579.39	4.13	366,292	3.35
Kilimanjaro	226,801	4.96	209,778.96	2.73	414,867	3.79
Tanga	262,910	5.76	286,881.55	3.73	511,516	4.68
Morogoro	261,807	5.73	308,493.30	4.01	376,669	3.44
Pwani/D'Salaam	150,264	3.29	217,888.83	2.83	268,432	2.45
Lindi	157,783	3.45	265,848.68	3.46	312,105	2.85
Mtwara	217,033	4.75	393,841.56	5.12	439,435	4.02
Ruvuma	216,266	4.73	530,964.04	6.90	754,109	6.90
Iringa	303,982	6.65	502,851.04	6.54	751,058	6.87
Mbeya	318,813	6.98	544,079.36	7.07	1,048,488	9.59
Singida	200,363	4.39	402,301.27	5.23	539,613	4.93
Tabora	207,628	4.55	515,128.24	6.69	650,424	5.95
Rukwa	146,764	3.21	321,882.65	4.18	306,939	2.81
Kigoma	144,017	3.15	89,353.32	1.16	297,489	2.72
Shinyanga	364,401	7.98	1,029,631.20	13.38	1,138,735	10.41
Kagera	337,985	7.40	510,687.01	6.64	1,087,645	9.95
Mwanza	294,030	6.44	262,380.01	3.41	535,831	4.90
Mara	194,697	4.26	255,370.04	3.32	525,685	4.81
Total	4,568,096	100.00	7,694,544.83	100.00	10,934,918	100.00

Table E2-09: Number of Holdings by Number of Plots

Number of Plots	Number of Holdings	% of Holdings With Plots
1	1,443,019	31.59
2	1,392,958	30.49
3	912,628	19.98
4	458,810	10.04
5	203,411	4.45
6	73,910	1.62
7	42,839	.94
8	17,743	.39
9	9,899	.22
10+	12,880	.28
Total	4,568,097	100.00

Table E2-11A: Number of Holdings and Planted Area (Hectares) by Crop (Cereals) and Region

Region	MAIZE		PADDY		SORGHUM		BULRUSH MILLET		FINGER MILLET		WHEAT	
	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area
TOTAL	2,929,048	2,765,541.05	910,628	602,896.52	860,881	640,089.64	270,854	280,447.39	190,629	81,567.59	62,245	38,512.28
Dodoma	222,536	322,283.46	1,715	583.31	128,575	131,715.32	135,733	135,885.28	6,858	8,060.98		
Arusha	207,941	210,566.68	529	264.27	9,602	5,702.65			4,309	1,862.33	5,693	9,051.68
Kilimanjaro	152,263	73,472.54	14,540	9,023.72	659	164.73			39,950	12,385.35		
Tanga	192,284	135,779.94	22,073	7,307.23							4,106	533.75
Morogoro	156,745	161,409.60	127,684	102,676.96	10,314	5,504.16						
Pwani/D'Salaam	72,342	45,291.75	87,315	45,611.71	7,641	2,920.61						
Lindi	102,686	59,247.40	39,777	22,071.51	86,435	62,863.16						
Mtwara	118,679	73,878.54	48,929	25,174.41	64,330	25,357.78			1,120	237.49		
Ruvuma	192,750	203,479.98	51,325	25,075.69	7,352	4,358.80			27,590	10,336.66	1,157	482.21
Iringa	287,119	343,104.19	519	129.86	10,763	7,370.26			9,155	3,192.26	45,958	21,473.00
Mbeja	245,128	199,999.82	61,112	45,899.52	8,776	7,010.99			25,267	9,945.47	4,883	1,591.56
Singida	134,532	114,355.07	21,683	10,695.87	122,689	104,903.24	84,914	71,201.39	8,698	3,600.16	448	5,388.00
Tabora	202,040	242,268.81	79,521	58,976.60	43,296	43,481.93	7,406	9,925.48	5,384	1,492.04		
Rukwa	118,569	134,873.67	5,697	4,191.60	5,955	5,235.36			15,838	15,021.17		
Kigoma	1,509	377.28	7,275	2,690.88	18,887	5,167.56	900	157.57				
Shinyanga	326,493	362,271.84	174,584	157,846.15	123,503	139,164.57	20,082	46,513.13	1,182	153.65		
Kagera	38,610	7,831.99	9,049	5,232.38	69,345	25,314.51	348	695.26	12,329	3,013.56		
Mwanza	51,723	19,996.38	135,957	67,088.67	35,388	10,550.42	19,822	15,760.99	5,475	3,650.00		
Mara	105,099	55,052.11	21,345	12,356.16	107,370	53,303.60	1,650	308.30	27,473	8,616.48		

Table E2-11B: Number of Holdings and Planted Area (Hectares) by Crop (Roots and Tubers) and Region

Region	CASSAVA		SWEET POTATOES		IRISH POTATOES		YAM		COCO YAMS		OTHERS	
	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area
TOTAL	1,316,140	773,117.19	1,087,352	275,559.35	67,804	39,243.94	36,235	4,684.73	43,689	7,620.35	-	318.68
Dodoma	2,057	519.35	9,022	1,866.64	3,764	2,068.87	-	-	-	-	-	-
Arusha	9,784	1,933.99	75	56.57	508	70.61	-	-	-	-	-	100.46
Kilimanjaro	2,782	363.40	1,273	104.09	1,966	1,140.30	616	80.04	1,318	329.46	-	-
Tanga	102,696	30,218.51	17,437	2,724.44	7,700	1,913.17	1,861	403.17	3,137	414.19	-	-
Morogoro	18,420	5,876.65	7,148	2,823.19	-	-	-	-	1,350	466.78	-	-
Pwani/D. Salaam	65,411	47,095.05	15,349	6,105.82	-	-	-	-	25	1.99	-	-
Lindi	77,132	52,162.12	1,753	306.80	-	-	-	-	313	40.75	-	-
Mtwara	154,316	146,801.98	1,364	292.58	-	-	-	-	456	59.22	-	-
Ruvuma	135,591	110,073.97	50,910	12,356.08	6,455	3,655.82	3,766	215.29	4,020	542.63	-	-
Iringa	19,445	18,971.58	31,863	6,493.13	23,240	17,790.85	-	-	660	85.84	-	112.06
Mbeya	51,619	25,020.83	41,379	7,666.99	22,022	11,653.19	3,098	154.17	17,951	2,634.45	-	-
Singida	11,960	3,793.87	76,600	27,785.09	-	-	-	-	4,764	1,400.10	-	57.76
Tabora	49,035	19,662.52	88,259	26,929.50	340	298.87	-	-	818	204.61	-	9.93
Rukwa	73,685	81,486.84	7,808	2,333.53	-	-	-	-	244	31.77	-	-
Kigoma	73,699	21,954.66	24,338	3,821.29	370	36.99	513	51.30	2,497	455.36	-	-
Shinyanga	15,074	16,077.60	242,257	76,248.86	-	-	-	-	783	101.83	-	-
Kagera	185,537	56,686.55	167,194	29,159.56	-	-	26,382	3,780.76	4,519	434.65	-	-
Mwanza	135,580	64,934.92	207,295	46,803.53	-	-	-	-	833	416.74	-	-
Mara	132,313	69,482.82	96,028	21,681.68	1,439	615.26	-	-	-	-	-	38.46

Table E2-11C: Number of Holdings and Planted Area (Hectares) by Crop (Oil Crops) and Region

Region	SUN FLOWER		SIMSIM		GROUNDNUTS		PALM OIL		COCONUTS		CASHEWNUITS		SOYA BEANS		CASTOR OIL	
	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area
TOTAL	156,756	86,428.43	52,882	22,277.31	586,865	216,769.07	6,930	2,253.90	33,499	35,819.05	113,096	168,734.34	6,340	2,164.11	.	.
Dodoma	28,999	20,296.78	4,757	2,690.94	117,639	64,432.20	.	.	.	.	.	.	.	.	.	.
Arusha	6,783	6,533.44	.	.	1,424	698.70	.	.	.	.	.	.	.	.	.	.
Kilimanjaro	12,356	2,236.31	615	233.52	22,743	4,169.69	.	.	659	79.07	.	.	.	.	.	.
Tanga	.	.	.	.	3,401	913.11	.	.	16,718	14,196.92	547	273.36	1,640	410.03	.	.
Morogoro	456	342.27	1,992	433.56	2,910	512.14	.	.	.	.	.	.	.	.	.	.
Pwani/D'Salaam	.	.	1,589	511.64	186	13.02	.	.	.	.	.	.	.	.	.	.
Lindi	369	25.20	17,910	8,490.89	8,086	2,655.44	.	.	12,253	17,319.21	9,082	14,443.25	.	.	.	.
Mtwara	.	.	8,619	3,368.16	29,395	12,411.04	.	.	3,420	3,953.95	20,796	33,392.48	.	.	.	.
Ruvuma	17,174	2,599.51	12,628	3,061.65	15,062	6,206.34	.	.	450	269.89	53,869	82,127.35	.	.	.	.
Iringa	56,898	21,593.40	.	.	8,135	2,596.69	.	.	.	.	28,802	38,497.90	4,700	1,754.08	.	.
Mbeya	995	150.25	474	1,485.12	73,408	23,224.59	2,707	676.81	.	.	.	.	.	.	.	.
Singida	27,087	29,998.83	1,612	945.74	26,783	10,728.11	.	.	.	.	.	.	.	.	.	.
Tabora	352	263.74	1,144	765.55	83,080	32,694.19	.	.	.	.	.	.	.	.	.	.
Rukwa	4,230	2,013.99	.	.	21,623	7,009.44	.	.	.	.	.	.	.	.	.	.
Kigoma	.	.	.	.	28,234	7,299.07	4,223	1,577.09	.	.	.	.	.	.	.	.
Shinyanga	.	.	1,182	153.65	78,609	25,868.76	.	.	.	.	.	.	.	.	.	.
Kagera	.	.	.	.	63,361	14,302.74	.	.	.	.	.	.	.	.	.	.
Mwanza	.	.	.	.	941	141.16	.	.	.	.	.	.	.	.	.	.
Mara	1,067	374.72	360	136.88	1,846	892.65	.	.	.	.	.	.	.	.	.	.

Table E2-110 : Number of Holdings and Planted Area (Hectares) by Crop (Cash Crops) and Region

Region	COTTON		TOBACCO		COFFEE		TEA		OTHER CROPS	
	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area
TOTAL	181,003	233,566.19	130,392	88,242.36	553,642	226,943.12	3,876	1,925.98	50,835	16,873.65
Dodoma	-	-	-	-	-	-	-	-	967	845.72
Arusha	529	792.81	616	30.79	34,890	11,699.93	-	-	581	75.59
Kilimanjaro	-	-	-	-	105,591	35,657.82	-	-	421	159.85
Tanga	-	-	709	35.47	10,137	3,751.02	-	-	6,474	1,779.16
Morogoro	456	456.36	-	-	-	-	-	-	4,219	3,109.79
Pwani/D'Salaam	-	-	-	-	-	-	-	-	551	192.15
Lindi	-	-	-	-	-	-	-	-	1,067	470.89
Mtwara	-	-	-	-	-	-	-	-	404	706.42
Ruvuma	-	-	41,211	24,808.08	67,829	47,286.43	-	-	4,179	734.43
Iringa	1,251	2,116.27	-	-	-	-	2,327	1,441.44	3,013	769.53
Mbeya	8,996	8,282.82	-	-	101,493	47,688.40	1,549	484.54	22,184	6,690.53
Singida	312	1,561.85	355	355.11	-	-	-	-	380	26.62
Tabora	10,662	15,921.35	52,733	43,812.54	-	-	-	-	877	151.01
Rukwa	-	-	5,417	4,261.09	-	-	-	-	1,158	297.28
Kigoma	523	68.00	-	-	3,625	757.18	-	-	248	32.20
Shinyanga	120,807	172,163.88	25,073	14,141.96	-	-	-	-	-	-
Kagera	6,560	7,042.41	348	45.19	225,261	77,182.56	-	-	3,828	803.89
Mwanza	9,034	7,945.28	2,823	367.01	-	-	-	-	-	-
Mara	21,873	17,215.16	1,106	385.13	4,815	2,919.78	-	-	286	28.58

Table ES-12A: Number of Holdings and Planted Area (Hectares) by Crop (Cereals) and Size of Planted Area

Total	Size of Planted Area	MAIZE		PABOY		SORGHUM		BULRUSH MILLET		FINER MILLET		WHEAT	
		Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area
2.01 +	0.01 - 0.10	143.737	424.221.31	20.114	82.244.58	47.229	115.662.10	17.777	27.235.43	11.453	13.384.52	1.331	8.915.40
5.01 - 5.00	1.21 - 5.00	769.882	1,022.916.68	538.317	509.747.90	522.538	522.577.69	84.394	106.947.19	64.452	34.479.55	16.648	13,826.64
1.01 - 1.20	1.01 - 1.20	385.521	385.946.04	82.119	27.521.99	156.981	89.602.82	42.862	41.432.46	36.453	15.298.80	13.963	6.149.04
0.91 - 1.00	0.91 - 1.00	316.368	501.435.73	95.044	24.427.94	167.827	90.062.06	62.622	47.587.65	34.734	11.079.59	13.524	2.403.77
0.81 - 0.90	0.81 - 0.90	71.850	31.797.37	25.229	37.478.99	74.441	37.478.99	18.507	11.564.93	11.688	3.555.76	1.351	6.149.04
0.71 - 0.80	0.71 - 0.80	501.333	94.946.38	33.523	12.557.32	42.489	12.557.32	4.842	1.949.45	6.509	1.741.10	2.584	1.567.03
0.61 - 0.70	0.61 - 0.70	72.739	26.077.06	56.436	8.807.64	53.457	2.241.95	15.052	6.312.76	10.396	3.130.96	2.584	1.567.03
0.51 - 0.60	0.51 - 0.60	3.514	306.57	56.436	8.807.64	53.457	2.241.95	15.052	6.312.76	10.396	3.130.96	2.584	1.567.03
0.41 - 0.50	0.41 - 0.50	535.921	87.520.01	35.494	37.484.26	49.200	14.785.04	15.797	4.755.20	2.830	1.571.88	5.573	483.49
0.31 - 0.40	0.31 - 0.40	60.608	14.501.98	34.853	6.751.33	13.951	5.649.25	5.103	4.28.37	1.548	1.02.34	5.018	321.65
0.21 - 0.30	0.21 - 0.30	73.874	14.693.06	34.539	7.132.55	18.526	3.520.23	4.382	793.49	5.609	406.76	666	96.22
0.11 - 0.20	0.11 - 0.20	55.414	5.127.22	6.521	813.89	4.110	334.36	4.382	793.49	5.609	406.76	666	96.22
0.01 - 0.10	0.01 - 0.10	-	-	932	93.51	-	-	-	-	489	48.63	687	34.33

Table E2-12B: Number of Holdings and Planted Area (Hectares) by Crop (Roots and Tubers) and Size of Planted Area

Size of Planted Area	CASSAVA		SWEET POTATOES		IRISH POTATOES		YAM		COCO YAMS		OTHERS	
	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area
0.01 - 0.10					1,373	202.99						
0.11 - 0.20	12,292	953.60	29,300	3,170.44	1,534	199.43	784	23.52	772	49.17	-	-
0.21 - 0.30	49,376	7,769.18	53,779	7,879.37	6,155	1,111.66	784	23.52	513	66.72	-	-
0.31 - 0.40	35,272	5,752.27	31,188	4,110.86	2,776	432.22	1,414	98.98	1,497	294.64	-	-
0.41 - 0.50	112,801	30,458.73	71,165	13,441.38	5,217	1,618.92	2,836	226.00	2,232	317.54	-	57.76
0.51 - 0.60			2,602	193.37							-	-
0.61 - 0.70	50,353	11,346.04	42,781	6,462.47	3,767	1,006.73	1,469	118.24	3,377	438.97	-	-
0.71 - 0.80	115,451	36,007.00	79,787	14,881.42	2,620	1,268.92			3,267	367.77	-	-
0.81 - 0.90	49,350	14,415.32	39,944	5,831.23	1,941	495.30	2,058	201.41	1,100	132.91	-	-
0.91 - 1.00	109,194	52,476.16	55,701	13,420.59	1,746	563.34	2,394	253.86	506	65.78	-	100.46
1.01 - 1.50	230,937	112,447.18	187,848	44,355.07	10,854	3,951.67	9,934	957.78	10,587	1,437.19	-	-
1.51 - 2.00	170,934	102,399.49	131,315	30,331.37	10,882	7,829.18	7,512	1,489.38	7,475	1,990.97	-	9.93
2.01 - 5.00	326,580	298,132.18	295,412	95,745.59	18,713	18,187.73	7,050	1,292.04	11,877	2,336.88	-	150.52
5.01 +	53,601	100,960.03	66,531	35,736.17	1,226	2,475.86			487	121.82	-	-
Total	1,316,141	773,117.18	1,087,353	275,559.35	67,804	39,243.95	36,235	4,684.73	43,690	7,620.36	-	318.67

Note That : Others include Onions and Garlic

Table E2-12C: Number of Holdings and Planted Area (Hectares) by Crop (Oil Crops)
and Size of Planted Area

Size of Planted Area	SUN FLOWER		SIMSİM		GROUNDNUTS		PALM OIL		COCONUTS		CASHEWNUTS		SOYA BEANS		CASTOR OIL	
	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area
0.01 - 0.10	-	-	-	-	1,085	141.09	-	-	-	-	-	-	-	-	-	-
0.11 - 0.20	-	-	-	-	4,241	456.33	-	-	-	-	-	-	-	-	-	-
0.21 - 0.30	-	-	440	30.78	8,503	1,213.03	-	-	-	-	573	143.17	-	-	-	-
0.31 - 0.40	386	146.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.41 - 0.50	2,799	444.50	1,668	216.82	18,949	3,636.05	-	-	-	-	-	-	-	-	-	-
0.51 - 0.60	-	-	-	-	-	-	-	-	1,210	567.37	1,003	422.48	-	-	-	-
0.61 - 0.70	473	23.67	983	157.27	13,246	2,220.85	-	-	-	-	-	-	-	-	-	-
0.71 - 0.80	6,500	947.82	1,849	531.55	23,945	6,346.26	-	-	789	220.78	649	195.19	-	-	-	-
0.81 - 0.90	3,557	652.42	-	-	17,502	3,606.13	-	-	3,242	1,633.10	1,581	713.61	-	-	-	-
0.91 - 1.00	15,384	3,090.47	2,459	625.14	40,386	11,027.50	450	171.07	213	53.19	3,362	1,028.18	547	136.68	-	-
1.01 - 1.50	27,826	6,762.87	5,856	1,538.68	121,913	34,162.73	1,155	359.51	1,226	644.44	3,526	1,705.80	547	136.68	-	-
1.51 - 2.00	22,929	6,903.47	9,042	3,649.78	89,711	30,511.16	2,988	888.33	4,315	1,279.17	11,655	7,486.53	966	346.20	-	-
2.01 - 5.00	60,533	37,812.99	25,395	10,359.98	209,828	85,196.80	983	496.58	3,245	2,013.17	17,046	13,522.67	419	159.24	-	-
5.01 +	16,370	29,643.70	5,191	5,167.31	38,355	38,241.14	1,354	338.41	13,352	16,908.48	60,755	91,005.90	3,862	1,385.31	-	-
									5,909	12,499.35	12,945	52,510.80	-	-	-	-
Total	156,757	86,428.43	52,883	22,277.31	586,864	216,769.07	6,930	2,253.90	33,501	35,819.05	113,095	168,734.33	6,341	2,164.11	-	-

Table E2-12D: Number of Holdings and Planted Area (Hectares) by Crop (Cash Crops) and Size of Planted Area

Size of Planted Area	COTTON		TOBACCO		COFFEE		TEA		OTHER CROPS	
	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area
0.01 - 0.10	-	-	709	35.47	4,767	402.60	-	-	709	35.47
0.11 - 0.20	938	234.43	941	122.34	23,737	2,853.50	-	-	687	89.26
0.21 - 0.30	-	-	2,039	265.04	11,047	1,525.39	-	-	-	-
0.31 - 0.40	-	-	4,778	2,388.80	36,841	6,767.66	784	101.91	1,316	401.65
0.41 - 0.50	3,826	1,224.03	-	-	-	-	-	-	-	-
0.51 - 0.60	-	-	-	-	-	-	-	-	-	-
0.61 - 0.70	3,053	1,200.75	3,260	589.22	27,513	4,143.76	-	-	1,703	85.16
0.71 - 0.80	7,458	3,042.67	6,261	3,068.65	37,399	9,237.18	-	-	248	32.20
0.81 - 0.90	1,530	469.30	2,672	274.33	28,081	5,029.45	-	-	994	156.77
0.91 - 1.00	9,230	5,547.38	4,931	2,157.17	37,431	11,126.13	-	-	-	-
1.01 - 1.50	24,933	12,938.23	17,973	9,721.58	122,641	39,229.49	2,537	1,268.43	10,737	2,651.16
1.51 - 2.00	17,262	13,296.38	25,442	14,225.32	82,154	35,384.30	-	-	10,513	2,561.58
2.01 - 5.00	86,203	101,525.43	55,861	46,101.06	130,720	96,786.95	556	555.64	20,738	8,289.61
5.01 +	26,572	94,087.59	5,526	9,293.39	11,310	14,456.72	-	-	3,190	2,570.80
Total	181,005	233,566.19	130,393	88,242.37	553,641	226,943.13	3,877	1,925.98	50,835	16,873.66

Table E2-13: Total Planted Area (Hectares) under Inter-Cropping: Primary and Secondary Crops

Primary Crop	Pure Stand	Secondary Crop														Total Area
		Maize	Paddy	Sorghum	Bur lush Millet	Finger Millet	Cassava	Sweet Potatoes	Beans	Pigeon Peas	Sunflower	Groundnuts	Coconuts	Cotton	Other Crops	
Maize	1,579,517.30	-	10,520.32	29,616.87	2,566.16	6,896.92	45,764.44	1,681.81	108,537.33	22,325.76	24,905.66	52,479.76	1,426.16	2,167.74	45,983.60	1,934,389.83
Paddy	552,234.28	7,580.63	-	668.28	-	-	1,851.72	93.32	39.61	232.28	24.38	63.71	-	-	1,840.85	564,629.06
Sorghum	363,396.46	44,871.54	1,714.05	-	4,124.98	154.75	2,862.43	329.25	282.23	2,883.44	1,336.06	6,688.64	205.04	-	5,983.48	434,832.35
Bur lush Millet	179,894.87	12,107.05	-	8,217.01	-	-	316.72	34.75	-	96.72	2,579.36	3,762.37	-	-	5,781.31	212,790.16
Finger Millet	50,152.24	3,509.64	53.44	73.07	-	-	914.30	27.87	65.46	553.00	1,182.21	94.49	-	-	743.26	57,368.98
Cassava	355,704.31	36,028.80	2,479.06	10,562.67	-	1,925.90	-	25,601.25	11,615.16	7,791.22	37.92	4,184.84	2,774.71	243.12	23,161.85	482,110.81
Sweet Potatoes	222,094.78	2,341.61	-	275.31	-	-	3,585.54	-	590.34	38.44	103.94	-	-	-	634.53	229,664.49
Beans	291,871.32	9,819.18	-	-	-	295.71	4,726.64	690.52	-	317.30	1,695.28	948.11	-	-	11,501.81	321,865.87
Pigeon Peas	3,733.28	1,053.58	-	211.50	-	-	505.83	24.29	110.39	-	-	-	5.13	-	253.32	5,896.52
Sunflower	48,105.53	686.81	-	391.98	-	-	-	12.36	388.78	-	-	-	-	-	628.00	50,324.08
Groundnuts	105,698.05	8,742.56	-	552.78	162.43	-	4,158.00	44.81	143.85	894.96	9.27	110.62	-	-	370.81	120,776.72
Coconuts	11,572.12	-	-	-	-	-	1,182.91	7.11	-	-	-	-	-	-	9,886.52	22,648.66
Cotton	206,325.76	5,903.59	-	-	-	-	-	264.08	41.69	-	-	235.98	-	-	152.83	212,923.93
Other Crops	512,963.98	5,183.05	30.88	1,736.76	229.33	-	15,039.94	682.21	2,060.29	1,324.34	-	578.00	7,753.19	-	111,193.62	658,775.59
Total	4,483,264.28	137,828.84	14,797.75	52,306.23	7,882.90	9,273.28	80,907.67	29,492.83	123,875.13	36,457.46	31,874.08	69,146.52	12,164.23	2,410.86	218,115.79	5,308,997.05

Table E2-14A: Number of Holdings by Type of Primary Crop and Size of Planted Area

Size of Planted Area	Total Holdings	Primary Crop													Other Crops
		Maize	Paddy	Sorghum	Burlyush Millet	Finger Millet	Cassava	Sweet Potatoes	Beans	Pigeon Peas	Sunflower	Groundnuts	Coconuts	Cotton	
0.01 - 0.10	491	-	-	491	-	-	-	-	-	491	-	-	-	-	27,146
0.11 - 0.20	88,186	33,635	13,912	8,207	450	2,588	16,619	19,793	27,176	1,966	-	4,820	-	-	56,012
0.21 - 0.30	207,545	76,526	31,825	20,951	4,781	4,188	54,305	30,510	38,063	587	-	9,066	1,469	6,657	30,472
0.31 - 0.40	92,370	34,398	19,625	6,750	-	3,542	26,226	13,194	17,993	171	386	8,367	-	1,825	98,178
0.41 - 0.50	475,262	232,138	109,942	63,823	23,446	9,860	116,836	71,944	51,467	2,809	3,691	27,218	2,365	15,454	-
0.51 - 0.60	1,380	563	817	563	-	281	817	1,380	817	-	-	-	-	-	-
0.61 - 0.70	90,321	42,650	13,714	13,998	-	3,418	27,400	23,368	17,222	347	-	8,481	789	348	36,627
0.71 - 0.80	284,965	158,298	49,173	36,624	11,076	11,735	64,944	37,909	27,991	1,996	3,602	11,868	2,211	8,017	78,729
0.81 - 0.90	72,346	27,938	14,219	14,675	1,900	3,984	30,954	21,162	10,357	-	493	8,625	237	1,909	31,804
0.91 - 1.00	437,177	258,126	84,791	67,507	26,114	14,423	96,876	78,365	38,659	1,486	4,575	28,995	3,251	15,546	115,135
1.01 - 1.50	529,267	302,844	75,551	96,362	20,706	26,449	145,622	92,965	64,477	3,614	6,938	36,333	4,619	13,691	186,804
1.51 - 2.00	330,723	197,365	51,534	68,400	17,586	19,089	104,210	57,911	62,577	1,522	6,174	29,148	4,492	11,239	126,734
2.01 - 5.00	485,045	298,043	96,253	89,445	19,054	36,877	189,624	115,685	87,584	3,006	6,478	55,168	7,730	17,668	222,867
5.01 +	1,470,468	890,571	306,582	211,662	127,867	33,828	170,297	335,118	250,531	3,094	27,708	136,601	6,337	82,963	278,664
Total	4,565,546	2,549,495	867,938	699,458	252,980	170,254	1,044,730	899,304	694,914	21,089	60,045	* 364,690	33,500	175,317	1,289,172

Table E2-14B: Planted Area (Hectares) by Type of Primary Crops and Size of Planted Area

Size of Planted Area	Total Planted Area	Primary Crop													
		Maize	Paddy	Sorghum	Burush Millet	Finger Millet	Cassava	Sweet Potatoes	Beans	Pigeon Peas	Sunflower	Groundnuts	Coconuts	Cotton	Other Crops
0.01 - 0.10	1,007.51			982.94											
0.11 - 0.20	36,091.29	13,501.85	4,190.86	1,667.75	112.55	836.67	2,175.32	2,604.87	6,208.19	24.57					
0.21 - 0.30	101,858.90	29,170.77	11,268.88	8,970.33	3,121.38	691.58	11,985.83	5,792.81	10,355.08	342.81					
0.31 - 0.40	48,120.35	11,743.69	5,611.78	1,869.62		2,081.35	5,781.61	2,553.98	4,063.01	88.12		591.32			3,859.10
0.41 - 0.50	389,597.27	133,756.87	63,644.23	28,590.41	16,522.99	2,477.61	43,016.26	16,746.91	16,842.42	47.84	146.52	2,435.58	483.90	3,150.43	14,345.01
0.51 - 0.60	1,203.38	112.58	310.61	112.58		36.59	310.61	255.01	65.39	868.91	1,354.20	1,578.22		4,106.25	8,536.47
0.61 - 0.70	57,597.35	18,783.21	4,647.29	3,216.94		532.49	8,321.05	3,114.93	4,495.68	65.92		7,566.74	1,139.18	13,669.08	43,401.55
0.71 - 0.80	245,208.54	91,706.31	23,033.02	21,035.29	5,883.75	4,040.52	29,068.14	8,566.30	10,897.05	593.04	1,381.68	1,588.76	220.78	173.82	12,436.49
0.81 - 0.90	66,949.30	16,745.44	9,501.39	4,946.49	1,627.19	683.84	11,765.19	3,596.45	3,457.24		4,898.01	2,008.73	1,042.45	4,281.93	38,787.04
0.91 - 1.00	566,584.19	210,986.52	63,731.46	55,403.07	17,742.23	7,223.40	55,233.84	22,027.40	20,469.74	187.27	2,208.73	2,364.66	355.41	1,450.48	10,268.25
1.01 - 1.50	741,642.69	294,635.45	57,926.62	66,900.33	20,396.79	8,859.66	86,288.43	23,127.39	28,979.32	915.34	2,208.73	11,332.11	2,654.83	26,484.08	70,171.42
1.51 - 2.00	611,384.59	226,633.63	42,682.00	52,500.31	20,402.48	7,163.01	71,592.80	18,479.41	32,253.87	2,250.74	3,973.31	11,213.17	3,419.64	10,239.51	123,432.32
2.01 - 5.00	1,409,105.72	489,692.35	88,742.53	106,087.11	37,112.16	21,008.94	210,329.80	37,624.79	57,761.71	2,250.74	3,973.31	12,160.42	5,159.44	11,522.11	104,239.48
5.01 +	2,603,704.74	1,089,598.71	212,776.21	235,500.24	150,228.65	16,658.65	156,102.33	101,397.67	175,379.18	1,458.01	5,208.28	23,363.30	9,775.96	38,986.54	281,952.24
Total	6,880,055.82	2,627,061.38	588,066.88	587,783.41	273,150.17	72,294.31	691,970.41	245,887.92	371,227.08	9,134.37	54,554.32	147,622.54	35,819.05	231,155.33	944,328.63

Table E2-14C: Number of Holdings by Type of Primary Crop and Region

Size of Planted Area	Total Holdings	Primary Crop													Other Crops
		Maize	Paddy	Sorghum	Bur lush Millet	Finger Millet	Cassava	Sweet Potatoes	Beans	Pigeon Peas	Sunflower	Groundnuts	Coconuts	Cotton	
TOTAL	4,565,548	2,549,494	867,939	699,459	252,981	170,255	1,044,729	899,304	694,914	21,090	60,044	364,689	33,499	175,315	1,289,172
Dodoma	314,055	179,798	1,715	110,597	129,713	3,499	2,057	8,334	5,306	1,757	11,355	84,341	-	-	22,277
Arusha	248,497	205,357	529	8,455	-	3,089	3,489	75	21,806	1,559	5,379	529	-	529	45,366
Kilimanjaro	224,252	121,748	14,540	659	-	36,534	-	659	39,330	-	5,095	16,236	659	-	117,477
Tanga	262,910	188,093	22,073	-	-	-	45,457	10,838	73,242	-	-	54	16,718	-	62,069
Morogoro	261,907	149,595	123,995	8,519	-	-	9,771	6,692	25,118	538	456	95	-	456	12,134
Pwani/D'Salaam	150,364	60,519	65,773	6,042	-	-	55,700	13,416	-	847	-	-	12,253	-	25,104
Lindi	157,783	55,243	36,559	71,704	-	-	62,996	1,516	-	5,673	-	378	3,420	-	36,955
Mtwara	217,033	73,158	40,968	28,825	-	636	130,790	1,364	-	5,074	-	156	450	-	69,795
Ruvuma	216,266	170,673	48,580	2,824	-	24,458	88,710	45,397	34,072	1,727	2,302	313	-	-	145,234
Iringa	303,982	286,531	519	9,643	-	8,117	18,371	31,266	37,410	-	6,008	772	-	1,251	76,048
Mbeya	318,813	237,555	61,112	5,481	-	21,302	47,577	40,753	154,045	-	-	117	-	8,996	167,030
Singida	200,363	119,960	19,364	96,310	75,299	8,698	11,960	74,573	-	-	26,253	309	-	312	34,197
Tabora	207,628	193,720	78,989	25,485	5,168	5,384	39,149	85,842	8,230	-	-	261	-	10,662	67,200
Rukwa	146,764	97,926	5,697	4,202	-	14,792	68,742	7,808	54,006	-	2,515	17,295	-	-	7,361
Kigoma	144,017	1,509	6,591	18,317	900	-	47,144	18,101	108,541	3,916	-	26,418	-	523	24,468
Shinyanga	364,401	277,025	174,584	103,920	20,082	-	14,405	238,371	-	-	-	15,536	-	115,505	32,854
Kagera	337,985	20,930	9,049	68,998	348	11,310	140,846	144,505	118,698	-	-	61,351	-	6,560	301,325
Mwanza	294,030	27,126	135,957	26,829	19,822	5,475	126,074	131,386	3,516	-	-	941	-	9,034	27,432
Mara	194,697	83,028	21,345	102,649	1,650	26,961	131,491	38,409	11,594	-	681	1,486	-	21,487	14,848

Table E2-14D: Planted Area (Hectares) by Type of Primary Crops and Region

Region	Total Planted Area	Primary Crop													Other Crops
		Maize	Paddy	Sorghum	BurTush Millet	Finger Millet	Cassava	Sweet Potatoes	Beans	Pigeon Peas	Sunflower	Groundnuts	Coconuts	Cotton	
TOTAL	6,880,055.81	2,627,061.38	588,066.88	587,783.40	273,150.17	72,294.32	691,970.40	245,887.92	371,227.08	9,134.39	54,554.33	147,622.55	35,819.05	231,155.32	944,328.62
Dodoma	645,710.71	303,044.12	583.31	124,139.52	132,925.76	3,441.37	519.35	1,708.31	12,386.91	2,192.98	8,528.79	46,820.90	-	-	9,419.40
Arusha	268,295.98	210,256.45	264.27	5,484.70	-	1,333.47	1,389.62	56.57	15,349.49	892.31	6,226.40	528.54	-	792.81	25,721.36
Kilimanjaro	163,181.63	68,486.93	9,623.72	164.73	-	11,787.49	-	85.66	12,520.13	-	1,417.57	3,265.54	79.07	-	56,350.79
Tanga	242,486.28	132,899.78	7,307.23	-	-	-	16,250.98	1,728.82	34,173.46	-	-	869.38	14,196.92	-	35,059.72
Morogoro	294,414.14	159,480.40	101,977.02	4,821.99	-	-	4,011.56	2,709.10	12,099.72	204.30	342.27	305.18	-	456.36	8,006.23
Pwani/D'Salaam	174,705.71	42,482.43	37,930.48	2,631.43	-	-	42,936.89	5,740.72	-	332.23	-	-	17,319.21	-	25,332.32
Lindi	222,451.92	44,214.97	21,038.84	57,573.48	-	-	46,578.00	299.69	-	2,823.19	-	1,724.95	3,953.95	-	44,244.84
Mtwara	324,762.90	57,860.85	23,264.53	15,596.20	-	82.74	124,745.27	292.58	-	1,423.12	-	10,063.64	269.89	-	91,164.08
Ruvuma	481,369.48	194,148.18	23,004.89	3,172.94	-	9,777.97	95,053.12	11,859.36	16,516.38	498.71	883.14	4,742.99	-	-	121,711.80
Iringa	452,960.91	342,527.34	129.86	7,224.57	-	3,057.21	18,767.56	6,397.65	14,874.40	-	5,796.61	1,600.74	-	2,116.27	50,488.71
Mbeya	515,284.89	196,741.46	45,899.52	5,912.18	-	8,484.54	23,628.07	7,585.59	113,032.66	-	-	17,104.91	-	8,282.82	88,613.13
Singida	379,159.09	109,519.79	9,562.22	97,222.54	68,130.42	3,600.16	3,793.87	27,330.48	-	-	29,543.29	8,142.69	-	1,561.85	20,751.78
Tabora	469,759.00	234,728.83	58,737.32	35,211.01	8,658.75	1,482.04	17,916.78	26,289.47	4,326.69	-	-	15,944.14	-	15,921.35	50,540.64
Rukwa	290,267.81	123,347.04	4,191.60	4,701.71	-	14,278.66	79,724.76	2,333.53	49,488.10	-	1,595.77	5,893.55	-	-	4,713.10
Kigoma	81,594.09	377.28	2,628.71	5,150.47	157.57	-	19,036.30	3,006.54	33,629.61	767.54	-	7,055.14	-	68.00	9,716.92
Shinyanga	964,737.16	337,280.97	157,846.15	131,451.78	46,513.13	-	15,776.47	75,401.64	-	-	-	8,330.83	-	169,996.14	22,220.05
Kagera	432,938.03	5,966.12	5,232.38	25,227.60	695.26	2,728.03	49,201.93	26,898.49	47,256.41	-	-	14,242.46	-	7,042.41	248,446.94
Mwanza	240,849.50	12,981.82	67,088.67	9,394.49	15,760.99	3,650.00	63,369.94	36,244.91	1,531.59	-	-	141.16	-	7,945.28	22,740.64
Mara	235,106.58	50,804.64	12,356.16	52,702.06	308.30	8,580.63	69,269.93	9,918.83	4,041.53	-	220.48	845.82	-	16,972.04	9,086.17

Table E2-15A: Number of Holdings by Type of Secondary Crop and Size of Planted Area

Size of Planted Area	Total Holdings	Secondary Crop													Other Crops
		Maize	Paddy	Sorghum	Burlyush Millet	Finger Millet	Cassava	Sweet Potatoes	Beans	Pigeon Peas	Sunflower	Groundnuts	Coconuts	Cotton	
0.01 - 0.10	491	-	-	953	-	-	10,428	9,224	14,028	1,582	-	342	-	-	491
0.11 - 0.20	62,204	7,203	-	-	-	-	-	-	-	-	-	-	-	-	36,978
0.21 - 0.30	138,738	20,655	2,371	10,689	-	519	17,340	26,886	20,426	4,737	806	5,668	-	-	72,901
0.31 - 0.40	55,282	10,479	-	1,804	-	-	10,580	6,266	16,623	2,749	-	3,096	-	-	19,780
0.41 - 0.50	321,937	47,067	4,903	29,607	1,664	1,182	39,227	38,111	43,066	15,709	8,226	34,309	2,469	-	172,145
0.51 - 0.60	817	-	-	-	-	-	-	-	-	-	-	-	-	-	817
0.61 - 0.70	53,466	8,107	-	2,896	520	1,101	14,312	7,546	10,226	4,860	473	1,725	583	885	18,461
0.71 - 0.80	199,476	35,971	5,090	8,922	2,684	918	30,603	16,668	44,351	10,877	3,681	18,080	317	885	73,122
0.81 - 0.90	46,810	9,194	-	3,045	-	2,576	6,606	5,380	11,562	784	3,501	3,325	-	-	13,263
0.91 - 1.00	319,907	60,777	8,562	25,463	4,895	2,921	23,721	18,687	65,085	13,297	17,921	40,391	4,900	1,771	133,098
1.01 - 1.50	360,631	65,116	9,275	23,347	2,677	3,590	35,560	18,556	94,230	30,794	17,640	50,691	3,473	-	110,180
1.51 - 2.00	213,322	34,845	4,353	15,998	1,873	3,532	28,997	18,907	53,451	16,878	12,387	28,535	1,852	1,761	67,880
2.01 - 5.00	315,455	62,197	7,522	37,452	2,815	2,951	47,886	20,210	62,150	26,375	25,313	31,769	7,398	386	95,764
5.01 +	1,200,692	17,125	612	1,245	744	1,083	6,153	1,606	5,746	770	6,753	4,246	1,225	-	1,170,472
Total	3,289,228	379,553	42,688	161,421	17,872	20,373	271,413	188,047	440,944	129,412	96,711	222,177	22,217	5,688	1,985,352

Table E2-15B: Planted Area (Hectares) by Type of Secondary Crop and Size of Planted Area

Size of Planted Area	Total Planted Area	Secondary Crop														Other Crops
		Maize	Paddy	Sorghum	Bur lush Millet	Finger Millet	Cassava	Sweet Potatoes	Beans	Pigeon Peas	Sunflower	Groundnuts	Coconuts	Cotton		
0.01 - 0.10	992.77	-	-	-	-	-	-	-	-	-	-	-	-	-	992.77	
0.11 - 0.20	30,028.83	261.68	-	37.01	-	-	373.74	301.23	516.07	47.45	-	20.53	-	-	28,471.13	
0.21 - 0.30	73,017.28	1,819.18	156.70	804.52	-	36.36	1,377.40	2,014.77	1,623.39	315.91	24.17	462.45	-	-	64,382.42	
0.31 - 0.40	27,219.16	1,029.68	37.19	187.05	-	-	999.17	548.96	1,522.82	304.22	-	206.13	-	-	22,383.95	
0.41 - 0.50	247,333.74	7,295.52	719.23	4,269.41	256.74	153.65	5,800.38	4,864.61	4,941.09	1,962.20	944.55	4,583.80	378.46	-	211,164.10	
0.51 - 0.60	662.09	16.35	-	-	-	-	-	106.26	-	-	-	-	-	-	539.48	
0.61 - 0.70	23,153.35	1,073.95	-	435.13	130.10	140.90	1,784.31	923.83	1,576.07	677.13	23.67	189.44	145.69	115.11	15,938.03	
0.71 - 0.80	119,728.84	7,078.59	1,265.11	2,009.99	721.21	261.46	5,772.99	2,322.99	7,508.05	2,114.12	522.60	2,906.17	60.20	61.98	87,123.37	
0.81 - 0.90	23,597.13	1,375.51	-	420.31	-	529.56	1,141.36	645.55	1,536.03	117.53	338.89	713.11	-	-	16,779.27	
0.91 - 1.00	314,230.10	16,722.30	2,450.74	6,997.54	1,335.79	819.56	6,779.78	3,998.47	13,594.91	2,874.25	2,991.63	9,969.90	1,419.41	557.86	243,717.96	
1.01 - 1.50	290,436.56	20,389.11	3,690.04	7,562.45	1,169.28	819.93	10,404.08	3,592.91	27,788.32	9,136.80	3,861.87	15,411.32	1,478.42	-	185,132.04	
1.51 - 2.00	213,989.80	15,231.87	1,495.54	6,023.59	866.06	746.67	8,893.89	4,024.32	19,101.12	6,159.75	3,861.98	10,961.72	1,074.00	1,318.35	134,230.94	
2.01 - 5.00	404,441.15	43,873.15	4,842.35	21,559.96	2,135.02	1,771.92	24,760.18	5,469.29	28,566.12	12,407.83	11,228.97	17,423.52	4,025.05	357.56	226,020.22	
5.01 +	2,261,698.03	21,661.17	140.84	1,999.27	468.71	3,993.26	12,820.38	679.65	15,601.12	340.29	8,075.76	6,298.45	3,583.00	-	2,186,036.13	
Total	4,030,528.83	137,828.06	14,797.74	52,306.23	7,082.91	9,273.27	80,907.66	29,492.84	123,875.11	36,457.48	31,874.09	69,146.54	12,164.23	2,410.86	3,422,911.81	

Table E2-15C: Number of Holdings by Type of Secondary Crop and Region

Table E2-15C: Number of Holdings by Crop															
Size of Planted Area	Total Holdings	Secondary Crop													
		Maize	Paddy	Sorghum	Burush Millet	Finger Millet	Cassava	Sweet Potatoes	Beans	Pigeon Peas	Sunflower	Groundnuts	Coconuts	Cotton	Other Crops
TOTAL	3,289,231	379,554	42,689	161,422	17,873	20,374	271,411	188,047	440,944	129,411	96,712	222,177	22,217	5,688	1,985,353
Dodoma	290,176	42,738	-	17,978	6,020	3,359	-	688	6,031	11,514	17,644	33,298	-	-	210,154
Arusha	210,740	2,584	-	1,147	-	1,220	6,296	-	96,547	21,842	1,404	896	-	-	100,854
Kilimanjaro	158,798	30,515	-	-	-	3,416	2,782	615	46,464	2,748	7,261	6,507	-	-	69,398
Tanga	236,811	4,190	-	-	-	-	57,239	6,599	39,782	-	-	547	12,370	-	156,751
Morogoro	55,039	7,150	3,689	1,795	-	-	8,648	456	9,549	6,483	-	1,115	1,054	-	18,436
Pwani/D'Salaam	135,542	11,823	21,542	1,599	-	-	9,711	1,933	-	4,858	-	186	7,653	-	92,560
Lindi	142,221	47,442	3,218	14,730	-	-	14,136	237	-	29,993	360	3,707	744	-	66,037
Mtwara	148,943	45,522	7,960	35,506	-	484	23,526	-	-	24,646	-	10,739	-	-	21,469
Ruvuma	124,862	22,077	2,745	4,528	-	3,132	46,881	5,513	20,405	9,684	14,873	4,249	-	-	5,574
Iringa	263,041	587	-	1,121	-	1,039	1,074	597	102,210	1,075	50,890	3,363	-	-	172,017
Mbeya	179,185	7,573	-	3,296	-	3,965	4,042	626	20,634	3,967	995	25,390	-	-	136,854
Singida	170,175	14,572	2,318	26,379	9,615	-	-	2,028	4,181	-	833	5,774	-	-	146,138
Tabora	175,660	8,320	532	17,811	2,238	-	9,886	2,417	17,890	-	352	54,819	395	-	128,956
Rukwa	61,120	20,643	-	1,753	-	1,046	4,947	-	27,350	-	1,715	4,328	-	-	2,965
Kigoma	125,541	-	685	570	-	-	26,555	6,237	4,336	9,055	-	1,816	-	-	102,178
Shinyanga	339,082	49,467	-	19,583	-	1,182	669	3,886	13,871	3,546	-	63,073	-	5,302	324,779
Kagera	93,786	17,681	-	348	-	1,020	44,691	22,688	4,540	-	-	2,010	-	-	8,614
Mwanza	279,608	24,597	-	8,559	-	-	9,506	75,909	2,483	-	-	-	-	-	221,258
Mara	98,903	22,072	-	4,721	-	512	822	57,619	24,670	-	386	360	-	386	360

Table E2-15D: Planted Area (Hectares) by Type of Secondary Crops and Region

Region	Total Planted Area	Secondary Crop													
		Maize	Paddy	Sorghum	Burush Millet	Finger Millet	Cassava	Sweet Potatoes	Beans	Pigeon Peas	Sunflower	Groundnuts	Coconuts	Cotton	Other Crops
TOTAL	4,030,528.82	137,828.04	14,797.75	52,306.24	7,082.90	9,273.28	80,907.66	29,492.83	123,875.12	36,457.47	31,874.10	69,146.52	12,164.23	2,410.86	3,422,911.82
Dodoma	480,396.93	19,235.34	-	7,575.80	2,745.20	4,619.61	-	158.33	7,304.49	5,386.68	11,767.99	17,611.30	-	-	403,988.18
Arusha	171,688.42	310.24	-	217.96	-	528.86	544.37	-	33,957.23	8,287.55	307.04	170.16	-	-	127,365.02
Kilimanjaro	104,925.78	4,971.53	-	-	-	597.86	363.40	18.44	7,640.16	432.61	818.74	904.15	-	-	89,178.90
Tanga	175,842.99	2,880.16	-	-	-	-	13,882.23	995.62	7,060.16	-	-	43.74	5,327.57	-	145,653.52
Morogoro	14,497.52	1,929.20	699.94	682.18	-	-	1,865.09	114.09	2,426.46	1,248.05	-	206.96	168.06	-	5,157.50
Parani/D'Salaam	114,879.84	2,809.33	7,681.23	289.17	-	-	4,158.17	365.11	-	1,011.31	-	13.02	6,299.50	-	92,253.00
Lindi	144,685.91	15,032.43	1,032.68	5,289.67	-	-	5,584.12	7.11	-	8,394.02	25.20	930.49	270.38	-	108,119.82
Mtwara	70,268.64	15,715.76	1,678.00	9,761.58	-	154.75	22,056.15	-	-	6,801.68	-	2,347.40	-	-	11,552.76
Ruvuma	51,256.86	9,240.26	2,070.80	1,185.86	-	558.69	15,006.15	496.72	5,122.63	3,041.28	1,716.37	1,463.36	-	-	11,354.76
Iringa	321,869.64	332.77	-	145.68	-	135.05	204.02	95.49	27,525.08	156.43	15,796.78	995.95	-	-	276,482.39
Mbeya	454,649.03	3,258.36	-	1,098.81	-	1,460.93	1,392.75	81.39	4,303.45	416.93	150.25	6,119.67	-	-	436,366.49
Singida	334,135.10	4,835.27	1,133.65	7,680.71	3,070.97	-	-	454.61	516.59	-	455.55	2,585.43	-	-	313,402.33
Tabora	392,549.42	7,547.98	239.29	8,270.92	1,266.73	-	1,745.73	640.03	4,680.05	-	263.74	16,750.05	98.73	-	351,046.17
Rukwa	33,816.62	11,526.63	-	533.65	-	742.51	1,762.09	-	15,535.23	-	418.22	1,115.89	-	-	2,182.42
Kigoma	65,503.54	-	62.17	17.09	-	-	2,918.35	814.75	662.86	749.06	-	243.93	-	-	60,035.33
Shinyanga	795,924.00	25,070.87	-	7,712.79	-	153.65	301.12	847.22	2,045.90	531.86	-	17,537.93	-	2,167.74	739,554.91
Kagera	82,337.09	1,865.87	-	86.91	-	285.53	7,484.62	2,261.07	753.29	-	-	60.29	-	-	69,539.52
Mwanza	199,971.45	7,014.56	-	1,155.92	-	-	1,564.98	10,479.91	645.25	-	-	-	-	-	179,110.82
Mara	21,330.03	4,247.47	-	601.55	-	35.84	73.77	11,662.96	3,696.29	-	154.24	46.83	-	243.12	567.96

Table E2-06B: Total Planted Area (Hectares) by Age of Head of Household and Size of Planted Area

Size of Planted Area	Total Planted Area	Age Group of Head of Household					
		15 - 24	25 - 34	35 - 44	45 - 54	55 - 64	65+
0.01 - 0.10	196.50	-	-	102.99	-	93.51	-
0.11 - 0.20	12,057.63	460.53	2,700.21	2,821.50	2,168.47	1,877.61	2,029.31
0.21 - 0.30	61,499.65	2,892.92	15,610.48	14,607.74	13,500.43	7,939.56	6,948.52
0.31 - 0.40	49,520.15	3,514.97	10,802.85	11,901.97	9,922.47	6,471.37	6,906.52
0.41 - 0.50	242,722.65	10,226.92	63,836.24	62,293.37	46,485.53	32,258.33	27,622.26
0.51 - 0.60	1,811.02	-	-	-	149.17	163.24	1,498.61
0.61 - 0.70	92,069.75	5,915.10	24,289.98	18,738.78	18,226.08	14,439.10	10,460.71
0.71 - 0.80	276,664.34	11,606.52	74,811.97	72,468.37	52,577.20	36,812.27	28,388.01
0.81 - 0.90	112,685.89	3,429.04	29,649.23	32,145.02	20,747.45	14,289.87	12,425.28
0.91 - 1.00	473,077.21	32,955.71	108,308.39	114,823.90	97,624.63	71,549.23	47,815.35
1.01 - 1.50	1,128,230.73	56,810.07	277,798.57	311,009.90	216,729.97	145,911.94	119,970.28
1.51 - 2.00	986,520.30	43,321.73	232,084.64	279,693.39	212,055.88	116,437.26	102,927.40
2.01 - 5.00	2,939,497.89	59,032.36	619,344.16	832,937.25	694,815.80	442,263.94	291,104.38
5.01 +	1,317,991.15	21,958.12	154,572.19	301,248.16	396,973.95	287,012.05	156,226.68
Total	7,694,544.86	252,123.99	1,613,808.91	2,054,792.34	1,781,977.03	1,177,519.28	814,323.31

Note: This Table Excludes Holdings Without Planted Area

Table E2-06C: Total Planted Area (Hectares) by Age of Head of Household and Region

Region	Total Planted Area	Age Group of Head of Household					
		15 - 24	25 - 34	35 - 44	45 - 54	55 - 64	65+
Dodoma	729,604.38	26,656.36	170,137.22	253,248.73	170,092.70	69,393.66	40,075.71
Arusha	317,579.40	4,819.04	67,251.33	104,379.17	77,734.74	27,172.56	36,222.56
Kilimanjaro	209,778.96	1,672.15	30,181.44	44,859.22	56,685.65	36,933.96	39,446.54
Tanga	286,881.55	10,753.37	46,983.45	70,163.03	67,326.63	52,282.52	39,372.55
Morogoro	308,493.31	18,296.12	86,370.52	71,230.28	62,922.54	39,236.16	30,437.69
Pwani/D'Salaam	217,888.84	3,882.87	40,448.53	40,691.42	50,619.31	37,456.53	44,790.18
Lindi	265,848.68	8,520.03	49,652.02	69,415.23	65,940.51	40,007.17	32,313.72
Mtwara	393,841.55	12,803.55	76,368.86	79,449.96	86,774.69	92,904.39	45,540.10
Ruvuma	530,964.04	34,000.82	132,065.29	150,668.03	116,343.80	64,343.97	33,542.13
Iringa	502,851.04	12,102.16	124,532.68	129,994.47	113,882.53	74,853.42	47,485.78
Mbeya	544,079.37	18,392.90	120,886.92	114,967.25	102,104.92	144,108.46	43,618.92
Singida	402,301.26	13,938.17	90,545.84	122,861.50	79,112.90	54,736.42	41,106.43
Tabora	515,128.23	17,953.29	93,042.84	130,085.62	132,725.33	83,784.93	57,536.22
Rukwa	321,882.65	18,235.74	65,331.79	103,234.79	93,157.22	26,116.77	15,806.34
Kigoma	89,353.32	2,545.97	17,039.67	25,090.06	22,221.98	13,294.67	9,160.97
Shinyanga	1,029,631.20	6,459.50	180,552.59	261,271.57	263,674.86	169,403.80	148,268.88
Kagera	510,687.01	16,148.90	100,019.66	141,971.29	110,732.04	87,376.33	54,438.79
Mwanza	262,380.00	7,019.98	63,019.87	69,733.36	55,790.25	39,281.83	27,534.71
Mara	255,370.05	17,923.05	59,378.39	71,477.37	54,134.42	24,831.72	27,625.10
Total	7,694,544.84	252,123.97	1,613,808.91	2,054,792.35	1,781,977.02	1,177,519.27	814,323.32

Note: This Table Excludes Holdings Without Planted Area

Table E2-06j: Total Heads of Households by Age and Size of Planted Area

Size of Planted Area	Total Head of Households	Age Group of Head of Household					
		15 - 24	25 - 34	35 - 44	45 - 54	55 - 64	65+
0.01 - 0.10	2,308			1,373		935	
0.11 - 0.20	92,086	3,543	20,600	21,704	16,681	14,221	15,337
0.21 - 0.30	245,833	11,572	62,422	58,192	54,002	31,851	27,794
0.31 - 0.40	130,670	9,250	28,476	31,388	26,112	17,170	18,274
0.41 - 0.50	485,960	20,454	127,844	124,680	93,220	64,517	55,245
0.51 - 0.60	3,213				281	281	2,651
0.61 - 0.70	146,092	9,389	38,556	29,725	28,930	22,919	16,573
0.71 - 0.80	368,909	15,484	99,764	96,624	70,103	49,083	37,851
0.81 - 0.90	128,214	3,897	33,718	36,514	23,570	16,422	14,093
0.91 - 1.00	473,223	32,956	108,328	114,824	97,637	71,633	47,845
1.01 - 1.50	835,381	41,776	206,571	229,957	160,854	107,779	88,444
1.51 - 2.00	533,172	24,042	124,794	151,657	114,297	62,287	56,095
2.01 - 5.00	963,612	19,502	210,822	271,588	226,492	145,172	90,036
5.01 +	159,427	3,052	19,658	37,679	52,481	27,290	19,267
Total	4,568,100	194,917	1,081,553	1,205,905	964,660	631,560	489,505

Table E2-06K : Total Heads of Households by Age and Region

Region	Total Head of Households	Age Group of Head of Household					
		15 - 24	25 - 34	35 - 44	45 - 54	55 - 64	65+
Dodoma	314,055	14,798	83,746	96,031	67,717	33,281	18,482
Arusha	248,496	5,999	55,528	94,068	52,838	23,048	17,015
Kilimanjaro	226,801	2,732	35,761	47,540	59,698	39,234	41,836
Tanga	262,909	12,043	55,000	56,743	61,312	43,569	34,242
Morogoro	261,808	15,210	78,044	68,188	50,878	25,312	24,176
Pwani/D'Salaam	150,265	4,228	29,563	32,712	29,660	26,688	27,414
Lindi	157,784	8,811	36,260	41,662	36,422	22,710	11,919
Mtwara	217,033	14,284	52,395	47,740	44,704	34,361	23,549
Ruvuma	216,265	17,641	64,506	54,646	41,825	23,573	14,074
Iringa	303,982	10,760	80,985	82,396	65,100	37,482	27,259
Mbeya	318,814	17,595	79,862	79,405	54,249	58,084	29,619
Singida	200,363	6,147	48,453	48,174	41,884	28,548	27,157
Tabora	207,628	8,867	44,688	54,110	42,021	33,658	24,284
Rukwa	146,765	12,775	35,814	45,353	29,136	12,060	11,627
Kigoma	144,017	4,677	34,526	38,961	32,411	21,091	12,351
Shinyanga	364,402	5,315	74,676	95,560	87,250	51,035	50,566
Kagera	337,985	14,770	72,830	88,074	67,248	54,398	40,665
Mwanza	294,030	10,389	72,917	79,620	60,105	39,862	31,137
Mara	194,697	7,875	45,998	54,926	40,202	23,565	22,131
Total	4,568,099	194,916	1,081,552	1,205,909	964,660	631,559	489,503

Table E2-06L: Number of Head of Households by Sex and Size of Planted Area

Size of Planted Area	Total Heads of Households	Sex of Head of Household	
		Male	Female
0.01 - 0.10	2,308	935	1,373
0.11 - 0.20	92,086	62,481	29,605
0.21 - 0.30	245,832	188,945	56,887
0.31 - 0.40	130,670	97,627	33,043
0.41 - 0.50	485,959	353,778	132,181
0.51 - 0.60	3,213	2,320	893
0.61 - 0.70	146,092	110,456	35,636
0.71 - 0.80	368,910	272,058	96,852
0.81 - 0.90	128,213	98,052	30,161
0.91 - 1.00	473,222	352,658	120,564
1.01 - 1.50	835,381	696,014	139,367
1.51 - 2.00	533,171	453,039	80,132
2.01 - 5.00	963,613	863,878	99,735
5.01 +	159,427	147,353	12,074
Total	4,568,097	3,699,594	868,503

Note: This Table Excludes Holdings Without Planted Area

Table E2-06M: Number of Head of Households by Sex and Region

Region	Total Head of Households	Sex of Head of Household	
		Male	Female
Dodoma	314,055	234,057	79,998
Arusha	248,497	208,546	39,951
Kilimanjaro	226,801	193,289	33,512
Tanga	262,910	199,559	63,351
Morogoro	261,807	216,532	45,275
Pwani/D'Salaam	150,264	118,137	32,127
Lindi	157,783	111,617	46,166
Mtwara	217,033	169,257	47,776
Ruvuma	216,266	193,242	23,024
Iringa	303,981	220,683	83,298
Mbeya	318,813	249,237	69,576
Singida	200,363	157,641	42,722
Tabora	207,628	175,124	32,504
Rukwa	146,765	132,758	14,007
Kigoma	144,017	121,087	22,930
Shinyanga	364,402	312,117	52,285
Kagera	337,985	278,675	59,310
Mwanza	294,030	260,497	33,533
Mara	194,697	147,539	47,158
Total	4,568,097	3,699,594	868,503

Table E2-06N Planted Area and Average Planted Area (Hectares)
by Region

Region	Total Number of Households	Planted Area	Average Per Household
Dodoma	314,055	729,404.38	2.32
Arusha	248,497	317,579.39	1.28
Kilimanjaro	226,801	209,778.96	.92
Tanga	262,910	286,881.55	1.09
Morogoro	261,807	308,493.30	1.18
Pwani/D'Salaam	150,264	217,888.83	1.45
Lindi	157,783	265,848.68	1.68
Mtwara	217,033	393,841.56	1.81
Ruvuma	216,266	530,964.04	2.46
Iringa	303,982	502,851.04	1.65
Mbeya	318,813	544,079.36	1.71
Singida	200,363	402,301.27	2.01
Tabora	207,628	515,128.24	2.48
Rukwa	146,764	321,882.65	2.19
Kigoma	144,017	89,353.32	.62
Shinyanga	364,401	1,029,631.20	2.83
Kagera	337,985	510,687.01	1.51
Mwanza	294,030	262,380.01	.89
Mara	194,697	255,370.04	1.31
Total	4,568,096	7,694,544.83	31.39

Table E2-06O: Planted Area and Average Planted Area (Hectares)
by Age of Head of Household

Age of Head Household	Total Number of Households	Planted Area	Average Per Household
15 - 24 Years	194,915	252,123.98	1.29
25 - 34 Years	1,081,553	1,613,808.91	1.49
35 - 44 Years	1,205,906	2,054,792.35	1.70
45 - 54 Years	964,659	1,781,977.01	1.85
55 - 64 Years	631,559	1,177,519.27	1.86
65 + Years	489,504	814,323.30	1.66
Total	4,568,096	7,694,544.82	1.68

Table E2-06P : Planted Area and Average Planted Area (Hectares)
by Sex of Head of Household

Sex of Head of Household	Total Number of Households	Planted Area	Average Per Household
Male	3,699,593	6,642,182.44	1.80
Female	868,504	1,052,362.37	1.21
Total	4,568,097	7,694,544.81	1.68

Table E4-09A: Number and Percentage of Maize Growing Holdings,
Planted Area (Hectares), Production (Tonnes) by Region

Region	Holdings		Area Planted		Production	
	Number	%	Hectares	%	Tonnes	%
Dodoma	275,926	7.07	322,283.46	11.65	135,889	6.92
Arusha	265,065	6.79	210,566.68	7.61	246,477	12.55
Kilimanjaro	188,102	4.82	73,472.54	2.66	47,704	2.43
Tanga	246,176	6.31	135,779.94	4.91	71,817	3.66
Morogoro	175,668	4.50	161,409.60	5.84	108,707	5.54
Pwani/D'Salaam	80,370	2.06	45,291.75	1.64	7,633	.39
Lindi	122,503	3.14	59,247.40	2.14	26,372	1.34
Mtwara	137,348	3.62	73,878.54	2.67	39,942	2.03
Ruvuma	274,494	7.04	203,479.98	7.36	157,638	8.03
Iringa	498,959	12.79	343,104.19	12.41	247,037	12.58
Mbeya	364,899	9.35	199,999.82	7.23	174,017	8.86
Singida	155,044	3.97	114,355.07	4.13	51,094	2.60
Tabora	298,714	7.66	242,268.81	8.76	98,307	5.01
Rukwa	133,281	3.42	134,873.67	4.88	70,315	3.58
Kigoma	1,509	.04	377.28	.01	653	.03
Shinyanga	442,894	11.35	362,271.84	13.10	216,953	11.05
Kagera	45,937	1.18	7,831.99	.28	199,857	10.18
Mwanza	65,099	1.67	19,996.38	.72	20,390	1.04
Mara	129,148	3.31	55,052.11	1.99	43,110	2.20
Total	3,901,136	100.00	2,765,541.05	100.00	1,966,912	100.00

Table E4-09B: Number and Percentage of Paddy Growing Holdings,
Planted Area (Hectares), Production (Tonnes) by Region

Region	Holdings		Area Planted		Production	
	Number	%	Hectares	%	Tonnes	%
Dodoma	1,715	.17	583.31	.10	1,234	.22
Arusha	529	.05	264.27	.04	3,104	.55
Kilimanjaro	14,973	1.52	9,023.72	1.50	16,126	2.85
Tanga	22,861	2.33	7,307.23	1.21	5,110	.90
Morogoro	147,295	14.98	102,676.96	17.03	41,233	7.30
Pwani/D'Salaam	91,014	9.26	45,611.71	7.57	11,555	2.04
Lindi	42,624	4.33	22,071.51	3.66	11,853	2.10
Mtwara	51,105	5.20	25,174.41	4.18	17,603	3.11
Ruvuma	53,607	5.45	25,075.69	4.16	54,606	9.66
Iringa	519	.05	129.86	.02	1,039	.18
Mbeya	76,083	7.74	45,899.52	7.61	49,825	8.82
Singida	25,437	2.59	10,695.87	1.77	4,936	.87
Tabora	85,379	8.68	58,976.60	9.78	46,601	8.25
Rukwa	5,697	.58	4,191.60	.70	3,642	.64
Kigoma	7,411	.75	2,690.88	.45	1,856	.33
Shinyanga	179,795	18.29	157,846.15	26.18	182,660	32.32
Kagera	9,534	.97	5,232.38	.87	7,116	1.26
Mwanza	139,901	14.23	67,088.67	11.13	91,344	16.16
Mara	27,777	2.83	12,356.16	2.05	13,719	2.43
Total	983,256	100.00	602,896.50	100.00	565,162	100.00

Table E4-09C: Number and Percentage of Sorghum Growing Holdings,
Planted Area (Hectares), Production (Tonnes) by Region

Region	Holdings		Area Planted		Production	
	Number	%	Hectares	%	Tonnes	%
Dodoma	136,666	14.58	131,715.32	20.58	45,123	7.38
Arusha	9,602	1.02	5,702.65	.89	17,176	2.81
Kilimanjaro	659	.07	164.73	.03	-	-
Tanga	-	-	-	-	-	-
Morogoro	10,314	1.10	5,504.16	.86	15,802	2.58
Pwani/D'Salaam	7,641	.81	2,920.61	.46	847	.14
Lindi	93,643	9.99	62,863.16	9.82	23,532	3.85
Mtwara	70,383	7.51	25,357.78	3.96	20,293	3.32
Ruvuma	7,352	.78	4,358.80	.68	877	.14
Iringa	12,436	1.33	7,370.26	1.15	2,010	.33
Mbeya	9,394	1.00	7,010.99	1.10	12,096	1.98
Singida	144,684	15.43	104,903.24	16.39	16,231	2.65
Tabora	48,250	5.15	43,481.93	6.79	19,870	3.25
Rukwa	5,955	.64	5,235.36	.82	3,828	.63
Kigoma	22,083	2.36	5,167.56	.81	1,183	.19
Shinyanga	133,284	14.21	139,164.57	21.74	36,452	5.96
Kagera	69,345	7.40	25,314.51	3.95	345,093	56.41
Mwanza	36,691	3.91	10,550.42	1.65	11,927	1.95
Mara	119,282	12.72	53,303.60	8.33	39,460	6.45
Total	937,664	100.00	640,089.65	100.00	611,800	100.00

Table E4-09D: Number and Percentage of Bulrush Millet Growing Holdings,
Planted Area (Hectares), Production (Tonnes) by Region

Region	Holdings		Area Planted		Production	
	Number	%	Hectares	%	Tonnes	%
Dodoma	144,514	49.67	135,885.28	48.45	8,361	20.35
Arusha	-	-	-	-	-	-
Kilimanjaro	-	-	-	-	-	-
Tanga	-	-	-	-	-	-
Morogoro	-	-	-	-	-	-
Pwani/D'Salaam	-	-	-	-	-	-
Lindi	-	-	-	-	-	-
Mtwara	-	-	-	-	-	-
Ruvuma	-	-	-	-	-	-
Iringa	-	-	-	-	-	-
Mbeya	-	-	-	-	-	-
Singida	94,329	32.42	71,201.39	25.39	4,926	11.99
Tabora	7,906	2.72	9,925.48	3.54	5,362	13.05
Rukwa	-	-	-	-	-	-
Kigoma	900	.31	157.57	.06	-	-
Shinyanga	21,483	7.38	46,513.13	16.59	8,570	20.85
Kagera	348	.12	695.26	.25	-	-
Mwanza	19,822	6.81	15,760.99	5.62	13,006	31.65
Mara	1,650	.57	308.30	.11	869	2.11
Total	290,952	100.00	280,447.40	100.00	41,094	100.00

Table E4-09E: Number and Percentage of Beans Growing Holdings,
Planted Area (Hectares), Production (Tonnes) by Region

Region	Holdings		Area Planted		Production	
	Number	%	Hectares	%	Tonnes	%
Dodoma	13,581	1.01	19,691.40	3.98	11,224	1.04
Arusha	144,712	10.80	49,306.72	9.96	131,061	12.11
Kilimanjaro	92,566	6.91	20,160.29	4.07	21,395	1.98
Tanga	134,653	10.04	41,235.61	8.33	12,189	1.13
Morogoro	35,282	2.63	14,526.18	2.93	31,619	2.92
Pwani/D'Salaam	-	-	-	-	-	-
Lindi	-	-	-	-	-	-
Mtwara	-	-	-	-	-	-
Ruvuma	12,466	4.66	21,639.01	4.37	62,267	5.76
Iringa	12,89	12.89	42,399.48	8.56	123,116	11.38
Mbeya	-	-	117,377.03	23.70	115,697	10.69
Singida	-	-	916.52	1.0	1,390	.13
Tabora	-	-	9,006.74	1.82	10,383	.96
Rukwa	-	-	65,023.33	13.13	53,956	4.98
Kigoma	11,222	9.57	34,319.90	6.93	14,298	1.32
Shinyanga	15,053	1.12	2,045.90	.41	7,746	.72
Kagera	145,138	10.83	48,009.70	9.70	464,875	42.97
Mwanza	6,817	.51	2,176.84	.44	854	.08
Mara	38,844	2.90	7,737.82	1.56	19,918	1.84
Total	1,340,517	100.00	495,170.54	100.00	1,081,938	100.00

Table E4-12A: Male Headed Maize Growing Holdings, Planted Area (Hectares),
Reported Production (Tonnes) and Average Yield by Region

Region	Number of Holdings	Area Planted (Hectares)	Production (Tonnes)	Average Yield Rate (Kgs/Ha)
Dodoma	212,141	296,938.40	123,523	416
Arusha	229,912	180,750.06	210,234	1,163
Kilimanjaro	165,604	68,532.24	42,482	620
Tanga	194,376	114,477.45	65,006	568
Morogoro	144,456	135,965.62	91,128	670
Pwani/D'Salaam	67,009	40,944.11	6,903	169
Lindi	90,816	58,225.77	23,757	408
Mtwara	108,264	75,712.93	34,958	462
Ruvuma	246,531	194,454.98	146,331	753
Iringa	369,257	262,444.61	200,327	763
Mbeya	289,091	176,486.66	143,865	815
Singida	126,842	104,133.44	47,325	454
Tabora	253,355	225,528.62	91,911	408
Rukwa	123,056	137,477.64	66,386	483
Kigoma	940	234.88	653	2,780
Shinyanga	376,710	338,929.18	195,981	578
Kagera	36,451	7,394.11	121,936	16,491
Mwanza	55,234	23,873.05	19,557	819
Mara	100,760	48,920.71	37,944	776
Total	3,190,805	2,491,424.46	1,670,207	670

Table E4-12B: Female Headed Maize Growing Holdings, Planted Area (Hectares),
Reported Production and Average Yield by Region

Region	Number of Holdings	Area Planted	Production (Tonnes)	Average Yield Rate (Kgs/Ha)
Dodoma	63,785	44,365.81	12,366	279
Arusha	35,152	30,111.89	36,243	1,204
Kilimanjaro	22,499	9,583.48	5,223	545
Tanga	51,800	24,161.81	6,811	282
Morogoro	31,212	27,326.83	17,579	643
Pwani/D'Salaam	13,361	7,086.67	730	103
Lindi	31,687	15,809.91	2,615	165
Mtwara	29,084	13,820.93	4,984	361
Ruvuma	27,963	18,157.88	11,306	623
Iringa	129,702	81,236.42	46,710	575
Mbeya	75,808	26,599.05	30,152	1,134
Singida	28,203	14,952.62	3,769	252
Tabora	45,359	24,178.00	6,396	265
Rukwa	10,225	8,893.42	3,929	442
Kigoma	570	142.41	-	-
Shinyanga	66,184	48,021.48	20,971	437
Kagera	9,486	2,169.91	77,921	35,910
Mwanza	9,865	2,954.19	833	282
Mara	28,387	10,190.60	5,167	507
Total	710,332	409,763.31	293,705	717

Table E4-13A: Male Headed Paddy Growing Holdings, Planted Area (Hectares),
Reported Production and Average Yield by Region

Region	Number of Holdings	Area Planted (Hectares)	Production (Tonnes)	Average Yield Rate (Kgs/Ha)
Dodoma	974	486.92	1,234	2,534
Arusha	-	-	3,104	-
Kilimanjaro	11,982	7,636.59	14,422	1,889
Tanga	10,220	3,395.39	3,169	933
Morogoro	128,701	94,331.71	35,283	374
Pwani/D'Salaam	69,491	41,205.69	9,449	229
Lindi	30,931	18,460.99	10,163	551
Mtwara	40,931	22,208.64	15,715	708
Ruvuma	45,545	24,063.19	51,655	2,147
Iringa	519	129.86	1,039	8,001
Mbeya	64,237	41,184.40	41,981	1,019
Singida	23,558	11,031.98	4,936	447
Tabora	72,442	53,868.22	43,466	807
Rukwa	5,697	4,191.60	3,642	869
Kigoma	6,175	2,431.53	1,856	763
Shinyanga	151,188	142,332.23	165,600	1,163
Kagera	8,216	5,002.80	6,146	1,229
Mwanza	130,652	64,602.64	88,220	1,366
Mara	24,879	11,023.77	11,711	1,062
Total	826,338	547,588.15	512,791	936

Table E4-13B: Female Headed Paddy Growing Holdings, Planted Area (Hectares)
Reported Production and Average Yield by Region

Region	Number of Holdings	Area Planted (Hectares)	Production (Tonnes)	Average Yield Rate (Kgs/Ha)
Dodoma	742	96.40	-	-
Arusha	529	264.27	-	-
Kilimanjaro	2,991	1,387.14	1,704	1,228
Tanga	12,641	3,911.84	1,941	496
Morogoro	18,594	9,029.10	5,950	659
Pwani/D'Salaam	21,523	12,001.15	2,106	175
Lindi	11,694	4,619.14	1,690	366
Mtwara	10,174	4,801.58	1,888	393
Ruvuma	8,062	3,053.01	2,950	966
Iringa	-	-	-	-
Mbeya	11,845	4,715.12	7,844	1,664
Singida	1,879	788.27	-	-
Tabora	12,937	5,347.67	3,135	586
Rukwa	-	-	-	-
Kigoma	1,236	314.68	-	-
Shinyanga	28,607	15,513.92	17,061	1,100
Kagera	1,318	229.57	970	4,225
Mwanza	9,250	2,486.04	3,124	1,257
Mara	2,898	1,332.39	2,008	1,507
Total	156,920	69,891.29	52,371	749

Table E4-14A: Male Headed Sorghum Growing Holdings, Planted Area (Hectares)
Reported Production and Average Yield by Region

Region	Number of Holdings	Area Planted (Hectares)	Production (Tonnes)	Average Yield Rate (Kgs/Ha)
Dodoma	102,584	110,174.38	39,619	360
Arusha	7,488	4,329.25	15,062	3,479
Kilimanjaro	659	164.73	-	-
Tanga	-	-	-	-
Morogoro	6,754	4,420.22	10,921	2,471
Pwani/D'Salaam	6,312	2,831.81	847	299
Lindi	65,593	52,251.14	21,268	407
Mtwara	59,217	30,522.88	18,163	595
Ruvuma	4,228	2,386.07	877	368
Iringa	10,675	6,036.98	2,010	333
Mbeya	9,394	8,084.48	11,622	1,438
Singida	115,709	93,988.75	16,231	173
Tabora	40,528	46,696.12	17,058	365
Rukwa	5,470	5,324.40	3,828	719
Kigoma	19,630	4,793.73	1,183	247
Shinyanga	115,520	131,974.32	32,943	250
Kagera	55,298	19,578.48	258,845	13,221
Mwanza	30,346	10,481.10	11,927	1,138
Mara	93,753	44,193.90	29,212	661
Total	749,158	578,232.74	491,616	850

Table E4-14B: Female Headed Sorghum Growing Holdings, Planted Area (Hectares), Reported Production and Average Yield by Region

Region	Number of Holdings	Area Planted (Hectares)	Production (Tonnes)	Average Yield Rate (Kgs/Ha)
Dodoma	34,081	29,029.12	5,504	190
Arusha	2,114	1,585.62	2,114	1,333
Kilimanjaro	-	-	-	-
Tanga	-	-	-	-
Morogoro	3,561	1,748.17	4,881	2,792
Pwani/D'Salaam	1,329	375.22	-	-
Lindi	28,051	15,834.54	2,263	143
Mtwara	11,166	4,378.94	2,129	486
Ruvuma	3,123	3,136.90	-	-
Iringa	1,761	1,467.75	-	-
Mbeya	-	-	474	-
Singida	28,975	18,446.33	-	-
Tabora	7,723	4,988.75	2,812	564
Rukwa	485	436.79	-	-
Kigoma	2,452	390.91	-	-
Shinyanga	17,764	14,776.35	3,510	238
Kagera	14,047	5,822.93	86,248	14,812
Mwanza	6,346	1,149.77	-	-
Mara	25,529	9,648.49	10,248	1,062
Total	188,507	113,216.58	120,183	1,062

Table E4-15A: Male Headed Bulrush Millet Growing Holdings, Planted Area (Hectares), Reported Production and Average Yield by Region

Region	Number of Holdings	Area Planted (Hectares)	Production (Tonnes)	Average Yield Rate (Kgs/Ha)
Dodoma	94,200	102,700.18	7,130	69
Arusha	-	-	-	-
Kilimanjaro	-	-	-	-
Tanga	-	-	-	-
Morogoro	-	-	-	-
Pwani/D'Salaam	-	-	-	-
Lindi	-	-	-	-
Mtwara	-	-	-	-
Ruvuma	-	-	-	-
Iringa	-	-	-	-
Mbeya	-	-	-	-
Singida	73,138	62,816.01	4,926	78
Tabora	7,906	11,192.20	5,362	479
Rukwa	-	-	-	-
Kigoma	-	-	-	-
Shinyanga	19,999	44,679.85	8,570	192
Kagera	348	695.26	-	-
Mwanza	19,822	15,760.99	13,006	825
Mara	1,650	308.30	869	2,819
Total	217,063	238,152.79	39,863	167

Table E4-15B: Female Headed Bulrush Millet Growing Holdings, Planted Area (Hectares), Reported Production and Average Yield by Region

Region	Number of Holdings	Area Planted (Hectares)	Production (Tonnes)	Average Yield Rate (Kg/Ha)
Dodoma	50,314	36,097.79	1,231	34
Arusha	-	-	-	-
Kilimanjaro	-	-	-	-
Tanga	-	-	-	-
Morogoro	-	-	-	-
Pwani/D'Salaam	-	-	-	-
Lindi	-	-	-	-
Mtwara	-	-	-	-
Ruvuma	-	-	-	-
Iringa	-	-	-	-
Mbeya	-	-	-	-
Singida	21,191	-	-	-
Tabora	-	-	-	-
Rukwa	-	-	-	-
Kigoma	900	157.57	-	-
Shinyanga	1,484	1,833.27	-	-
Kagera	-	-	-	-
Mwanza	-	-	-	-
Mara	-	-	-	-
Total	73,889	49,506.34	1,231	25

Table E4-16A: Male Headed Bean Growing Holdings, Planted Area (Hectares), Reported Production and Average Yield by Region

Region	Number of Holdings	Area Planted (Hectares)	Production (Tonnes)	Average Yield Rate (Kg/Ha)
Dodoma	11,942	26,304.46	11,224	427
Arusha	120,577	68,756.86	108,051	1,571
Kilimanjaro	79,239	24,330.00	20,255	833
Tanga	101,554	36,805.81	10,948	297
Morogoro	30,572	15,091.69	29,462	1,952
Pwani/D'Salaam	-	-	-	-
Lindi	-	-	-	-
Mtwara	-	-	-	-
Ruvuma	57,791	25,107.30	58,476	2,329
Iringa	130,561	51,504.77	100,517	1,952
Mbeya	163,717	108,155.76	81,296	752
Singida	3,416	638.87	1,390	2,176
Tabora	24,499	12,566.40	9,432	751
Rukwa	81,590	66,452.53	50,242	756
Kigoma	107,354	30,013.22	14,298	476
Shinyanga	8,714	3,292.02	7,746	2,353
Kagera	122,661	42,244.73	377,137	8,927
Mwanza	5,103	2,268.51	854	376
Mara	34,450	9,202.10	18,500	1,873
Total	1,080,760	623,151.13	899,910	1,719

Table E4-16B: Female Headed Bean Growing Holdings, Planted Area (Hectares).
Reported Production and Average Yield by Region

Region	Number of Holdings	Area Planted (Hectares)	Production (Tonnes)	Average Yield Rate (Kgs/Ha)
Dodoma	1,639	665.31	-	-
Arusha	24,135	13,893.36	23,010	1,656
Kilimanjaro	13,327	3,100.06	1,140	368
Tanga	33,099	11,291.08	1,241	110
Morogoro	4,710	1,796.82	2,157	1,200
Pwani/D'Salaam	-	-	-	-
Lindi	-	-	-	-
Mtwara	-	-	-	-
Ruvuma	4,675	1,544.63	3,791	2,454
Iringa	42,222	17,817.78	22,599	1,268
Mbeya	62,879	13,373.36	34,401	2,572
Singida	765	382.74	-	-
Tabora	3,308	1,069.81	951	889
Rukwa	10,227	14,029.00	3,664	261
Kigoma	20,868	4,933.03	-	-
Shinyanga	6,339	755.76	-	-
Kagera	22,477	6,478.78	87,738	13,542
Mwanza	1,714	545.43	-	-
Mara	4,384	1,373.28	1,337	974
Total	256,768	93,050.22	182,029	1,956

Table E5-01 : Number of Holdings reporting reason for no harvest by Region

Region	Reason for no Harvest					Total Number of Households
	Drought	Floods	Animal Destruction	Pests/Birds Destruction	Others	
Dodoma	-	9,731	-	27,414	2,474	39,619
Arusha	-	15,697	-	-	4,552	20,249
Kilimanjaro	73	7,980	1,755	3,589	10,437	23,834
Tanga	5,774	2,630	10,229	815	5,257	24,705
Morogoro	1,009	31,372	2,184	667	13,427	48,659
Pwani/D'Salaam	6,691	27,765	2,339	-	6,595	43,390
Lindi	-	2,598	229	-	351	3,178
Mtwara	-	5,453	392	-	919	6,764
Ruvuma	-	348	-	-	942	1,290
Iringa	-	3,314	806	-	1,329	5,449
Mbeya	-	4,624	-	-	17,207	21,831
Singida	-	7,634	-	5,544	-	13,178
Tabora	-	7,080	-	500	2,233	9,813
Rukwa	-	9,929	-	317	2,981	13,227
Kigoma	182	29,047	1,546	825	4,343	35,943
Shinyanga	4,778	4,056	-	13,027	-	21,861
Kagera	967	10,187	844	-	1,692	13,690
Mwanza	941	11,354	914	-	26,077	39,286
Mara	-	1,892	445	1,071	3,398	6,806
TOTAL	20,415	192,691	21,683	53,769	104,214	392,772

Table E5-02 : Total Number of that Reported the Use of Fertilizers by Region

Region	Type of Fertilizer					Total Number of Households
	Chemical	Manure	Compost	Chemical & Manure	Others	
Dodoma	-	102,023	483	-	-	102,506
Arusha	6,109	104,266	3,610	948	-	114,933
Kilimanjaro	47,748	87,683	433	27,686	-	163,550
Tanga	4,289	48,617	922	3,589	-	57,417
Mororogo	9,543	3,238	13,856	566	-	27,203
Pwani/D'Salaam	6,466	8,388	6,598	277	-	21,729
Lindi	627	550	-	336	-	1,513
Mtwara	3,451	5,116	737	1,078	-	10,382
Ruvuma	94,631	11,567	-	18,954	-	125,152
Iringa	115,692	40,847	2,580	29,912	-	189,031
Mbeya	75,136	43,542	2,298	37,617	-	158,593
Singida	740	94,645	1,574	-	511	97,470
Tabora	61,136	41,314	459	4,999	-	107,908
Rukwa	25,802	10,857	-	935	-	37,594
Kigoma	5,678	25,293	655	1,090	-	32,716
Shinyanga	13,922	54,461	-	4,735	1,040	74,158
Kagera	506	51,996	49,587	458	1,026	103,573
Mwanza	5,417	90,810	-	3,775	-	100,002
Mara	1,194	52,782	833	983	-	55,792
TOTAL	478,087	877,995	84,625	137,938	2,577	1,581,222

Table E5-03 : Number of Holdings Reporting Reason for Not Using Fertilizers by Region

Region	Reason for Not Using Fertilizers					Total Number of Holdings
	Too Expensive	Do not Know How to Use	Destroys Soil Fertility	Not Available	Others	
Dodoma	66,387	7,238	9,366	100,276	27,875	211,142
Arusha	65,746	5,356	6,682	45,760	12,697	136,241
Kilimanjaro	40,044	578	5,351	5,894	14,206	66,073
Tanga	68,815	37,411	3,049	52,763	44,877	206,915
Mororogo	86,068	6,985	41,749	61,806	47,384	243,992
Pwani/D'Salaam	57,721	7,051	11,263	33,527	23,211	132,773
Lindi	38,696	22,406	9,297	69,462	16,409	156,270
Mtwara	109,132	11,196	2,162	72,436	12,178	207,104
Ruvuma	59,827	436	4,360	13,406	10,797	88,826
Iringa	76,517	3,538	10,283	8,824	15,789	114,951
Mbeya	91,563	11,674	41,423	21,061	9,622	175,343
Singida	11,812	4,770	11,210	57,051	16,658	101,501
Tabora	39,292	1,124	2,318	34,984	17,803	95,521
Rukwa	52,609	1,260	8,232	30,800	16,268	109,169
Kigoma	67,680	2,102	4,023	64,000	4,107	141,912
Shinyanga	89,907	33,659	816	153,916	9,820	288,118
Kagera	61,730	8,423	17,183	130,088	27,077	244,501
Mwanza	103,769	5,568	7,734	115,279	22,576	254,926
Mara	31,041	20,481	4,117	47,257	37,549	140,445
TOTAL	1,218,356	191,256	200,618	1,118,590	386,903	3,115,723

Table E5-04 : Total Number of Households that Reported the Use of Fertilizers by Amount of Fertilizers and Region

Region	Use of Chemical Fertilizers	
	Number of Holdings	Amount (Kgs)
Dodoma	-	-
Arusha	6,609	44,151
Kilimanjaro	73,976	430,501
Tanga	7,332	30,572
Mororogo	9,543	101,907
Pwani/D'Salaam	6,742	11,553
Lindi	963	1,926
Mtwara	4,049	17,860
Ruvuma	111,959	2,560,985
Iringa	141,316	1,873,281
Mbeya	112,753	1,544,818
Singida	740	11,039
Tabora	66,135	1,382,893
Rukwa	26,737	538,001
Kigoma	6,768	132,636
Shinyanga	17,795	402,700
Kagera	964	458
Mwanza	8,166	15,915
Mara	2,178	14,932
TOTAL	604,725	9,116,128

Table E5-05A: Number of Holdings Reporting Different Methods of Planting Crops by Type of Crop

Method of Planting	Type of Crop						
	Maize	Paddy	Sorghum	Bur lush Millet	Finger Millet	Wheat	Beans
Broadcast	253,596	456,792	406,510	51,564	182,407	49,808	268,797
Row Planter	22,094	1,625	2,370	1,907	1,092	442	6,065
Row Plant By Hand	2,534,335	345,872	360,568	188,018	9,640	5,756	684,287
Others	413,135	162,953	106,166	14,768	2,225	-	297,618
Total	3 223,160	967,242	875,614	256,257	195,364	56,006	1,256,767

Table E5-05B : Number of Holdings Reporting Different Methods of Planting Crops by Region

Region	Method of Planting				Total Number of Households
	Broadcast	Row Planter	Row Plant by Hand	Others	
Dodoma	10,735	3,672	405,813	57,832	478,052
Arusha	41,132	19,645	219,838	82,322	362,937
Kilimanjaro	58,115	-	233,289	22,500	313,904
Tanga	15,097	-	198,822	126,719	340,638
Mororogo	109,877	-	202,668	27,184	339,729
Pwani/D' Salaam	28,299	1,161	107,045	28,418	164,923
Lindi	17,306	313	120,725	96,684	235,028
Mtwara	45,802	1,615	167,507	59,045	273,969
Ruvuma	116,626	2,321	213,163	43,532	375,642
Iringa	99,744	741	321,314	47,062	468,861
Mbeya	108,279	896	253,441	144,914	507,530
Singida	47,344	-	295,912	16,276	359,532
Tabora	71,863	-	247,317	25,630	344,810
Rukwa	55,700	291	147,433	18,794	222,218
Kigoma	91,816	-	144,443	21,090	257,349
Shinyanga	323,804	1,040	248,217	17,827	590,888
Kagera	132,135	-	84,264	119,892	336,291
Mwanza	141,838	817	371,137	24,079	537,871
Mara	153,964	3,082	146,128	17,065	320,239
TOTAL	1,669,476	35,594	4,128,476	996,865	6,830,411

Table E5-06A: Number of Holdings Reporting Different Methods of Crop Storage by Type of Crop

Type of Storage	Type of Crop						
	Maize	Paddy	Sorghum	Bur lush Millet	Finger Millet	Wheat	Beans
Local	1,562,115	381,630	481,178	149,031	104,347	11,050	271,666
Store	24,752	6,573	3,466	-	395	448	3,793
Sacks (at Home)	1,254,916	472,030	243,219	45,693	67,065	23,651	798,925
Total	2,841,783	860,233	727,863	194,724	171,807	35,149	1,074,384

Table E5-06B: Number of Holdings Reporting Different Methods of Crop Storage by Region.

Region	Method of Storage		
	Local	Modern Store	In Sacks (at Home)
Dodoma	214,945	1,320	140,302
Arusha	107,891	4,615	194,427
Kilimanjaro	77,355	1,146	217,108
Tanga	165,034	2,654	117,356
Mororogo	134,288	423	146,235
Pwani/D'Salaam	54,198	421	51,834
Lindi	185,334	604	22,787
Mtwara	169,258	1,702	83,919
Ruvuma	157,964	-	175,529
Iringa	254,124	6,166	146,092
Mbeya	192,321	4,784	261,242
Singida	211,031	1,500	87,176
Tabora	139,956	865	145,302
Rukwa	66,431	1,632	129,793
Kigoma	58,733	-	82,728
Shinyanga	302,257	1,920	182,049
Kagera	131,591	2,945	236,644
Mwanza	182,989	2,452	385,324
Mara	155,318	4,276	99,649
TOTAL	2,961,018	39,425	2,905,496

Table E5-06C: Number of Holdings Reporting Duration of Crop storage by Type of Crop

Duration of Crop storage	Type of Crop						
	Maize	Paddy	Sorghum	Bur lush Millet	Finger Millet	Wheat	Beans
Less than 3 Months	519,333	106,340	145,153	41,150	26,477	7,271	310,227
3 - 6 Months	1,423,716	357,032	393,670	76,345	75,195	17,167	530,996
More than 6 Months	898,733	396,860	189,040	77,229	70,135	10,712	233,162
Total	2,841,782	860,232	727,863	194,724	171,807	35,150	1,074,385

Table E5-07 : Total Number of Households That Reported Crop Protection Against Pests For Stored Crops by Method of Protection and Region

Region	Method of Protection		Total Number of Households
	Chemicals	Local	
Dodoma	78,070	93,133	131,203
Arusha	117,269	40,807	158,076
Kilimanjaro	109,240	23,693	132,933
Tanga	36,178	26,157	62,335
Morogoro	59,967	40,257	100,224
Pwani/D'Salaam	19,782	7,667	27,449
Lindi	6,045	19,505	25,550
Mtwara	27,957	77,778	105,735
Ruvuma	67,313	21,500	88,813
Iringa	189,899	47,161	237,060
Mbeya	168,246	31,827	192,073
Singida	48,233	47,885	96,118
Tabora	93,599	21,870	115,469
Rukwa	62,368	8,493	70,861
Kigoma	18,062	36,872	54,934
Shinyanga	95,588	69,814	165,402
Kagera	79,843	127,581	207,424
Mwanza	103,714	35,946	139,660
Mara	19,476	18,640	38,116
TOTAL	1,392,849	756,586	2,149,435

Table E5-08 : Total Number of Households That Reported Marketing Problems by Type of Problem and Region

Region	Marketing Problem						Total Number of Holdings
	Poor Roads	Transport	Lack of Market	No Grain Bags	Low Price	Others	
Dodoma	6,420	-	541	-	46,411	-	53,372
Arusha	17,307	7,255	2,837	1,499	49,689	935	79,522
Kilimanjaro	6,479	799	-	-	41,805	873	49,956
Tanga	-	-	-	-	40,355	7,419	47,774
Morogoro	2,215	3,822	1,351	-	45,149	-	52,537
Pwani/D'Salaam	365	314	1,849	-	21,542	252	24,322
Lindi	1,044	371	1,883	1,758	51,021	-	56,077
Mtwara	1,196	531	479	871	45,757	1,521	50,355
Ruvuma	1,710	3,753	386	-	103,077	1,242	110,168
Iringa	15,214	9,746	1,111	-	46,318	1,233	73,622
Mbeya	5,847	5,179	2,843	1,481	137,612	3,626	156,588
Singida	222	-	609	897	14,844	-	16,572
Tabora	498	888	866	-	21,753	1,791	25,796
Rukwa	4,883	-	-	422	42,345	-	47,650
Kigoma	3,917	2,819	1,687	747	18,402	674	28,246
Shinyanga	4,299	887	1,774	-	125,062	-	132,022
Kagera	4,115	9,963	2,054	348	94,318	21,356	132,154
Mwanza	-	2,963	900	941	124,242	1,632	130,678
Mara	2,211	1,719	2,909	-	73,121	1,393	81,353
TOTAL	77,942	51,009	24,079	8,964	1,142,823	43,947	1,348,764

Table 5-09 : Total Number of Households That Reported Receipt of Credits by Type of Credit and Region

Region	Type of Credit				Total Number of Households
	Cash	Inputs	Cash and Inputs	Others	
Dodoma	-	-	-	-	-
Arusha	-	376	-	-	376
Kilimanjaro	1,623	380	-	-	2,003
Tanga	-	-	-	-	-
Morogoro	4,053	2,102	633	-	6,788
Pwani/D'Salaam	-	-	-	-	-
Lindi	-	5,040	-	237	5,277
Mtwara	-	7,266	-	-	7,266
Ruvuma	6,476	57,049	1,036	398	64,959
Iringa	660	2,127	2,071	-	4,858
Mbeya	2,487	4,580	-	-	7,067
Singida	520	2,004	355	-	2,879
Tabora	-	41,616	-	-	41,616
Rukwa	601	5,055	-	-	5,656
Kigoma	-	1,899	-	-	1,899
Shinyanga	2,007	7,950	-	-	9,957
Kagera	-	897	-	-	897
Mwanza	6,254	2,036	833	-	9,123
Mara	1,178	3,171	-	-	4,349
TOTAL	25,859	143,548	4,928	635	174,970

Table 5-10A : Total Number of Households Reporting Having Acquired Credit by Source and Region

Region	Source of Credit					
	Individual/Private Companies	Government	Bank	Cooperative Unions	NGO's	Others
Dodoma	-	-	-	-	-	-
Arusha	-	-	-	376	-	-
Kilimanjaro	2,003	-	-	-	-	-
Tanga	-	-	-	-	-	-
Morogoro	6,194	-	-	-	-	-
Pwani/D'Salaam	-	-	-	-	-	593
Lindi	459	3,652	-	929	237	-
Mtwara	784	737	-	5,745	-	-
Ruvuma	63,358	-	-	-	-	-
Iringa	3,550	-	-	-	-	2,450
Mbeya	4,220	-	-	2,847	-	-
Singida	1,384	1,496	-	-	-	-
Tabora	17,983	-	-	23,633	-	-
Rukwa	7	-	-	-	-	-
Kigoma	392	-	-	1,130	377	-
Shinyanga	2,791	-	-	8,361	-	-
Kagera	897	-	-	-	-	-
Mwanza	4,584	-	-	1,786	-	854
Mara	1,178	-	-	-	2,431	-
TOTAL	109,784	5,885	-	44,807	3,045	3,897

Table 5-10B : Total Number of Households Reporting Having Acquired Credit
by Source and Amount of Credit

Amount of Credit (TShs)	Source of Credit					
	Individual/ Private Companies	Govern- ment	Bank	Cooperative Unions	NGO's	Others
1 - 10,000	16,554	2,562	-	4,132	1,215	791
10,001 - 25,000	18,898	2,369	-	5,193	1,215	1,863
25,001 - 50,000	25,118	954	-	8,563	237	830
50,001 - 100,000	29,896	-	-	22,639	-	415
100,001 - 250,000	16,339	-	-	3,527	-	-
More Than 250,000	2,980	-	-	753	377	-
Total	109,785	5,885	-	44,807	3,044	3,899

Table 5-11 : Total Number of Households Reporting Not Having Acquired
Credit by Reason and Region

Region	Reason for Not Having Acquired Credit				Total Number of Holdings
	Did Not Want	Lack of Creditors	High Interest Rates	Others	
Dodoma	51,426	240,493	10,739	10,990	313,648
Arusha	93,407	142,853	3,182	11,355	250,797
Kilimanjaro	75,741	142,269	4,049	5,561	227,620
Tanga	42,419	208,390	213	13,313	264,335
Morogoro	21,218	235,675	456	6,542	263,891
Pwani/D' Salaam	24,413	117,993	739	11,355	154,500
Lindi	26,932	116,393	-	9,182	152,507
Mtwara	46,601	144,359	3,729	15,533	210,222
Ruvuma	32,316	93,638	1,305	19,944	147,203
Iringa	42,782	233,496	11,112	11,733	299,123
Mbeya	84,311	211,997	19,306	11,255	326,869
Singida	56,443	132,319	742	6,589	196,093
Tabora	33,505	102,328	6,160	19,822	161,815
Rukwa	32,366	104,741	1,179	2,823	141,109
Kigoma	32,864	132,411	1,801	4,966	172,042
Shinyanga	41,578	304,440	2,742	2,364	351,124
Kagera	61,641	248,266	506	36,764	347,177
Mwanza	76,332	257,208	2,655	10,443	346,638
Mara	62,977	112,864	1,874	14,172	191,887
TOTAL	939,272	3,282,133	72,489	224,706	4,518,600

Table E5-12 : Number of Holdings Reporting Marketing of Agricultural Products by Region

Region	Number and Percent of Holdings Reporting Marketing of Agricultural Products																Total Number of Holdings
	Not Sold		Sold to Neighbours		Sold to Shop Owners in the Village		Sold to Co-operative Society		Sold to the Village Markets		Sold at the Central Market in Town		Sold to Private Businessmen		Other		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Dodoma	202,550	10.59	10,633	2.81	7,964	29.90	-	-	-	-	5,309	4.99	87,192	5.98	-	-	313,648
Arusha	100,024	5.23	9,006	2.38	1,436	5.39	935	2.29	22,786	4.76	13,308	12.50	103,679	7.11	-	-	251,174
Kilimanjaro	90,063	4.71	9,355	2.47	629	2.36	13,993	4.37	38,917	8.13	4,758	4.47	71,618	4.91	288	1.86	229,621
Tanga	118,040	6.17	28,958	7.64	272	1.02	3,544	1.11	31,490	6.58	9,925	9.32	69,453	4.77	2,652	17.17	264,334
Morogoro	145,741	7.62	85,067	9.25	5,028	18.88	-	-	12,975	2.71	4,177	3.92	66,461	4.56	1,746	11.30	271,195
Pwani/D'Salgan	93,057	4.86	10,011	2.64	252	.95	-	-	13,882	2.90	3,937	3.70	33,363	2.29	-	-	154,502
Lindi	61,194	3.20	11,407	3.01	1,555	5.84	27,295	8.53	2,272	.47	3,050	2.86	51,010	3.50	-	-	157,783
Mtwara	76,157	3.98	34,950	9.22	875	3.29	24,442	7.64	10,378	2.17	404	.38	69,837	4.79	446	2.89	217,489
Ruvuma	34,842	1.82	15,795	4.17	1,545	5.80	20,329	6.35	1,186	.25	2,017	1.89	138,264	9.49	-	-	213,978
Iringa	165,112	8.63	20,742	5.47	852	3.20	5,509	1.72	5,039	1.05	2,241	2.10	100,340	6.88	4,148	26.85	303,983
Mbeya	84,905	4.44	39,238	10.35	-	-	7,177	2.24	24,891	5.20	3,309	3.11	174,416	11.97	-	-	333,936
Singida	140,839	7.36	9,047	2.39	857	3.22	-	-	2,986	.62	2,840	2.67	42,404	2.91	-	-	198,973
Tabora	102,097	5.34	18,849	4.97	331	1.24	22,707	7.10	3,244	.68	6,345	5.96	47,024	3.23	2,833	18.34	203,430
Rukwa	64,864	3.39	10,254	2.71	842	3.16	2,405	.75	37,201	7.77	702	.66	30,495	2.09	-	-	146,763
Kigoma	86,951	4.55	14,435	3.81	182	.68	1,899	.59	52,384	10.94	8,754	8.22	9,378	.64	644	4.17	174,627
Shinyanga	120,538	6.30	28,970	7.64	486	1.82	53,955	16.86	9,748	2.04	4,436	4.17	144,144	9.89	-	-	362,277
Kagera	51,098	2.67	41,775	11.02	1,277	4.79	72,403	22.62	88,128	18.40	3,925	3.69	89,469	6.14	-	-	348,075
Mwanza	97,867	5.12	11,067	2.92	1,003	3.77	55,286	17.27	82,364	17.20	15,436	14.50	91,904	6.31	-	-	354,827
Mara	77,096	4.03	19,482	5.14	1,250	4.69	8,156	2.55	39,032	8.15	11,592	10.89	36,938	2.53	2,691	17.42	196,237
Total	1,913,035	100.00	379,041	100.00	26,636	100.00	320,035	100.00	478,903	100.00	106,465	100.00	1,457,389	100.00	15,448	100.00	4,696,952

Table E5-14 : Number of Holdings by Main Source of Income and Region

Region	Source of Income												Total Number of Holdings
	Sales of Crops		Sales of Livestock & Livestock prodn		Salary		Business		Remittances		Others		
	Number	%	Number	%	Number	%	Number	%	Number	%	Number	%	
Dodoma	101,712	4.68	48,069	10.32	7,162	4.53	63,186	8.14	29,847	10.53	63,671	7.59	313,647
Arusha	94,234	4.33	64,979	13.95	8,196	5.18	63,903	8.23	4,822	1.70	15,039	1.79	251,173
Kilimanjaro	74,920	3.44	49,065	10.53	12,498	7.90	56,729	7.31	9,591	3.39	26,821	3.20	229,624
Tanga	98,335	4.52	29,231	6.28	9,744	6.16	38,122	4.91	18,887	6.67	70,016	8.34	264,335
Morogoro	102,392	4.71	7,290	1.57	4,471	2.83	50,599	6.52	18,826	6.64	87,618	10.44	271,196
Pwani/D'Salaam	38,913	1.79	2,115	.45	7,499	4.74	41,588	5.36	28,369	10.01	36,018	4.29	154,502
Lindi	74,839	3.44	3,152	.68	3,233	2.04	28,680	3.70	11,497	4.06	36,381	4.34	157,782
Mtwara	123,231	5.66	3,942	.85	7,150	4.52	24,279	3.13	16,831	5.94	42,055	5.01	217,488
Ruvuma	168,151	7.73	3,552	.76	5,947	3.76	16,754	2.16	4,179	1.48	15,988	1.91	214,571
Iringa	101,134	4.65	10,057	2.16	17,412	11.01	74,861	9.65	37,484	13.23	63,034	7.51	303,982
Mbeya	199,119	9.15	35,219	7.56	8,466	5.35	31,976	4.12	10,421	3.68	48,735	5.81	333,936
Singida	43,146	1.98	49,811	10.69	7,508	4.75	43,909	5.66	9,023	3.18	45,577	5.43	198,974
Tabora	72,303	3.32	25,823	5.54	6,701	4.24	40,203	5.18	15,611	5.51	42,790	5.10	203,431
Rukwa	59,096	2.72	11,251	2.42	3,559	2.25	37,255	4.80	5,167	1.82	30,436	3.63	146,764
Kigoma	90,869	4.18	6,954	1.49	7,419	4.69	36,057	4.65	9,380	3.31	24,342	2.90	175,021
Shinyanga	178,921	8.22	71,311	15.31	11,745	7.43	32,854	4.23	17,562	6.20	49,884	5.94	362,277
Kagera	255,534	11.75	6,313	1.36	9,115	5.76	22,366	2.88	14,100	4.98	40,647	4.84	348,075
Mwanza	209,180	9.62	19,021	4.08	8,832	5.59	48,308	6.22	7,629	2.69	61,957	7.38	354,927
Mara	89,381	4.11	18,621	4.00	11,455	7.24	24,477	3.15	14,087	4.97	38,216	4.55	196,237
Total	2,175,410	100.00	465,776	100.00	158,112	100.00	776,106	100.00	283,313	100.00	839,225	100.00	4,697,942

APPENDIX B:

Table of Results: Vuli

Table V2-11A: Number of Holdings and Planted Area (Hectares) by Crop (Cereals) and Region
(Vuli Season)

Region	MAIZE		PADDY		SORGHUM		BULRUSH MILLET		FINGER MILLET		WHEAT	
	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area
TOTAL	2,049,324	833,176.34	257,412	188,066.07	219,422	101,101.74	6,197	3,625.80	35,711	11,634.71	7,574	3,680.57
Arusha	59,300	20,493.05	-	-	-	-	-	-	-	-	-	-
Kilimanjaro	156,722	49,273.09	5,610	2,687.58	458	32.09	-	-	3,652	673.20	-	-
Tanga	321,354	148,985.81	2,240	1,177.70	-	-	-	-	-	-	3,329	1,664.50
Morogoro	179,229	106,798.59	13,314	5,120.24	2,701	1,512.67	-	-	-	-	-	-
Pwani/D'Salaam	97,689	50,892.20	24,251	10,985.83	903	463.84	-	-	-	-	-	-
Ruvuma	1,220	587.06	-	-	-	-	-	-	-	-	4,245	2,016.07
Mbeya	236,601	53,928.85	-	-	-	-	-	-	-	-	-	-
Kigoma	209,786	85,676.92	3,897	901.26	21,810	6,722.96	-	-	9,777	3,058.37	-	-
Kagera	239,907	56,986.40	-	-	24,472	7,634.55	-	-	9,197	1,404.09	-	-
Mwanza	406,882	200,771.28	196,590	158,685.91	38,709	17,117.71	6,197	3,625.80	833	832.95	-	-
Mara	140,634	58,783.10	11,510	8,507.54	130,968	67,617.92	-	-	12,251	5,666.10	-	-

Table V2-11B: Number of Holdings and Planted Area (Hectares) by Crop (Roots and Tubers) and Region
(Vuli Season)

Region	CASSAVA		SWEET POTATOES		IRISH POTATOES		YAM		COCO YAMS		OTHERS	
	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area
TOTAL	1,220,426	433,297.20	674,097	136,504.00	55,119	10,413.70	39,044	4,919.90	41,466	6,596.70	2,803	195.73
Arusha	8,728	2,805.41	963	296.35	1,824	343.14	-	-	-	-	-	-
Kilimanjaro	12,917	1,408.20	1,380	202.31	1,966	668.45	5,003	730.38	715	271.68	-	-
Tanga	105,938	27,322.04	12,012	1,175.97	9,173	1,880.70	3,989	449.32	4,357	666.03	2,233	178.64
Morogoro	23,044	6,284.54	1,627	175.86	-	-	-	-	416	207.94	-	-
Pwani/D'Salaam	87,584	53,396.57	1,386	244.16	507	65.96	-	-	25	1.74	-	-
Ruvuma	14,007	1,399.83	436	130.74	-	-	-	-	-	-	-	-
Mbeya	6,894	1,447.73	42,025	8,105.93	32,759	5,193.35	2,756	161.59	14,017	2,570.14	-	-
Kigoma	136,014	46,554.69	34,513	5,356.86	370	36.99	1,275	100.37	4,227	792.91	570	17.09
Kagera	307,828	66,300.67	185,262	29,953.76	6,652	1,904.07	26,021	3,478.24	17,057	1,760.16	-	-
Mwanza	324,752	136,426.74	256,607	63,629.75	-	-	-	-	-	-	-	-
Mara	192,722	89,950.78	137,889	27,232.30	1,868	321.04	-	-	652	326.10	-	-

Table V2-11C: Number of Holdings and Planted Area (Hectares) by Crop (Oil Crops) and Region
(Vuli Season)

Region	SUN FLOWER		SIMSIM		GROUNDNUTS		PALM OIL		COCONUTS		CASHEWNUTS		SOYA BEANS		CASTOR OIL	
	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area
TOTAL	25,703	3,794.93	2,629	427.95	133,266	31,065.98	13,007	5,924.51	36,463	30,795.18	18,130	16,284.97	-	-	-	-
Arusha	-	-	-	-	581	75.59	-	-	-	-	-	-	-	-	-	-
Kilimanjaro	21,543	3,396.80	-	-	15,930	2,481.13	-	-	357	42.90	-	-	-	-	-	-
Tanga	-	-	-	-	827	206.76	-	-	20,246	14,918.46	2,187	1,148.09	-	-	-	-
Morogoro	-	-	-	-	1,550	904.16	-	-	-	-	816	2,039.40	-	-	-	-
Pwani/D'Salaam	-	-	606	205.93	500	154.80	-	-	15,860	15,833.83	15,127	13,057.47	-	-	-	-
Mbeya	4,160	398.13	-	-	2,646	324.10	-	-	-	-	-	-	-	-	-	-
Kigoma	-	-	-	-	12,853	2,435.61	13,007	5,924.51	-	-	-	-	-	-	-	-
Kagera	-	-	-	-	56,414	12,136.76	-	-	-	-	-	-	-	-	-	-
Mwanza	-	-	972	68.01	38,444	11,628.76	-	-	-	-	-	-	-	-	-	-
Mara	-	-	1,051	154.01	3,520	718.34	-	-	-	-	-	-	-	-	-	-

Table V2-11D : Number of Holdings and Planted Area (Hectares) by Crop (Cash Crops) and Region
(Vuli Season)

Region	COTTON		TOBACCO		COFFEE		TEA		OTHER CROPS	
	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area
TOTAL	194,264	154,560.48	7,335	7,109.55	412,992	105,792.35	1,026	323.32	33,843	10,275.02
Arusha	-	-	-	-	37,620	9,926.50	-	-	581	58.14
Kilimanjaro	-	-	-	-	100,081	29,107.53	-	-	-	-
Tanga	-	-	-	-	19,533	5,215.44	1,026	323.32	17,245	3,313.29
Morogoro	-	-	-	-	-	-	-	-	6,129	4,743.66
Pwani/D'Salaam	-	-	-	-	-	-	-	-	639	134.12
Ruvuma	-	-	-	-	398	71.70	-	-	-	-
Mbeya	-	-	-	-	28,640	4,723.02	-	-	3,136	870.18
Kigoma	1,121	190.60	6,139	6,645.70	4,801	1,662.67	-	-	3,072	728.75
Kagera	1,941	1,096.57	362	47.11	216,591	52,170.83	-	-	2,214	383.38
Mwanza	180,699	146,470.59	833	416.74	-	-	-	-	-	-
Mara	10,503	6,802.71	-	-	5,327	2,914.66	-	-	827	43.50

Table V2-12A: Number of Holdings and Planted Area (Hectares) by Crop (Cereals) and Size of Planted Area (Vuli Season)

Size of Planted Area	MAIZE		PADDY		SORGHUM		BULRUSH MILLET		FINGER MILLET		WHEAT	
	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area
0.01 - 0.10	38	1.51	-	-	-	-	-	-	-	-	-	-
0.11 - 0.20	24,009	2,637.41	576	112.38	-	-	-	-	-	-	-	-
0.21 - 0.30	88,569	16,593.60	2,248	418.11	3,953	474.75	-	-	-	-	-	-
0.31 - 0.40	70,780	14,356.05	6,650	1,465.11	5,565	831.83	-	-	-	-	-	-
0.41 - 0.50	217,811	67,909.67	11,146	2,277.80	12,666	3,450.65	-	-	-	-	473	47.34
0.51 - 0.60	5,217	786.95	667	153.47	1,215	303.84	-	-	570	74.05	1,036	144.97
0.61 - 0.70	100,291	23,655.59	6,120	1,385.54	6,577	1,132.56	-	-	-	-	-	-
0.71 - 0.80	193,163	63,625.43	14,452	5,867.87	13,187	4,014.59	-	-	486	34.04	-	-
0.81 - 0.90	102,955	21,299.11	8,662	3,088.74	8,286	1,975.34	-	-	1,102	114.08	-	-
0.91 - 1.00	226,680	99,695.56	19,899	7,853.50	21,070	7,727.36	-	-	834	188.97	-	-
1.01 - 1.50	353,510	131,179.07	43,376	20,742.72	46,221	20,628.05	-	-	1,884	278.26	456	227.97
1.51 - 2.00	262,963	104,739.76	32,642	17,555.01	34,387	15,037.26	-	-	8,938	2,159.73	3,155	1,805.65
2.01 - 5.00	347,925	200,018.47	90,574	87,328.06	53,904	35,633.82	914	457.15	6,910	1,907.63	456	455.94
5.01 +	55,414	86,678.16	20,399	39,817.74	12,389	9,891.69	2,701	2,066.19	12,525	4,652.79	1,997	998.70
							2,581	1,102.46	2,462	2,225.15	-	-
Total	2,049,325	833,176.34	257,411	188,066.05	219,420	101,101.74	6,196	3,625.80	35,711	11,634.70	7,573	3,680.57

Table V2-128: Number of Holdings and Planted Area (Hectares) by Crop (Roots and Tubers) and Size of Planted Area
(Vuli Season)

Size of Planted Area	CASSAVA		SWEET POTATOES		IRISH POTATOES		YAM		COCO YAMS		OTHERS	
	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area
0.01 - 0.10	915	13.73	458	9.15	-	-	-	-	-	-	-	-
0.11 - 0.20	6,948	347.00	3,903	255.86	-	-	1,058	10.58	25	1.74	-	-
0.21 - 0.30	24,890	3,317.18	8,084	937.09	-	-	500	35.02	-	-	-	-
0.31 - 0.40	30,395	4,763.59	14,920	1,241.05	-	-	3,311	253.45	663	86.19	570	17.09
0.41 - 0.50	99,308	20,292.39	39,801	3,664.46	1,696	149.15	4,907	402.16	1,297	215.64	744	74.43
0.51 - 0.60	1,830	426.69	1,830	146.63	687	130.45	-	-	-	-	-	-
0.61 - 0.70	52,660	10,306.15	32,530	3,915.00	5,346	846.05	-	-	1,169	151.97	-	-
0.71 - 0.80	81,844	21,244.16	34,818	5,100.37	3,341	448.01	847	140.15	-	-	-	-
0.81 - 0.90	59,591	12,759.41	47,306	6,857.47	2,060	116.72	4,430	370.19	2,966	428.15	-	-
0.91 - 1.00	124,599	37,810.88	48,400	7,592.65	3,493	412.00	6,624	897.16	3,867	533.59	-	-
1.01 - 1.50	224,517	71,952.13	140,749	23,908.34	15,797	2,040.22	8,771	964.50	11,918	2,375.25	1,489	104.20
1.51 - 2.00	192,102	72,704.94	115,533	24,686.18	10,037	2,442.79	4,115	999.82	10,625	1,655.60	-	-
2.01 - 5.00	279,149	129,631.21	164,163	43,085.05	11,562	3,409.85	4,480	846.87	8,935	1,148.57	-	-
5.01 +	41,681	47,727.55	21,602	15,104.69	1,101	418.48	-	-	-	-	-	-
Total	1,220,429	433,297.21	674,097	136,503.99	55,120	10,413.72	39,043	4,919.90	41,465	6,596.70	2,803	195.72

Note That : Others include Onions and Garlic

Table V2-12C: Number of Holdings and Planted Area (Hectares) by Crop (Oil Crops) and Size of Planted Area
(Vuln Season)

Size of Planted Area	SUN FLOWER		SINSIM		GROUNDNUTS		PALM OIL		COCONUTS		CASHEWNUTS		SOYA BEANS		CASTOR OIL	
	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area
0.01 - 0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.11 - 0.20	-	-	-	-	25	3.23	-	-	-	-	-	-	-	-	-	-
0.21 - 0.30	493	93.64	-	-	1,557	158.33	-	-	-	-	1,015	192.79	-	-	-	-
0.31 - 0.40	-	-	-	-	394	39.43	450	45.02	-	-	-	-	-	-	-	-
0.41 - 0.50	-	-	331	9.93	6,025	771.08	544	243.25	1,907	794.58	2,537	963.97	-	-	-	-
0.51 - 0.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.61 - 0.70	-	-	-	-	1,418	181.24	-	-	789	220.78	-	-	-	-	-	-
0.71 - 0.80	2,034	279.12	293	146.34	5,396	1,094.12	1,038	475.46	3,917	1,612.73	1,472	655.70	-	-	-	-
0.81 - 0.90	1,723	242.45	-	-	3,260	742.68	1,227	357.15	-	-	-	-	-	-	-	-
0.91 - 1.00	5,253	633.79	-	-	11,084	2,030.79	892	413.90	1,968	1,086.62	1,536	922.23	-	-	-	-
1.01 - 1.50	6,502	975.48	-	-	29,102	5,086.97	4,239	1,552.03	6,503	2,384.39	1,776	970.12	-	-	-	-
1.51 - 2.00	4,389	964.99	-	-	21,050	4,614.09	2,637	1,135.12	3,022	2,574.04	2,309	1,721.10	-	-	-	-
2.01 - 5.00	5,309	605.47	2,006	271.68	48,260	11,728.72	1,981	1,702.57	12,587	11,093.64	6,873	7,919.73	-	-	-	-
5.01 +	-	-	-	-	5,694	4,615.31	-	-	5,771	11,028.41	612	2,939.33	-	-	-	-
Total	25,703	3,794.94	2,630	427.95	133,265	31,065.99	13,008	5,924.50	36,464	30,795.19	18,130	16,284.97	-	-	-	-

Table V2-12D: Number of Holdings and Planted Area (Hectares) by Crop (Cash Crops) and Size of Planted Area (Vuli Season)

Size of Planted Area	COTTON		TOBACCO		COFFEE		TEA		OTHER CROPS	
	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area	Number of Holdings	Planted Area
0.01 - 0.10	-	-	-	-	75	3.02	-	-	-	-
0.11 - 0.20	-	-	-	-	2,379	170.74	-	-	-	-
0.21 - 0.30	-	-	-	-	14,093	1,686.94	-	-	-	-
0.31 - 0.40	374	93.43	-	-	14,308	1,964.83	-	-	2,035	187.57
0.41 - 0.50	726	94.41	-	-	26,473	5,540.38	-	-	4,160	712.92
0.51 - 0.60	-	-	-	-	-	-	-	-	-	-
0.61 - 0.70	2,066	441.10	-	-	16,174	3,315.84	-	-	1,036	134.72
0.71 - 0.80	4,658	1,132.43	-	-	37,708	8,746.68	513	128.30	2,952	457.81
0.81 - 0.90	5,157	1,041.12	577	57.69	8,714	1,972.29	-	-	3,935	896.23
0.91 - 1.00	9,266	4,187.49	377	188.30	34,914	9,518.34	-	-	4,234	1,925.18
1.01 - 1.50	25,388	10,462.89	1,098	462.61	78,402	18,604.50	513	195.02	3,787	745.43
1.51 - 2.00	28,550	14,525.33	1,271	690.02	66,862	16,389.90	-	-	3,271	973.66
2.01 - 5.00	96,865	85,846.86	2,787	3,332.89	97,635	31,825.46	-	-	8,433	4,241.49
5.01 +	21,214	36,735.42	1,226	2,378.04	15,255	6,053.42	-	-	-	-
Total	194,264	154,560.48	7,336	7,109.55	412,992	105,792.34	1,026	323.32	33,843	10,275.01

Table EV-13: Total Planted Area (Hectares) under Inter-Cropping: Primary and Secondary Crops
(Yu11 Season)

Primary Crop	Pure Stand	Secondary Crop														Total Area
		Maize	Paddy	Sorghum	Bur-lush Millet	Finger Millet	Cassava	Sweet Potatoes	Beans	Pigeon Peas	Sunflower	Groundnuts	Coconuts	Cotton	Other Crops	
Maize	320,084.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Paddy	176,182.28	244.26	10,409.63	2,537.26	685.72	145.98	46,878.53	2,358.79	54,934.48	2,461.40	645.25	8,348.19	1,176.12	-	35,089.42	485,586.72
Sorghum	79,798.28	1,765.67	-	-	-	-	-	-	272.36	-	-	-	-	-	87.27	176,786.17
Bur-lush Millet	1,640.01	-	-	-	625.11	-	545.01	-	394.17	146.79	-	208.37	-	-	2,137.63	85,628.95
Finger Millet	10,635.56	9.93	-	-	-	-	30.59	-	-	221.41	14.08	-	-	-	36.02	10,947.99
Cassava	157,835.62	32,129.07	-	922.29	-	68.53	-	24,960.13	4,964.45	1,182.88	-	1,542.20	1,975.75	-	11,370.59	236,812.51
Sweet Potatoes	87,885.91	3,194.42	-	-	-	-	2,546.37	-	378.13	-	-	282.19	-	-	531.75	94,849.63
Beans	57,481.47	15,957.85	-	29.86	-	-	4,128.37	518.73	-	122.64	510.58	196.39	-	-	35,316.93	114,234.96
Pigeon Peas	445.49	-	-	-	-	-	268.45	-	-	-	-	-	-	-	146.82	851.96
Sunflower	744.16	43.10	-	-	-	-	-	-	425.46	-	-	-	-	-	1,352.96	1,412.52
Groundnuts	10,781.45	1,298.29	-	-	-	-	1,454.17	7.47	222.70	104.23	143.37	139.24	-	-	108.84	14,120.52
Coconuts	9,245.94	-	-	-	-	-	1,223.20	-	-	-	-	-	-	-	9,329.78	19,788.92
Cotton	148,544.09	1,748.48	-	-	-	-	-	-	137.98	-	-	152.52	-	-	-	158,584.07
Other Crops	114,489.18	10,508.05	38.88	13.62	-	-	3,502.70	412.83	1,634.77	283.15	123.14	58.11	7,408.12	-	72,590.58	211,855.85
Total	1,175,683.39	66,910.12	10,448.51	3,494.03	1,310.83	214.43	60,561.39	28,496.27	62,465.50	4,522.50	1,436.42	10,879.21	10,568.99	-	166,655.75	1,603,551.34

Table VZ-14A: Number of Holdings by Type of Primary Crop and Size of Planted Area
(Yu11 Season)

Size of Planted Area	Total Holdings	Primary Crop													
		Maize	Paddy	Sorghum	Bur-lush Millet	Finger Millet	Cassava	Sweet Potatoes	Beans	Pigeon Peas	Sunflower	Groundnuts	Coconuts	Cotton	Other Crops
0.01 - 0.10	1,028	38	-	-	-	-	915	458	-	-	-	-	-	-	1,028
0.11 - 0.20	40,520	23,322	576	-	-	-	2,015	2,025	8,267	-	-	25	-	-	6,899
0.21 - 0.30	124,478	76,247	2,248	2,973	-	-	14,465	5,041	12,931	-	493	423	-	-	22,616
0.31 - 0.40	90,102	52,261	4,905	4,239	-	-	21,877	5,202	15,546	513	-	-	-	374	22,595
0.41 - 0.50	276,146	171,730	9,895	10,749	-	570	54,227	11,622	35,503	25	-	2,978	1,907	726	51,854
0.51 - 0.60	5,008	3,157	667	1,215	-	-	1,830	1,830	1,824	-	-	-	-	-	687
0.61 - 0.70	96,281	63,692	6,120	6,110	-	-	31,118	19,980	20,635	-	-	1,050	789	2,066	27,286
0.71 - 0.80	195,960	125,472	10,536	9,389	-	616	48,761	15,977	24,490	507	1,601	3,171	3,334	3,844	54,008
0.81 - 0.90	73,750	46,031	6,408	6,583	-	834	33,375	27,808	19,000	-	1,108	2,886	-	5,157	25,315
0.91 - 1.00	241,527	152,685	12,268	16,854	-	1,357	63,862	20,897	42,358	1,566	2,344	4,688	1,968	9,266	62,583
1.01 - 1.50	329,012	194,963	36,438	43,344	-	8,451	120,984	83,874	87,138	854	3,077	20,321	5,891	23,629	128,437
1.51 - 2.00	219,526	122,660	28,865	29,320	914	6,910	106,975	67,418	70,941	527	2,071	13,045	3,022	26,881	95,838
2.01 - 5.00	289,306	180,217	77,748	49,217	1,868	11,998	140,390	108,025	80,063	1,687	-	31,828	8,934	79,076	115,857
5.01 +	41,073	32,185	16,558	8,851	-	2,462	24,230	19,034	9,549	-	-	2,280	5,158	13,965	17,332
Total	2,023,717	1,244,660	213,232	188,844	2,782	33,198	665,024	389,191	428,245	5,679	10,694	82,695	31,003	164,984	632,335

Table V2-14B: Planted Area (Hectares) by Type of Primary Crops and Size of Planted Area
(Vuli Season)

Size of Planted Area	Total Planted Area	Primary Crop													
		Maize	Paddy	Sorghum	Burlyush Millet	Finger Millet	Cassava	Sweet Potatoes	Beans	Pigeon Peas	Sunflower	Groundnuts	Coconuts	Cotton	Other Crops
0.01 - 0.10	65.90	1.51	-	-	-	-	13.73	9.15	-	-	-	-	-	-	41.51
0.11 - 0.20	4,893.21	2,637.41	112.38	-	-	-	219.68	213.25	1,047.02	-	-	-	-	-	660.23
0.21 - 0.30	27,777.54	16,462.17	418.11	421.80	-	-	2,694.11	751.51	2,753.28	-	93.64	78.96	-	-	4,103.96
0.31 - 0.40	29,198.45	13,608.06	1,186.14	739.40	-	-	4,345.36	761.26	3,940.84	41.04	-	-	-	93.43	4,482.93
0.41 - 0.50	129,360.92	66,433.73	2,101.86	3,326.71	-	74.05	16,325.69	1,514.13	12,244.07	3.23	-	478.88	794.58	94.41	16,969.58
0.51 - 0.60	2,683.63	738.89	153.47	303.84	-	-	426.69	146.63	783.66	-	-	-	-	-	130.45
0.61 - 0.70	51,142.67	22,315.85	1,385.54	1,085.85	-	-	8,984.09	2,899.74	6,000.11	-	-	122.41	220.78	441.10	7,687.19
0.71 - 0.80	122,439.92	59,701.71	4,764.74	3,604.15	-	80.04	17,945.66	3,198.73	9,888.83	91.32	248.84	794.61	1,612.73	1,132.43	20,176.12
0.81 - 0.90	54,969.52	18,251.59	2,866.09	1,807.19	-	188.97	11,361.27	5,479.26	5,041.15	-	180.94	694.09	-	1,041.12	8,057.86
0.91 - 1.00	201,106.26	93,955.62	5,190.88	7,483.00	-	278.26	31,902.55	4,370.14	20,193.90	289.57	375.69	1,114.07	1,086.62	4,187.49	30,678.46
1.01 - 1.50	370,826.65	121,358.60	17,575.40	20,141.20	-	2,081.92	63,381.02	18,677.15	42,779.11	123.79	640.04	3,959.85	2,384.39	10,462.89	67,261.28
1.51 - 2.00	341,258.92	90,264.35	16,974.42	14,613.31	457.15	1,907.63	66,528.76	20,266.83	42,004.05	79.08	819.37	3,260.58	2,574.04	14,525.33	66,984.05
2.01 - 5.00	748,648.03	177,714.00	85,078.76	34,688.55	1,857.82	4,584.26	111,993.16	35,678.33	66,604.72	775.48	-	8,284.24	11,093.64	85,846.86	124,448.21
5.01 +	280,141.46	82,774.66	39,817.74	9,392.70	-	2,225.15	36,257.62	14,031.70	11,530.54	-	-	1,395.86	11,028.41	36,735.42	34,951.66
Total	2,355,513.08	766,218.15	177,625.53	97,607.70	2,314.97	11,420.28	372,379.39	107,997.81	224,011.28	1,403.51	2,358.52	29,186.78	30,795.19	154,560.48	386,633.49

Table V2-14C: Number of Holdings by Type of Primary Crop and Region
(Vuli Season)

Size of Planted Area	Total Holdings	Primary Crop													
		Maize	Paddy	Sorghum	Burlyush Millet	Finger Millet	Cassava	Sweet Potatoes	Beans	Pigeon Peas	Sunflower	Groundnuts	Coconuts	Cotton	Other Crops
TOTAL	2,023,719	1,244,660	213,232	188,845	2,782	33,197	665,025	389,190	428,245	5,679	10,694	82,696	31,003	164,984	632,334
Arusha	70,822	51,074	-	-	-	-	5,973	500	657	-	-	-	-	-	36,327
Kilimanjaro	193,948	111,915	5,178	-	-	2,193	2,224	1,022	30,568	-	10,694	10,478	357	-	112,380
Tanga	251,596	212,477	2,240	-	-	-	32,732	5,577	8,721	-	-	827	18,309	-	82,170
Morogoro	168,405	157,861	5,892	1,350	-	-	10,389	517	3,563	1,668	-	1,550	-	-	8,039
Pwani/D'Salaam	138,497	76,540	5,251	-	-	-	64,548	1,386	-	737	-	339	12,337	-	31,055
Ruvuma	56,616	1,220	-	-	-	-	-	-	55,395	-	-	-	-	-	3,253
Mbeya	85,467	81,402	-	-	-	-	4,596	17,896	3,520	-	-	1,323	-	-	49,208
Kigoma	173,954	131,457	3,660	18,364	-	8,723	82,064	11,654	52,909	3,275	-	4,011	-	1,121	55,601
Kagera	337,027	105,058	-	23,987	-	9,197	148,948	144,722	261,755	-	-	50,812	-	1,941	228,458
Nyanza	356,752	221,699	180,876	30,731	2,782	833	173,759	150,998	1,887	-	-	10,745	-	151,419	8,853
Mara	190,636	93,957	10,137	114,413	-	12,251	139,791	54,917	9,271	-	-	2,611	-	10,503	16,990

Table V2-140: Planted Area (Hectares) by Type of Primary Crops and Region
(Vuli Season)

Region	Total Planted Area	Primary Crop													
		Maize	Paddy	Sorghum	Bur lush Millet	Finger Millet	Cassava	Sweet Potatoes	Beans	Pigeon Peas	Sunflower	Groundnuts	Coconuts	Cotton	Other Crops
TOTAL	2,355,513.87	766,218.14	177,625.55	97,607.70	2,314.97	11,420.28	572,379.38	107,997.83	224,011.26	4,403.51	2,358.52	20,186.78	30,795.18	154,560.48	386,633.49
Arusha	36,962.38	19,964.43					2,549.92	236.21	389.57						13,902.26
Kilimanjaro	122,754.74	47,280.95	2,687.58			527.30	591.60	112.94	16,685.58		2,358.52	2,006.22	42.90		50,541.15
Tanga	229,268.28	143,119.04	1,177.70				12,828.05	699.02	3,477.22						54,842.02
Morogoro	125,441.01	106,406.18	3,408.18	1,866.81			3,536.88	36.17	1,560.12	833.78		206.76	14,918.46		7,688.81
Pwani/B'Salaam	139,853.93	46,026.84	2,411.84				49,191.70	244.16		96.60		143.92	15,833.83		25,905.45
Ruvuma	35,902.67	587.06							33,362.41						1,953.20
Mtswa	86,060.92	53,553.99					1,298.36	8,105.93	645.86						22,284.88
Kigoma	173,014.81	82,176.36	879.38	6,412.17		2,989.84	35,188.17	2,464.91	15,147.49	473.12		171.97			26,072.26
Kagera	465,491.84	37,756.84		7,586.03		1,404.09	58,260.80	27,278.96	148,410.95			1,109.51		190.60	172,107.24
Nyanza	688,371.34	178,018.25	158,686.91	15,988.02	2,314.97	832.96	119,498.35	52,408.88	471.84			11,590.36		1,096.57	2,308.23
Nara	260,391.17	53,488.21	8,384.05	66,554.67		5,666.10	89,523.55	16,418.65	3,940.22			3,381.36		146,478.59	9,628.06
												672.93		6,802.71	

Table V2-15A: Number of Holdings by Type of Secondary Crop and Size of Planted Area
(Vuli Season)

Size of Planted Area	Total Holdings	Secondary Crop													
		Maize	Paddy	Sorghum	Bur lush Millet	Finger Millet	Cassava	Sweet Potatoes	Beans	Pigeon Peas	Sunflower	Groundnuts	Coconuts	Cotton	Other Crops
0.01 - 0.10	953								953						
0.11 - 0.20	15,046						3,875	1,420	4,648	475					4,628
0.21 - 0.30	53,851	9,282		980			9,365	2,649	18,133	1,418					11,275
0.31 - 0.40	46,754	6,977	1,745	952			5,677	7,390	13,010	1,026		1,134	507		11,275
0.41 - 0.50	131,833	16,744	1,251	1,917			32,610	21,479	30,136	4,806		3,048	1,537		11,543
0.51 - 0.60	1,189														33,810
0.61 - 0.70	65,034	10,239		467			13,399	7,320	19,184	3,442		368			1,189
0.71 - 0.80	115,457	17,261	3,484	2,583		486	20,673	14,895	34,830	4,440		2,224	583		21,555
0.81 - 0.90	50,150	17,942	667	1,703			8,066	5,133	11,502	392	433	2,224	1,793		28,082
0.91 - 1.00	151,793	22,219	7,631	2,690			26,043	20,694	45,608	6,621	615	374			11,474
1.01 - 1.50	196,797	43,092	5,935	2,877		486	38,146	23,235	53,095	5,358	2,909	5,050	4,771		36,741
1.51 - 2.00	141,568	46,096	1,161	3,133			23,369	20,594	40,469	2,852	3,424	8,165	1,930		50,632
2.01 - 5.00	201,235	59,540	2,833	2,340	833		44,989	21,797	48,804	3,879	1,210	6,448	1,545		23,395
5.01 +	25,657	4,426		1,505	2,581		8,266	980	3,880		2,891	13,235	6,248		48,969
												3,415	2,232		6,526
Total	1,197,317	253,718	24,707	21,147	3,414	1,458	234,398	147,506	324,252	33,989	11,482	43,855	21,138		281,799

Table V2-150: Planted Area (Hectares) by Type of Secondary Crops and Region
(Wuli Season)

Region	Total Planted Area	Secondary Crop													
		Maize	Paddy	Sorghum	Burush Millet	Finger Millet	Cassava	Sweet Potatoes	Beans	Pigeon Peas	Sunflower	Groundnuts	Coconuts	Cotton	Other Crops
TOTAL	430,635.15	66,910.12	10,440.51	3,494.04	1,310.83	214.43	60,561.40	28,496.26	62,416.22	4,522.50	1,436.41	10,879.20	10,560.99	-	169,392.22
Arusha	9,332.68	528.62	-	-	-	-	255.50	60.14	2,762.85	-	-	75.59	-	-	5,649.98
Kilimanjaro	29,489.10	2,072.14	-	32.09	-	145.90	816.59	89.37	7,569.58	108.49	1,038.28	474.91	-	-	17,141.74
Tanga	56,463.50	7,866.77	-	-	-	-	14,493.98	476.95	12,186.37	110.88	-	-	5,074.80	-	16,253.73
Morogoro	13,132.47	392.41	1,712.14	445.86	-	-	2,747.66	139.70	1,779.48	720.30	-	-	16.41	-	5,178.50
Pwani/D'Salaam	45,460.15	4,865.36	8,574.00	463.84	-	-	4,204.87	-	-	865.90	-	11.28	5,469.77	-	21,005.13
Ruvuma	1,781.89	-	-	-	-	-	1,399.83	130.74	77.15	-	-	-	-	-	174.17
Mbeya	9,592.16	374.85	-	-	-	-	149.37	-	1,517.24	-	-	-	-	-	7,000.44
Kigoma	40,555.11	3,452.48	30.88	310.79	-	68.53	11,446.52	2,891.95	11,217.17	2,512.98	398.13	152.13	-	-	7,297.70
Kagera	112,154.33	19,229.56	-	48.52	-	-	8,039.87	2,674.88	1,657.01	203.95	-	546.39	-	-	79,754.22
Mwanza	89,780.08	22,753.03	-	1,129.70	1,310.83	-	16,741.65	11,220.87	19,232.87	-	-	8,247.40	-	-	9,143.74
Mara	22,893.68	5,374.89	123.49	1,063.25	-	-	265.55	10,811.74	4,416.49	-	-	45.41	-	-	792.86

Table V4-09A: Number and Percentage of Maize Growing Holdings.
Planted Area (Hectares), Production (Tonnes) by Region
(Vuli Season)

Region	Holdings		Area Planted		Production	
	Number	%	Hectares	%	Tonnes	%
Dodoma	-	-	-	-	-	-
Arusha	59,300	2.89	20,493.05	2.46	15,594	4.35
Kilimanjaro	156,722	7.64	49,273.09	5.91	43,106	12.03
Tanga	322,237	15.71	148,985.81	17.88	66,413	18.54
Morogoro	180,609	8.80	106,798.59	12.82	34,722	9.69
Pwani/D'Salaam	97,689	4.76	50,892.20	6.11	7,216	2.01
Lindi	-	-	-	-	-	-
Mtwara	-	-	-	-	-	-
Ruvuma	1,220	.06	587.06	.07	-	-
Iringa	-	-	-	-	-	-
Mbeya	236,601	11.53	53,928.85	6.47	44,003	12.28
Singida	-	-	-	-	-	-
Tabora	-	-	-	-	-	-
Rukwa	-	-	-	-	-	-
Kigoma	209,786	10.23	85,676.92	10.28	20,703	5.78
Shinyanga	-	-	-	-	-	-
Kagera	239,907	11.69	56,986.40	6.84	20,718	5.78
Mwanza	406,882	19.83	200,771.28	24.10	69,070	19.28
Mara	140,634	6.85	58,783.10	7.06	36,755	10.26
Total	2,051,587	100.00	833,176.35	100.00	358,300	100.00

Table V4-09B: Number and Percentage of Paddy Growing Holdings.
Planted Area (Hectares), Production (Tonnes) by Region
(Vuli Season)

Region	Holdings		Area Planted		Production	
	Number	%	Hectares	%	Tonnes	%
Dodoma	-	-	-	-	-	-
Arusha	-	-	-	-	-	-
Kilimanjaro	5,610	2.18	2,687.58	1.43	8,196	3.16
Tanga	2,240	.87	1,177.70	.63	-	-
Morogoro	13,314	5.17	5,120.24	2.72	437	.17
Pwani/D'Salaam	24,251	9.42	10,985.83	5.84	252	.10
Lindi	-	-	-	-	-	-
Mtwara	-	-	-	-	-	-
Ruvuma	-	-	-	-	-	-
Iringa	-	-	-	-	-	-
Mbeya	-	-	-	-	-	-
Singida	-	-	-	-	-	-
Tabora	-	-	-	-	-	-
Rukwa	-	-	-	-	-	-
Kigoma	3,897	1.51	901.26	.48	182	.07
Shinyanga	-	-	-	-	-	-
Kagera	-	-	-	-	-	-
Mwanza	196,590	76.37	158,685.91	84.38	247,539	95.50
Mara	11,510	4.47	8,507.54	4.52	2,603	1.00
Total	257,412	100.00	188,066.06	100.00	259,209	100.00

Table EV-12A: Male Headed Maize Growing Holdings, Planted Area (Hectares),
Reported Production (Tonnes) and Average Yield by Region
(Vuli Season)

Region	Number of Holdings	Area Planted (Hectares)	Production (Tonnes)	Average Yield Rate (Kgs/Ha)
Dodoma	-	-	-	-
Arusha	46,297	15,904.04	18,171	1,143
Kilimanjaro	132,320	44,277.94	44,875	1,013
Tanga	221,107	113,926.22	57,634	506
Morogoro	144,554	85,049.77	35,398	416
Pwani/D'Salaam	71,258	43,403.85	10,507	242
Lindi	-	-	-	-
Mtwara	-	-	-	-
Ruvuma	720	338.49	-	-
Iringa	-	-	129	-
Mbeya	139,941	33,506.01	28,925	863
Singida	-	-	-	-
Tabora	-	-	-	-
Rukwa	-	-	-	-
Kigoma	161,207	73,463.52	27,237	371
Shinyanga	-	-	-	-
Kagera	187,945	61,096.83	33,128	542
Mwanza	332,099	191,408.20	89,463	467
Mara	99,766	49,842.46	37,276	748
Total	1,537,214	712,217.33	382,743	537

Table V4-12B: Female Headed Maize Growing Holdings, Planted Area (Hectares),
Reported Production and Average Yield by Region
(Vuli Season)

Region	Number of Holdings	Area Planted	Production (Tonnes)	Average Yield Rate (Kgs/Ha)
Dodoma	-	-	-	-
Arusha	9,057	3,668.42	3,280	894
Kilimanjaro	13,972	3,537.48	5,917	1,673
Tanga	79,685	32,374.08	15,366	475
Morogoro	24,036	14,997.15	4,456	297
Pwani/D'Salaam	19,614	8,434.75	926	110
Lindi	-	-	-	-
Mtwara	-	-	-	-
Ruvuma	419	209.50	-	-
Iringa	-	-	-	-
Mbeya	80,915	17,145.49	14,272	832
Singida	-	-	-	-
Tabora	-	-	-	-
Rukwa	-	-	-	-
Kigoma	34,618	9,678.86	3,997	413
Shinyanga	-	-	-	-
Kagera	35,996	9,294.15	4,396	473
Mwanza	47,703	16,257.29	5,955	366
Mara	31,509	9,797.96	5,035	514
Total	377,524	125,395.13	63,600	507

Table V4-13A: Male Headed Paddy Growing Holdings, Planted Area (Hectares),
Reported Production and Average Yield by Region
(Vuli Season)

Region	Number of Holdings	Area Planted (Hectares)	Production (Tonnes)	Average Yield Rate (Kgs/Ha)
Dodoma	-	-	-	-
Arusha	-	-	-	-
Kilimanjaro	3,693	1,881.83	6,771	3,598
Tanga	-	-	124	-
Morogoro	7,945	4,135.50	518	125
Pwani/D'Salaam	16,671	13,466.90	117	9
Lindi	-	-	-	-
Mtwara	-	-	-	-
Ruvuma	-	-	-	-
Iringa	-	-	-	-
Mbeya	-	-	-	-
Singida	-	-	-	-
Tabora	-	-	-	-
Rukwa	-	-	-	-
Kigoma	2,816	706.33	382	541
Shinyanga	-	-	-	-
Kagera	-	-	-	-
Mwanza	158,499	134,686.95	213,941	1,588
Mara	9,130	7,480.09	3,273	438
Total	198,754	162,357.60	225,126	1,387

Table V4-13B: Female Headed Paddy Growing Holdings, Planted Area (Hectares),
Reported Production and Average Yield by Region
(Vuli Season)

Region	Number of Holdings	Area Planted (Hectares)	Production (Tonnes)	Average Yield Rate (Kgs/Ha)
Dodoma	-	-	-	-
Arusha	-	-	-	-
Kilimanjaro	1,544	626.91	1,118	1,783
Tanga	2,091	1,099.33	-	-
Morogoro	4,482	2,213.40	-	-
Pwani/D'Salaam	5,730	4,630.69	-	-
Lindi	-	-	-	-
Mtwara	-	-	-	-
Ruvuma	-	-	-	-
Iringa	-	-	-	-
Mbeya	-	-	-	-
Singida	-	-	-	-
Tabora	-	-	-	-
Rukwa	-	-	-	-
Kigoma	822	161.55	1	6
Shinyanga	-	-	-	-
Kagera	-	-	-	-
Mwanza	25,007	13,437.99	19,535	1,454
Mara	1,614	572.91	62	108
Total	41,290	22,742.78	20,716	911

Table V4-14A: Male Headed Sorghum Growing Holdings, Planted Area (Hectares),
Reported Production and Average Yield by Region
(Vuli Season)

Region	Number of Holdings	Area Planted (Hectares)	Production (Tonnes)	Average Yield Rate (Kgs/Ha)
Dodoma	-	-	-	-
Arusha	-	-	-	-
Kilimanjaro	-	-	-	-
Tanga	-	-	-	-
Morogoro	2,521	1,820.42	95	52
Pwani/D'Salaam	817	837.84	-	-
Lindi	-	-	-	-
Mtwara	-	-	-	-
Ruvuma	-	-	-	-
Iringa	-	-	-	-
Mbeya	-	-	-	-
Singida	-	-	-	-
Tabora	-	-	-	-
Rukwa	-	-	-	-
Kigoma	14,691	5,383.84	2,026	376
Shinyanga	-	-	-	-
Kagera	18,689	5,875.71	5,359	912
Mwanza	31,454	15,376.48	12,513	814
Mara	91,602	47,707.75	21,166	444
Total	159,774	77,002.04	41,159	535

Table V4-14B: Female Headed Sorghum Growing Holdings, Planted Area (Hectares),
Reported Production and Average Yield by Region
(Vuli Season)

Region	Number of Holdings	Area Planted (Hectares)	Production (Tonnes)	Average Yield Rate (Kgs/Ha)
Dodoma	-	-	-	-
Arusha	-	-	-	-
Kilimanjaro	428	55.63	9	162
Tanga	-	-	-	-
Morogoro	-	-	-	-
Pwani/D'Salaam	-	-	-	-
Lindi	-	-	-	-
Mtwara	-	-	-	-
Ruvuma	-	-	-	-
Iringa	-	-	-	-
Mbeya	-	-	-	-
Singida	-	-	-	-
Tabora	-	-	-	-
Rukwa	-	-	-	-
Kigoma	5,668	1,169.92	201	172
Shinyanga	-	-	-	-
Kagera	4,154	1,291.50	2,080	1,611
Mwanza	4,119	1,613.84	139	86
Mara	30,916	16,347.23	6,847	419
Total	45,285	20,478.12	9,276	453

Table V4-16A: Male Headed Bean Growing Holdings, Planted Area (Hectares),
Reported Production and Average Yield by Region
(Vuli Season)

Region	Number of Holdings	Area Planted (Hectares)	Production (Tonnes)	Average Yield Rate (Kgs/Ha)
Dodoma	-	-	-	-
Arusha	11,477	4,280.97	6,043	1,412
Kilimanjaro	97,680	28,438.03	10,316	363
Tanga	62,142	18,622.73	3,382	182
Morogoro	8,974	3,587.40	1,126	314
Pwani/D'Salaam	-	-	-	-
Lindi	-	-	-	-
Mtwara	-	-	-	-
Ruvuma	52,364	28,298.98	6,279	222
Iringa	-	-	-	-
Mbeya	11,961	2,466.74	1,999	810
Singida	-	-	-	-
Tabora	-	-	-	-
Rukwa	-	-	-	-
Kigoma	104,784	29,795.37	5,105	171
Shinyanga	-	-	-	-
Kagera	260,338	121,644.62	40,105	330
Mwanza	70,308	33,019.03	11,041	334
Mara	34,290	10,280.27	3,704	360
Total	714,318	280,434.14	89,100	318

Table V4-16B: Female Headed Bean Growing Holdings, Planted Area (Hectares),
Reported Production and Average Yield by Region
(Vuli Season)

Region	Number of Holdings	Area Planted (Hectares)	Production (Tonnes)	Average Yield Rate (Kgs/Ha)
Dodoma	-	-	-	-
Arusha	4,074	1,065.51	212	199
Kilimanjaro	4,160	990.95	494	581
Tanga	26,852	6,935.96	1,138	164
Morogoro	2,383	1,151.59	278	241
Pwani/D'Salaam	-	-	-	-
Lindi	-	-	-	-
Mtwara	-	-	-	-
Ruvuma	3,555	2,987.16	892	299
Iringa	-	-	-	-
Mbeya	5,547	876.39	320	365
Singida	-	-	-	-
Tabora	-	-	-	-
Rukwa	-	-	-	-
Kigoma	23,906	4,994.14	650	130
Shinyanga	-	-	-	-
Kagera	53,603	19,938.79	5,082	255
Mwanza	10,203	2,825.21	807	286
Mara	5,568	1,464.70	589	402
Total	139,851	43,090.40	10,462	243



JAMHURI YA MUUNGANO WA TANZANIA

DODOSO 'IASQ-1': MAKADIRIO YA MAENEO NA UTABIRI WA MAVUNO(VULI)

Kitengo cha Takwimu
Wizara ya Kilimo na Ushirika
S.L.P. 9192, Dar es Salaam
TANZANIA

Idara ya Takwimu
Tume ya Mipango
S.L.P. 796, Dar es Salaam
TANZANIA

INTEGRATED AGRICULTURAL SURVEY (1997/98)

1.0 VITAMBULISHI

Mkoa: Wilaya: Kata: Kijiji: Balazi:

Kiwango cha Elimu :

Hakusoma	=1
Elimu ya Watu Wazima	=2
Hakumaliza Elimu ya Msingi	=3
Amemaliza Elimu ya Msingi	=4
Mafunzo Baada ya Elimu ya Msingi	=5
Amemaliza Elimu ya Sekondari	=6
Mafunzo Baada ya Sekondari	=7
Elimu ya Chuo Kikuu	=8
Elimu Baada ya Chuo Kikuu	=9

Mkuu wa Kaya: Jinsia(mume=1 mke=2): Umri: Kiwango Cha Elimu: Kazi Maalum:

Kazi Maalum :

Mtawala na Meneja	=01
Mtaalum	=02
Karani	=03
Muuzaji	=04
Mhudumu wa Ofisi	=05
Mkulima	=06
Mfugaji/Mvuvi	=07
Kibarua Mashambani	=08
Mfanyabiashara	=09
Kazi nyingine	=10

2.0 AINA YA SHAMBA. *(Jaza geresho linalostahili kwenye kisanduku)*

1. Mimea ya mazao tu
2. Mimea ya Mazao na Mifugo

3.0 ORODHA YA MASHAMBA NA MAKADIRIO YA MAENEO (Msimu wa Vuli):

3.1 Orodhesha mashamba yote ya kaya na makadirio ya maeneo yake ambayo yamelimwa

[illegible]

Nafaka:

11. Mahindi
12. Mpunga
13. Mtama
14. Uwele
15. Ulezi
16. Ngano
17. Shayiri

Mizizi na Tyuba:

21. Muhogo
22. Viazi vitamu
23. Viazi mviringo
24. Magimbi
25. Viazi vikuu
26. Vitunguu
27. Tangawizi

Jamii ya Kunde:

31. Maharagwe
32. Kunde
33. Choroko
34. Mbaazi
35. Dengu
36. Njugu mawe
37. Njegere

Mazo ya Mafuta:

41. Alizeti
42. Ufuta
43. Karanga
44. Mawese
45. Nazi
46. Korosho
47. Maharagwe ya Soya
48. Nyonyo

Mazoa ya Biashara:

50. Pamba
51. Tumbaku
52. Pareto
53. Mkonge
54. Kahawa
55. Chai
56. Kakao
57. Mpira
58. Miwati
59. Sufi
60. Miwa
61. Iliki
62. Jute

Matunda:

71. Ndizi
73. Maembe
74. Papai
75. Mananasi
76. Machungwa
77. Madalanzi
78. Zabibu
79. Machenza
80. Mapera
81. Plums
82. Ma-Apple
83. Pears
84. Peaches
85. Ndimu/Limao

Jamii ya Mboga:

86. Kabechi/Chinese
87. Nyanya
88. Spinachi
89. Caroti
90. Pilipili
91. Mchicha
92. Boga
93. Tango
94. Biringanya
95. Matikiti
96. Coliflower
99. Mazao mengine

Jina la Mjazaji: _____ Tarehe: _____ Sahihi: _____

Jina la Msimamizi: _____ Tarehe: _____ Sahihi: _____

Jina la Mhariri: _____ Tarehe: _____ Sahihi: _____



JAMHURI YA MUUNGANO WA TANZANIA

DODOSO 'IASQ-2' : MAKADIRIO YA MAVUNO (VULI), MAENEO (MASIKA) NA UTABIRI WA MAVUNO (MASIKA)

Kitengo cha Takwimu
Wizara ya Kilimo na Ushirika
S.L.P. 9192, Dar es Salaam
TANZANIA

Kidara ya Takwimu
Tume ya Mipango
S.L.P. 796, Dar es Salaam
TANZANIA

INTEGRATED AGRICULTURAL SURVEY (1997/98)

1.0 VITAMBULISHI

Mkoa: Wilaya: Kata: Kijiji: Balozi: Mkuu wa Kaya: Jinsia (mume=1 mke=2): Umri: Kiwango Cha Elimu: Kazi Maalum:

Kiwango cha Elimu :

Hakusoma	=1
Elimu ya Watu Wazima	=2
Hakumaliza Elimu ya Msingi	=3
Amemaliza Elimu ya Msingi	=4
Mafunzo Baada ya Elimu ya Msingi	=5
Amemaliza Elimu ya Sekondari	=6
Mafunzo Baada ya Sekondari	=7
Elimu ya Chuo Kikuu	=8
Elimu Baada ya Chuo Kikuu	=9

Kazi Maalum :

Mtawala na Meneja	=01
Mtaalamu	=02
Karani	=03
Muuzaji	=04
Mhudumu wa Ofisi	=05
Mkulima	=06
Mfugaji/Mvuvi	=07
Kibarua Machambani	=08
Mfanyabiashara	=09
Kazi nyingine	=10

2.0 AINA YA SHAMBA (Jaza geresho linalostahili kwenye kisanduku)

- 1 Mimea ya mazao tu
2 Mimea ya mazao na mifugo

3.0 MAKADIRIO YA MAVUNO (MSIMU WA VULI)

3.1 Je ulipanda mazao yoyote msimu wa vuli ?

- 1 Ndiyo
2 Hapana (nenda 4.1)

3.2 Je ulivuna mazao yoyote msimu wa vuli ?

- 1 Ndiyo
2 Hapana (nenda 3.4)

3.3 Mazao yaliyovunwa msimu huu wa kilimo?

	Geresho	Vipimo vya Kienyeji		Kipimo kimoja ni sawa na kilo ngapi?	Jumla ya mavuno katika kilo
		Jina	Idadi		
(1)	(2)	(3)	(4)	(5)	(6)

Nenda (4.0)

3.4 Ni sababu ipi kuu iliyofanya mazao yaliyotajwa mwanzo yasivunwe ?

- | | | | |
|---|-------------------------------|---|-------------------------------------|
| 1 | Ukame | 4 | Mazao yaliharibiwa na wadudu/ ndege |
| 2 | Mafuriko | 5 | Mengine (taja) _____ |
| 3 | Mazao yaliharibiwa na wanyama | | |

[illegible]

4.0 ORODHA YA MASHAMBA NA MAKADIRIO YA MAENEO (Msimu wa Masika):

4.1 Ulilima mashamba yoyote msimu huu wa masika?

- | | |
|---|--------|
| 1 | Ndiyo |
| 2 | Hapana |

Page 10

Orodhesha mashamba yote ya kaya na makadirio ya maeneo yake ambayo yamelimwa

[illegible]

5.0 UTABIRI WA MAVUNO (MASIKA)

5.1 Unategemea kuvuna mazao kiasi gani msimu huu?

[illegible]

GERESHO ZA MAZAO

Nafaka:

11. Mahindi
12. Mpunga
13. Mtama
14. Uwele
15. Ulezi
16. Ngano
17. Shayiri

Mizizi na Tyuba:

21. Muhogo
22. Viasi vitamu
23. Viasi mviringo
24. Magimbi
25. Viasi vikuu
26. Vitunguu
27. Tangawizi

Jamii ya Kunde:

31. Maharagwe
32. Kunde
33. Choroko
34. Mbaazi
35. Dertu
36. Njugu mawe
37. Njegere

Mazo ya Mafuta:

41. Alizeti
42. Ufuta
43. Karanga
44. Mawese
45. Nazi
46. Korosho
47. Maharagwe ya Soya
48. Nyonyo

Mazoa ya Biashara:

50. Pamba
51. Tumbaku
52. Pareto
53. Mkonge
54. Kahawa
55. Chai
56. Kakao
57. Mpira
58. Miwati
59. Sufi
60. Miwa
61. Iliki
62. Jute

Matunda:

71. Ndizi
73. Maembe
74. Papai
75. Mananasi
76. Machungwa
77. Madalanzi
78. Zabibu
79. Machenza
80. Mapera
81. Plums
82. Ma-Apple
83. Pears
84. Peaches
85. Ndimu/Limao

Jamii ya Mboga:

86. Kabechi/Chinese
87. Nyanya
88. Spinachi
89. Caroti
90. Pilipili
91. Mchicha
92. Boga
93. Tango
94. Biringanya
95. Matikiti
96. Coliflower
99. Mazao mengine

Jina la Mjazaji: _____

Tarehe: _____

Sahihi: _____

Jina la Msimamizi: _____

Tarehe: _____

Sahihi: _____

Jina la Mhariri: _____

Tarehe: _____

Sahihi: _____



JAMHURI YA MUUNGANO WA TANZANIA

DODOSO 'IASQ-3' : MAKADIRIO YA MAVUNO(MASIKA)NA SHUGHULI ZA KILIMO

Kitengo cha Takwimu
Wizara ya Kilimo na Ushirika
S.L.P. 9192, Dar es Salaam
TANZANIA

Idara ya Takwimu
Tume ya Mipango
S.L.P. 796, Dar es Salaam
TANZANIA

INTEGRATED AGRICULTURAL SURVEY (1997/98)

1.0 VITAMBULISHI

Mkoa: _____

Wilaya: _____

Kata: _____

Kijiji: _____

Balozi: _____

Mkuu wa Kaya: _____

Jinsia(mume=1 mke=2): _____

Umri: _____

Kiwango Cha Elimu: _____

Kazi Maalum: _____

Kiwango cha Elimu :

Hakusoma	=1
Elimu ya Watu Wazima	=2
Hakumaliza Elimu ya Msingi	=3
Amemaliza Elimu ya Msingi	=4
Mafunzo Baada ya Elimu ya Msingi	=5
Amemaliza Elimu ya Sekondari	=6
Mafunzo Baada ya Sekondari	=7
Elimu ya Chuo Kikuu	=8
Elimu Baada ya Chuo Kikuu	=9

Kazi Maalum :

Mtawala na Meneja	=01
Mtaalum	=02
Karani	=03
Muuzaji	=04
Mhudumu wa Ofisi	=05
Mkulima	=06
Mfugaji/Mvuvi	=07
Kibarua Mashambani	=08
Mfanyabiashara	=09
Kazi nyingine	=10

2.0 AINA YA SHAMBA. (Jaza geresho linalostahili kwenye kisanduku)

1. Mimea ya mazao tu
2. Mimea ya Mazao na Mifugo

2.1 Mbali na shughuli za kilimo zinazofanyika katika kaya hii, ni shughuli ipi iliy muhimu zaidi ya kluhumi inayafanyika ili kuongeza kipato cha kaya kifedha?

- 1 Hakuna
- 2 Kuvua samaki
- 3 Kupanda miti ya misitu
- 4 Kupasua mbao
- 5 Biashara ndogo ndogo
- 6 Useremala
- 7 Kutengeneza/kuuza pombe za kienyeji
- 8 Kutengeneza/kuuza sanaa (vinyago, vikapu, n.k.)
- 9 Nyingine (taja) -----

3.0 MAKADIRIO YA MAVUNO (MSIMU WA MASIKA)

3.1 Je ulivuma mazao yoyote msimu wa masika?

- 1 Ndiyo
- 2 Hapana (nenda 3.3)

3.2 Mazao yaliyovunwa msimu wa masika?

Zao	Geresho		Vipimo vya Kienyeji		Kipimo kimoja ni sawa na kilo ngapi?	Jumla ya mavuno katika kilo
			Jina	Idadi		
(1)	(2)		(3)	(4)	(5)	(6)

Nenda (4.0)

3.3 Ni sababu ipi kuu iliyofanya mazao yaliyotajwa mwanzo yasivunwe ?

- 1 Ukame
- 2 Mafuriko
- 3 Mazao yaliharibiwa na wanyama
- 4 Mazao yaliharibiwa na wadudu/ndege
- 5 Mengine (taja) -----

4.0 MATUMIZI YA UTAALAMU WA KILIMO

4.1 Je ulitumia mbolea za viwandani au samadi katika mashamba yako?

- 1 Ndiyo
- 2 Hapana (nenda 4.4)

4.2 Ulitumia mbolea ya aina gani?

- | | |
|-------------------------|--------------------------------|
| 1 Chumvichumvi | 2 Samadi |
| 3 Mboji | 4 Chumvichumvi na Samadi/Mboji |
| 5 Nyingine (taja) ----- | |

4.3 Ni kiasi gani cha mbolea za chumvichumvi ulichotumia? Kilo -----

4.4 Kwa nini hukutumia mbolea?

- | | |
|-----------------------------|--------------------------|
| 1 Ghali sana | 2 Sijui namna ya kutumia |
| 3 Inaharibu rutuba ya ardhi | 4 Haikupatikana |
| 5 Nyingine (taja) ----- | |

4.5 Ulitumia njia gani kupanda mbegu shambani mwako?

Zao	Geresho la zao	Geresho la njia iliyotumika
(1)	(2)	(3)

Geresho za Safiwima 3

- 1 Kusia (Broadcast)
- 2 Mashine ya kupandia:
- 3 Kupanda kwa mstari kwa mkono
- 4 Nyingine (taja) -----

5.0 HIFADHI YA MAZAO

5.1 Je, unahifadhi mazao yako?

- 1 Ndiyo
- 2 Hapana (nenda 6.0)

5.2 Aina ya mazao	Geresho	5.3 Aina ya ghala 1 Kienyeji 2 Ghala la kisasa 3 Nyumbani kwenye magunia	5.4 Unahifadhi mazao kwa muda gani? 1 Pungufu ya miezi mitatu 2 Miezi mitatu hadi sita 3 Zaidi ya miezi sita
(1)	(2)	(3)	(4)

5.5 Je unakinga mazao yako yasishambuliwe na wadudu yakiwa kwenye ghala?

1 Ndiyo

2 Hapana (nenda 6.1)

5.6 Unatumia mbinu gani kuinga mazao yako?

1 Madawa ya kisasa

2 Madawa ya kienyeji

6.0 MAUZO YA MAZAO YA KILIMO

6.1 Uliuza mazao yoyote msimu huu?

1 Ndiyo

2 Hapana (nenda 7.0)

6.2 Je, katika msimu huu wa kilimo ni wapi uliua zaidi bidhaa zako za kilimo?

1 Niliwauza majirani

2 Maduka ya hapa kijijini

3 Chama cha Ushirika

4 Soko la hapa Kijijini

5 Soko la mjini

6 Wafanyabiashara binafsi

7 Nyingine (taja) _____

6.3 Ulpata matatizo yoyote ya kuuza mazao yako msimu huu?

1 Ndiyo

2 Hapana (nenda 7.1)

6.4 Ni matatizo gani uliyapata wakati wa kuuza mazao yako?

- 1 Barabara mbovu
- 2 Hakuna usafiri
- 3 Hakuna mnunuzi
- 4 Hakuna magunia
- 5 Bei ndogo
- 6 Mengine (taja) -----

7.0 UPATIKANAJI WA MKOPO

7.1 Je, ulipata mkopo wowote wa kilimo msimu huu?

- 1 Ndiyo
- 2 Hapana (nenda 7.4)

7.2 Aina ya mkopo

- 1 Fedha taslimu
- 2 Pembejeo
- 3 Fedha na Pembejeo
- 4 Nyingine (taja) -----

7.3 Chanzo na kiasi cha mkopo uliopatikana

Na	Chanzo	Thamani ya mkopo (Tshs)
(1)	(2)	(3)
1	Watu/Kampuni binafsi	
2	Serikali	
3	Benki	
4	Chama cha ushirika	
5	NGO's	
6	Kingine (taja) -----	

7.4 Ni sababu zipi zilizofanya usipate mkopo wowote wa kilimo msimu huu?

- 1 Sikuhitaji
- 2 Hakuwepo mtoaji
- 3 Riba ilikuwa kubwa sana
- 4 Nyingine (taja) -----

8.0 CHANZO CHA MAPATO

8.1 Ni kipi kilikuwa chanzo kikuu cha mapato katika kaya yako msimu huu wa kilimo?

- | | |
|------------------------------------|-------------------------------|
| 1 Mauzo ya mazao | 5 Zawadi/msaada (Remittances) |
| 2 Mauzo ya mifugo/bidhaa za mifugo | 6 Kingine (taja) ----- |
| 3 Mshahara | |
| 4 Biashara | |

GERESHO ZA MAZAO

Nafaka:

11. Mahindi
12. Mpunga
13. Mtama
14. Uwele
15. Ulezi
16. Ngano
17. Shayiri

Jamil ya Kunde:

31. Maharagwe
32. Kunde
33. Choroko
34. Mbaazi
35. Dengu
36. Njugu mawe
37. Njegere

Mazoa ya Biashara:

50. Pamba
51. Tumbaku
52. Pareto
53. Mkonge
54. Kahawa
55. Chai
56. Kakao
57. Mpira
58. Miwati
59. Sufi
60. Miwa
61. Iliki
62. Jute

Matunda:

71. Ndizi
73. Maembe
74. Papai
75. Mananasi
76. Machungwa
77. Madalanzi
78. Zabibu
79. Machenza
80. Mapera
81. Plums
82. Ma-Apple
83. Pears
84. Peaches
85. Ndimu/Limao

Jamii ya Mboga:

86. Kabechi/Chinese
87. Nyanya
88. Spinachi
89. Caroti
90. Pilipili
91. Mchicha
92. Boga
93. Tango
94. Biringanya
95. Matikiti
96. Coliflower
99. Mazao mengine

Mizizi na Tyuba:

21. Muhogo
22. Viasi vitamu
23. Viasi mviringo
24. Magimbi
25. Viasi vikuu
26. Vitunguu
27. Tangawizi

Mazo ya Mafuta:

41. Alizeti
42. Ufuta
43. Karanga
44. Mawese
45. Nazi
46. Korosho
47. Maharagwe ya Soya
48. Nyonyo

Jina la Mjazaji: _____ Tarehe: _____ Sahihi: _____

Jina la Msimamizi: _____ Tarehe: _____ Sahihi: _____

Jina la Mhariri: _____ Tarehe: _____ Sahihi: _____

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