



The United Republic of Tanzania

ENERGY ACCESS SITUATION REPORT, 2016

TANZANIA MAINLAND



February 2017

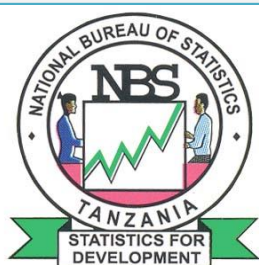


The United Republic of Tanzania

ENERGY ACCESS SITUATION REPORT, 2016

TANZANIA MAINLAND

February, 2017



CONTENTS

	PAGE
LIST OF TABLES	v
LIST OF FIGURES	x
LIST OF MAPS	xii
ACRONYMS	xiii
FOREWORD	xiv
EXECUTIVE SUMMARY	xv
CHAPTER ONE	1
1.0 Introduction.....	1
1.1 Background	1
1.2 Objective of the Survey.....	3
1.3 Coverage of the Survey	3
CHAPTER TWO	4
2.0 Survey Methodology	4
2.1 Introduction.....	4
2.2 Sample Design	4
2.3 Sample Size.....	4
2.4 Survey Instruments	5
2.5 Pre-testing and Pilot Test	6
2.6 Recruitment and Training of Field Staff	6
2.7 Field Work	7
2.8 Response Rate	7
2.9 Data Processing and Analysis	7
CHAPTER THREE	8
3.0 Demographic, Economic and Housing Characteristics	8
3.1 Introduction.....	8
3.2 Demographic Information.....	8
3.2.1 Composition of Household Members	8
3.2.2 Marital Status	9
3.2.3 Level of Education	11
3.2.4 Literacy Rate	12
3.3 Economic Activities and Daily Wages	13

3.3.1	Economic Activities and Daily Wages at Household level	13
3.3.2	Main Economic Activities at Community Level	18
3.4	Time Use and Women Involvement	19
3.5	Housing Characteristics, Water and Sanitation.....	26
3.5.1	Number of Sleeping Room	27
3.5.2	Wall, Flooring and Roofing Materials	28
3.5.3	Source of Drinking Water	28
3.5.4	Toilet Facilities	28
3.6	Tenure status of Main Dwelling.....	29
3.7	Assets Ownership.....	31
3.8	Business and Expenditure	34
CHAPTER FOUR.....		40
4.0	Household Connectivity and Use of Energy	40
4.1	Introduction.....	40
4.2	Electricity Connection.....	40
4.2.1	Households Connected to Electricity	41
4.2.2	Differentials among Regions	42
4.2.3	Sex Differentials of Head of Households	45
4.3	Sources of Energy	46
4.3.1	Mode of Payment for Electricity Connections.....	53
4.3.2	Billing System.....	56
4.3.3	Rural Electrification.....	57
4.3.4	Affordability of Electricity.....	59
4.3.5	Economic Status and Electrification	60
4.3.6	Education and Electrification.....	61
4.3.7	Income and Electrification	63
4.4	Financial Support for Paying Charges of Electricity Connection.....	64
4.5	Households' Perception on Quality and Connection of Electricity Services.....	66
4.6	Sources of Energy for Lighting.....	69
4.6.1	Comparison of Sources of Energy for Lighting in 2012 PHC and 2016 EASS	72
4.6.2	Trend of Sources of Energy for Lighting in Tanzania Mainland.....	74
4.7	Sources of Energy for Cooking.....	75
4.7.1	Comparison of Sources of Energy for Cooking in 2012 PHC and 2016 EASS	78
4.7.2	Trend of Sources of Energy for Cooking in Tanzania Mainland.....	79
4.7.3	Average Cost of Energy for Lighting and Cooking.....	80

CHAPTER FIVE	83
5.0 Availability of Social Services and Electricity Accessibility at Community Level	83
5.1 Introduction.....	83
5.2 Availability of Selected Social Services Facilities	83
5.2.1 Availability of Village/Mtaa Offices	83
5.2.2 Education Services	84
5.2.3 Health Services	85
5.2.4 Financial Services	85
5.2.5 Industry/Manufacturing and Related Services	86
5.2.6 Other Services	87
5.3 Access to Electricity.....	87
5.3.1 Introduction.....	87
5.3.2 Population Accessing Electricity	88
5.3.3 Accessibility of Electricity among Regions.....	89
5.3.4 Population Accessing Electricity by Sex	90
5.3.5 Population Not Accessing Electricity	91
5.4 Village/Mtaa Office with Electricity Connection	91
5.5 Alternative Source of Electricity for Majority of Households.....	92
5.6 Institutions Connected to Electricity by REA/TANESCO	93
5.7 Availability of Social Services.....	94
5.8 Cost of Transport	96
5.9 Investment Projects Implemented in 2015/2016.....	98
5.10 Availability and Cost of Alternative Energy Sold	99
CHAPTER SIX	102
6.0 Benefits and Impact of Rural Electrification	102
6.1 Introduction.....	102
6.2 Establishment of Small Scale Industries	107
6.3 Establishment of Business Activities and Business Operating Hours	109
6.4 Access to Mass Media through TV and Radio	112
6.5 Accessibility of Clean Water from electrified sources	114
6.6 Electricity and Income Growth, Increased Crop Productivity, Establishment of Businesses and Small Scale Industries.....	116
6.7 Availability of Electric Lighting for Students to Study	118
6.8 Influence of electrification on possession of mobile phones by household members	120

6.9	Charging mobile phones batteries	123
6.10	Employment Opportunities Created by REA/TANESCO Projects	125
6.10.1	Employment Opportunities Created by Other Projects.....	125
CHAPTER SEVEN.....		127
7.0	Policy Implications.....	127
7.1	Introduction	127
7.2	Social Dimension	127
7.2.1	Social Centers	128
7.2.2	Business Centers	128
7.3	Economic Dimension.....	128
7.3.1	Cost Effective Measures	129
7.4	Environmental Dimension	129
7.4.1	Environmental Pollution	129
7.5	Conclusion and Recommendations	130
7.5.1	Conclusion	130
7.5.2	Recommendations	130
Annex I: TABLES.....		132
Annex II: QUESTIONNAIRES		329

LIST OF TABLES

Table 3. 1:	Percentage Distribution of Households Members by Five Year Age Groups, Place of Residence and Sex.....	8
Table 3.2	Percentage Distribution of Household Members by Sex and Marital Status.....	11
Table 3.3:	Percentage Distribution of Members of Households Level of Education Attained by Sex and Place of Residence.....	12
Table 3.4:	Percentage Distribution of Household Members Aged 5 years and Above by Literacy, Sex and Place of Residence.	13
Table 3.5:	Percentage Distribution of Working Persons by Main Occupation, Place of Residence and Age Groups	14
Table 3.6:	Percentage Distribution of Working Persons by Main Occupation, Place of Residence, Sex, and Age Groups	15
Table 3.7:	Percentage Distribution of Working Persons by Nature of Usual Main Economic Activity, Place of Residence and Sex	16
Table3.8:	Percentage Distribution of Working Persons by Nature of Usual Main Economic Activity, Place of Residence and Age Group	17
Table 3.8a:	Percentage Distribution of Village/Mitaa by Main Economic Activities of Majority of People in the Community by Place of Residence	18
Table 3.8b:	Percentage Distribution of Villages/Mtaa by Main source of Daily wages by Place of Residence	19
Table 3.9:	Percentage Distribution of Household Members by Time spent to Collect Firewood in a Week by Region and Place of Residence.....	20
Table 3.10:	Percentage Distribution of Household Members by Region, Sex and Time Spent to Collect Firewood in a Week.....	21
Table 3.11:	Distribution of Household Members by Region, Sex and Time Spent to Prepare Food for Immediate Consumption at Day and Night Time	22
Table 3.12:	Percentage Distribution of Household Members by Region, Place of Residence and Actual Time Spent in Hours in a Day Taking Care of Children/Elders/Sick Household Members.....	23
Table 3.13:	Percentage Distribution of Household Members by Region, Place of Residence and Amount of Income Earned per Month	24
Table 3.14:	Percentage Distribution of Household by Region, Place of Residence and Person who Makes Decisions on the Use of Income	25
Table 3. 15:	Percentage Distribution of Households by Main Dwelling characteristics and Place of Residence.....	26
Table 3.16:	Percentage Distribution of Households by Tenure Status, Sex of Head of Households and Place of Residence.....	29
Table 3.17:	Percentage Distribution by Market value of Main dwelling and Place of Residence	30

Table 3.18:	Percentage Distribution of Households by Amount of Rent Paid per Month, Sex of Head of Households and Place of Residence.....	31
Table 3.19:	Percentage Distribution of Households by Ownership of Assets (Durables)	32
Table 3.20:	Percentage Distribution of Households by Ownership of Assets (Durables) and Market Value	33
Table 3.21:	Percentage Distribution of Households by Region and Main Source of Income	35
Table 3.22:	Percentage Distribution of Households by Place of Residence, sex of Head of Households and Main Source of Income	36
Table 3.23:	Percentage Distribution of Households by Region and Amount of Money Spent on Purchasing Food Consumed in Last 7 Days	37
Table 3.24:	Percentage Distribution of Households by Place of Residence, Sex of Head of Household and Amount of Money Spent on Purchasing Food Consumed in Last 7 Days.....	38
Table 3.25:	Percentage Distribution of Households by Place of Residence, Sex of Head of Households and Value of Food Consumed in the Household in last 7 Days from Gift/Other Way.....	38
Table 3.26:	Percentage Distribution of Households by Non-Food Items and Amount of Money Spent in last 12 Months.....	39
Table 4.1:	Percentage Distribution of Households Connected to Electricity by Region and Place of Residence.....	43
Table 4.2:	Percentage Distribution of Households Connected to Electricity by Region, Place of Residence and Sex.....	45
Table 4.3:	Percentage Distribution of Households Connected to Electricity by Region and Source of Energy	48
Table 4.4:	Percentage Distribution of Households Connected to Electricity by Region, Place of Residence and Source of Energy.....	52
Table 4.5:	Percentage Distribution of Households connected with Electricity by Year of Connection and Amount Paid for Connection	53
Table 4.6:	Percentage Distribution of Households with Electricity Connections by Year of Connection, Place of Residence and Mode of Payment	54
Table 4.7:	Percentage Distribution of Households with Electricity Connections by Amount Paid for Connection, Place of Residence and Mode of Payment.....	55
Table 4.8:	Percentage Distribution of Households with Electricity by Year Connected, Place of Residence and Whether Assisted in Paying for Connection	55
Table 4.9:	Percentage Distribution of Households Connected with Electricity by Year Connected, Place of Residence and Waiting Time Before Connection was Made.....	56
Table 4.10:	Percentage Distribution of Households Connected with Electricity by Year Connected, Place of Residence and Type of Billing System	57

Table 4.11:	Percentage Distribution of Rural Households Connected with Electricity by Region and Main Source of Electricity	59
Table 4.12:	Percentage Distribution of households by Main Occupation and Whether Connected to Electricity	60
Table 4.13:	Percentage Distribution of Households Connected to Electricity by Main Occupation and Place of Residence	61
Table 4.14:	Percentage Distribution of Households by Level of Education of Head of Household and Whether Connected to Electricity	62
Table 4.15:	Percentage Distribution of Households Connected to Electricity by Level of Education of Head of Household and Place of Residence	62
Table 4.16:	Percentage Distribution of Households by Monthly Income and Whether Connected to Electricity	63
Table 4.17:	Percentage Distribution of Households Connected to Electricity by Monthly Income, Place of Residence and Frequency of Payment for Connection bill	64
Table 4.18:	Percentage Distribution of Households Connected to Electricity by Main Occupation, Place of Residence and Whether had Received Assistance to Pay Connection Charges	65
Table 4.19:	Percentage Distribution of Households Connected to Electricity by Monthly Income, Place of Residence and Whether had received Assistance to Pay Connection Bill	66
Table 4.20:	Percentage Distribution of Households by Place of Residence, Region, Wealth Quintile and Sources of Energy for Lighting	71
Table 4.20 a:	Percentage Distribution of Households by Region and Sources of Energy for Lighting	73
Table 4.20 b:	Percentage Distribution of Household by Sources of Energy for Lighting; Tanzania Mainland; 2001, 2002, 2007, 2011, 2012, and 2016	74
Table 4. 21:	Percentage Distribution of Households by Place of Residence, Region, Wealth Quintile and Sources of Energy for Cooking	77
Table 4.21 a:	Percentage Distribution of Households by Region and Sources of Energy for Cooking	79
Table 4.21 b:	Percentage Distribution of Households by Sources of Energy for Cooking; Tanzania Mainland; 2000/01, 2002, 2007, 2011/12 and 2016.....	80
Table 4.22:	Average Cost per Month (Paid by Households) by Place of Residence, Region and Source of Energy for Lighting	81
Table 4.23:	Average Cost per Month (Paid by Households) by Place of Residence, Region and Source of Energy for Cooking	82
Table 5.1:	Percentage Distribution of Other Services Found in Communities	87
Table 5.2:	Percentage Distribution of Population Accessing Grid Electricity by Region and Place of Residence.....	89

Table 5.3:	Percentage Distribution of Population Accessing Grid Electricity by Region, Place of Residence and Sex	90
Table 5.4:	Percentage Distribution of Villages/Mtaa and Whether Village/Mtaa Office is Connected to Grid Electricity	92
Table 5.5:	Status of Electricity Connection for Institutions/Offices/Business/Workshop Centers/Services; Tanzania Mainland	93
Table 5.6:	Percentage Distribution of Villages/Streets by Type of Infrastructure/Services and Distance from the Village/Mtaa	95
Table 5.7:	Distribution of Villages/Mtaa by Type of Infrastructure/Services and Cost of Transport from and to Village/Mtaa using Public Transport.....	97
Table 5.8:	Percentage Distribution of Projects Implemented at Community Level in 2015/16.....	99
Table 5.9:	Distribution of Villages/Mtaa by Type of Energy Sources Sold and Market Prices at Village/Mtaa Level	101
Table 5.10:	Distribution of Villages/Mtaa by Type of Energy Sources Sold and Market Prices (TZS) at District Headquarters Level	101
Table 6.1:	Distribution of Households by Region and Whether Accessibility of Electricity has Shortened Distances Travelled by Household Members To/From Grain Grinding/Milling Machines	103
Table 6.1a:	Distribution of Households by Region and Sex of Heads on Whether Accessibility of Electricity has Shortened Distances Travelled To/From Grain Grinding/Milling Machines.....	104
Table 6.1b:	Distribution of Households by Region, Place of Residence and Sex of Heads on Whether Accessibility of Electricity has Shortened Distances Travelled To/From Grain Grinding/Milling Machines	106
Table 6. 2:	Distribution of Household by Region, Place of Residence and Sex of Heads with Perception on Increased Establishment of Small Scale Industries as a Result of Accessibility of Electricity	108
Table 6. 3:	Distribution of Households by Region, Sex of Heads and Whether Accessibility of Electricity Has Increased Establishment of Business Activities Including Increasing Business Operating Hours in the Evening	110
Table 6.3 a:	Distribution of Households by Region, Place of Residence, Sex of Heads and whether Accessibility of Electricity has Increased Establishment of Business Activities Including Increasing Business Operating Hours in the Evening.....	111
Table 6.4:	Distribution of Households by Region, Sex of Heads and Whether Accessibility of Electricity Increased Access of Mass Media through TV and radio	113
Table 6.5:	Distribution of Households by Region, Sex of Heads and their Opinions on Whether Accessibility of Clean Water Increased from Electric Powered Wells.....	114

Table 6.5 a:	Distribution of Households by Region, Place of Residence, Sex of Heads and their Opinions on Whether Accessibility of Clean Water Increased from Electric Powered Wells.	115
Table 6.6:	Distribution of Households by Region, Sex of Heads and their Opinion on Availability of Electricity Contributed to Income Growth of Household Members due to Increased Crop Productivity, Establishment of Businesses and Small Scale Industries	117
Table 6.7:	Distribution of Households by Region, Sex of Heads Place of Residence and their Views that Availability of Electric Lighting Made Students Study More Comfortably after Darkness.....	119
Table 6.8:	Percentage Distribution of Household Members by Region, Place of Residence, Sex of Heads and Ownership of Mobile Phones	121
Table 6.9:	Percentage Distribution of Household members by Region, Place of Residence and Mobile Phone Charging Places	124
Table 6.10:	Percentage Distribution of Other Implemented Projects on Whether Created Temporary/Permanent Employment Opportunities	126

LIST OF FIGURES

Figure 3.1:	Percentage Distribution of Household Members by Sex and Age group	9
Figure 3.2:	Percentage Distribution of Household Members by Sex and Marital Status	10
Figure 3.3:	Percentage Distribution of Male and Female Headed Households by Place of Residence	30
Figure 3.4:	Percentage Distributions of Households by Main Source of Income	34
Figure 4.1:	Percentage Distribution of Households Connected to Electricity of Any Form by Place of Residence, Tanzania Mainland; 2016.....	40
Figure 4.2:	Percentage Distribution of Household Connected to Electricity of Any Form in Rural Areas; 2011, 2012 and 2016.....	41
Figure 4.3:	Percentage Distribution of Electrification of Main Dwellings by Place of Residence (Rural and Urban)	42
Figure 4.4:	Percentage Distribution of Households Connected to Electricity by Main Source of Energy; Tanzania Mainland.....	47
Figure 4.4a:	Percentage Distribution of Rural Households Connected to Electricity by Main Source of Energy	47
Figure 4.4b:	Percentage Distribution of Households Connected to Electricity by Source of Energy and Place of Residence.....	51
Figure 4.5:	Percentage Distribution of Households Connected with Electricity by Place of Residence and Main Source of Electricity.....	58
Figure 4.8:	Percentage Distribution of Households connected to Electricity by Monthly Income and Place of Residence.....	63
Figure 4.9:	Perception of Households on the Quality of Electricity Services Supplied by Place of Residence	67
Figure 4.10:	Perception of Households on Electricity Interruptions/Cut off by Place of Residence	67
Figure 4.11:	Perceptions of Households on Electricity Connection Charges by Place of Residence	68
Figure 4.12:	Perception of Households on the Monthly Electricity Bills by Place of Residence	69
Figure 4.13:	Trend of Percentage of Households by Sources of Energy for Lighting, Tanzania Mainland; 2000/01, 2002, 2007, 2011/12, 2012 and 2016.....	75
Figure 5.1:	Percentage Distribution of Villages/Mtaa Offices by Place of Residence.....	84
Figure 5.2:	Percentage Distribution of Education Facilities by Place of Residence	84
Figure 5.3:	Percentage Distribution of Health Facilities by Place of Residence	85
Figure 5.4:	Percentage Distribution of Financial Services by Place of Residence.....	86
Figure 5.5:	Percentage Distribution of Industry/Manufacturing and Related Services by Place of Residence	86

Figure 5.6:	Percentage Distribution of Population Accessing and Not Accessing Grid Electricity by Place of Residence	88
Figure 5.7:	Population Not Accessing Grid Electricity by Place of Residence.....	91
Figure 5.6:	Village/Mtaa Office Electricity Connection	91
Figure 5.7:	Percentage Distribution of Village/Mtaa Leaders Responses on the Type of Alternative Sources of Electricity used by the Majority of Households by Place of Residence	92
Figure 5.10:	Distribution of Village/Mtaa by Sources of Alternative Energy Sold	100
Figure 6. 1:	Percentage Distribution of Rural and Urban Household Members Shown Reduced Distances to Grain Mill Facilities, 2016.....	107
Figure 6.2:	Percentage Distribution of Rural Households with the Opinion that Accessibility of Electricity has Increased Establishment of Business Activities Including Increasing Business Operating Hours in The Evening.....	112
Figure 6.3:	Correlation Between Percentage of Households Connected to Electricity and Household Members Owning Mobile Phones by Region	122
Figure 6.4:	Distribution of Village/Mtaa by Number of Employment Opportunities Created by REA/TANESCO Projects in 2015/16.....	125

LIST OF MAPS

Map 4.1:	Percentage Distribution of Households Connected to Electricity by Region ..	44
Map 4.2:	Percentage Distribution of Households Connected to Grid Electricity by Region	49
Map 4.3:	Percentage Distribution of Households using Solar power Electricity by Region	50

ACRONYMS

ATM	Automatic Teller Machine
CD	Compact Disc
DP	Development Partners
DVD	Digital Versatile Disc
EAs	Enumeration Areas
EASS	Energy Access Situation Survey
EASTC	Eastern Africa Statistics Training Centre
GPS	Global Positioning System
HH	Household
ISCO	International Standard Classification of Occupations
LUKU	Lipa Umeme Kadri Utumiavyo
M-PESA	Money - Pesa
NBS	National Bureau of Statistics
NGO	Non- Government Organization
PHC	Population Housing Census
PPS	Probability Proportional to Size
PSUs	Primary Sampling Units
REA	Rural Energy Agency
REB	Rural Energy Board
REF	Rural Energy Fund
SACCOS	Savings and Credit Cooperative Society
SDGs	Sustainable Development Goals
SPSS	Statistical Package for Social Scientists
SSUs	Sampling Units
TANESCO	Tanzania Electric Supply Company
TASCO	Tanzania Standard Classification of Occupations
TV	Television
TZS	Tanzania Shillings

FOREWORD

This Survey Report is the second product of the Rural Energy Agency (REA) under the Ministry of Energy and Minerals. The first one was conducted in 2011 aimed at providing baseline data on the access and use of energy in Tanzania Mainland. The current survey reveals the five years performance done by REA and TANESCO in collaboration with other stakeholders on the access and use of energy in Tanzania Mainland. The successful completion of this work is the result of the joint effort done by REA and the National Bureau of Statistics (NBS) together with the Ministry of Energy and Minerals.

REA and other stakeholders in the energy sector are now in a position to use the results in this report, basically on the preparation of another five year strategic plan targeting the implementation of rural energy projects. The 2016 report is more detailed than that of 2011 highlighting the current energy situation in the rural areas in terms of level of electrification, affordability, perceptions of households, benefits and impact of electrification and sources of energy for lighting and cooking. The Report focuses more on the rural part which is the objective of establishment REA in Tanzania Mainland.

The importance of energy in different socio-economic sectors should be re-emphasized in the current global situation as a driving factor for the production life circle. Understanding the country's desire of achieving industrialized economy by 2020, knowing the current status of accessibility and use of energy is paramount important to our nation. In this regard, the report will enable REA and other stakeholders review the accepted set of energy indicators defined in our different programs and those localised from the international agenda of Sustainable Development Goals (SDGs) for achieving sustainable development of the country.

The successful completion of this Survey Report owes much to the Technical Team whose members come from the National Bureau of Statistics and Rural Energy Agency. I would like to express my appreciation to the Team for their dedication and commitment which has led to the finalization of this Report. In this respect, all comments, suggestions and recommendations regarding this report should be sent to the Director General through email address info@rea.go.tz

Eng.Gissima B.Nyamo-Hanga

Director General

Rural Energy Agency

EXECUTIVE SUMMARY

This report represents the findings obtained from the 2016 energy access situation survey which covered all 26 regions of the Tanzania Mainland. In order to evaluate the current status of energy access and use, the Rural Energy Agency (REA) on behalf of the Government of Tanzania, commissioned the National Bureau of Statistics (NBS) to examine the performance so far made in the last five years of implementation. The 2016 Energy Access Situation Survey (EASS) collected data at both community and private household levels in all 26 regions of the Tanzania Mainland.

The main objective of the survey was to gather relevant information on energy access situation at community and household level in all 26 regions of the Tanzania Mainland. The collected data will be used to review the accepted targets activities and implementation approaches in order to come up with other medium strategic plan, monitoring, and evaluation framework indicators of rural electrification in the country. Other specific tasks of the survey were to examine:

- a. Information of households on demographics, amenities, asset, income and expenditure;
- b. Electrification and household ability and willingness to pay for electricity connection and monthly electricity bill;
- c. Sources of energy used for lighting, cooking and other productive uses including average costs involved for each source of energy used by the households;
- d. Quantity of energy used for lighting, cooking and other uses, amount spent for the purpose per month per household as well as appliance ownership;
- e. Household electric appliance ownership;
- f. Benefits and impact of rural electrification;
- g. Time use information;
- h. Perception of the households on various aspect of electricity;
- i. Economic activities, development programs related to electricity access, NGO activities, infrastructure and daily wages at the surveyed community; and
- j. Availability and prices of alternate fuels at the surveyed communities.

Key Findings

Level of Household Connected to Electricity in Rural and Urban areas

The level of connecting households to electricity in the rural areas has increased significantly in the last five years, though is still very low compared to urban areas in Tanzania Mainland. The 2016 survey results indicate that 16.9 percent of the rural households in Tanzania Mainland were connected to electricity of any form compared to 65.3 percent of their counterparts in urban areas. However, the level of connecting households to electricity in rural areas of Rukwa region is still worse since only three percent of its rural households were electrified to any form of electricity. Survey findings also show the regions that their rural households electrified with any form of electricity less than 10 percent were Songwe (6.0 percent), Kigoma (6.7 percent), Shinyanga (7.0 percent), Simiyu (9.3 percent) and Manyara (9.4 percent).

Level of Household Connected to Electricity in Tanzania Mainland

The Survey (2016) findings show that, of all households in Tanzania Mainland, 32.8 percent were electrified with any form of electricity. Of the electrified households, 74.9 percent receiving electricity supplied through grid, 24.7 percent electrified by solar power and 0.3 percent of the electrified households in the Tanzania Mainland using electricity generated from private entity/individual owned sources (excluding solar). Rural and urban households connected to grid electricity were 34.5 and 96.4 percent respectively.

The best regions with 80 percent and above of their households connected to grid electricity were Dar es Salaam (99.3 percent), Rukwa (91.2 percent), Kilimanjaro (88.0 percent), Kigoma (82.4 percent) and Arusha (81.3 percent). Regions with less than 40 percent of their households connected to grid electricity were Lindi (24.5 percent), Njombe (36.6 percent) and Mtwara (38.9 percent). The highest proportion of households electrified with solar power ranging from 50.0 percent to 75.5 percent were recorded in Dodoma (54.3 percent), Ruvuma (54.7 percent), Katavi (57.6 percent), Mtwara (61.1 percent), Njombe (63.4 percent) and Lindi (75.5 percent). Regions with the smallest proportion of households of less than 20 percent who were using electricity generated from solar power were Dar es Salaam (0.7 percent), Rukwa (8.8 percent), Kilimanjaro (11.4 percent), Kigoma (15.9 percent), Arusha (18.7 percent), Morogoro (18.9 percent) and Mbeya (19.5 percent)..

Population Accessing Electricity

The 2016 Energy Access Situation Survey collected information on accessibility of grid electricity at community level. Findings show that, overall, 67.5 percent of the Tanzania Mainland population had access to grid electricity with rural (49.3 percent) and urban (97.3 percent). The best regions with 80 percent and above of their population had access to grid electricity were Dar es Salaam (100 percent), Kilimanjaro (91.7 percent), Mbeya (86.0 percent), Pwani (80.4 percent) and Arusha (80.0 percent). Among the regions with less than fifty percent of their population

accessing grid electricity, Rukwa was the last region (43.8 percent) followed by Shinyanga (45.0 percent), Songwe (45.2 percent), Kigoma (46.0 percent), Mtwara (46.4 percent), Ruvuma (48.0 percent) and Manyara (49.4 percent).

Looking at rural - urban areas, survey findings show that fifteen (15) regions had less than 50 percent of their rural population which had access to grid electricity. Of the regions, the most disadvantaged with less than thirty percent of their rural population had access to grid electricity were Rukwa (15.4 percent), Shinyanga (23.4 percent), Songwe (24.5 percent), Kigoma (27.8 percent) and Mtwara (29.2 percent) respectively. Urban area of Katavi had the lowest proportion of population (70.6 percent) accessing grid electricity in Tanzania Mainland.

Affordability of Electricity

The combination of both crossed energy and sectoral interdependences show energy dependence on most economic sectors. Households with salaried were connected to electricity sources at 67.8 percent followed by those wage labourer in forest products heads household (62.2 percent) and households headed by transport owners (56.8 percent) compared to households in other sectors. Likewise, survey findings reveal that, the more the household head is educated, the more the household is connected to electricity as well as the proportion of households connected to any electricity was increasing with increase of monthly income.

Household Perception on Quality and Connection Charges of Electricity Services

Findings on households' perception on services provided by REA/TANESCO rated that the quality of power supplied to their houses was fair (59 percent) with 46 percent for rural households and 62 percent for urban households. Only small proportion (4 percent) of the electrified households rated as very good (8 percent of the rural households and 3 percent urban households). Insignificant percentage (2 percent) of electrified households in Tanzania Mainland, rural and urban areas said that the service was very poor.

Furthermore, survey findings also reveal that large proportion of households (39 percent) in Tanzania Mainland (52 percent in rural areas and 37 percent urban areas) felt that the connection costs were just moderate, while 8 percent of the electrified rural household felt that the connection charges are low and only 2 percent in urban areas regarded the connection charges as low. However, significant percentage of households felt that the connection charges were still high (37 percent for urban and 19 percent for rural households). Of note is the difference in rural and urban areas in the opinion that electricity charges are high. Urban households are almost twice as those of in rural areas.

Household Perception on Benefits and Impact of Electrification

It is observed that 70.8 percent of heads of households in Tanzania Mainland agreed that electrification shortened distances travelled to/from grinding/milling machines. Heads of households who agreed on small-scale industries were more in urban (71.5 percent) than in rural (42.5 percent). Furthermore 70.3 percent of both male and female-headed households supported the opinion that business activities and business operating hours was increased by accessibility of electricity. On the other hand, 75.9 percent of both male and female headed households agreed on accessibility of electricity increased access to mass media through TV and radio. The concept of accessibility of clean water from electrified sources increased due to accessibility of electricity was supported by 41.6 percent of heads of households in Tanzania Mainland. The opinion of availability of electric lighting enabled students studying after sun set was supported by 72.1 percent of heads of households in both in rural and urban areas.

Sources of Energy for Lighting

One-quarter of Tanzania Mainland households (25.1 percent) are now using electricity as one of the sources of energy for lighting. Use of electricity for lighting is more pronounced in urban households (63.1 percent) than rural households (6.6 percent). A variation in the use of electricity as one of the sources of energy for lighting were seen among the regions ranging from 74.6 percent in Dar es Salaam and 37.7 percent in Kilimanjaro to 5.4 percent in Lindi region. Eight percent of households use solar energy as one of the sources of energy for lighting. The use of solar is higher in households in the rural areas (10.5 percent) than those in urban areas (3.1 percent). At regional level, solar is more common in Njombe (32.7 percent) and least common in Dar es Salaam (1.3 percent). It is important also to note that households in Lindi, Njombe and Katavi regions, the use of solar as the source of energy for lighting is higher than the use of electricity.

Other noted survey findings are the growing use of re-chargeable lights and the use of kerosene as the sources of energy for lighting. The shift from using kerosene could be attributed to the recent increase in the price for kerosene. Forty five percent of households in Tanzania Mainland use re-chargeable lights compared to 22.3 percent that use kerosene as one of the sources of energy for lighting. 54.4 percent of households in rural areas use rechargeable sources of lights and 24.3 percent use kerosene as one of the source of energy for lighting while only 26.6 percent of households in urban areas use rechargeable sources and 18.1 percent use kerosene. Other sources of energy for lighting (generators, candles, firewood, and charcoals) are used by less than 2 percent of the households as among the sources of energy for lighting.

Sources of Energy for Cooking

The use of firewood as the source of energy for cooking is still predominant in Tanzania Mainland as 71.2 percent of households use firewood as one among the sources of energy for cooking, followed by charcoal (37.0 percent) and kerosene (5.0 percent). The use of firewood is more dominant to rural households (92.0 percent) compared to urban households (28.4 percent). On the other hand, the use of modern source of energy for cooking (electricity, bio and industrial gas, and solar) by households accounts for only one percent.

At regional level, households in Dar es Salaam lead in the use of kerosene (22.1 percent), industrial gas (26.7 percent) and charcoal (88.2 percent). Households in Simiyu region lead in the use of firewood (94.3 percent) and those in Dar es Salaam region were the least in using firewood (14.3 percent) as one among the sources of energy for cooking.

CHAPTER ONE

1.0 Introduction

1.1 Background

Energy is fundamental to the quality of human life. Nowadays, we are totally dependent on an abundant and uninterrupted supply of energy for living and working. It is a key ingredient in all sectors of modern economies. The majority of rural Tanzanians have limited access to modern energy services. The government views that rural Tanzania cannot be transformed into a modern economy and that rural Tanzanians' livelihoods cannot be improved significantly without a dramatic improvement in their access to modern energy services.

To cope with changes in political, economic and social transition by both nationally and internationally, Tanzania formulated its first National Energy Policy in 1992 as part of the overall socio-economic reforms which the Government had embarked on in 1990s. In 2015, the National Energy Policy of 1992 was revised which aimed at liberalizing the sector to respond to new challenges in the energy sector. The overall long-term objective of the policy was to establish an efficient and reliable energy production, procurement, transportation storage, distribution, and end-user systems in an environmentally sound manner with due regard to gender issues for sustainable socio-economic transformation.

Moreover, the National Energy Policy of 2015 set out strategies to ensure availability of reliable and affordable energy supplies. It also embarked on promoting efficient energy use in order to support national development goals. The policy recognized that the main thrust had to be based on private initiatives and investments for exploitation of local energy sources. Therefore, the policy laid down an entirely new approach to modern energy in rural areas of Tanzania and the government committed itself to develop and implement the new strategy to address modern energy needs of over 85 percent of Tanzanians living in rural areas.

Since 2003, the Government implemented several reforms that aimed at improving sector governance and performance. As a result, the sector has registered an unprecedented demand for modern energy, change in technologies and priority shift in the use of energy resources. Despite the policies revision and reforms, the performance of the energy sector remained relatively below the desired levels.

An improved energy supply in the rural areas through public and private sector participation will contribute significantly in improving the livelihood of the rural population and the attainment of sustainable economic growth. For these reasons, the Rural Energy Board (REB), the Rural Energy Agency (REA), and the Rural Energy Fund (REF) were established and entrusted with the role of

promoting, stimulating and facilitating improved access to modern energy services in rural areas through empowering both public and private sector initiatives in rural energy.

Modern energy, particularly electricity services, plays a key role in rural development with respect to the country's goal of achieving small and middle industrialized economy. The access to affordable, reliable and safe electricity can greatly improve food, education and health services, as well as improve opportunities for income generation as well as speeding up economic growth.

Lack of access to electricity is one of the major impediments to growth and development of the rural economies in most of developing countries, including Tanzania. This necessitates the need to access modern energy in rural areas, particularly electricity. This has been one of the priority areas of improvement for the government of Tanzania, leading to the establishment of Rural Energy Agency (REA). The main objective of establishing REA is to promote and facilitate availability and access to modern energy services in rural Tanzania Mainland.

The Government of Tanzania has all along engaged itself in the restructuring of its electricity sector (Electricity Act 2008) with the following overarching principles for Rural Electrification:

- a) Defining Rural Electrification Plan and Strategies focusing on Grid expansion and the development of off-grid electricity supply systems in rural areas including new and renewable energy systems;
- b) Establishing and maintaining a rural electrification database to assist in the monitoring of progress and establishment of the targets of rural electrification;
- c) Defining framework for adopting specific policies and imposes requirements, levies, relief and regulations for the promotion and development of rural electrification in accordance to the Rural Energy Act;
- d) Defining new financing mechanisms for rural electrification, including modalities of public-private partnerships; and
- e) Promoting of new actors so as to ensure maximized distribution and therefore access to modern energy services to local communities.

Thus, the 2016 Energy Access Situation Survey findings facilitate useful information regarding the state of electricity access in the country. Likewise, the survey findings have household information on demographic and socio-economic characteristics, benefits and impact of rural electrification as well as household perceptions. At community level, the survey findings has information on availability of grid or off-grid electricity and other sources of energy, availability

of social services infrastructures, existence of investment projects, NGO activities, employment opportunities created through investment projects and sources of alternative energies.

1.2 Objective of the Survey

The main objective of the survey is to collect data at household and community level, which will be used to establish useful information regarding state of electricity access in the country. The data will also be used to monitor, evaluate progress and impact of rural electrification (grid and off-grid) efforts in the country. In addition, the data will be used to support the planning for rural electrification for both grid and off-grid and for the upcoming rural electrification project(s) in the country.

1.3 Coverage of the Survey

Energy Access Situation Survey 2016 collected information on a wide range of community, household and individual characteristics. Many indicators that are central to energy access and use in Tanzania Mainland have been captured.

Energy Access Situation Survey (2016) collected information using two questionnaires, namely household and community questionnaires, which were deployed, in all 26 regions of Tanzania Mainland. This Survey covered 676 enumeration areas in the Tanzania Mainland interviewing 10,140 households.

CHAPTER TWO

2.0 Survey Methodology

2.1 Introduction

The Energy Access Situation Survey (2016) was designed to employ pathway framework to identify the linkages of rural electrification with household indicators of welfare. Additionally, the survey used data collection scheme, which followed the pathway for development through electrification. Hence, the sample frame was designed to be consistent with the estimation strategy for assessing the impacts as well as within the budget, allowing for adequate statistical inferences.

2.2 Sample Design

The survey utilized a two-stage sampling design. The primary sampling units (PSUs) were the enumeration areas (EAs) and the secondary sampling units (SSUs) were the households.

The **first stage** involved the selection of urban and rural enumeration areas (EAs) from the frame used in the 2012 Population and Housing Census for each administrative region in Tanzania Mainland. The EAs were selected using a Probability Proportional to Size (PPS) procedure. The measure of size for the EAs was the HOUSEHOLD.

The **second stage** involved the selection of households from all the selected EAs. A listing form was used to list all private households in the selected EAs in chronological order to avoid clustering when drawing households. The households to be interviewed were selected using an EPSEM (equally probability selection) procedure with a total of 15 households being selected in each selected cluster (EA). The households systematically selected throughout the EA using a serpentine approach. However, the sample design derived a representative sample of the main domains of interest at National (Urban/Rural) and regional level for Tanzania Mainland.

2.3 Sample Size

Using the energy data from the 2012 Population and Housing Census and the 2011/12 Household Budget Survey, and ensuring a relative error margin of at most 5 percent at the 95 percent confidence level, a proportion of households energy use by type was obtained. Then the sample size that would provide regional estimates was determined. At first stage, 676 EAs were selected from NBS's geographical frame and 10,140 private households (15 households in each selected EA). In the second stage, households were selected using systematic simple random from list of households in the selected EA after listing of head of households for each EA.

The sample focused on Tanzania Mainland and covered all 26 regions. Global Positioning System (GPS) was also used to capture geographical coordinates to ensure that follow up surveys of the

same responding households and communities could be carried out during the mid-term and after rural electrification is completed. In addition, the GPS coordinates were used to facilitate identification of households and communities with and without access to grid and/or off-grid electricity.

2.4 Survey Instruments

Two types of data collection instruments were used for the purpose of soliciting information from both private households and leaders and influential persons in the selected villages/Streets. The following instruments were administered in this survey:

i) Instrument A: Household Questionnaire

The Household Questionnaire consisted of the following sections:

- a) Household demographic characteristics;
- b) Economic activities of household members;
- c) Housing, water, and sanitation;
- d) Electricity connectivity, consumption, and willingness of paying, expenditure on energy and use of electric appliances;
- e) Benefits and impacts of electricity;
- f) Assets and ownership;
- g) Time use and women involvement;
- h) Mobile phone use and expenditure; and
- i) Households' perception on electricity issues.

The Household Questionnaire was administered to private households. The head of the household or adult representative was asked to answer questions on his/her behalf as well as on behalf of his/her household members. The information that was collected was confidential.

ii) Instrument B: Community Questionnaire

The Community Questionnaire was used to collect information at village/Street level. The main respondent was either the Village/Street leader or any responsible and knowledgeable person. Specifically, interviewers were instructed to have a group of knowledgeable persons within the vicinity who were familiar with the village/Street. The questionnaire had the following sections:

- a) Electricity connections and population;
- b) Infrastructures, services and electricity access;
- c) Investment projects, NGOs activities and employment generated through investments projects;
- d) Economic activities and daily wages; and
- e) Market prices of alternative energies.

2.5 Pre-testing and Pilot Test

Pre-testing is a key component of any major data collection survey. It provides a test case as to what to expect in the actual survey, what changes need to be made in the questionnaires to capture the desired information more accurately, and how to conduct the actual survey more efficiently. In other words, a pre-test is essential that would provide an insight whether the flow of questions is proper, the questions are designed well to derive the expected responses and whether the skip pattern is in order. Moreover, the purpose of conducting a pilot study is to get manpower required to complete the entire exercise and resource requirement. Regarding to this and limited resources, pre-testing and pilot test concurrently conducted in Pwani region by involving four enumeration areas (EAs). Three EAs were in Kisarawe District Council and one in Kibaha District Council. Sixty questionnaires were administered through interviewing 60 households on the average of 15 households per EA.

2.6 Recruitment and Training of Field Staff

Recruitment of highly qualified field personnel is a pre-requisite to collecting high quality data in any survey or census. In this regard, special consideration was made by recruiting not only experienced personnel in the field data collection exercise but also mature persons who would be able to handle interviews with different types of household members and village/street leadership at minimal supervision.

The process of recruiting energy access situation survey data collectors was done in August 2016 and involved two institutions, National Bureau of Statistics (NBS) and Eastern Africa Statistics Training Centre (EASTC). With the aim of obtaining high quality data, NBS decided to use students from EASTC who have undergone training in statistical operations including data collection techniques. In this respect, a total of 150 students were trained for seven days at EASTC. Basing on their examinations and fieldwork performances, attendance as well as general behavior of a particular student, 130 students qualified to be data collectors. The training of these data collectors was done at different stages. The first stage involved training on how to administer the household and community questionnaires. The second stage concentrated on how to list households and the use of Global Position System (GPS) equipment on how to capture and record coordinates of a particular survey village/street. The third stage involved training enumerators on how to manage questionnaire uploaded in the mobile phones as a new technology adapted in data capturing.

On the last day of the training, NBS survey core team, in collaboration with IT department staff of EASTC, allocated the 130 enumerators into 26 regions of Tanzania Mainland. Five enumerators and one supervisor were distributed to cover the enumeration process in each region. The

Regional Statistical Manager was assigned to supervisor the five enumerators in his/her respective region.

2.7 Field Work

Mobile technology was the mode of collecting data in Energy Access Situation Survey. The App. system used to collect the data is capable to work on offline mode (without the use of constant access to the internet). With this system all the skip patterns, instructions and conditions were inbuilt into the system thus minimizing the workload on data cleaning. Each enumerator was assigned to access the questionnaires both household and community questionnaire. The questionnaires were downloaded/synchronized and stored in their android mobile phones.

Enumerator would log in and start a survey and upon completion, enumerator would submit the data collected and immediately it would be received in the server. In case the enumerator was in a remote area where there is poor network signal strength they would then complete the questionnaire interviewing and submit, but since there was no network it would only be saved in the phone and the moment the enumerator reaches an area where they can access internet the questionnaire would automatically be taken to the server. The data sent was stored in the server.

In daily basis, the In-office staff reviewed the data received for quality control purposes. Be there any fault that would require correction, depending on the fault found, the questionnaire sent would then be returned back to the corresponding enumerator to correct the mistake and resubmit the data again or make online amendments with the information given by the enumerator. Because data was daily submitted, this enabled the data processing personnel to immediately start the initial stages of data processing and reducing the workload, instead of waiting till the end of the survey to start processing data.

2.8 Response Rate

In any survey, the higher the response rate, the better the survey findings. As to meet the purpose of this survey of interviewing 15 households in each EA, replacement of respondents who were not around/refused were done after three call backs done at the household. For this matter, response rate was 100 percent.

2.9 Data Processing and Analysis

Data processing and analysis was done by using Statistical Package for Social Scientists (SPSS) and Excel. The whole data set obtained from interviewing method has been stored in the Statistical Package for Social Scientists (SPSS) and Excel as one among the deliverables to REA.

CHAPTER THREE

3.0 Demographic, Economic and Housing Characteristics

3.1 Introduction

This Chapter elaborates on composition and status of the private households, namely demographic and housing characteristics, ownership of assets; business and expenditure, economic activities, time use and women involvement in Tanzania Mainland.

3.2 Demographic Information

Demographic characteristics include household population, ages, sex, marital status and number of households by residence (Rural and Urban), levels of education attained by household members and all other related statistics.

3.2.1 Composition of Household Members

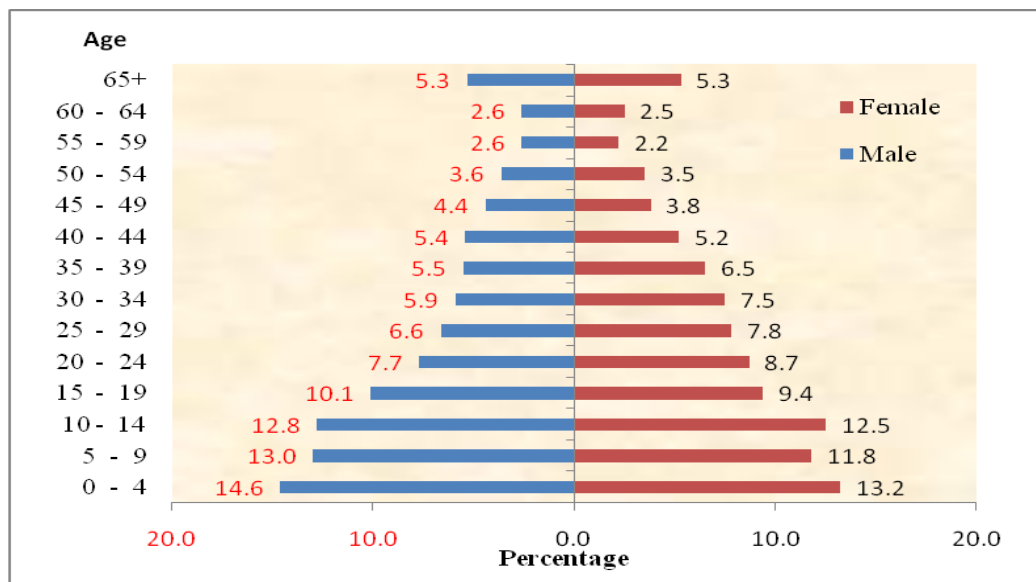
Age and sex are important demographic variables and are the primary basis of demographic classifications in censuses and surveys. They are also very important variables in the study of mortality, fertility, and marriage. Table 3.1 presents the percentage distribution of household members by five-year age groups, place of residence and sex. Table 3.1 further shows that 38.9 percent of the population constitutes the young population below age 15 years. This is slightly lower than 43.9 percent which was recorded in the 2012 Population and Housing Census. However, it still indicates that Tanzania Mainland is characterized by a young population.

Table 3.1: Percentage Distribution of Households Members by Five Year Age Groups, Place of Residence and Sex

Five Years Age Groups	TOTAL			RURAL			URBAN		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
0 - 4	13.9	14.6	13.2	14.8	15.5	14.2	11.8	1.4	1.3
5 - 9	12.4	13	11.8	13.5	14	13	9.8	10.4	9.3
10 - 14	12.6	12.8	12.5	13.3	13.3	13.3	11.1	11.6	10.6
15 - 19	9.7	10.1	9.4	9.5	10.2	8.9	0.1	9.7	10.5
20 - 24	8.2	7.7	8.7	7.3	6.8	7.8	10.4	9.9	10.8
25 - 29	7.2	6.6	7.8	6.5	6.1	6.9	8.8	7.7	9.7
30 - 34	6.7	5.9	7.5	6.2	5.4	7.0	7.8	7.0	8.5
35 - 39	6.0	5.5	6.5	5.6	5.1	6.1	7.0	6.5	7.4
40 - 44	5.3	5.4	5.2	5.1	5.0	5.1	5.9	6.3	0.5
45 - 49	4.1	4.4	3.8	3.9	4.3	3.6	4.5	4.7	4.3
50 - 54	3.6	3.6	3.5	3.6	3.6	3.7	3.4	3.6	3.2
55 - 59	2.4	2.6	2.2	2.4	2.5	2.3	2.4	2.7	2.2
60 - 64	2.5	2.6	2.5	2.4	2.5	2.3	2.8	2.8	2.8
65+	5.3	5.3	5.3	5.8	5.7	5.9	4.2	4.5	3.9

Figure 3.1 shows clearly that the age-sex pyramid has a broad base typical to structures in many sub-Saharan African countries. On the examination of the sex differences of the population, it appears that the sex ratio is 97.6 implying that on average for every 100 females there are about 98 males.

Figure 3.1: Percentage Distribution of Household Members by Sex and Age group



3.2.2 Marital Status

- ❖ **There is large proportion of widow (females) compared to widower (males),**
- ❖ **Rate of divorced or separated is high at the age group between 35 and 64 years.**

The analysis of marital status is important in understanding the dynamics of a society and how it changes over time. It is an important factor in studying fertility behavior. This section analyses marital status of the household members by sex, place of residence (rural and urban) and age group.

Figure 3.1 and Table 3.2 reveal that 51.9 percent of the household members are married, with a slight higher proportion for males (52.7 percent) compared to females (51.2 percent). There is large proportion of widow (females) compared to widower (males) which accounts for 8.5 percent and 1.6 percent respectively. The results also show that, proportion of divorced females is higher (4.1 percent) compared to male's counterpart (1.6 percent). Furthermore, the findings show that the proportion of married rural household members is slightly higher (54.3 percent) than that of

their urban counterparts (47.0 percent). In both rural and urban areas, proportion of married males is higher than that of married females.

The table reveals also that the highest proportion of married population is among those in age group of 35 – 39 (82.6 percent) followed by those in age group 40 – 44 (81.5 percent) and in age group 45 – 49 years (80.0 percent). The results also show that as age increases, the proportion of married population decreases. This may be a result of increasing proportions of divorced and widowed persons. The results further show that the rate of divorced or separated is high at the age group between 35 and 64 years.

Figure 3.2: Percentage Distribution of Household Members by Sex and Marital Status

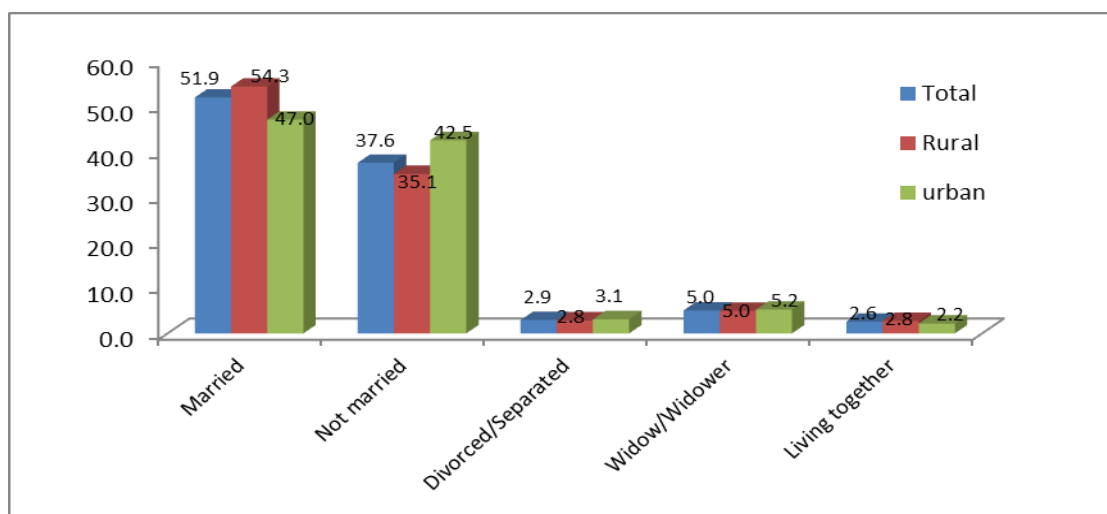


Table 3.2 Percentage Distribution of Household Members by Sex and Marital Status

Residence	Total					Male					Female				
	Married	Not married	Divorced/Separated	Widow/	Living together	Married	Not married	Divorced/Separated	Widow/Widower	Living together	Married	Not married	Divorced/Separated	Widow/Widower	Living together
Rural	54.3	35.1	2.8	5.0	2.8	54.2	40.4	1.6	1.2	2.7	54.4	30.1	4.0	8.5	2.8
Urban	47.0	42.5	3.1	5.2	2.2	49.7	45.3	1.8	1.2	2.1	44.8	40.2	4.2	8.6	2.2
Total	51.9	37.6	2.9	5.0	2.6	52.7	41.9	1.6	1.2	2.5	51.2	33.6	4.1	8.5	2.6
12 - 14	0.7	99.1	0.0	0.0	0.2	0.7	99.1	0.0	0.0	0.2	0.7	99.1	0.1	0.0	0.1
15 - 19	7.6	91.6	0.0	0.0	0.6	2.0	97.7	0.0	0.0	0.2	13.3	85.3	0.5	0.0	0.9
20 - 24	36.8	57.8	1.4	0.2	3.8	19.3	78.2	0.3	0.0	2.2	51.4	40.8	2.3	0.0	5.1
25 - 29	62.7	30.3	2.3	0.4	4.3	55.2	39.4	1.0	0.1	4.3	68.7	23.0	3.3	0.7	4.3
30 - 34	75.2	14.1	4.2	1.1	5.4	76.2	15.4	1.8	0.4	6.1	74.4	13.1	5.9	1.6	4.9
35 - 39	82.6	7.1	5.1	2.1	3.0	86.1	7.7	2.4	0.1	3.7	79.9	6.7	7.4	3.6	2.5
40 - 44	81.5	6.8	5.0	3.5	3.1	85.4	7.6	3.0	0.5	3.5	77.7	6.1	7.0	6.4	2.7
45 - 49	80	5.3	5.6	6.3	2.7	87.3	5.6	3.0	1.1	3.0	72.0	4.9	8.5	12.1	2.5
50 - 54	79.4	4.4	5.0	8.9	2.3	88.3	2.8	3.8	1.9	3.2	70.8	5.9	6.3	15.6	1.4
55 - 59	79.2	3.1	5.0	10.8	1.8	89.2	1.9	5.0	2.5	1.5	68.2	4.4	5.1	20.0	2.3
60 - 64	71.8	3.1	5.2	18.4	1.5	90.5	1.8	3.5	2.1	2.1	53.2	4.3	7.0	34.7	0.8
65+	59.2	3.0	3.5	32.6	1.6	84.3	2.2	2.4	9.1	2.0	35.2	3.8	4.6	55.2	1.3

3.2.3 Level of Education

There is a noticeable gap between rural and urban population who have attained higher education

This section analyses the level of education attained by the population aged 5 years and above. According to the existing education system in Tanzania Mainland, there are three main levels of education namely Primary level, Secondary level and Tertiary level of education.

Table 3.3 indicates that the highest proportion of population aged 5 years and above (64.3 percent) had a primary level of education followed by those with secondary education (12.7 percent). The results also show that 14.9 percent of the populations have never attended any formal education.

Further analysis shows that across all education level, the proportion of males is slightly higher than that of females. The results also reveal that there are more females than males who had never gone to school accounting for 18.0 percent and 11.5 percent respectively. The findings also show that the highest of population in rural areas are those with primary education (67.2 percent) followed by those who have never gone to school (19.1 percent). For urban areas, the highest

proportions are those with primary level of education (57.9 percent) and those with secondary (o-level) education (23.2 percent). A noticeable gap between rural and urban areas is on higher learning whereby 5.6 percent of urban population have attained higher education as compared to less than one percent (0.4 percent) of the rural population.

Table 3.3: Percentage Distribution of Members of Households Level of Education Attained by Sex and Place of Residence

Level of education	Total	Male	Female	Rural	Urban
Total	100	100	100	100	100
Nursery Education	4.0	4.4	3.7	4.1	3.8
Primary Education	64.3	65.3	63.4	67.2	57.9
Course After Primary	0.4	0.4	0.4	0.4	0.5
Secondary (O level)	12.7	13.5	11.9	7.9	23.2
Course After Secondary	0.4	0.5	0.3	0.2	0.7
Secondary (A level)	0.6	0.8	0.4	0.2	1.3
Training After High School Education	0.1	0.1	0.0	0.0	0.2
Others Certified Training	0.6	0.7	0.5	0.3	1.1
Higher Learning	2.1	2.7	1.5	0.4	5.6
Adult Education	0.1	0.1	0.1	0.1	0.0
Never gone to School	14.9	11.5	18.0	19.1	5.7

3.2.4 Literacy Rate

The survey collected data needed to estimate literacy rate of population aged 5 years and above. Respondents were asked if they could read and write a short sentence in Swahili, English, both Swahili and English or any other language. Total literacy rate is the percentage of the population aged 5 years and above who can read and write a short or simple statement on their everyday life. The indicator is calculated by dividing the number of literate population aged 5 years and above by the corresponding age group population multiplied by 100.

Table 3.4 reveals that total literacy rate for Tanzania Mainland was 78.7 percent. Urban areas had the highest literacy rate (92.3 percent) compared to rural areas (72.4 percent). Rural areas had a highest proportion of population who are unable to write and read any language (27.6 percent) compared to urban areas (7.7 percent). The result also shows that male literacy rate was 81.2 percent and female literacy rate was 76.3 percent. In both rural and urban areas, literacy rate for men was higher than that for women.

Table 3.4: Percentage Distribution of Household Members Aged 5 years and Above by Literacy, Sex and Place of Residence.

Literacy	Total	Rural	Urban
In Swahili	63.5	63.6	63.3
In English	0.5	0.3	0.9
both Swahili and English	14.4	8.2	28.0
Other language	0.3	0.4	0.2
Unable to write and read any	21.3	27.6	7.7
Total	100.0	100.0	100.0
Literacy rate	78.7	72.4	92.3
Illiteracy rate	21.3	27.6	7.7
Male			
In Swahili	64.0	65.8	60.0
In English	0.5	0.3	1.2
both Swahili and English	16.4	9.5	32.1
Other language	0.3	0.3	0.2
Unable to write and read any	18.8	24.1	6.5
Total	100.0	100.0	100.0
Literacy rate	81.2	75.9	93.5
Illiteracy rate	18.8	24.1	6.5
Female			
In Swahili	63.0	61.6	66.0
In English	0.4	0.3	0.6
both Swahili and English	12.6	6.8	24.4
Other language	0.3	0.4	0.1
Unable to write and read any	23.7	30.9	8.8
Total	100.0	100.0	100.0
Literacy rate	76.3	69.1	91.2
Illiteracy rate	23.7	30.9	8.8

3.3 Economic Activities and Daily Wages

Analysis in this section presents distribution of working persons among various occupations. The occupations are categorized on the basis of Tanzania Standard Classification of Occupations (TASCO) adapted from the International Standard Classification of Occupations (ISCO). The findings are tabulated for persons aged 15 years or more.

3.3.1 Economic Activities and Daily Wages at Household level

Table 3.5 shows that about eight in ten (82.6 percent) of working persons in rural areas are agricultural and fishery workers. Other occupations with relatively high proportions of working persons in the rural areas are elementary occupations (5.0 percent) and service and shop sales workers (4.6 percent).

For urban areas, most of working persons are in Service workers and shop sales workers (30.7 percent) with predominantly workers age group 15-34 years (35.8 percent) compared to workers in age group 35-64 and 65+ (27.4 percent and 19.5 percent, respectively). Agricultural and fishery workers and Elementary occupations have the second and third largest proportions of working persons in urban areas (19.1 percent and 16.3 percent, respectively).

Table 3.5: Percentage Distribution of Working Persons by Main Occupation, Place of Residence and Age Groups

Occupation	Rural				Urban			
	15 - 34	35 - 64	65+	Total	15 - 34	35 - 64	65+	Total
Legislators, administrators and managers	0.0	0.4	0.1	0.2	0.6	1.5	0.0	1.0
Professionals	0.2	0.3	0.2	0.3	4.1	3.8	0.2	3.8
Technicians and associate professionals	1.8	1.7	1.3	1.7	5.7	6.4	1.5	5.9
Clerks	0.2	0.1	0.0	0.1	1.5	1.1	0.5	1.2
Service workers and shop sales workers	5.9	3.9	2.2	4.6	35.8	27.4	19.2	30.7
Agricultural and fishery workers	77.8	84.8	93	82.6	11.7	22.8	57.3	19.1
Craft and related workers	5.6	3.8	1.6	4.4	13.5	13.3	9.0	13.2
Plant and machine operators and assemblers	2.4	0.4	0.3	1.2	10.1	7.8	1.5	8.6
Elementary occupations	6.0	4.7	1.3	5.0	17.1	16.1	10.8	16.3
Total	100	100	100	100	100	100	100	100

About eighty percent of working persons are engaged in agriculture. Service and shop sales workers comprise the second largest proportion of the working persons

Table 3.6 reveals that in both rural and urban areas, there are slightly more females workers in agricultural and fishery than their male counterparts. However, the male/female gap for agricultural and fishery workers is more pronounced in the rural areas (4.6 percent points) than in urban areas (2.7 percentage points). The findings further reveals that in both rural and urban areas, there are slightly more males in professional occupations than females. The same trend is observed for occupations of Legislators, administrators and managers and for occupations of Technicians and associate professionals.

Table 3.6: Percentage Distribution of Working Persons by Main Occupation, Place of Residence, Sex, and Age Groups

Sex	Occupation	Rural				Urban			
		15 - 34	35 - 64	65+	Total	15 - 34	35 - 64	65+	Total
Male	Legislators, administrators and managers	0.0	0.6	0.2	0.3	0.3	2.2	0.0	1.3
	Professionals	0.3	0.3	0.2	0.3	4.5	3.9	0.2	4.0
	Technicians and associate professionals	1.9	1.9	1.6	1.9	5.8	6.3	2.1	5.9
	Clerks	0.1	0.1	0.0	0.1	0.6	0.9	0.7	0.8
	Service workers and shop sales workers	5.2	3.9	2.5	4.3	29.4	24.7	22.9	26.6
	Agricultural and fishery workers	75.7	82.6	91.7	80.6	11.2	20.5	54.8	18.0
	Craft and related workers	7.1	5.8	2.5	6.0	16.7	17.3	11.2	16.8
	Plant and machine operators and assemblers	4.2	0.7	0.4	2.0	17.5	12.3	2.2	14.0
	Elementary occupations	5.4	4.0	0.9	4.3	14.0	11.8	5.9	12.4
	Total	100	100	100	100	100	100	100	100
Female	Legislators, administrators and managers	0.1	0.1	0.0	0.1	1.0	0.2	0.0	0.6
	Professionals	0.1	0.3	0.0	0.2	3.7	3.5	0.0	3.5
	Technicians and associate professionals	1.6	1.3	0.6	1.4	5.7	6.6	0.0	6.0
	Clerks	0.3	0.1	0.0	0.2	2.5	1.3	0.0	1.8
	Service workers and shop sales workers	6.8	3.8	1.8	5.0	44.0	31.6	10.2	36.9
	Agricultural and fishery workers	80.5	87.9	95.4	85.2	12.2	26.5	63.2	20.7
	Craft and related workers	3.7	1.0	0.0	2.1	9.3	6.9	3.9	7.9
	Plant and machine operators and assemblers	0.2	0.1	0.0	0.1	0.4	0.5	0.0	0.5
	Elementary occupations	6.6	5.6	2.2	5.9	21.2	22.8	22.8	22.1
	Total	100	100	100	100	100	100	100	100

There are more females workers in agricultural and fishery occupations than their male counterparts

Table 3.7 shows that persons who are working as self-employed on farms or livestock keeping account for the largest proportion of all working persons (55.6 percent). The findings further show that this category of activity is more common in rural areas (71.5 percent) than in urban areas (17.2 percent). The second and third categories of activities with highest proportions of working persons are salaried employees (9.9 percent) and those employed in vending or wholesale trade (8.5 percent).

The findings also show that proportionately, there are more persons working in salaried jobs in urban areas (26.0 percent) than in rural areas (3.2 percent). It is also indicated that, in both rural and urban, there are more males in salaried jobs than their female counterparts. Conversely, female workers are more dominant in vending or wholesale trade for both rural and urban areas.

Table 3.7: Percentage Distribution of Working Persons by Nature of Usual Main Economic Activity, Place of Residence and Sex

Nature of Activity	Rural			Urban			Total
	Male	Female	Total	Male	Female	Total	
Wage labor(Farm/Livestock)	9.3	6.9	8.2	3.1	3.0	3.0	6.7
Wage labor(Non-farm/Non-Livestock)	2.9	1.9	2.5	11.8	8.9	10.6	4.9
Salaried Employee	3.9	2.3	3.2	27.3	24.1	26.0	9.9
Self-employed(Farm/Livestock)	68.2	76.1	71.5	16.6	18.1	17.2	55.6
Self-employed/Employed enterprise	1.5	1.1	1.3	3.9	3.8	3.9	2.1
Transport Owner/Business	0.6	0.1	0.4	3.2	2.2	2.8	1.1
Self-employed(Fishing)	1.8	0.1	1.1	0.9	0.2	0.6	0.9
Wage labor(Fishing)	0.3	0.1	0.2	0.2	0.0	0.1	0.2
Hawker/Vender/Wholesale trade	3.3	5.9	4.4	11.5	28.5	18.4	8.5
Domestic help	0.2	0.3	0.3	0.3	2.0	1.0	0.5
Carpentry/Masonry	2.8	0.0	1.6	6.7	0.1	4.0	2.3
Electrician/Repair work	0.1	0.0	0.1	1.3	0.2	0.9	0.3
Self-employed(Forest products)	0.2	0.2	0.2	0.4	0.3	0.4	0.2
Wage labor(Forest products)	0.0	0.0	0.0	0.2	0.1	0.2	0.1
Self-employed (Bodaboda)	0.6	0.0	0.3	2.0	0.0	1.2	0.6
Wage labor (Bodaboda)	0.4	0.0	0.2	0.8	0.0	0.5	0.3
Other	4.1	4.9	4.4	9.8	8.5	9.3	5.9
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Over half of all working persons are self-employed workers in agricultural occupations, which comprise of crop production, livestock keeping and fishery

Table 3.8 reveals that elderly persons aged 65+ account for the largest share (81.1 percent) of working persons who are self-employed in farming or livestock keeping in both rural and urban areas (81.1percent and 51.3 percent respectively). Although vending or wholesale trade is common activity for workers in lower age groups in both rural and urban areas, the proportions in urban areas are more pronounced in urban than in the rural areas.

Table3.8: Percentage Distribution of Working Persons by Nature of Usual Main Economic Activity, Place of Residence and Age Group

Nature of Activity	Rural				Urban			
	15 - 34	35 - 64	65+	Total	15 - 34	35 - 64	65+	Total
Wage labor(Farm/Livestock)	7.6	8.7	9.0	8.2	2.1	3.5	7.8	3.0
Wage labor(Non-farm/Non-Livestock)	2.9	2.2	1.7	2.5	11.2	10.3	7.3	0.6
Salaried Employee	4.1	2.8	1.1	3.2	31.2	23.2	3.8	26.0
Self-employed(Farm/Livestock)	68.0	73.0	81.1	71.5	10.7	20.3	51.3	17.2
Self-employed/Employed enterprise	1.6	1.1	1.1	1.3	3.4	4.4	1.2	3.9
Transport Owner/Business	0.7	0.3	0.1	0.4	2.6	3.2	0.0	2.8
Self-employed(Fishing)	1.2	1.1	0.3	1.1	0.4	0.7	1.6	0.6
Wage labor(Fishing)	0.3	0.1	0.0	0.2	0.1	0.1	0.0	0.1
Hawker/Vender/Wholesale trade	5.4	4.0	1.1	4.4	18.6	18.2	18.2	18.4
Domestic help	0.4	0.2	0.3	0.3	2.1	0.2	0.0	1.0
Carpentry/Masonry	1.8	1.7	0.5	1.6	4.0	4.1	2.4	4.0
Electrician/Repair work	0.1	0.0	0.0	0.1	0.7	1.0	1.0	0.9
Self-employed(Forest products)	0.1	0.2	0.4	0.2	0.3	0.4	0.0	0.4
Wage labor(Forest products)	0.0	0.0	0.0	0.0	0.1	0.3	0.0	0.2
Self-employed (Boda boda)	0.7	0.1	0.0	0.3	1.9	0.7	0.0	1.2
Wage labor (Boda boda)	0.5	0.0	0.0	0.2	0.8	0.3	0.0	0.5
Other	4.7	4.3	3.3	4.4	9.8	9.1	5.5	9.3
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Majority of working person in rural areas are self-employed workers in agriculture. In urban areas, the noticeable proportions of them are in salaried employment and in vending trades

3.3.2 Main Economic Activities at Community Level

Availability of reliable electricity services encourages income generating activities where producers expand coverage in production of goods and services for economic growth and development. The survey collected data on the main economic activities for the majority of individuals at community level.

The data reveals that 68.5 percent of individuals in the community are self-employed in farming and Livestock. Proportion of Individuals self-employed is higher in rural areas (81.5 percent) than urban areas (30.2 percent). The data shows that very few individuals reported to be salaried employee and wage labour in forest products were minimal as shown in Table 3.8a.

Table 3.8a: Percentage Distribution of Village/Mitaa by Main Economic Activities of Majority of People in the Community by Place of Residence

Main Activity/Occupation	Urban	Rural	Total
Wage labor (Farm/Livestock)	7.0	10.7	9.8
Wage labor (Non- Farm/Non-Livestock)	3.5	0.6	1.3
Salaried employee	5.2	0.2	1.5
Self employed (Farm/Livestock)	30.2	81.5	68.5
Self employed (Fishing)	2.3	1.4	1.6
Hawaker/Vender	2.9	1.8	2.1
Self employed (Forest products)	2.9	0.4	1.0
Wage labor (Forest products)	35.5	0.2	9.2
Other (specify)	10.5	3.2	5.0
Total	100	100	100

In line with the reported information on the economic activities/occupation of majority of the people at community level, the findings depicts that the main source of daily wage for majority of rural communities is farming and Livestock (87.3 percent). The results also reveals that majority of urban communities relies on business and industry activities (35.5 percent) as presented in Table 3.8b.

Table 3.8b: Percentage Distribution of Villages/Mtaa by Main source of Daily wages by Place of Residence

Main Source of Daily Wage	Urban	Rural	Total
Road and building construction activities	3.5	0.2	1.0
Farming/Livestock activities	34.9	87.3	74.0
Business and industry activities	35.5	3.2	11.4
Forest/Environment activities	1.7	0.4	0.7
Mining, oil and gas activities	0.6	0.6	0.6
Health, education and water services provision activities	0.6	0.2	0.3
Other (specify)	23.3	8.1	12.0
Total	100.0	100	100

3.4 Time Use and Women Involvement

Some questions on time use were included in the survey. This is often a result of increasing demand to produce statistics to enable understanding of how people, especially women, spend their time on economic and non-economic activities. Some activities like preparation of food, caring for other members of households (unpaid care work) which are considered as non-work, yet very important in social development, are not given the desired economic reward. This part discusses the distribution of household members and average time they spend on some activities.

Table 3.9 reveals that, Kagera region has relatively larger proportion (12.2 percent) of household members spending longer durations of more than 3 hours to collect firewood followed closely by Tanga and Dodoma regions by 7.9 percent and 7.8 percent respectively. The findings also indicates that, members of rural households in Dodoma and Tanga regions are more likely to spend more than 3 hours to collect fire wood than those in urban areas. It is also observed that, Tanga region has the largest proportion of household members (8.7 percent) spending between 2 to 3 hours fetching firewood, with slightly more weighted in members of urban households (9.1 percent) than rural households (8.6).

Table 3.9: Percentage Distribution of Household Members by Time spent to Collect Firewood in a Week by Region and Place of Residence

Region	Rural			Urban			Total		
	Less than 2 Hrs	2 Hrs or more but less than 3 Hrs	3 Hrs or more	Less than 2 Hrs	2 Hrs or more but less than 3 Hrs	3 Hrs or more	Less than 2 Hrs	2 Hrs or more but less than 3 Hrs	3 Hrs or more
Dodoma	5.6	7.4	8.0	2.2	9.4	4.1	4.3	7.6	7.8
Arusha	3.9	4.0	2.8	4.1	6.0	3.0	4.0	4.2	2.8
Kilimanjaro	4.7	5.0	5.3	2.9	2.4	2.7	4.0	4.8	5.1
Tanga	5.1	8.6	7.8	2.8	9.1	9.2	4.2	8.7	7.9
Morogoro	5.4	5.2	1.7	4.1	4.2	2.5	4.9	5.1	1.8
Pwani	2.8	2.1	1.7	2.8	7.3	5.2	2.8	2.5	2.0
Dar es salaam	-	-	-	41.7	4.5	18.4	15.7	0.4	1.3
Lindi	2.0	6.8	2.0	0.8	15.7	5.2	1.5	7.5	2.2
Mtwara	4.4	6.4	3.4	2.7	6.4	8.5	3.8	6.4	3.7
Ruvuma	2.9	1.9	2.6	2.0	6.8	5.9	2.5	2.3	2.8
Iringa	2.9	3.6	2.3	1.9	1.4	2.8	2.5	3.4	2.4
Mbeya	3.2	2.5	2.7	3.7	1.3	3.6	3.4	2.4	2.8
Singida	5.3	4.6	4.5	1.3	1.1	0.5	3.8	4.3	4.2
Tabora	6.7	5.6	6.9	2.3	0.8	2.6	5.0	5.2	6.6
Rukwa	2.1	2.0	2.7	1.3	2.9	3.8	1.8	2.1	2.8
Kigoma	4.8	3.3	5.7	2.8	1.5	2.6	4.1	3.1	5.5
Shinyanga	4.2	2.7	1.8	2.1	4.8	4.6	3.4	2.9	2.0
Kagera	5.2	5.8	13.1	1.8	0.0	1.1	3.9	5.3	12.2
Mwanza	8.1	4.0	5.1	8.5	6.0	0.7	8.2	4.2	4.8
Mara	4.3	3.7	4.4	2.0	0.6	1.1	3.4	3.4	4.1
Manyara	4.3	6.3	3.9	1.4	0.0	0.8	3.2	5.7	3.7
Njombe	1.7	2.4	2.5	1.2	3.9	5.6	1.5	2.5	2.7
Katavi	1.1	0.6	0.7	0.8	1.0	0.8	1.0	0.6	0.7
Simiyu	4.2	3.0	3.9	0.3	0.0	0.0	2.7	2.8	3.6
Geita	1.2	1.1	0.5	0.4	1.1	0.7	0.9	1.1	0.5
Songwe	4.0	1.4	4.0	2.2	2.0	4.0	3.3	1.4	4.0
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

‘-’: Not applicable

- ❖ **There are comparatively larger proportions of household members who spend longer duration to collect fire wood in Kagera, Tanga and Dodoma than in other regions**
- ❖ **Nearly, in all regions of Tanzania, the burden to collect firewood is more borne by females than males as measured by length of time used to collect firewood**

Table 3.10 reveals that nearly in all regions of Tanzania, the burden to collect firewood is more borne by females than males. This feature is more pronounced in Dodoma, Tabora, Kigoma and Kagera regions where female household members spend relatively longer durations of more than 3 hours to collect firewood than male members.

Table 3.10: Percentage Distribution of Household Members by Region, Sex and Time Spent to Collect Firewood in a Week

Region	Male			Female			Total		
	Less than 2 Hrs	2 Hrs or more but less than 3 Hrs	3 Hrs or more	Less than 2 Hrs	2 Hrs or more but less than 3 Hrs	3 Hrs or more	Less than 2 Hrs	2 Hrs or more but less than 3 Hrs	3 Hrs or more
Dodoma	4.8	4.7	7.1	3.8	8.6	8.0	4.3	7.6	7.8
Arusha	4.0	1.9	1.6	3.9	5.0	3.3	4.0	4.2	2.8
Kilimanjaro	3.9	8.3	6.6	4.1	3.5	4.6	4.0	4.8	5.1
Tanga	4.7	8.6	8.0	3.7	8.7	7.8	4.2	8.7	7.9
Morogoro	4.7	3.9	1.6	5.3	5.6	1.9	4.9	5.1	1.8
Pwani	2.7	3.3	1.7	3.0	2.2	2.1	2.8	2.5	2.0
Dar es salaam	13.7	0.0	0.8	18.2	0.5	1.5	15.7	0.4	1.3
Lindi	1.7	8.5	2.4	1.4	7.2	2.1	1.5	7.5	2.2
Mtwara	3.9	5.6	2.6	3.6	6.7	4.1	3.8	6.4	3.7
Ruvuma	2.5	2.5	3.0	2.6	2.2	2.7	2.5	2.3	2.8
Iringa	2.4	5.2	2.4	2.6	2.8	2.3	2.5	3.4	2.4
Mbeya	3.3	2.7	2.5	3.4	2.2	2.9	3.4	2.4	2.8
Singida	4.2	3.2	3.5	3.3	4.7	4.5	3.8	4.3	4.2
Tabora	5.4	4.6	6.4	4.6	5.4	6.6	5.0	5.2	6.6
Rukwa	1.8	2.1	3.6	1.7	2.1	2.5	1.8	2.1	2.8
Kigoma	4.2	3.9	4.1	4.0	2.9	6.0	4.1	3.1	5.5
Shinyanga	3.5	3.1	1.7	3.4	2.8	2.1	3.4	2.9	2.0
Kagera	3.8	7.5	19.0	4.0	4.6	9.9	3.9	5.3	12.2
Mwanza	8.0	3.5	5.5	8.6	4.5	4.5	8.2	4.2	4.8
Mara	3.7	1.8	2.1	3.1	4.0	4.8	3.4	3.4	4.1
Manyara	3.5	6.1	3.9	2.8	5.6	3.6	3.2	5.7	3.7
Njombe	1.6	3.8	3.3	1.5	2.1	2.5	1.5	2.5	2.7
Katavi	1.0	0.5	0.6	1.0	0.7	0.8	1.0	0.6	0.7
Simiyu	2.7	3.4	3.5	2.7	2.5	3.6	2.7	2.8	3.6
Geita	0.9	0.9	0.6	0.9	1.1	0.5	0.9	1.1	0.5
Songwe	3.7	0.6	1.8	2.9	1.7	4.8	3.3	1.4	4.0
Total	100	100	100	100	100	100	100	100	100

Females in Dar es Salaam, Mwanza and Tabora spend significantly longer time to prepare food than their males counterparts

Table 3.11 reveals that Dar es Salaam Region has a higher proportion of female household members (13.8 percent) who spend more than two hours to prepare food during night time as compared to male household members (10.2 percent). The findings also indicate that Mwanza and Tabora regions have also relatively larger proportions of female household members (6.9 percent and 5.2 percent respectively) who spend more than two hours preparing food during night time compared to male counterparts. Conversely, it is observed that in Tanga and Morogoro regions, male household members are slightly more likely to spend more than two hours preparing food during night time than their female counterparts.

Table 3.11: Distribution of Household Members by Region, Sex and Time Spent to Prepare Food for Immediate Consumption at Day and Night Time

Region	Male				Female			
	Day		Night		Day		Night	
	Less than 2 Hrs	More than 2 Hrs	Less than 2 Hrs	More than 2 Hrs	Less than 2 Hrs	More than 2 Hrs	Less than 2 Hrs	More than 2 Hrs
Dodoma	4.8	7.5	5.1	3.5	4.1	5.7	5.2	4.9
Arusha	3.7	4.4	3.7	4.5	4.1	3.6	3.9	3.7
Kilimanjaro	4.2	5.9	4.3	3.5	3.7	4.5	5.5	2.5
Tanga	4.8	8.4	4.8	10.2	4.0	5.7	3.6	6.5
Morogoro	4.3	5.1	4.2	7.0	4.3	4.6	3.8	5.3
Pwani	2.6	2.5	2.6	2.4	2.7	2.7	2.8	2.6
Dar es salaam	12.5	8.7	12.3	10.2	13.9	12.6	12.6	13.8
Lindi	1.9	2.7	1.9	2.5	1.8	2.0	1.9	2.0
Mtwara	3.9	2.2	3.8	3.1	4.1	3.9	3.8	4.1
Ruvuma	2.6	2.0	2.6	1.0	2.2	2.9	2.9	2.3
Iringa	2.4	3.3	2.4	3.4	2.5	2.6	2.3	2.9
Mbeya	3.2	3.1	3.2	4.4	3.0	3.4	2.4	4.2
Singida	4.0	4.9	4.1	4.7	3.8	3.6	4.7	2.5
Tabora	5.4	5.8	5.5	4.8	5.0	5.2	5.0	5.2
Rukwa	2.0	2.2	2.0	1.9	1.9	1.9	2.2	1.6
Kigoma	4.1	4.7	4.1	5.1	5.7	3.4	4.7	4.0
Shinyanga	3.3	3.6	3.3	4.1	2.7	3.3	2.4	3.9
Kagera	5.1	6.4	5.1	8.1	5.5	5.3	4.6	6.3
Mwanza	7.9	3.7	7.8	5.1	8.4	6.6	7.8	6.9
Mara	3.6	2.5	3.5	3.2	3.7	3.5	3.2	4.1
Manyara	3.6	3.3	3.7	1.7	3.3	3.1	4.4	1.7
Njombe	1.7	2.4	1.8	1.4	1.6	1.9	1.9	1.6
Katavi	0.9	0.6	0.9	0.6	1.1	0.8	0.8	1.0
Simiyu	2.9	1.8	2.8	1.4	2.9	2.9	3.4	2.3
Geita	0.9	1.0	0.9	0.8	0.9	0.8	0.8	0.9
Songwe	3.6	1.5	3.5	1.8	3.2	3.3	3.3	3.1
Total	100	100	100	100	100	100	100	100

Table 3.12 shows that, overall, female household members spend significantly more time (8.9 hours) caring for the needy persons in the household than their male counterparts who spend 1.3 hours. The dominant involvement of female household members in the care work is observable in both urban and rural areas and in nearly all regions.

Table 3.12: Percentage Distribution of Household Members by Region, Place of Residence and Actual Time Spent in Hours in a Day Taking Care of Children/Elders/Sick Household Members

Region/Time (Hrs.)	Rural		Urban		Total	
	Male	Female	Male	Female	Male	Female
	Time (Hrs.)	Time (Hrs.)	Time (Hrs.)	Time (Hrs.)	Time (Hrs.)	Time (Hrs.)
Dodoma	2.2	11.4	1.7	14.5	2.1	11.8
Arusha	0.4	8.4	0.9	8.2	0.5	8.3
Kilimanjaro	0.9	5.6	0.9	5.4	0.9	5.6
Tanga	4.0	17.1	2.3	17.0	3.7	17.1
Morogoro	0.5	2.8	0.7	2.6	0.6	2.7
Pwani	1.0	12.6	1.7	12.2	1.3	12.5
Dar es salaam	0.0	0.0	1.6	10.7	1.6	10.7
Lindi	0.1	1.4	0.8	1.0	0.2	1.3
Mtwara	0.6	7.7	1.1	7.6	0.7	7.7
Ruvuma	0.5	5.0	0.6	4.3	0.5	4.8
Iringa	1.4	5.4	1.0	5.5	1.3	5.4
Mbeya	0.2	2.4	0.2	3.7	0.2	2.9
Singida	0.4	5.7	0.4	6.6	0.4	5.8
Tabora	2.0	19.5	0.8	15.7	1.8	19.0
Rukwa	1.7	15.6	4.1	18.8	2.2	16.4
Kigoma	1.1	4.4	0.3	4.6	1.0	4.5
Shinyanga	1.5	14.5	0.7	13.1	1.3	14.2
Kagera	0.8	8.8	0.0	11.0	0.7	9.0
Mwanza	0.4	7.7	0.1	4.7	0.3	6.7
Mara	0.1	3.8	0.2	4.3	0.1	3.9
Manyara	0.1	2.1	0.0	2.3	0.1	2.1
Njombe	0.3	5.9	0.1	4.5	0.2	5.5
Katavi	0.0	5.1	0.1	2.7	0.0	4.4
Simiyu	10.3	25.7	10.7	17.1	10.3	25.4
Geita	0.6	8.6	1.2	7.1	0.7	8.3
Songwe	0.3	4.0	0.1	4.7	0.2	4.1
Total	1.4	9.0	1.1	8.8	1.3	8.9

Dar es Salaam, Arusha and Tabora regions have relatively larger proportions of income earners above 500,000 compared to other regions

Table 3.13 indicates that, across regions, the highest proportion (40.4 percent) of income earners of above Tsh 500,000 are in Dar es Salaam region. Tabora and Arusha regions have second and third largest proportions of income earners above 500,000 with 5.7 percent and 5.2 percent, respectively. It is also found that there are larger proportions of earners above 500,000 in rural areas for Tabora and Arusha regions compared to respective urban areas. On the other hand, Simiyu, Geita and Songwe regions have the smallest proportions of earners above 500,000. The findings also indicate that Tanga, Dodoma, Mtwara and Mara regions have relatively higher proportions of income earners below 149,999 compared to other regions. In all these regions, there are slightly larger proportions of earners below 149,999 in rural areas compared to the respective urban areas.

Table 3.13: Percentage Distribution of Household Members by Region, Place of Residence and Amount of Income Earned per Month

Region	Rural			Urban			Total		
	Less than 149,999	150,000-499,999	500000+	Less than 149999	150,000-499,999	500000+	Less than 149999	150,000-499,999	500000+
Dodoma	6.4	2.2	4.8	4.3	2.0	2.2	5.9	2.1	3.0
Arusha	2.6	4.6	6.4	4.4	5.7	4.6	3.0	5.1	5.2
Kilimanjaro	3.6	3.0	6.7	2.8	2.2	3.0	3.5	2.6	4.2
Tanga	8.0	6.4	4.6	5.8	3.3	2.8	7.5	4.9	3.4
Morogoro	3.8	4.6	5.3	3.5	4.4	0.8	3.7	4.5	2.2
Pwani	2.8	4.7	1.8	4.0	3.2	1.6	3.1	4.0	1.7
Dar es salaam	-	-	-	23.0	38.2	58.7	5.1	18.8	40.4
Lindi	4.6	12.2	8.8	4.7	1.8	1.8	4.6	7.1	4.0
Mtwara	6.3	4.0	1.2	4.2	3.7	2.2	5.9	3.8	1.9
Ruvuma	3.5	5.3	6.4	3.8	2.1	1.9	3.6	3.7	3.3
Iringa	4.5	4.9	3.1	3.2	3.5	2.8	4.2	4.2	2.9
Mbeya	3.4	5.4	1.1	4.1	6.0	2.5	3.6	5.7	2.1
Singida	4.0	1.7	0.9	1.2	1.1	1.6	3.3	1.4	1.4
Tabora	5.1	6.3	14.4	2.9	1.4	1.8	4.6	3.9	5.7
Rukwa	4.3	2.2	2.8	3.0	1.0	0.6	4.0	1.6	1.3
Kigoma	1.2	2.7	2.6	2.5	2.1	1.2	1.5	2.4	1.6
Shinyanga	0.8	3.6	11.9	1.4	2.4	1.2	1.0	3.1	4.6
Kagera	6.4	3.5	1.8	1.8	2.9	0.0	5.3	3.2	0.6
Mwanza	6.0	2.9	0.0	9.1	4.9	3.9	6.7	3.9	2.7
Mara	8.0	2.8	4.4	3.3	2.1	0.0	6.9	2.5	1.4
Manyara	3.6	3.2	1.9	1.6	1.7	2.6	3.1	2.4	2.4
Njombe	3.2	2.9	6.6	2.9	1.2	1.4	3.1	2.0	3.0
Katavi	0.9	0.7	0.6	0.6	1.0	0.6	0.8	0.9	0.6
Simiyu	3.9	5.6	0.8	0.4	0.3	0.0	3.2	3.0	0.3
Geita	0.3	0.4	0.0	0.2	0.2	0.0	0.3	0.3	0.0
Songwe	2.8	4.2	1.1	1.2	1.8	0.0	2.5	3.0	0.3
Total	100	100	100	100	100	100	100	100	100

Most of decisions on use of financial resources in households are made jointly by both men and women, however, this joint decision making is more common in rural households than in urban households

Table 3.14 indicates that most of decisions on use of financial resources in households are made jointly by both men and women. However, the joint making of such decisions is slightly more common in rural households than in urban households (71.4 percent and 69.0 percent respectively). On the other hand, households in which men only make decision on use of financial resources are nearly equal between rural and urban households (21.4 percent and 22.5 percent, respectively). The results further reveal that women are slightly more likely to make decision on use of financial resources in urban areas (6.7 percent) than in rural areas (6.1 percent).

Table 3.14: Percentage Distribution of Household by Region, Place of Residence and Person who Makes Decisions on the Use of Income

Region	Rural					Urban				
	Spouse only	Women only	Jointly women and spouse	Other person	Total	Spouse only	Women only	Jointly women and spouse	Other person	Total
Dodoma	20.9	3.7	74.1	1.2	100	21.4	12.0	66.6	0.0	100
Arusha	24.5	5.4	68.7	1.4	100	18.0	10.8	69.3	1.8	100
Kilimanjaro	14.6	5.0	76.5	3.8	100	15.6	5.2	74.7	4.5	100
Tanga	19.9	6.1	72.7	1.3	100	19.1	11.7	68.3	1.0	100
Morogoro	24.7	3.0	63.4	8.8	100	19.5	4.0	70.9	5.6	100
Pwani	35.6	7.3	56.4	0.7	100	33.5	7.6	59.0	0.0	100
Dar es salaam	-	-	-	-	-	27.9	5.8	65.1	1.2	100
Lindi	22.8	5.9	62.4	8.9	100	17.3	11.2	60.8	10.7	100
Mtwara	22.8	5.5	70.7	1.0	100	18.2	8.8	71.3	1.6	100
Ruvuma	19.1	2.0	56.7	22.2	100	19.2	10.4	66.5	4.0	100
Iringa	17.2	5.7	76.0	1.1	100	17.4	9.1	70.6	2.9	100
Mbeya	13.7	4.6	71.7	9.9	100	18.1	5.2	71.9	4.8	100
Singida	18.2	2.1	76.1	3.5	100	11.5	7.0	81.0	0.5	100
Tabora	41.5	3.0	53.4	2.1	100	31.8	5.7	62.5	0.0	100
Rukwa	29.4	4.3	63.4	2.9	100	18.5	7.4	71.3	2.8	100
Kigoma	15.0	2.7	79.5	2.8	100	17.1	3.5	75.0	4.4	100
Shinyanga	25.4	2.6	71.5	0.5	100	17.9	7.7	71.4	3.1	100
Kagera	13.5	4.6	80.4	1.6	100	14.5	7.8	75.1	2.6	100
Mwanza	11.3	3.4	83.5	1.8	100	12	6.3	81.2	0.4	100
Mara	23.8	7.3	67.3	1.6	100	22.2	8.1	69.0	0.7	100
Manyara	24.8	3.2	68.2	3.8	100	28.1	5.9	66.0	0.0	100
Njombe	17.8	7.8	73.5	0.8	100	22.3	11.9	65.3	0.6	100
Katavi	19.4	3.0	72.7	4.9	100	15.9	5.3	74.6	4.2	100
Simiyu	23.7	3.2	72.3	0.8	100	12.2	5.4	82.4	0.0	100
Geita	25.0	0.9	72.0	2.1	100	21.2	2.1	74.8	1.8	100
Songwe	16.8	3.6	79.6	0.0	100	17.9	3.8	78.3	0.0	100
Total	21.4	4.1	71.4	3.1	100	22.5	6.7	69.0	1.8	100

3.5 Housing Characteristics, Water and Sanitation

- ❖ Most of households in Tanzania Mainland live in dwelling with two rooms,
- ❖ Baked bricks are most commonly materials for wall construction in rural areas while cement bricks is for urban areas,
- ❖ Public tap/stand pipe is the most common source of drinking water to the households of the Tanzania Mainland,
- ❖ Majority of rural households use uncovered pit latrine toilets whilst urban households mostly use flush toilets.

The physical characteristics of main dwellings are important determinants of accessibility of electricity power whether grid or non-grid to the households' dwellings and premises. They can also be used as indicators of poverty and socio-economic status of households. During the survey, respondents were asked about the type of tenure and ownership of the main dwelling, type of floors, walls and roofing materials used, number of sleeping rooms in the main dwelling, housing rent modality, the source of drinking water and type of sanitation facility used by the households (Table 3.15).

Table 3. 15: Percentage Distribution of Households by Main Dwelling characteristics and Place of Residence

Main Dwelling Characteristics	Total	Rural	Urban
Number of Sleeping Room			
1 room	22.7	18.9	30.4
2 rooms	32.0	35.7	24.4
3 rooms	28.2	29.1	26.4
4 rooms	10.4	10.4	10.5
5 rooms	3.6	3.3	4.4
6 rooms	1.9	1.5	2.6
7+ rooms	1.3	1.2	1.4
Total	100.0	100.0	100.0
Wall Materials			
Stones	1.0	0.6	1.8
Cement bricks	24.7	7.4	60.2
Mud + wood	18.0	24.3	5.1
Mud + cement	4.6	5.2	3.4
Wood only	0.6	0.7	0.2
Baked bricks	40.3	46.7	27.2
Grass	0.2	0.3	0.0
Other (specify)	10.7	14.8	2.1
Total	100.0	100.0	100.0

Main Dwelling Characteristics	Total	Rural	Urban
Flooring Materials			
Cement	45.8	30.5	77.2
Tiles	3.5	0.9	8.7
Wood	0.1	0.2	0.0
Earth/sand	49.9	67.4	14.0
Dung	0.7	1.0	0.1
Total	100	100	100
Roofing Materials			
Iron sheet	81.2	74.1	95.8
Tiles	0.4	0.2	0.7
Concrete	0.1	0.0	0.4
Asbestos sheet	0.2	0.1	0.4
Grass/leaves	16.3	23.0	2.5
Mud	1.9	2.7	0.2
Total	100.0	100.0	100.0
Source of drinking water			
Piped into dwelling	7.6	1.0	21.3
Piped to yard/plot	11.2	5.6	22.7
Public tap/stand pipe	18.4	21.9	11.4
Bore hole	2.9	2.9	2.8
Protected well	10.6	11.9	7.9
Unprotected well	18.0	25.0	3.5
Protected Spring	3.1	3.9	1.7
Unprotected spring	15.4	22.0	1.9
Rainwater	0.4	0.6	0.2
Tanker truck/vendor	2.3	1.5	4.0
Bottled water	0.2	0.1	0.4
Tap/stand pipe to neighbor	9.8	3.7	22.3
Total	100.0	100.0	100.0
Type of toilet facility			
Flush toilet	12.3	2.7	32.2
VIP latrine	9.3	2.7	22.8
Covered pit latrine	21.8	18.7	28.4
Uncovered pit latrine	54.0	72.5	16.2
Bucket	0.5	0.6	0.2
Bush/No toilet	2.0	2.9	0.2
Total	100.0	100.0	100.0

3.5.1 Number of Sleeping Room

One of the key dimensions in assessing the quality of housing is the availability of sufficient space in a dwelling. The overcrowding rate describes the proportion of people living in overcrowded dwelling, as defined by the number of rooms available to the household, the household's size as well as its member's ages and their family situation. Table 3.15 reveals that most Tanzanians live in dwellings with two rooms for sleeping (32.0 percent) followed by those

with three rooms (28.2 percent). Analysis between rural and urban setting, 30.4 percent of urban households have only one room for sleeping. For rural areas, 35.7 percent were reported to have two rooms for sleeping.

3.5.2 Wall, Flooring and Roofing Materials

Table 3.15 indicates that the most commonly materials used for wall constructions are baked bricks (40.3 percent) and cement bricks (24.7 percent). The materials frequently used by rural households are baked bricks (46.7 percent) and mud + wood (24.3 percent). Urban households mostly use cement bricks (60.2 percent) and backed bricks (27.2 percent). The common used flooring materials are earth/sand (49.9 percent) and cement (45.8 percent). More than three-quarters of households use iron sheet (81.2 percent) and grass/leaves (16.3 percent) as materials for roofing. The use of iron sheets for roofing is widely used in urban areas (95.8 percent).

3.5.3 Source of Drinking Water

The survey collected information on the source of household drinking water. The source is used as an approximate indicator of the quality of the water used in the household. Table 3.15 shows that the main source of drinking water for majority of Tanzania is public tap/stand pipe (18.4 percent), unprotected spring (15.4 percent) and piped to yard/plot (11.2 percent). The large proportion of urban population use piped to yard/ plot (22.7 percent) and tap/stand pipe to neighbor (22.3 percent). In rural areas, the main source of drinking water is unprotected spring (22.0 percent) and public tap/stand pipe (21.9 percent).

3.5.4 Toilet Facilities

With regard to toilet facilities, the results in table 3.15 shows that 75.8 percent of Tanzanian Mainland households are using traditional pit toilets, of which 54.0 percent were uncovered and 21.8 percent were covered; about 12.3 percent use modern flush toilets. The use uncovered pit latrine is used by majority of households in rural areas (72.5 percent). In urban areas, 16.2 percent of households are using uncovered pit latrine and 32.2 percent have flush toilets.

3.6 Tenure status of Main Dwelling

- ❖ Majority of rural households owned their main dwelling than urban households
- ❖ Male headed households are more likely than female headed households to own their main dwelling

This is the arrangements under which a household occupies all or part of a dwelling unit. It is the status of household with respect to the dwelling in which the household members live. This includes owner-occupied, rented whole of dwelling unit, rented room(s) of dwelling unit, provided free by employer, and provided free by other persons (except employers).

As Table 3.16 shows, 81.5 percent of main dwellings were owned by individual households and 14.9 were rented. About 2.3 percent of households are staying free and no household is provided subsidies from employer for housing. The majority of rural households owned their main dwelling (92.4 percent) compared to urban areas (59.3 percent). Renting for the main dwelling is more common in urban areas. In urban residences, 36.1 percent of such households were renting but 4.5 percent of rural households were renting.

The results further indicate that male headed households are more likely than female headed households to own their main dwelling (82.8 percent and 77.2 percent, respectively). About 18.3 percent of female headed households are renting their main dwelling compared to 13.8 percent of male headed households.

Table 3.16: Percentage Distribution of Households by Tenure Status, Sex of Head of Households and Place of Residence

Tenure status	Total	Rural	Urban
Total	100.0	100.0	100.0
Owned	81.5	92.4	59.3
Rented	14.9	4.5	36.1
Employer provided (subsidized)	0.0	0.0	0.0
Employer provided (free)	0.8	0.7	0.9
Free	2.3	2.0	3.1
Others	0.5	0.4	0.7
Tenure of Male headed Households			
Total	100.0	100.0	100.0
Owned	82.8	93.2	59.5
Rented	13.8	4.1	35.8
Employer provided (subsidized)	0.0	0.0	0.0
Employer provided (free)	0.8	0.7	0.9
Free	2.2	1.7	3.2
Others	0.4	0.3	0.6
Tenure of Female headed Households			
Total	100.0	100.0	100.0
Owned	77.2	89.4	58.8
Rented	18.3	6.2	36.8
Employer provided (subsidized)	0.1	0.0	0.1
Employer provided (free)	0.8	0.8	0.7
Free	3.0	3.1	2.8
Others	0.6	0.5	0.8

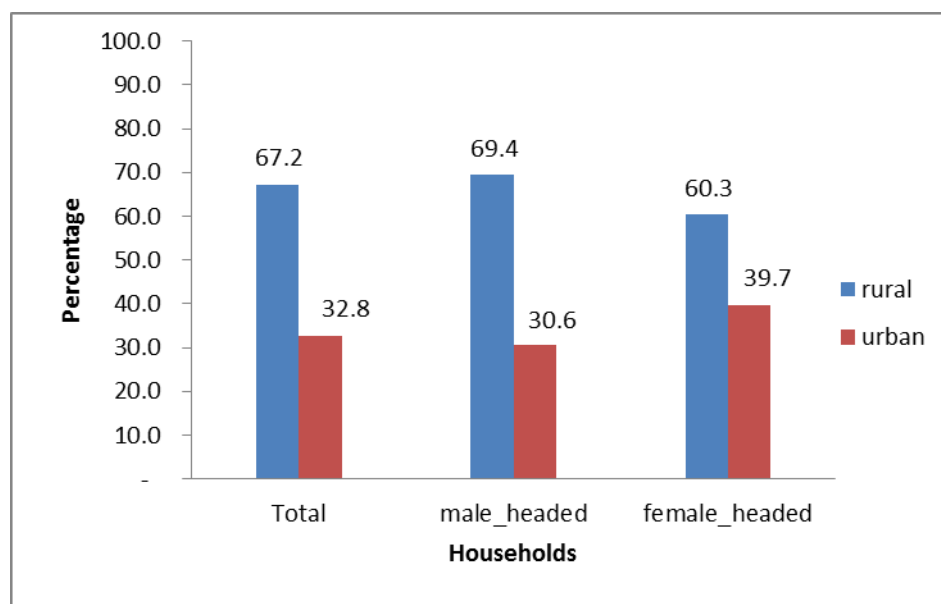
During the survey, respondents were asked to give market value of their main dwelling. Table 3.17 shows that about 70.3 percent valued their main dwelling for less than TZS 5 million. Rural areas show a similar trend as 83.4 percent valued their main dwelling with less than TZS 5 Million. Most of the households in urban areas (29.1 percent) reported that the market value of their main dwelling was valued at Tanzania shilling 50 million and above.

Table 3.17: Percentage Distribution by Market value of Main dwelling and Place of Residence

Market value of Main dwelling (Tsh. Millions)	Total	Rural	Urban
Total	100.0	100.0	100.0
< 5	70.3	83.4	28.6
5-9	5.6	5.5	6.2
10-14	5.3	4.3	8.5
15-19	2.4	1.6	4.8
20-24	3.0	1.5	8.0
25-29	1.1	0.4	3.3
30-34	2.2	0.9	6.1
35-39	0.4	0.2	1.1
40-44	1.0	0.5	2.5
45-49	0.4	0.0	1.7
50 and above	8.3	1.8	29.1

Figure 3.3 shows the composition of households in rural and urban areas. The findings show that 69.4 percent of rural households are headed by males compared to 60.3 percent which are headed by females. In urban areas, 30.6 percent of households are male headed while 39.7 percent are female headed.

Figure 3.3: Percentage Distribution of Male and Female Headed Households by Place of Residence



Majority of Households who rented their main dwelling whether male headed or female headed households, or resides in rural or urban, survey results show that monthly rent paid was less than five thousand Tanzania Shillings (Table 3.18).

Table 3.18: Percentage Distribution of Households by Amount of Rent Paid per Month, Sex of Head of Households and Place of Residence

Amount of rent (TSh.)	Households			Male headed households			Female headed households		
	Total	Rural	Urban	Total	Rural	Urban	Total	Rural	Urban
Total	100.0	100.0	100.0	100	100.0	100.0	100.0	100.0	100.0
< 5,000	86.3	97.0	64.4	87.3	97.3	64.8	83	95.8	63.6
5,000-9,999	0.6	0.6	0.6	0.5	0.5	0.6	0.7	0.8	0.6
10,000-14,999	1.8	1.3	2.9	1.6	1.1	2.6	2.5	1.7	3.8
15,000-19,999	1.3	0.3	3.3	1.0	0.2	2.7	2.3	0.6	4.8
20,000-24,999	2.0	0.3	5.6	1.9	0.2	5.7	2.3	0.4	5.2
25,000-29,999	1.1	0.1	3.2	1.1	0.1	3.2	1.3	0.1	3.1
30,000-49,999	3.7	0.3	10.9	3.5	0.3	11	4.4	0.2	10.6
50,000 and above	3.2	0.2	9.1	3.0	0.2	9.5	3.5	0.3	8.3

3.7 Assets Ownership

- ❖ **Mobile phone is the most common reported asset followed by Charcoal/firewood cooker/stove**
- ❖ **With exception of radio/radio cassette, TV and CD/DVD/Decoder/video cassette, other electric appliances are owned by less than 10 percent of households in Tanzania Mainland**

The ownership of household assets may be taken as an approximate measure of household's wealth or in other words an indicator for poverty level. During the survey, respondents were asked if they have at least one durable asset in the household and to estimate the current value of the asset. There were forty selected durable assets as shown in Table 3.19.

Table 3.19: Percentage Distribution of Households by Ownership of Assets (Durables)

Ownership of Assets	Total
Radio/Radio cassette	56.5
Land line Telephone	0.2
Mobile phone	78.1
Refrigerator	8.3
Freezer	0.7
TV (Coloured or Black and White)	23.6
CD/DVD/Decoder/Video cassette	18.4
Kerosene lamp	27.9
Computer	2.4
Electric iron	12.4
Electric cooker/stove	0.9
Charcoal/firewood cooker/stove	77.1
Water heater	1.8
Water pump	0.7
Washing machine	0.1
Music system	1.1
Solar panel PV system	13.0
Generator	0.8
Inventor	3.4
Sofa/Furniture	25.5
Hand hoe/thresher	68.0
Animal drawn cart	2.2
Any type of Boat(Motor boat/boat)	0.1
Any type of vehicle	2.1
House/Household dwelling(s)	70.7
Motorcycle	7.3
Bicycle	29.6
Farm/Agriculture land owned by the household	59.2
Plot for building	14.8
Fan	7.4
Air conditioner	0.2
Animal pulled plow	7.9
Four wheel Tractor	0.2
Two wheel tractor/power tiller	0.1
Oxen	5.7
Fowl (e.g chickens, ducks, turkeys, pigeons)	47.8
Small or large livestock(e.g goats, pigs, sheep, cattle)	33.0
Non or Electric sewing machine	2.5
Bottled gas(with or without gas)	5.6
Milling machine(Electric or diesel)	0.5

Note: Multiple responses: Individual responses do not necessarily sum up to 100 percent.

Table 3.20 indicates that most common assets reported to be owned by majority of the households are mobile phones (78.1 percent), charcoal/firewood cooker/stove (77.1 percent), house/household dwelling(s) (70.7 percent) and hand hoe/thresher (68.0 percent). The results further show that there has been a small proportion (less than 10 percent) of households owning electric appliances except radio/radio cassette, TV and CD/DVD/Decoder/video cassette.

Table 3.20: Percentage Distribution of Households by Ownership of Assets (Durables) and Market Value

Ownership of Assets	Market Value									
	<30,000	30,000 - 59,999	60,000 - 89,999	90,000 - 119,999	120,000 - 149,999	150,000 - 179,999	180,000 - 209,999	210,000 - 239,000	240,000+	Total
Radio/Radio cassette	58.7	17.3	7.7	4.4	2.7	6	2.8	0.1	0.2	100
Land line Telephone	25.3	34.1	21.1	7.1	0.0	8.2	0.0	0.0	4.1	100
Mobile phone	11.1	24.1	14.1	14.2	19	4.6	3.3	0.6	9.0	100
Refrigerator	0.0	0.9	0.6	2.7	1.1	8.1	9.1	0.4	77.2	100
Freezer	0.0	0.0	0.0	0.0	1.6	7.4	12.4	2.5	76.1	100
TV (Coloured or Black and White)	0.0	1.6	5.4	12.1	8.1	18.7	15.7	1.0	37.4	100
CD/DVD/Decoder/Video cassette	12.0	23	21.9	14.6	8.7	13	2.5	0.4	3.9	100
Kerosene lamp	98.3	1.2	0.4	0.1	0.0	0.0	0.0	0.0	0.0	100
Computer	0.0	0.0	0.0	0.8	0.0	3.3	1.4	1.0	93.5	100
Electric iron	67.5	25.9	4.5	1.3	0.0	0.0	0.1	0.0	0.7	100
Electric cooker/stove	11.9	14.4	11.7	4.6	10.4	4.6	20.1	0.0	22.3	100
Charcoal/firewood cooker/stove	98.5	0.9	0.4	0.1	0.0	0.1	0.1	0.0	0.0	100
Water heater	60.2	27.2	8.6	0.6	0.0	0.7	0.4	0.0	2.3	100
Water pump	0.7	8.0	3.4	1.6	5.2	10.1	0.0	0.0	71.0	100
Washing machine	0.0	0.0	0.0	0.0	0.0	10.1	0.0	11.8	78.0	100
Music system	0.0	0.0	0.0	7.3	3.8	32.5	23.5	0.8	32.0	100
Solar panel PV system	0.0	6.0	13.8	10.2	25.3	11.7	7.5	0.9	24.6	100
Generator	0.0	0.0	0.0	3.2	12.6	16.7	21.7	0.0	45.8	100
Inventor	0.0	15.2	25.5	6.5	25.6	5.4	3.4	0.2	18.1	100
Sofa/Furniture	0.0	3.9	5.5	7.4	5.0	14.3	13.8	1.0	49.1	100
Hand hoe/thresher	100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100
Animal drawn cart	0.0	0.0	11.3	10.0	12.3	41.3	9.1	0.0	16.0	100
Any type of Boat(Motor boat/boat)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100	100
Any type of vehicle	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100	100
House/Household dwelling(s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100	100
Motorcycle	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.1	98.7	100
Bicycle	5.5	20.1	31.7	14.9	10.5	8.0	3.2	0.6	5.4	100
Farm/Agriculture land owned by the household	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.1	95.0	100
Plot for building	0.0	3.5	0.0	0.2	0.2	1.9	7.0	0.0	87.1	100
Fan	14.3	27.1	26.9	8.8	1.2	7.9	1.4	1.0	11.3	100
Air conditioner	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	97.0	100
Animal pulled plow	0.0	0.0	0.0	14.7	22.2	35.3	10.3	0.5	17.0	100
Four wheel Tractor	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100	100
Two wheel tractor/power tiller	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100	100
Oxen	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100	100
Fowl (e.g. chickens, ducks, turkeys, pigeons)	25.7	20.6	15.3	11.7	4.4	6.2	5.5	1.0	9.6	100
Small or large livestock (e.g. goats, pigs, sheep, cattle)	2.0	3.5	3.1	3.9	2.1	3.6	5.7	1.1	75.1	100
Non or Electric sewing machine	0.0	0.0	0.0	10.6	14.5	30.3	20.5	0.8	23.3	100
Bottled gas(with or without gas)	0.0	11.7	27.1	11.6	28.1	6.9	7.4	0.6	6.6	100
Milling machine(Electric or diesel)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100	100

3.8 Business and Expenditure

Selling food crops ranked first main source of income of households in Tanzania Mainland followed by business and salaried/wage labour

The main objective of this section is to find the source of income of the households. Income is one of the monetary dimensions for measuring well-being of household members. Household's sources of income from business, salaried/wage labor or financial support were analysed.

This section further discusses the amount of money the household spends on food and non-food items and the value of food consumed in the household from own production or from gifts/other way. Reference period is last 7 days except for spending in non-food items the reference period is last 12 month.

Figure 3.4 shows that the main source of income for the majority of the households in Tanzania Mainland is doing business of selling food crops which accounts for 40.6 percent. Source of income from business and salaried/wage labour rank second and third with 12.0 percent and 10.1 percent respectively.

Figure 3.4: Percentage Distributions of Households by Main Source of Income

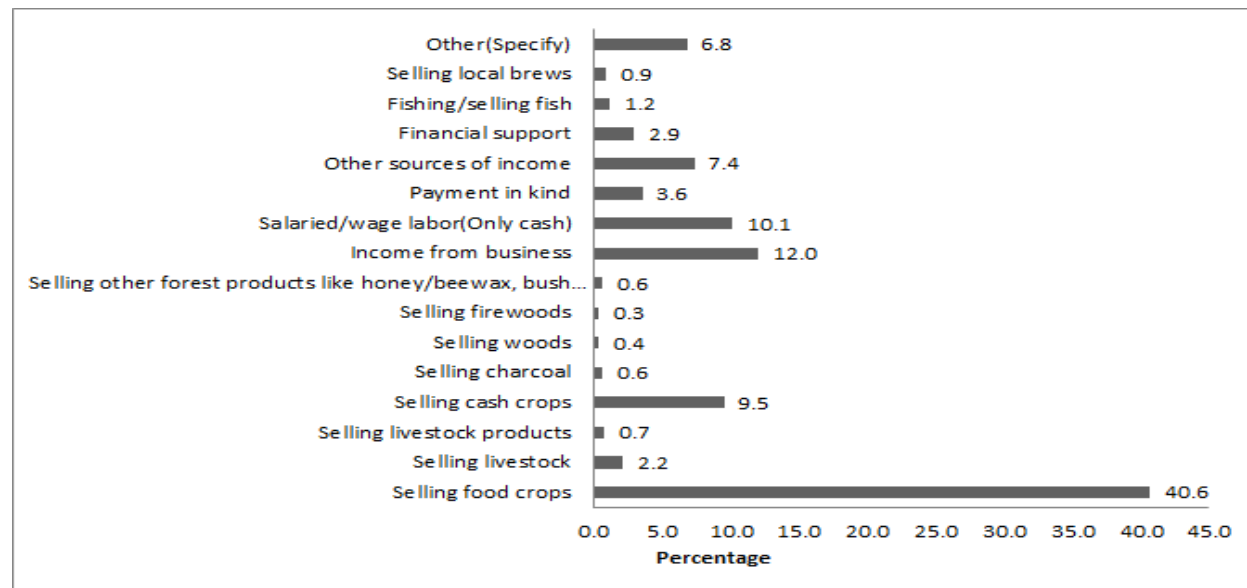


Table 3.21 indicates that almost all households across regions except Arusha, Dar es Salaam, Pwani and Mtwara depend on selling food crops as their main source of income. The main source of income for households in Arusha is income from business (21.8 percent), Dar es Salaam is Salaried/wage labor (30.0 percent), Pwani is income from business (25.4 percent) and Mtwara is selling cash crops (32.2 percent).

Table 3.21: Percentage Distribution of Households by Region and Main Source of Income

Region	Main Source of Income																
	Selling food crops	Selling livestock	Selling livestock products	Selling cash crops	Selling charcoal	Selling woods	Selling firewood	Selling other forest products like honey/beeswax, bush fruits	Income from business	Salaried/wage labor(Only cash)	Payment in kind	Other sources of income	Financial support	Fishing/selling fish	Selling local brews	Other(Specify)	Total
Dodoma	33.4	1.0	1.0	15.9	0.8	0.3	0.8	0.5	19.0	6.4	0.3	10.2	5.4	0.8	2.1	2.3	100
Arusha	21.3	16.4	1.3	10.0	0.0	0.5	0.0	4.1	21.8	14.3	0.0	2.6	1.3	0.0	0.0	6.4	100
Kilimanjaro	34.1	2.8	0.8	13.3	0.5	0.5	0.3	0.3	11.2	5.7	0.0	13.8	4.4	0.0	0.3	12.1	100
Tanga	56.1	0.5	1.0	5.9	0.5	0.0	0.0	0.5	10.3	7.4	5.1	2.3	1.6	0.5	0.5	7.7	100
Morogoro	54.8	1.3	0.8	6.9	1.0	0.0	0.3	0.0	5.1	4.9	1.8	8.7	3.6	0.8	1.6	8.5	100
Pwani	14.9	1.3	0.3	7.4	5.4	0.5	0.0	0.0	25.4	14.8	0.5	9.0	6.8	5.4	0.8	7.7	100
Dar es salaam	1.0	0.0	0.3	2.6	0.0	0.0	0.3	0.8	25.4	30.0	17.9	7.7	3.9	0.3	0.3	9.7	100
Lindi	79.5	0.5	0.0	6.9	0.0	0.3	0.0	0.0	5.9	2.6	1.3	0.0	2.1	0.3	0.0	0.8	100
Mtwara	30.8	0.0	0.0	32.2	0.0	0.0	0.8	0.3	10.3	6.9	0.8	2.3	3.9	2.6	0.5	8.7	100
Ruvuma	45.4	2.6	2.8	21.2	0.0	0.5	0.0	0.0	7.7	5.9	1.0	9.0	1.8	0.0	0.3	1.8	100
Iringa	31.7	3.6	1.0	2.8	0.3	1.0	0.8	1.3	12.3	14.1	2.8	9.8	3.1	0.5	9.5	5.4	100
Mbeya	43.6	0.0	2.1	16.6	0.0	0.0	0.3	0.0	9.8	8.2	3.6	4.6	6.7	0.3	0.8	3.6	100
Singida	49.2	2.6	0.8	14.1	1.0	0.3	0.8	0.8	9.0	4.6	2.0	4.9	0.5	0.3	0.8	8.5	100
Tabora	44.6	0.8	0.3	18.7	0.5	0.3	0.5	0.3	6.9	7.9	2.0	2.1	4.2	0.0	2.3	8.7	100
Rukwa	60.3	0.3	0.3	1.0	0.5	0.5	0.8	0.5	5.9	5.4	0.5	5.2	1.3	4.8	2.8	10.0	100
Kigoma	53.8	0.8	0.8	4.9	0.5	1.0	1.0	0.5	4.9	8.9	1.5	7.7	5.4	2.6	0.5	5.1	100
Shinyanga	56.9	1.3	1.0	9.5	1.3	0.0	0.3	0.5	4.1	7.4	0.8	14.6	0.5	0.3	0.0	1.6	100
Kagera	66.2	0.5	0.0	3.6	0.5	0.5	0.3	0.3	10.3	6.9	4.8	0.5	1.0	0.3	1.0	3.3	100
Mwanza	39.2	1.0	0.3	8.0	1.3	0.8	0.0	1.3	12.8	9.2	0.0	12.1	1.3	6.7	0.3	5.9	100
Mara	56.9	2.1	0.8	3.8	1.8	0.3	0.3	0.5	6.7	6.9	0.5	3.1	5.2	4.3	0.0	6.9	100
Manyara	27.1	15.4	2.6	8.7	0.3	0.5	0.0	0.8	6.1	5.9	0.3	18.5	0.3	0.0	0.3	13.4	100
Njombe	62.2	1.8	0.3	3.9	0.0	2.6	0.5	0.0	5.6	7.7	1.5	3.9	1.0	0.3	0.5	8.2	100
Katavi	54.6	0.5	0.3	9.5	0.8	0.5	0.0	0.3	10.3	10.5	0.5	3.6	4.2	1.3	0.8	2.6	100
Simiyu	50.0	4.1	0.8	13.8	1.0	0.3	1.5	0.3	5.1	2.3	0.5	4.4	0.5	0.0	1.5	13.9	100
Geita	65.3	0.5	0.2	1.2	0.0	0.0	0.0	0.2	11.3	4.8	2.2	4.8	1.0	0.2	0.2	8.0	100
Songwe	52.0	0.3	0.8	10.3	0.3	0.3	0.0	0.3	8.5	3.6	0.8	21.1	0.3	0.0	0.0	1.8	100
Total	40.6	2.2	0.7	9.5	0.6	0.4	0.3	0.6	12.0	10.1	3.6	7.4	2.9	1.2	0.9	6.8	100

Table 3.22 shows that five out of ten households (53.9 percent) in rural areas depend on selling food crops as their main source of income. Selling cash crops is another equally important major source of income in rural areas. Conversely, households in urban areas depend much on salaried/wage labor (23.1 percent) and income from business (22.9 percent) as their main source of income. The results reflect that majority of households in rural areas are being engaged in agricultural activities while those households in urban areas engaged themselves in paid employment and businesses.

Further analysis shows that the main source of income for male-headed households is selling food crops (41.9 percent) and income from the business. Similar pattern occurs for female-headed household (36.4 percent) in selling food crops and 13.7 percent in income from business.

Table 3.22: Percentage Distribution of Households by Place of Residence, sex of Head of Households and Main Source of Income

Place of residence and sex of heads of households	Main Source of Income																
	Selling food crops	Selling livestock	Selling livestock products	Selling cash crops	Selling charcoal	Selling woods	Selling firewood	Selling other forest products like honey/beeswax, bush fruits	Income from business	Salaried/wage labor (Only cash)	Payment in kind	Other sources of income	Financial support	Fishing/selling fish	Selling local brews	Other(Specify)	Total
Place of residence																	
Rural	53.9	2.8	0.8	12.3	0.6	0.5	0.4	0.6	6.7	3.8	1.1	6.3	2.4	1.3	1.1	5.4	100.0
Urban	13.4	0.7	0.6	3.9	0.8	0.1	0.3	0.6	22.9	23.1	8.6	9.6	4.1	1.0	0.5	9.7	100.0
Sex of Head of Household																	
Male Headed	41.9	2.3	0.8	10.5	0.5	0.4	0.2	0.5	11.5	10.7	3.7	7.0	1.4	1.4	0.6	6.5	100.0
Female Headed	36.4	1.8	0.6	6.4	1.1	0.3	0.7	0.9	13.7	8.2	2.9	8.7	7.9	0.5	2.1	7.9	100.0
Total	40.6	2.2	0.7	9.5	0.6	0.4	0.3	0.6	12.0	10.1	3.6	7.4	2.9	1.2	0.9	6.8	100.0

Table 3.23 present analysis on the amount of money spent on purchasing food consumed in last 7 days by region. Results indicate that among regions which spend less than 1000 Tanzanian Shillings on average for purchasing food consumed is Morogoro (6.7 percent) followed by Njombe (4.9 percent), Mtwara (2.6 percent) and Tabora (2.3 percent). Other regions each spend less than 2.3 percent. On the other hand, 70.8 percent of households in Dar es Salaam Region spend at least 30,000 Tanzanian Shillings for purchasing food consumed in last seven days during the survey compared to Mwanza Region (44.6 percent) and Mbeya Region (20.0 percent).

Table 3.23: Percentage Distribution of Households by Region and Amount of Money Spent on Purchasing Food Consumed in Last 7 Days

Region	Money spent on Purchasing Food (Tsh)								Total
	<1,000	1,000 - 1999	2,000 - 4999	5,000 - 9,999	10,000 - 14,999	15,000 - 19,999	20,000 - 29,999	30,000+	
Dodoma	2.1	0.5	6.2	14.4	27.4	6.9	14.8	27.7	100
Arusha	0.5	0.0	0.8	9.0	17.7	11.3	21.2	39.5	100
Kilimanjaro	0.0	0.0	1.5	6.2	8.0	7.7	24.6	52.0	100
Tanga	0.0	0.0	1.5	10.3	11.3	9.7	19.2	48.0	100
Morogoro	6.7	0.0	8.2	12.8	13.8	8.7	20.8	28.9	100
Pwani	0.0	0.8	1.0	3.6	6.4	3.9	18.7	65.6	100
Dar es salaam	1.3	0.5	0.5	4.6	10.5	1.3	10.5	70.8	100
Lindi	0.5	0.0	14.8	15.2	13.1	11	20.2	25.1	100
Mtwara	2.6	0.5	2.3	8.5	18.5	5.1	21.8	40.8	100
Ruvuma	0.5	0.5	11.0	15.2	17.9	8.7	17.2	29.0	100
Iringa	1.5	0.8	3.1	16.7	24.6	10.2	19.5	23.6	100
Mbeya	0.3	0.3	6.7	11.5	14.1	7.2	20.0	40.0	100
Singida	1.3	0.0	4.4	16.4	13.3	4.9	20.5	39.2	100
Tabora	2.3	0.8	7.5	10.6	21.3	9.2	23.3	25.1	100
Rukwa	1.8	0.3	7.7	24.9	20.2	8.0	16.6	20.5	100
Kigoma	0.8	1.5	7.7	17.2	19.0	10.8	17.2	25.9	100
Shinyanga	0.8	0.0	2.6	23.9	19.2	8.9	17.2	27.4	100
Kagera	0.8	0.3	2.1	9.5	16.2	11.5	25.6	34.1	100
Mwanza	1.0	0.5	6.2	11.1	11.0	8.7	16.9	44.6	100
Mara	1.5	0.0	3.3	13.9	19.0	13.8	22.3	26.2	100
Manyara	2.1	0.3	2.8	9.2	17.4	8.7	14.8	44.6	100
Njombe	4.9	0.5	12.1	19.5	18.2	8.2	15.1	21.5	100
Katavi	0.3	0.0	5.9	11.6	24.6	8.7	22.6	26.4	100
Simiyu	0.5	0.3	4.4	18.5	33.6	8.4	14.6	19.8	100
Geita	0.5	0.5	6.3	13.6	15	7.5	20.8	36.0	100
Songwe	0.3	0.3	8.7	24.1	15.9	12.8	17.1	20.8	100
Total	1.4	0.4	4.7	12.2	16.2	8.0	18.4	38.8	100

Table 3.24 shows that rural households spend high proportion of money for purchasing food consumed for less than 30,000 Tanzanian Shillings in all price categories in at least 7 days compared to households that reside in urban areas. Conversely, about 60.8 percent of households spend more than 30,000 Tanzania Shillings for purchasing food consumed in at least 7 days in urban areas compared to rural households (28.1 percent).

Table 3.24: Percentage Distribution of Households by Place of Residence, Sex of Head of Household and Amount of Money Spent on Purchasing Food Consumed in Last 7 Days

Place of residence and sex of head of households	Money spent on Purchasing Food (Tshs)								Total
	<1,000	1,000 - 1999	2,000 - 4999	5,000 - 9,999	10,000 - 14,999	15,000 - 19,999	20,000 - 29,999	30,000+	
Place of residence									
Rural	1.7	0.4	6.1	15.3	18.9	9.7	19.8	28.1	100
Urban	0.9	0.3	1.7	5.8	10.5	4.6	15.5	60.8	100
Sex of Head of Household									
Male_Headed	1.1	0.4	4.2	11.5	15.8	8.2	19.3	39.6	100
Female_Headed	2.4	0.3	6.2	14.3	17.3	7.5	15.6	36.4	100
Total	1.4	0.4	4.7	12.2	16.2	8	18.4	38.8	100

Table 3.25 reveals that in both rural and urban areas the value of food consumed by households in the last seven days from gifts or other way ranges between 5,000 and 9,999 Tanzania Shillings accounting for 62.1 percent in the rural areas and 46.1 percent in urban area.

Table 3.25: Percentage Distribution of Households by Place of Residence, Sex of Head of Households and Value of Food Consumed in the Household in last 7 Days from Gift/Other Way

Place of residence and sex of head of households	Value of Food (Tshs) consumed in the household in last 7 days from gift/from other way								Total
	<1,000	1,000 - 1999	2,000 - 4999	5,000 - 9,999	10,000 - 14,999	15,000 - 19,999	20,000 - 29,999	30,000+	
Place of Residence									
Rural	13.1	0.1	20.7	62.1	1.4	0.4	1	1.3	100
Urban	25.6	0.0	23.4	46.1	0.9	0.7	0.8	2.5	100
Sex of the Head of Household									
Male Headed	17	0.1	22	57.7	1.1	0.3	0.6	1.3	100
Female Headed	17.9	0.0	20.2	54.1	1.6	1.1	2.0	3.1	100
Total	17.2	0.1	21.6	56.8	1.2	0.5	0.9	1.7	100

Table 3.26 shows that majority of households spend less than TZS 10,000 in the last 12 months on house rent (86.6 percent), land/building property tax (96.1 percent), school fees (91.3 percent) and repair main dwelling or other appliances (81.0 percent). Furthermore, the results show that majority of households spend more than TZS 70,000 in Public/Private transport (80.9 percent), farming (72.5 percent) and medical expense (54.7 percent).

The findings indicate (as shown in Table 3.26 that the amount of money which households spend on house rent is small due to the fact that most of the households own House/Household dwelling(s) (70.7 percent). School fee also seems to be less expensive for the households and this may be due to the implementation of free education up to secondary education level. Households spend more money on farming since agriculture is the main economic activity for majority of Tanzania and they have to spend money on the preparation of farms, buying agricultural inputs like seeds and fertilizers.

Table 3.26: Percentage Distribution of Households by Non-Food Items and Amount of Money Spent in last 12 Months

None Food Items	Amount of Money spent (TShs) in last 12 months							Total
	<10,000	10,000 - 14,999	15,000 - 19,999	20,000 - 29,999	30,000 - 49,999	50,000 - 69,999	70,000+	
House Rent	86.6	0.6	0.3	0.5	1.1	1.6	9.2	100.0
Land	96.1	0.5	0.9	0.8	0.5	0.5	0.7	100.0
Public/Private transport.	19.1	0.0	0.0	0.0	0.0	0.0	80.9	100.0
Repair main dwelling or other appliances	81.0	0.1	0.7	1.5	1.6	3.1	11.9	100.0
School fees	91.3	0.0	0.0	0.0	0.0	0.0	8.7	100.0
Remittance sent to family members or others	67.7	0.2	2.3	4.3	4.7	7.9	12.9	100.0
Purchase or repair transport facilities/agricultural Equipment	43.5	2.3	35.0	6.9	2.9	2.8	6.7	100.0
Medical expense	18.4	0.7	4.4	4.7	7.2	9.9	54.7	100.0
Water bill/purchased water.	51.4	0.0	0.0	0.0	0.0	2.3	46.2	100.0
Farming.	27.5	0.0	0.0	0.0	0.0	0.0	72.5	100.0
Clothing(school uniforms and others)	24.6	0.7	1.9	5.7	7.6	24.3	35.2	100.0
Religious, occasions, marriage and funerals	28.1	5.9	2.6	5.8	6.8	19.1	31.8	100.0

CHAPTER FOUR

4.0 Household Connectivity and Use of Energy

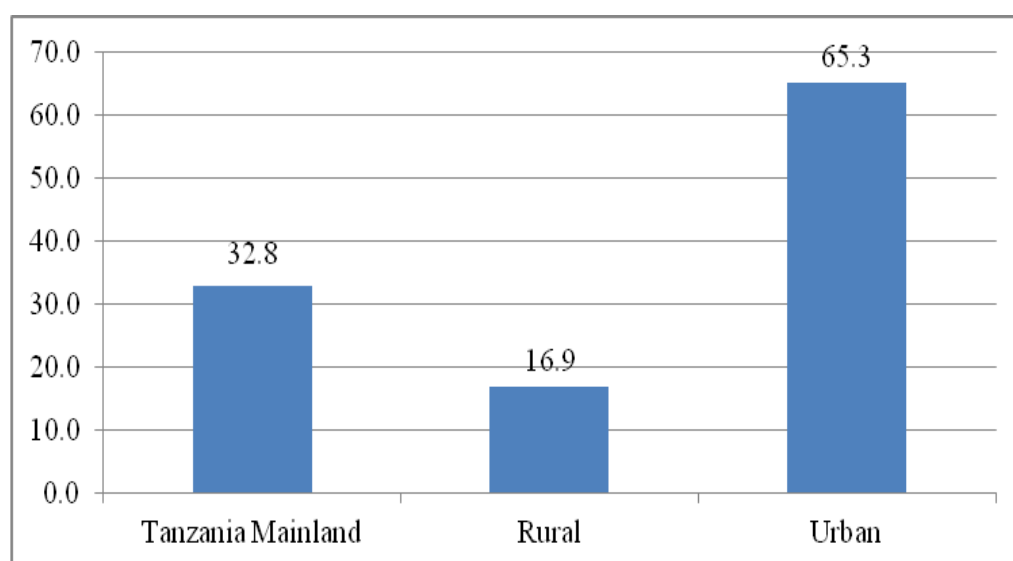
4.1 Introduction

Chapter four discusses in detail the findings of the Survey on the connectivity of energy in terms of distribution and use of electricity at household level, ability and willingness of households to pay bills and how people perceive on the availability and accessibility of energy. It also provides views on the availability and market prices of alternative energy sources.

4.2 Electricity Connection

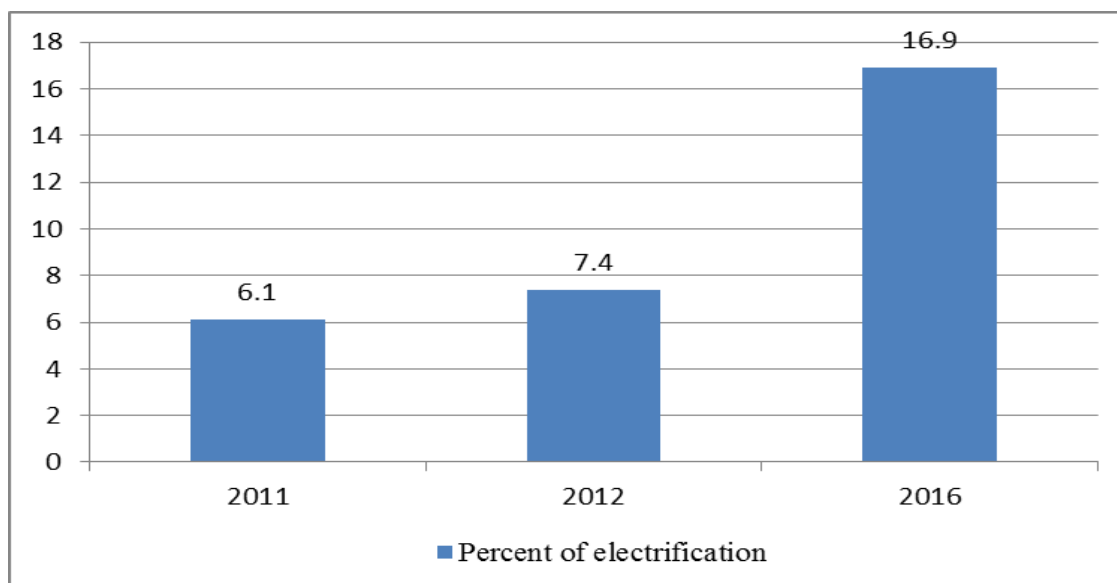
Increasing pace of electricity connection especially in rural areas is one of the fundamental principles of establishing the Rural Energy Agency (REA). The 2016 Energy Access Situation Survey results show a significant improvement of electricity connection at household level in both rural and urban areas of the Tanzania Mainland since 2011. The 2011/12 Household Budget Survey and the 2011 Baseline Survey Report for Energy Access and Use in Tanzania Mainland showed that 6.1 percent of rural households were connected to electricity of any form. Likewise, the 2012 Population and Housing Census recorded 7.4 percent of rural households had connected to any form of electricity including; grid, solar energy and private entity/individual electricity generated from owned sources (excluding solar). Furthermore, the 2016 Energy Access Situation Survey findings in Figure 4.1 show that 32.8 percent of all households in Tanzania Mainland were connected to electricity of any form with rural and urban areas recorded 16.9 and 65.3 percent respectively.

Figure 4.1: Percentage Distribution of Households Connected to Electricity of Any Form by Place of Residence, Tanzania Mainland; 2016



The information on the trend of rural household connected to electricity is important in understanding the the main objective of establishment of Rural Energy Agency (REA). It is an important factor in tracking the performance of the Agency. Regarding to this, Figure 4.2 reveals significant improvement in connecting rural households with electricity.

Figure 4.2: Percentage Distribution of Household Connected to Electricity of Any Form in Rural Areas; 2011, 2012 and 2016



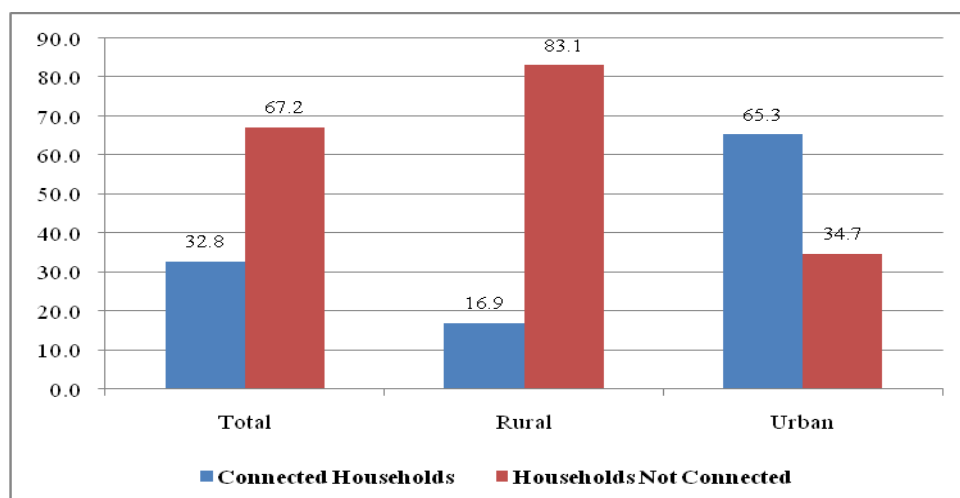
Source: Compiled Data from the 2011 REA Baseline Survey, 2012 PHC and 2016 Energy Access Situation Survey, Tanzania Mainland

4.2.1 Households Connected to Electricity

The 2016 Energy Access Situation Survey collected information on connectivity of electricity to the main dwelling of the household. The results show that, overall, 32.8 percent of the households in Tanzania Mainland were connected to electricity by 2016.

Looking at rural - urban differentials, Figure 4.3 shows connection of electricity to urban dwellings in 2016 was higher (65.3 percent) than that of rural households (16.9 percent). Likewise, Figure 4.3 shows bigger variation of the proportion of households not connected to electricity in urban dwellings (34.7 percent) compared to rural dwellings (83.1 percent).

Figure 4.2: Percentage Distribution of Electrification of Main Dwellings by Place of Residence (Rural and Urban)



4.2.2 Differentials among Regions

As seen in the baseline survey, regional differentials were still more common within and among all regions of Tanzania Mainland. Again, Dar es Salaam region has the highest proportion of households connected to electricity of any form (75.2 percent) followed by Njombe region (50.5 percent), Kilimanjaro (42.6 percent) and Katavi (40.0 percent). Regions which had proportions of households less than 20 percent connected to electricity include Rukwa (8.7 percent), Simiyu (11.5 percent), Shinyanga (12.8 percent), Geita (14.0 percent), Songwe (15.9 percent) and Kigoma (16.2 percent).

Apart from Dar es Salaam region, which is purely urban, Rukwa region was severely affected since only 3.3 percent of its rural households were connected to the electricity in 2016 (Table 4.1). Table 4.1 and Map 4.1 also show other regions which had below 10 percent of their rural households connected to electricity, include: Songwe (6.0 percent), Kigoma (6.7 percent), Shinyanga (7.0 percent), Simiyu (9.3 percent) and Manyara (9.7 percent). The situation is different for urban areas since the dwellings that connected to the electricity ranged from 26.6 percent (Rukwa region) to 88.7 percent (Kagera region).

Table 4.1: Percentage Distribution of Households Connected to Electricity by Region and Place of Residence

Region	Total			Rural		Urban	
	Total HHs	Connected	Not Connected	Total HHs	Connected	Total HHs	Connected
Dodoma	590,106	23.5	76.5	499,290	16.9	90,817	60.0
Arusha	469,204	39.7	60.3	306,509	25.1	162,694	67.4
Kilimanjaro	499,128	42.6	57.4	383,952	32.4	115,176	76.7
Tanga	572,083	30.5	69.5	439,666	19.3	132,417	67.8
Morogoro	655,833	24.3	75.7	453,798	11.8	202,036	52.4
Pwani	333,150	32.8	67.2	216,087	22.5	117,063	51.8
Dar es salaam	1,417,251	75.2	24.8	-	-	1,417,251	75.2
Lindi	293,907	20.0	80.0	237,279	18.0	56,628	28.0
Mtwara	448,463	33.0	67.0	337,833	24.1	110,630	60.3
Ruvuma	392,519	31.8	68.2	286,460	23.2	106,059	55.2
Iringa	289,324	39.5	60.5	211,231	29.5	78,094	66.7
Mbeya	412,915	34.1	65.9	254,064	12.9	158,851	68.0
Singida	334,525	22.3	77.7	295,744	15.0	38,780	77.6
Tabora	483,265	21.8	78.2	408,880	13.9	74,385	65.0
Rukwa	259,632	8.7	91.3	199,587	3.3	60,045	26.6
Kigoma	483,363	16.2	83.8	391,543	6.7	91,820	56.7
Shinyanga	339,428	12.8	87.2	260,910	7.0	78,517	32.2
Kagera	678,574	24.6	75.4	600,054	16.2	78,520	88.7
Mwanza	630,094	32.8	67.2	387,434	17.9	242,659	56.6
Mara	403,837	21.3	78.7	325,812	14.2	78,024	50.7
Manyara	354,642	20.6	79.4	299,895	9.4	54,747	81.8
Njombe	221,565	50.5	49.5	161,848	45.9	59,717	62.8
Katavi	103,890	40.0	60.0	75,873	31.5	28,016	62.8
Simiyu	298,960	11.5	88.5	287,419	9.3	11,541	66.5
Geita	76,553	14.0	86.0	62,706	10.3	13,847	30.6
Songwe	412,608	15.9	84.1	317,343	6.0	95,264	48.9
Total	11,454,818	32.8	67.2	7,701,218	16.9	3,753,615	65.3

Map 4.1: Percentage Distribution of Households Connected to Electricity by Region



Legend

- International Boundary
- Regional Boundary
- Waterbody

Dwelling Connected

- 50.6 - 75.2
- 34.2 - 50.5
- 24.7 - 34.1
- 16.3 - 24.6
- 8.7 - 16.2



4.2.3 Sex Differentials of Head of Households

The 2016 survey results show that there was variation between households which are headed by males and those headed by females (Table 4.2). The proportion of households with electricity connection was slightly higher among male headed households (32.9 percent) than female headed households (32.3 percent). Similar observations were experienced in both rural and urban residents, of which the proportions of male headed households in rural areas were higher (18.3 percent) than those of female headed households (11.7 percent). Variations among male and female headed households with electricity connection in urban areas were also significant. Table 4.2 shows that male headed households were higher (66 percent) than those headed by female (63.5 percent). Regarding regional variations especially those relating to rural setting, with exception of Dar es Salaam region, rest regions have lower proportions of rural female headed households connected to electricity than male headed households. Such notable ones include Dodoma (3.9 percent versus 20.9 percent), Singida (4.3 percent versus 16.8 percent) and Kagera (4.3 percent versus 19.2 percent).

Table 4.2: Percentage Distribution of Households Connected to Electricity by Region, Place of Residence and Sex

Region	Total			Rural			Urban		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Dodoma	23.5	27.2	12.0	16.9	20.9	3.9	60.0	62.2	53.3
Arusha	39.7	39.7	39.8	25.1	27.1	16.7	67.4	67.4	67.5
Kilimanjaro	42.6	41.4	45.7	32.4	31.1	35.8	76.7	75.8	79.2
Tanga	30.5	28.5	35.3	19.3	20.3	16.7	67.8	63.5	73.7
Morogoro	24.3	25.3	21.8	11.8	12.1	10.9	52.4	57.8	40.5
Pwani	32.8	36.3	22.1	22.5	25.9	11.7	51.8	55.9	40.0
Dar es salaam	75.2	73.5	79.8	-	-	-	75.2	73.5	79.8
Lindi	20.0	21.9	13.5	18.0	20.5	9.1	28.0	28.8	26.1
Mtwara	33.0	34.8	27.5	24.1	26.5	15.0	60.3	64.6	51.6
Ruvuma	31.8	30.5	37.5	23.2	23.4	21.6	55.2	55.7	54.3
Iringa	39.5	39.0	41.0	29.5	30.5	25.8	66.7	67.2	65.8
Mbeya	34.1	35.1	30.5	12.9	14.7	6.1	68	68.4	66.7
Singida	22.3	23.2	17.5	15.0	16.8	4.3	77.6	89.7	56.3
Tabora	21.8	23.1	17.7	13.9	16.0	7.5	65.0	63.6	68.8
Rukwa	8.7	8.8	8.5	3.3	2.9	5.5	26.6	31.7	14.8
Kigoma	16.2	15.8	17.2	6.7	6.0	9.0	56.7	61.1	45.0
Shinyanga	12.8	12.0	16.2	7.0	6.3	10.4	32.2	34.4	26.9
Kagera	24.6	27.1	15.5	16.2	19.2	4.3	88.7	100	66.7
Mwanza	32.8	33.9	28.9	17.9	20.3	7.0	56.6	58.2	52.5
Mara	21.3	22.0	19.7	14.2	17.3	6.0	50.7	51.4	50.0
Manyara	20.6	18.3	32.3	9.4	9.8	6.8	81.8	76.2	94.4
Njombe	50.5	54.0	41.0	45.9	49.8	34.7	62.8	66.7	54.5
Katavi	40.0	41.6	32.9	31.5	33.6	20.5	62.8	65.8	53.8
Simiyu	11.5	12.2	9.4	9.3	10.2	6.7	66.5	77.8	50.0
Geita	14.0	14.2	13.0	10.3	10.8	7.8	30.6	31.6	27.8
Songwe	15.9	16.6	12.9	6.0	7.3	0.0	48.9	48.6	50.0
Total	32.8	32.9	32.3	16.9	18.3	11.7	65.3	66.0	63.5

4.3 Sources of Energy

- ❖ **3,753, 615 households in Tanzania Mainland were electrified with any form of electricity. This is equivalent to 32.8 percent of 11,454,818 households of the Tanzania Mainland;**
- ❖ **Of the electrified Tanzania Mainland's households, 74.9 percent electrified with grid, private entity/individual electricity generated from owned sources(excluding solar) (0.3 percent) and solar power (24.7 percent),**
- ❖ **Of the electrified households in Tanzania Mainland, 1,301,749 are in rural areas (34.7 percent);**
- ❖ **Of the electrified rural households, 34.5 percent electrified with grid, private entity/individual electricity generated from owned sources(excluding solar) (0.6 percent) and solar power (64.8 percent);**
- ❖ **Electrified urban households were 2,451,866 which were 65.3 percent of the total electrified households in Tanzania Mainland;**
- ❖ **Of the electrified urban households, 96.4 percent electrified with grid, private entity/individual electricity generated from owned sources(excluding solar) (0.2 percent) and solar power (3.4 percent)**

Energy deeply influences people's lives. It is central to practically all aspects of human welfare, including access to water, agricultural productivity, health care, education, job creation, climate change, and environmental sustainability. The 2016 survey was commissioned to map the energy access situation in Tanzania Mainland, with a focus on rural electrification. The survey results show that, for the households reported to be connected to electricity, they were receiving electricity supplied through grid, electricity generated through private entity/individual owned sources(excluding solar) generated at household level and electricity generated from solar power.

Figure 4.4 shows that 74.9 percent of households in Tanzania Mainland connected to electricity supplied through grid. The results also show that, 24.7 percent of households were using electricity generated from solar power and only 0.3 percent were using private entity/individual electricity generated from owned sources (excluding solar).

Figure 4.3: Percentage Distribution of Households Connected to Electricity by Main Source of Energy; Tanzania Mainland

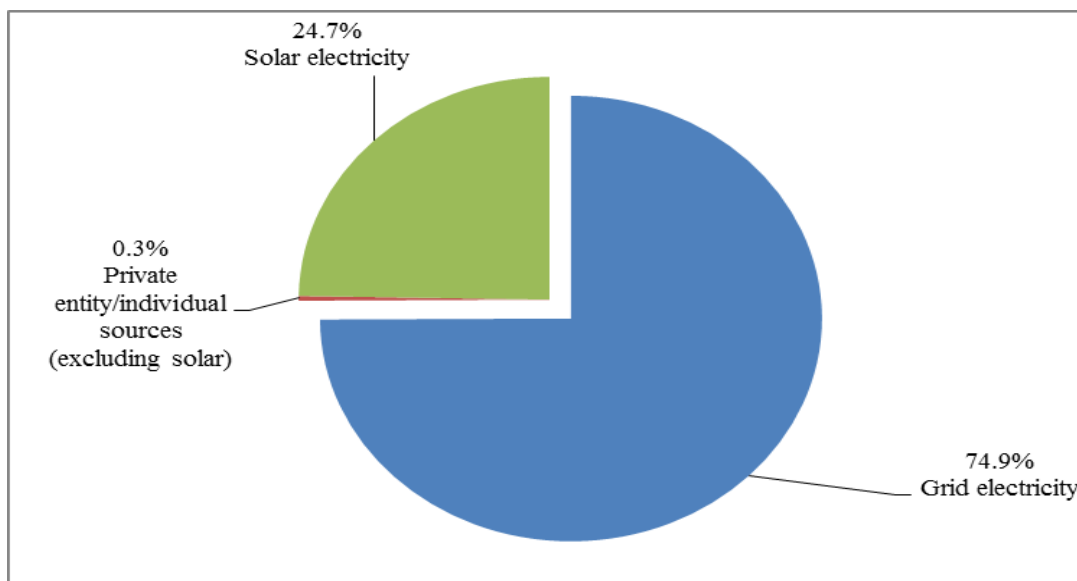
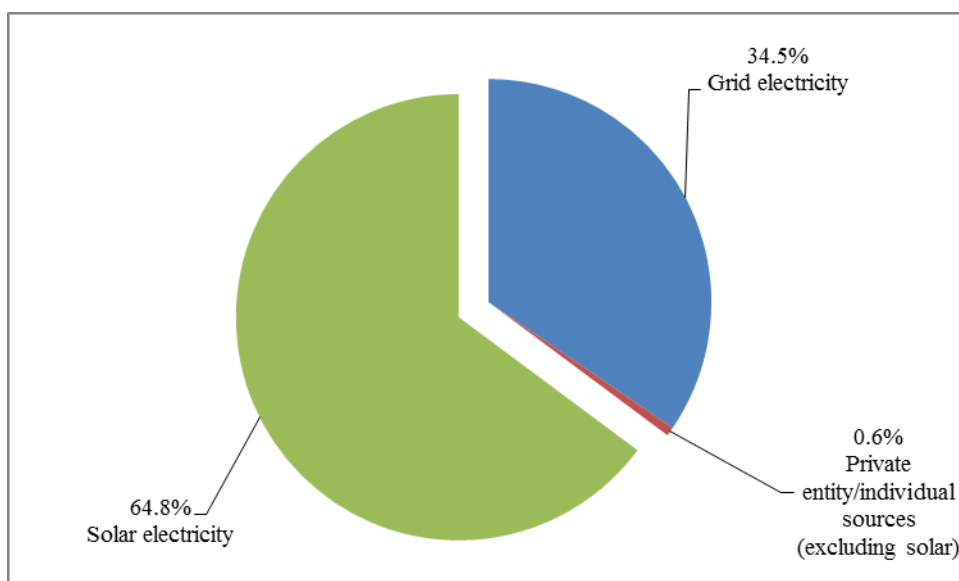


Figure 4.4a shows that 34.5 percent of rural households connected to electricity were supplied through grid. The results also show that, solar power is the dominant electricity source in rural areas as 64.8 percent of the rural households were using electricity generated from solar power. Private entity/individual electricity generated from owned sources (excluding solar) was the least source of electricity among rural households (0.6 percent).

Figure 4.4a: Percentage Distribution of Rural Households Connected to Electricity by Main Source of Energy

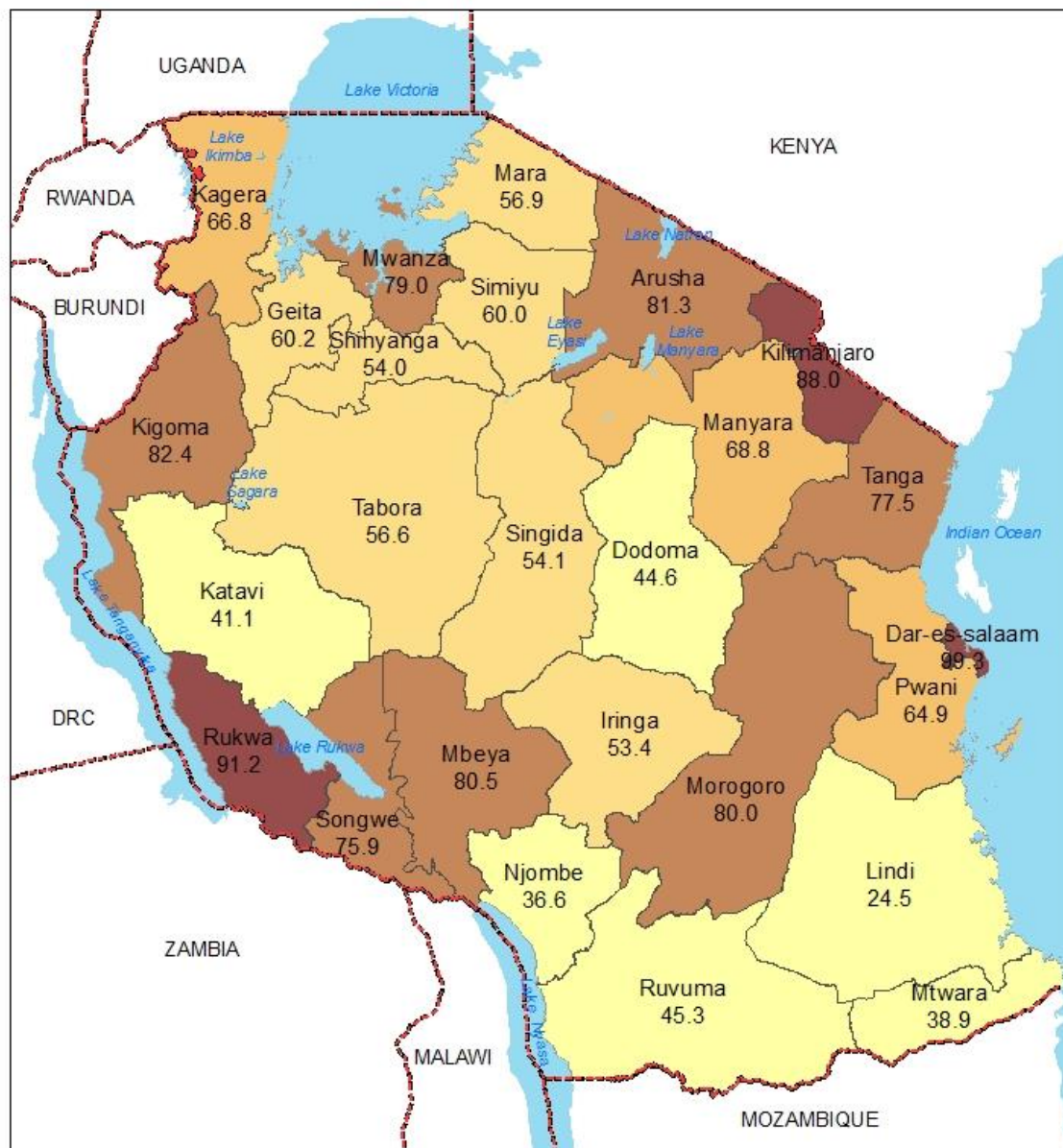


Observing across the regions of Tanzania Mainland, Table 4.3 and Map 4.2 show that, leading region for households connected to grid electricity was Dar es Salaam (99.3 percent) followed by Rukwa (91.2 percent) and Kilimanjaro (88.0 percent). The least connected regions were Lindi (24.5 percent), Njombe (36.6 percent), Mtwara (38.9 percent) and Katavi (41.1 percent). Table 4.3 and Map 4.3 also show that, solar power electricity was significant in Lindi (75.5 percent), Njombe (63.4 percent), Mtwara (61.1 percent), Katavi (57.6 percent) and Ruvuma (54.7 percent). Table 4.3 further shows that percentage of households using private entity/individual electricity generated from owned sources (excluding solar) was insignificant across the regions and households in Geita region lead with 5.1 percent followed by households in Kigoma and Songwe regions each with 1.6 percent and Katavi (1.3 percent).

Table 4.3: Percentage Distribution of Households Connected to Electricity by Region and Source of Energy

Region	Total of all types of Electricity	Grid	Private Entity/individual electricity owned Sources(Excluding solar)	Solar Electricity
Dodoma	23.5	44.6	1.1	54.3
Arusha	39.7	81.3	0.0	18.7
Kilimanjaro	42.6	88.0	0.6	11.4
Tanga	30.5	77.5	0.8	21.7
Morogoro	24.3	80.0	1.0	18.9
Pwani	32.8	64.9	0.0	35.1
Dar es salaam	75.2	99.3	0.0	0.7
Lindi	20	24.5	0.0	75.5
Mtwara	33	38.9	0.0	61.1
Ruvuma	31.8	45.3	0.0	54.7
Iringa	39.5	53.4	0.6	46.0
Mbeya	34.1	80.5	0.0	19.5
Singida	22.3	54.1	0.0	45.9
Tabora	21.8	56.6	0.0	43.4
Rukwa	8.7	91.2	0.0	8.8
Kigoma	16.2	82.4	1.6	15.9
Shinyanga	12.8	54.0	0.0	46.0
Kagera	24.6	66.8	1.0	32.2
Mwanza	32.8	79.0	0.0	21.0
Mara	21.3	56.9	1.2	41.9
Manyara	20.6	68.8	0.0	31.2
Njombe	50.5	36.6	0.0	63.4
Katavi	40	41.1	1.3	57.6
Simiyu	11.5	60.0	0.0	40.0
Geita	14	60.2	5.1	34.7
Songwe	15.9	75.9	1.6	22.5

Map 4.2: Percentage Distribution of Households Connected to Grid Electricity by Region



Legend

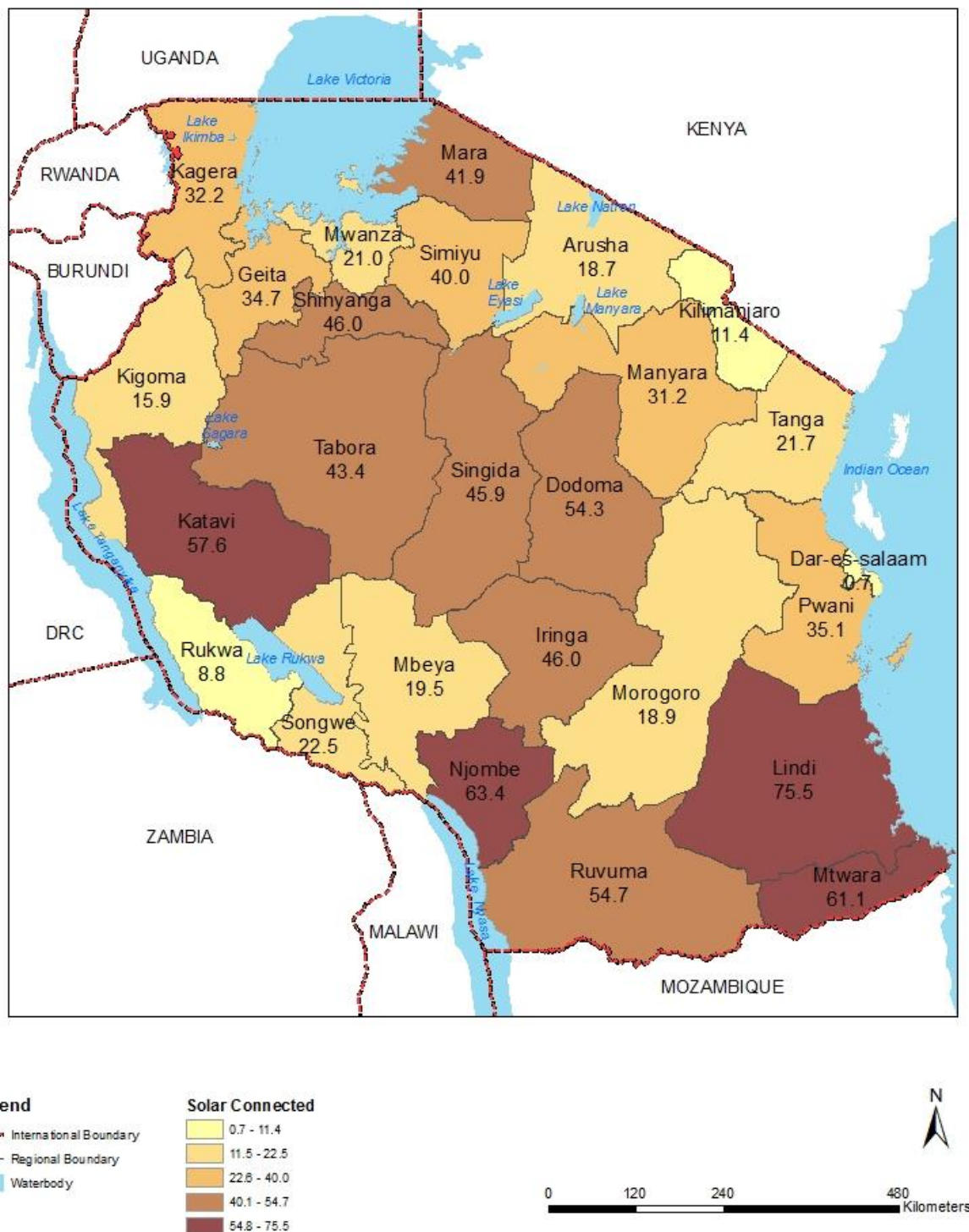
- International Boundary
- Regional Boundary
- Waterbody

Grid Connected

- 24.5 - 45.3
- 45.4 - 60.2
- 60.3 - 68.8
- 68.9 - 82.4
- 82.5 - 99.3



Map 4.3: Percentage Distribution of Households using Solar power Electricity by Region



Disparities on sources of energy were significant between rural and urban residents. Figure 4.4b shows that, households connected to grid electricity were lower (34.5 percent) in rural than urban areas (96.4 percent). Whist, households connected to solar power was higher (64.8 percent) in rural than in urban areas (3.4 percent).

Figure 4.4b: Percentage Distribution of Households Connected to Electricity by Source of Energy and Place of Residence

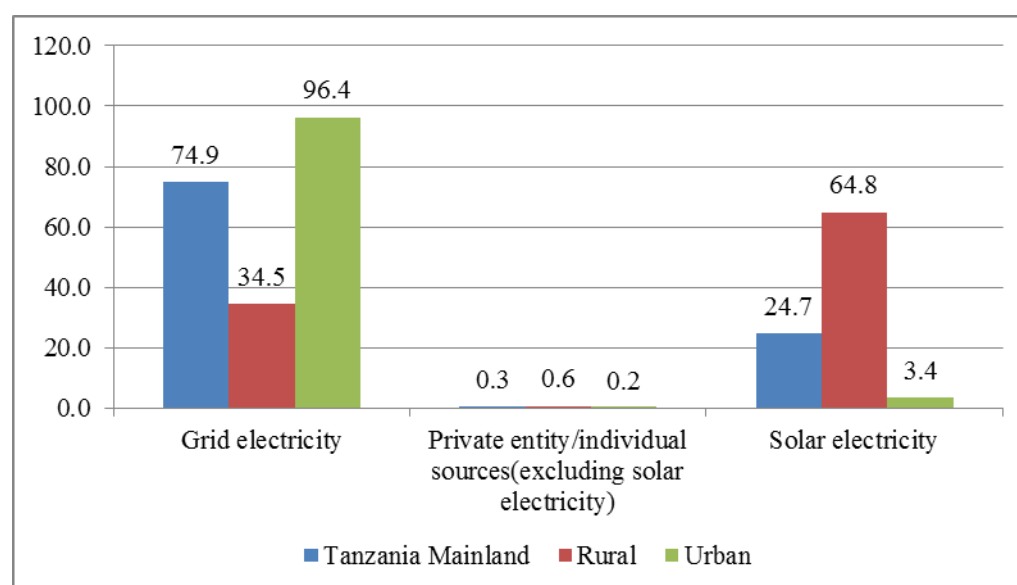


Table 4.4 shows disparities on the connectivity of energy sources between rural and urban locations. Majority of households in rural areas prefers solar energy since 64.8 percent of households were connected to solar power. While 96.4 percent of urban households were connected through grid electricity, there is significant percentage (34.5 percent) of rural households connected through grid electricity. Nevertheless, only 3.4 percent of urban households connected to solar power (Table 4.4). Looking at regional level, Kilimanjaro region has the highest percentage of rural households connected through grid electricity (80.5 percent) and Mtwara was the least region with only 1.4 percent of its households connected through grid electricity followed by Katavi (5.5 percent) and Ruvuma (10.6 percent) and Dodoma (10.7 percent). One general observation from these data is that more efforts are needed to improve the accessibility of modern energies to rural residents in order to achieve sets of energy targets by 2030 as stipulated in 2015 Energy Policy.

Table 4.4: Percentage Distribution of Households Connected to Electricity by Region, Place of Residence and Source of Energy

Region	Rural				Urban			
	Total	Grid	Private entity/individual electricity owned Sources(excluding Solar power)	Solar Power	Total	Grid	Private entity/individual electricity owned Sources(excluding Solar power)	Solar Power
Total	1,301,749	34.5	0.6	64.8	2,451,866	96.4	0.2	3.4
Dodoma	84,360	10.7	1.8	87.5	54,453	97.2	0.0	2.8
Arusha	76,810	57.8	0.0	42.2	109,669	97.8	0.0	2.2
Kilimanjaro	124,231	80.5	1.0	18.5	88,320	98.6	0.0	1.4
Tanga	84,928	53.7	1.7	44.6	89,829	100	0.0	0.0
Morogoro	53,760	53.1	0.0	46.9	105,889	93.6	1.6	4.8
Pwani	48,549	29.9	0.0	70.1	60,582	93	0.0	7.0
Dar es salaam	NA	NA	NA	NA	1,065,162	99.3	0.0	0.7
Lindi	42,828	12.4	0.0	87.6	15,848	57.3	0.0	42.7
Mtwara	81,433	1.4	0.0	98.6	66,763	84.5	0.0	15.5
Ruvuma	66,324	10.6	0.0	89.4	58,577	84.6	0.0	15.4
Iringa	62,217	23.9	1.2	74.9	52,056	88.6	0.0	11.4
Mbeya	32,731	25.8	0.0	74.2	108,007	97.1	0.0	2.9
Singida	44,470	23.1	0.0	76.9	30,091	100	0.0	0.0
Tabora	56,841	30.5	0.0	69.5	48,368	87.3	0.0	12.7
Rukwa	6,672	70.2	0.0	29.8	15,960	100	0.0	0.0
Kigoma	26,067	61.8	0.0	38.2	52,043	92.8	2.4	4.8
Shinyanga	18,298	0.0	0.0	100	25,271	93.1	0.0	6.9
Kagera	97,055	42.9	1.8	55.3	69,656	100	0.0	0.0
Mwanza	69,231	44.2	0.0	55.8	137,442	96.5	0.0	3.5
Mara	46,370	31.2	0.0	68.8	39,526	86.9	2.6	10.5
Manyara	28,147	19.3	0.0	80.7	44,760	100	0.0	0.0
Njombe	74,282	12.2	0.0	87.8	37,499	84.9	0.0	15.1
Katavi	23,928	5.5	2.2	92.2	17,595	89.4	0.0	10.6
Simiyu	26,781	48.6	0.0	51.4	7,676	100	0.0	0.0
Geita	6,474	51.2	0.0	48.8	4,244	73.8	13.0	13.2
Songwe	18,961	16.7	5.6	77.8	46,579	100	0.0	0.0

N/A: Not Applicable

4.3.1 Mode of Payment for Electricity Connections

- ❖ Almost all households connected to grid electricity before 2000 paid less than TSh. 100,000 connection charges,
- ❖ Rural and urban households almost had similar proportions of households paid connection charges once only,
- ❖ 96.2 percent of households fully paid electricity connection charges themselves,
- ❖ In 2016, 55.6 percent of households were connected within one month after they had paid fully the connection charges.

Overall, majority of households paid less than 100,000 Tanzanian Shillings as costs for the connections and less than one percent of households paid more than one million Tanzanian Shillings as connection charges (Table 4.5). Before year 2000, among households which were connected to grid electricity, almost all households (95.6 percent) were connected after paying less than 100,000 Tanzanian Shillings. In 2016, 31.5 percent of households which had electricity connections paid less than 100,000 Tanzanian shillings, 23.8 percent paid between 100,000 and 299,999 Tanzanian shillings for electricity connections and 31.4 percent paid between 300,000 and 499,999 Tanzanian shillings for connections. Less than one percent paid more than one million Tanzanian shillings.

Table 4.5: Percentage Distribution of Households connected with Electricity by Year of Connection and Amount Paid for Connection

Year of Connection	Amount Paid for Connection (in TShs)							
	Total	<100,000	100000 - 299999	300000 - 499999	500000 - 699999	700000 - 899999	900,000 - 1099,000	1,100,000 and above
Total	100	79.8	6.1	9.1	3.1	0.9	0.4	0.6
Before 2000	100	95.6	1.9	1.6	0.6	0.1	0.1	0.0
2000-2001	100	0.0	24.3	45.5	19.4	10.8	0.0	0.0
2002-2003	100	1.7	25.5	56.4	12.8	2.0	1.6	0.0
2004-2005	100	1.9	31.1	43.3	14.7	6.6	0.0	2.4
2006-2007	100	9.1	22.8	32.0	18.4	8.5	5.2	4.0
2008-2009	100	4.6	16.6	50.0	17.7	5.7	0.6	4.8
2010-2011	100	6.5	17.9	50.3	16.2	5.2	0.0	3.8
2012-2013	100	4.9	29.5	43.3	14.4	3.7	0.7	3.5
2014-2015	100	18.2	24.3	36.9	11.8	3.5	1.8	3.5
2016	100	31.5	23.8	31.4	9.1	1.6	1.7	0.8

Payment of electricity connections are usually made before installations are made. Therefore, households which were connected to grid electricity were asked to indicate whether the connection charges were paid once or more than once. Table 4.6 shows that 79.3 percent of all households were able to pay the connection charges once only, 20.7 percent paid more than once. This pattern is almost similar in both rural and urban areas. Likewise, more than three quarters of households paid the electricity connections charges once only during the whole period before year 2000 and 2016.

Table 4.6: Percentage Distribution of Households with Electricity Connections by Year of Connection, Place of Residence and Mode of Payment

Year of Electricity Connection	Total			Rural			Urban		
	Total	Paid once	Paid more than once	Total	Paid once	Paid more than once	Total	Paid once	Paid more than once
Total	100	79.3	20.7	100	78.1	21.9	100	79.6	20.4
Before 2000	100	79.3	20.7	100	74.6	25.4	100	79.6	20.4
2000-2001	100	74.6	25.4	100	66.4	33.6	100	75.5	24.5
2002-2003	100	81.5	18.5	100	100	0.0	100	80.4	19.6
2004-2005	100	78.9	21.1	100	83.1	16.9	100	78.6	21.4
2006-2007	100	76.1	23.9	100	100	0.0	100	75.4	24.6
2008-2009	100	77.1	22.9	100	65.0	35.0	100	77.9	22.1
2010-2011	100	80.3	19.7	100	80.1	19.9	100	80.3	19.7
2012-2013	100	75.7	24.3	100	78.6	21.4	100	75.2	24.8
2014-2015	100	79.3	20.7	100	70.7	29.3	100	82.8	17.2
2016	100	85.5	14.5	100	86.0	14.0	100	84.9	15.1

Table 4.7 examines the modality which was adopted in paying connection charges. Among households which paid less than 100,000 Tanzanian shillings, 84.8 percent paid once only and 15.2 paid more than once. This pattern is similar in payments made for the different amounts except the payments of connection charges of 700,000 - 899,999 and 900,000 - 1,099,999 differed whereby the proportions of households which made payments more than once were quite high. While the proportion of households which made more than once payments for charges between 700,000 - 899,999 accounted for 41.4 percent, it increased to 45.7 percent among households who paid between 900,000 - 1,099,999 Tanzanian shillings.

Table 4.7: Percentage Distribution of Households with Electricity Connections by Amount Paid for Connection, Place of Residence and Mode of Payment

Amount Paid for Connection (TShs)	Total			Rural			Urban		
	Total	Paid Once	Paid more than Once	Total	Paid Once	Paid more than Once	Total	Paid Once	Paid more than Once
Total	100	79.3	20.7	100	78.1	21.9	100	79.6	20.4
<100,000	100	84.8	15.2	100	86.9	13.1	100	83.7	16.3
100,000-299,999	100	79.2	20.8	100	75.6	24.4	100	80.1	19.9
300,000-499,999	100	80.9	19.1	100	69.3	30.7	100	82.0	18.0
500,000-699,999	100	76.7	23.3	100	59.9	40.1	100	77.8	22.2
700,000-899,999	100	58.6	41.4	100	62.3	37.7	100	58.4	41.6
900,000-1,099,999	100	54.3	45.7	100	64.7	35.3	100	52.4	47.6
1,100,000+	100	75.3	24.7	100	90.1	9.9	100	72.6	27.4

When households were required to indicate if they received any financial support when they were paying connection charges, overall, 96.2 percent were able to meet the expenses themselves, about two percent were supported or acquired loan to meet the connection charges and one percent were fully supported (Table 4.8).

Table 4.8: Percentage Distribution of Households with Electricity by Year Connected, Place of Residence and Whether Assisted in Paying for Connection

Year of Electricity Connection	Total				Rural				Urban			
	Total	Fully Paid by Household members	Part paid by household	All supported/loaned	Total	Fully Paid by Household members	Part paid by household	All supported/loaned	Total	Fully Paid by Household members	Part paid by household	All supported/loaned
Total	100	96.2	2.3	1.4	100	95.3	2.6	2.1	100	96.4	2.3	1.3
Before 2000	100	96.0	2.1	1.9	100	100	0.0	0.0	100	95.7	2.2	2.0
2000-2001	100	81.6	18.4	0.0	100	100	0.0	0.0	100	79.5	20.5	0.0
2002-2003	100	97.3	1.7	1.0	100	66.5	16.5	17	100	99.2	0.8	0.0
2004-2005	100	97.1	2.9	0.0	100	100	0.0	0.0	100	96.9	3.1	0.0
2006-2007	100	95.6	4.4	0.0	100	100	0.0	0.0	100	95.4	4.6	0.0
2008-2009	100	98.0	2.0	0.0	100	100	0.0	0.0	100	97.9	2.1	0.0
2010-2011	100	95.7	1.1	3.3	100	84.1	0.0	15.9	100	96.7	1.1	2.2
2012-2013	100	95.5	2.7	1.8	100	97.7	2.3	0.0	100	95.1	2.8	2.1
2014-2015	100	97.0	2.4	0.6	100	93.8	5.7	0.5	100	98.3	1.0	0.7
2016	100	96.3	0.4	3.3	100	96.9	0.0	3.1	100	95.8	0.8	3.4

When one pays for electricity connection charges, it is expected that such connection would be made within a reasonable time. In this regard, households were asked to determine the time they had to wait after fully paying electricity connection charges before they were connected. Table 4.9

shows that 46.2 percent of households were connected within one month after they had paid fully the connection charges, 22.8 percent waited between one and three months, 7.6 percent waited for three months and 19 percent had to wait for more than three months before they were connected. In 2016, 55.6 percent of households were connected within one month after they had paid fully the connection charges, 18.2 percent were connected between one and three months, 8.2 percent waited for three months and 17.4 percent took them more than three months to have their households were connected.

Table 4.9: Percentage Distribution of Households Connected with Electricity by Year Connected, Place of Residence and Waiting Time Before Connection was Made

Year of Electricity Connection	Total						Rural						Urban					
	Total	Within one month	1-3 months	3 months	>3 months	Don't know	Total	Within one month	1-3 months	3 months	>3 months	Don't know	Total	Within one month	1-3 months	3 months	>3 months	Don't know
Total	100	46.2	22.8	7.6	19.0	4.4	100	42.5	21.2	9.2	20.9	6.1	100	46.9	23.1	7.3	18.6	4.1
Before 2000	100	45.9	20.4	6.6	19.0	8.1	100	39.0	9.2	6.9	24.2	20.7	100	46.3	21.1	6.6	18.7	7.3
2000-2001	100	31.3	35.2	7.4	26.1	0.0	100	23.9	42.5	0.0	33.6	0.0	100	32.1	34.4	8.2	25.3	0.0
2002-2003	100	39.2	25.3	10.7	20.9	3.8	100	33.1	0.0	0.0	66.9	0.0	100	39.6	26.9	11.4	22.2	0.0
2004-2005	100	40.7	26.4	9.4	18.8	4.6	100	16.4	32.8	11.4	33.8	5.6	100	42.4	26.0	9.3	17.8	4.5
2006-2007	100	41.3	15.9	17.4	24.2	1.2	100	55.6	4.3	0.0	40.1	0.0	100	40.8	16.3	17.9	23.7	1.3
2008-2009	100	41.6	21.4	4.5	28.3	4.1	100	23.7	15.0	0.0	61.2	0.0	100	42.8	21.9	4.8	26.1	4.3
2010-2011	100	47.6	29.8	7.0	12.8	2.8	100	43.8	36.0	0.0	20.2	0.0	100	47.9	29.2	7.6	12.1	3.1
2012-2013	100	42.4	29.3	4.5	17.9	5.8	100	21.2	28.5	20.3	27.0	3.0	100	46.0	29.5	1.8	16.4	6.3
2014-2015	100	50.9	21.0	7.6	17.3	3.2	100	47.7	19.9	10.7	15.3	6.3	100	52.1	21.4	6.3	18.2	2.0
2016	100	55.6	18.2	8.2	17.4	0.8	100	49.0	22.0	7.8	19.7	1.6	100	61.8	14.5	8.6	15.2	0.0

4.3.2 Billing System

90.7 percent of households connected to grid electricity were using LUKU by 2016

Among households which are connected to grid electricity supply, such connections are connected with LUKU or Meter billing system. In this study, households were asked whether they were connected with either of the two billing system. Less than 10 percent were using meters and 90.7 percent of households had LUKU connected to their electricity connections (Table 4.10). In rural and urban areas, the proportions of households connected with meters are quite few compared to those who have LUKU. The proportion of households who have been using meters has been declining. While before year 2000, 17.3 percent were connected to meters, in 2016 the proportion has declined to less than five percent (4.5 percent) of such households.

Table 4.10: Percentage Distribution of Households Connected with Electricity by Year Connected, Place of Residence and Type of Billing System

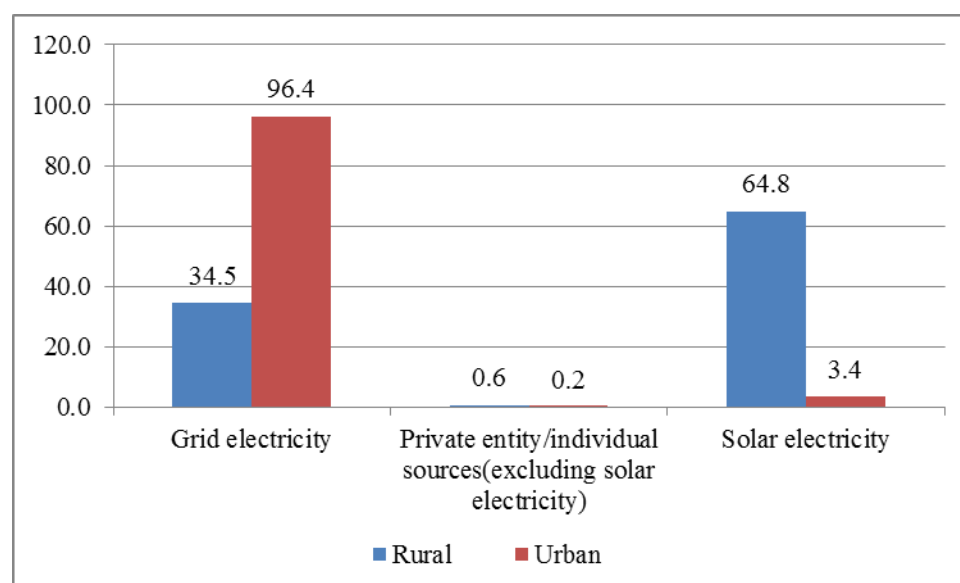
Year of Electricity Connection	Total			Rural			Urban		
	Total	Meter	Luku	Total	Meter	Luku	Total	Meter	Luku
Total	100	9.3	90.7	100	10.5	89.5	100	9.1	90.9
Before 2000	100	17.3	82.7	100	44.0	56.0	100	15.7	84.3
2000-2001	100	23.5	76.5	100	0.0	100	100	26.2	73.8
2002-2003	100	16.2	83.8	100	83.5	16.5	100	12.1	87.9
2004-2005	100	12.0	88	100	25.3	74.7	100	11.0	89.0
2006-2007	100	12.1	87.9	100	0.0	100	100	12.4	87.6
2008-2009	100	4.2	95.8	100	24.5	75.5	100	2.8	97.2
2010-2011	100	4.8	95.2	100	0.0	100	100	5.2	94.8
2012-2013	100	5.6	94.4	100	2.9	97.1	100	6.1	93.9
2014-2015	100	4.0	96.0	100	6.8	93.2	100	2.9	97.1
2016	100	4.5	95.5	100	3.5	96.5	100	5.5	94.5

4.3.3 Rural Electrification

Significant increases in accessibility of energy in rural areas signify improved living standards in the rural areas. There is notable diversification of energy sources, whereby solar energy is becoming a reliable source of electricity in most of rural areas

Results shown in Figure 4.5 indicate that 64.8 percent of rural households were using solar power electricity and 34.5 percent were connected to grid electricity. On the other hand, 96.4 percent of urban households were connected to grid electricity while only 3.4 percent of urban households were using solar power electricity.

Figure 4.5: Percentage Distribution of Households Connected with Electricity by Place of Residence and Main Source of Electricity



Survey results in Table 4.11 indicate that 80.5 percent of rural households in Kilimanjaro region were connected to grid electricity. Other regions which had high proportions of fifty percent and above of rural households connected to grid electricity include Rukwa (70.2 percent), Kigoma (61.8 percent), Arusha (57.8 percent), Tanga (53.7 percent), Morogoro (53.1 percent) and Geita (51.2 percent). On the other hand, electricity generated through private entity/individual sources such as generators (excluding solar) were available to a small proportion of rural households in Songwe Region (5.6 percent), Katavi (2.2 percent), Kagera and Dodoma (1.8 percent each) and Tanga (1.7 percent). On solar power, all rural households (100 percent) of Shinyanga Region were using solar power electricity, closely followed by Mtwara Region (98.6 percent) and Katavi (92.2 percent).

Table 4.11: Percentage Distribution of Rural Households Connected with Electricity by Region and Main Source of Electricity

Region	Rural			
	Total	Grid	Private entity/individual electricity owned Sources(excluding Solar power)	Solar Power
Total	1,301,749	34.5	0.6	64.8
Dodoma	84,360	10.7	1.8	87.5
Arusha	76,810	57.8	0	42.2
Kilimanjaro	124,231	80.5	1	18.5
Tanga	84,928	53.7	1.7	44.6
Morogoro	53,760	53.1	0	46.9
Pwani	48,549	29.9	0	70.1
Dar es salaam	-	-	-	-
Lindi	42,828	12.4	0	87.6
Mtwara	81,433	1.4	0	98.6
Ruvuma	66,324	10.6	0	89.4
Iringa	62,217	23.9	1.2	74.9
Mbeya	32,731	25.8	0	74.2
Singida	44,470	23.1	0	76.9
Tabora	56,841	30.5	0	69.5
Rukwa	6,672	70.2	0	29.8
Kigoma	26,067	61.8	0	38.2
Shinyanga	18,298	0	0	100
Kagera	97,055	42.9	1.8	55.3
Mwanza	69,231	44.2	0	55.8
Mara	46,370	31.2	0	68.8
Manyara	28,147	19.3	0	80.7
Njombe	74,282	12.2	0	87.8
Katavi	23,928	5.5	2.2	92.2
Simiyu	26,781	48.6	0	51.4
Geita	6,474	51.2	0	48.8
Songwe	18,961	16.7	5.6	77.8

4.3.4 Affordability of Electricity

A key objective of government of Tanzania is to ensure availability of sufficient, reliable and affordable modern energy supplies and their use in a rational and sustainable manner in order to support economic and social development towards the semi-industrial based economy. Approaches for measuring accessibility and affordability are presented in this section, whereby affordability of using electricity was examined in relation to economic status of households, education level of heads of households and expenditure burden for households.

- ❖ Most of households headed by salaried employees in Tanzania Mainland were connected to grid electricity, followed by households headed by wage labor (in forest products) and transport owners,
- ❖ In rural areas, households mostly reported to be connected to grid electricity were those headed by employed in wage labor followed by self-employed such as carpentry/masonry,
- ❖ In urban areas, households mostly reported to be connected to grid electricity were those headed by salaried employee, followed by hawkers/vendors/whole sale traders,
- ❖ The more household head is educated, the more household is connected to electricity,
- ❖ Proportion of households connected to any form of electricity increases with increase in monthly income.

4.3.5 Economic Status and Electrification

The combination of crossed energy and sectoral interdependences has reinforced the energy dependence of most economic sectors. Table 4.12 shows that, basing to nature of economic activity of the households members, households with salaried were connected to electricity sources at 67.8 percent followed by those wage labourer in forest products heads household (62.2 percent) and households headed by transport owners (56.8 percent) compared to households in other sectors.

Table 4.12: Percentage Distribution of households by Main Occupation and Whether Connected to Electricity

Main Occupation	Connected	Not Connected
Wage labor (Farm/Livestock)	21.1	78.9
Wage labor (Non-farm/Non-Livestock)	46.2	53.8
Salaried Employee	67.8	32.2
Self employed (Farm/Livestock)	17.4	82.6
Self employed/Employed enterprise	49.7	50.3
Transport Owner/Business	56.8	43.2
Self employed (Fishing)	18.6	81.4
Wage labor (Fishing)	15.3	84.7
Hawker/Vender/Wholesale trade	55.8	44.2
Domestic help	23.7	76.3
Carpentry/Masonry	49.2	50.8
Electrician/Repair work	56.6	43.4
Self employed (Forest products)	39.2	60.8
Wage labor (Forest products)	62.2	37.8
Self employed (Bodaboda)	56.2	43.8
Wage labor (Bodaboda)	45.2	54.8
Other (Specify)	49.3	50.7

On the other hand, Table 4.13 shows that, households reported to be connected to any source of electricity in rural area were mostly those wage labor (bodaboda) (17.1 percent), self employed (bodaboda) (14.9 percent) and carpentry/Masonry (14.8 percent). Likewise in urban area, those households which were wage labor (forest product) (62.2 percent) and salaried employee (58.4 percent) and electrician/repair work (56.6 percent).were significantly connected to electricity.

Table 4.13: Percentage Distribution of Households Connected to Electricity by Main Occupation and Place of Residence

Main Occupation	Rural		Urban	
	Connected	Not Connected	Connected	Not Connected
Wage labor (Farm/Livestock)	14.3	73.4	6.9	5.5
Wage labor (Non-farm/Non-Livestock)	7.5	29.2	38.7	24.6
Salaried Employee	9.5	15.8	58.4	16.4
Self employed (Farm/Livestock)	13.2	76.5	4.2	6.1
Self employed/Employed enterprise	10.4	33.5	39.2	16.8
Transport Owner/Business	4.0	18.2	52.8	25.0
Self employed (Fishing)	13.4	64.4	5.1	17.0
Wage labor (Fishing)	6.8	73.9	8.5	10.8
Hawker/Vender/Wholesale trade	12.3	23.8	43.5	20.4
Domestic help	2.5	71.2	21.1	5.1
Carpentry/Masonry	14.8	32.7	34.4	18.0
Electrician/Repair work	0.0	10.6	56.6	32.8
Self employed (Forest products)	2.2	57.4	37.0	3.4
Wage labor (Forest products)	0.0	21.4	62.2	16.4
Self employed (Bodaboda)	14.9	18.4	41.2	25.4
Wage labor (Bodaboda)	17.1	40.4	28.0	14.4
Other (Specify)	9.5	38.7	39.8	12.0

4.3.6 Education and Electrification

The economics of education is a vital component of the economics of development. Literate farmers with at least a primary education are thought to be more productive and more responsive to new agricultural technologies than illiterate farmers. Education is a mean of achieving economic development. Survey report in Table 4.14 indicates that, the more the household head is educated, the more the household is connected to electricity.

Table 4.14: Percentage Distribution of Households by Level of Education of Head of Household and Whether Connected to Electricity

Level of Education	Connected	Not connected
Primary Education	29.7	70.3
Course After Primary	39.9	60.1
Secondary (O level)	60.7	39.3
Course After Secondary	62.2	37.8
Secondary (A level)	73.6	26.4
Training After High School Education	92.4	7.6
Others Certified Training	67.9	32.1
Higher Learning	88.5	11.5
Adult Education	12.6	87.4
Never gone to School	11.8	88.2

The situation of energy connectivity for both rural and urban is affected by the education of the head of household as shown in Table 4.15. Connection to the electricity has a link with the education of the head of household.

Table 4.15: Percentage Distribution of Households Connected to Electricity by Level of Education of Head of Household and Place of Residence

Level of Education	Rural		Urban	
	Connected	Not connected	Connected	Not connected
Nursery Education	0.0	68.1	0.0	31.9
Primary Education	12.7	58.5	16.9	11.8
Course After Primary	19.0	52.6	20.9	7.5
Secondary (O level)	10.3	25.1	50.3	14.2
Course After Secondary	17.8	27.9	44.4	9.8
Secondary (A level)	9.2	22.3	64.3	4.1
Training After High School Education	26.2	7.6	66.2	0.0
Others Certified Training	30.9	24.8	36.9	7.4
Higher Learning	7.3	9.4	81.2	2.1
Adult Education	10.0	81.1	2.7	6.3
Never gone to School	6.6	78.0	5.2	10.2

4.3.7 Income and Electrification

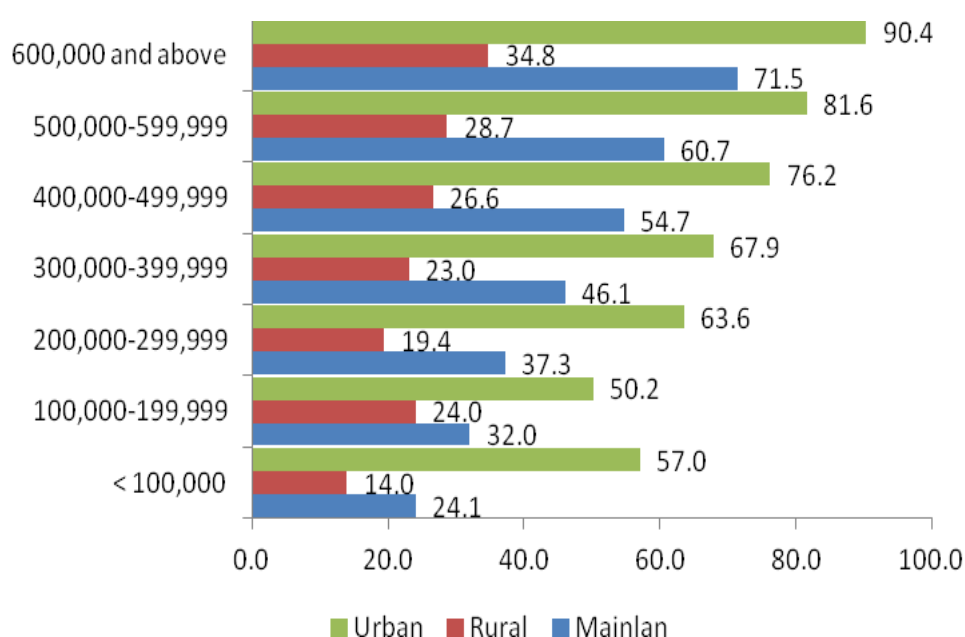
Income is one of the factors to enable the respective household to connect to any form of electricity. Results in Table 4.16 show that, proportion of households connected to electricity was increasing with increase of monthly income.

Table 4.16: Percentage Distribution of Households by Monthly Income and Whether Connected to Electricity

Amount Earned per Month	Connected	Not connected
Total	32.8	67.2
< 100,000	24.1	75.9
100,000-199,999	32.0	68.0
200,000-299,999	37.3	62.7
300,000-399,999	46.1	53.9
400,000-499,999	54.7	2.3
500,000-599,999	60.7	39.3
600,000 and above	71.5	28.5

Figure 4.6 illustrates that, more than 75 percent earning Tshs 400,000/= and above were connected to electricity in urban area and Tanzania Mainland in general; and for rural area, households earning the same amount, between 25 percent and 40 percent were connected to electricity.

Figure 4.6: Percentage Distribution of Households connected to Electricity by Monthly Income and Place of Residence



Likewise, looking on plan of paying bill for connection, Table 4.17 shows that, more than 80 percent of households earning 400,000 and above were paying once the connection bill for Tanzania mainland, rural as well as for urban residences.

Table 4.17: Percentage Distribution of Households Connected to Electricity by Monthly Income, Place of Residence and Frequency of Payment for Connection bill

Amount Earned per Month	Tanzania Mainland		Rural		Urban	
	Paid once	Paid more than once	Paid once	Paid more than once	Paid once	Paid more than once
< 100,000	79.3	20.7	78.1	21.9	79.6	20.4
100,000-199,999	77.2	22.8	77.9	22.1	77.0	23.0
200,000-299,999	69.2	30.8	72.9	27.1	67.9	32.1
300,000-399,999	72.1	27.9	69.0	31.0	72.5	27.5
400,000-499,999	80.0	20.0	82.0	18.0	79.7	20.3
500,000-599,999	76.3	23.7	80.0	20.0	76.0	24.0
600,000 and above	90.1	9.9	77.2	22.8	91.0	9.0

4.4 Financial Support for Paying Charges of Electricity Connection

Access to reliable electricity at tariffs (of connection and consumption) compatible with economic actors' incomes has a strong potential for positive socio-economic development. Survey results shown in Table 4.18 explain that, depending on the nature of the main occupation of the head of households, prices for electricity connection in Tanzania Mainland were affordable. Most households in both rural and urban were able to pay connection charges at a significant rate, recording only few who had received loan or support to cover the connection charges. In rural area, only salaried and self employed (non-farm/non-livestock) households had to receive assistance at 7.4 percent and 0.9 percent respectively. On the other hand, in urban areas, households which received support of paying electricity connection charges were those engaged in electrical repair works (15.0 percent), self-employment in "Bodaboda" (4.5) percent and wage labour in farming/livestock keeping (3.3 percent).

Table 4.18: Percentage Distribution of Households Connected to Electricity by Main Occupation, Place of Residence and Whether had Received Assistance to Pay Connection Charges

Main Occupation	Rural			Urban		
	No, full household members own money paid (Not a support/loan)	Yes, part of the money paid household was supported/loaned	Yes, all the money paid household was supported/loaned	No, full household members own money paid (Not a support/Loan)	Yes, part of the money paid household was supported/loaned	Yes, all the money paid household was supported/loaned
Wage labor (Farm/Livestock)	100	0.0	0.0	95.2	1.5	3.3
Wage labor (Non- farm/Non-Livestock)	95.0	5.0	0.0	98.3	1.1	0.5
Salaried Employee	90.6	2.0	7.4	96.4	1.8	1.7
Self employed (Farm/Livestock)	96.3	2.8	0.9	97.5	1.8	0.7
Self employed/Employed enterprise	100	0.0	0.0	97.6	2.4	0.0
Transport Owner/Business	100	0.0	0.0	96.2	0.0	3.8
Self employed (Fishing)	100	0.0	0.0	100	0.0	0.0
Wage labor (Fishing)	100	0.0	0.0	100	0.0	0.0
Hawker/Vender/Wholesale trade	100	0.0	0.0	97.3	1.5	1.1
Domestic help	100	0.0	0.0	95.6	4.4	0.0
Carpentry/Masonry	100	0.0	0.0	98.7	1.3	0.0
Electrician/Repair work	0.0	0.0	0.0	70.3	14.7	15.0
Self employed(Forest products)	0.0	0.0	0.0	100	0.0	0.0
Wage labor (Forest products)	0.0	0.0	0.0	100	0.0	0.0
Self employed(Bodaboda)	100	0.0	0.0	92.3	3.2	4.5
Wage labor (Bodaboda)	100	0.0	0.0	100	0.0	0.0
Other (Specify)	96.0	4.0	0.0	97.0	1.6	1.4
Total	96.5	2.0	1.5	96.9	1.7	1.4

Results in Table 4.19 shows that, basing on the monthly income, more than 90 percent of households were able to pay electricity connection charges without receiving external support. Those households received external support for paying electricity connection was not of their low income, but their plan of paying the charges, because were those earning higher incomes.

Table 4.19: Percentage Distribution of Households Connected to Electricity by Monthly Income, Place of Residence and Whether had received Assistance to Pay Connection Bill

Amount Earned per Month	Rural			Urban		
	No, full household members own money paid(Not a support/Loan	Yes, part of the money paid household was supported/ loaned	Yes, all the money paid household was supported /loaned	No, full household members own money paid(Not a support/ Loan	Yes, part of the money paid household was supported/ loaned	Yes, all the money paid household was supported/ loaned
< 100,000	95.9	2.7	1.4	96.4	2.1	1.5
100,000-199,999	98.4	0.0	1.6	97.9	2.1	0.0
200,000-299,999	95.0	5.0	0.0	98.7	1.0	0.3
300,000-399,999	98.7	1.3	0.0	97.0	0.5	2.5
400,000-499,999	100	0.0	0.0	96.7	1.3	2.1
500,000-599,999	90.4	0.0	9.6	98.3	0.0	1.7
600,000+	95.0	0.0	5.0	96.2	2.6	1.2
Total	96.0	2.5	1.5	96.6	1.9	1.4

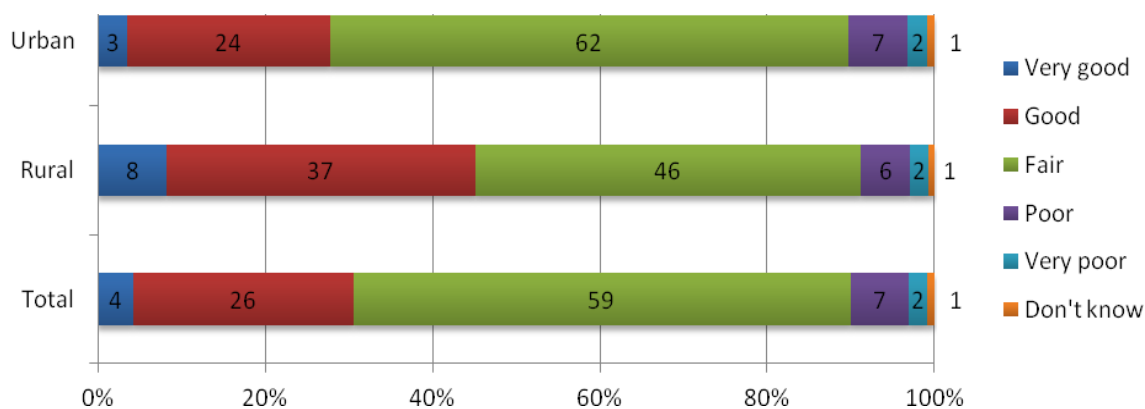
4.5 Households' Perception on Quality and Connection of Electricity Services

In the Energy Access Situation Survey of year 2016, Tanzanians household were asked to provide their opinion on different aspects of the powers supplied to their households. These include opinion on the quality of powers supplied to their households, the level of power interruptions, connection charges and monthly electricity bills.

On the quality of electricity services supplied to their houses (Figure 4.7), only 4 percent of Tanzanian households rated the quality of power supplied to their houses as very good. Looking at rural versus urban areas, 8 percent of households in rural areas considered the service as very good compared to only 3 percent in urban areas.

Majority of households said that the quality of power supplied to their houses was fair (59 percent for Mainland Tanzania, 46 percent for rural and 62 percent for urban). Only 2 percent of households for Tanzania Mainland, rural and urban areas said that the service was very poor.

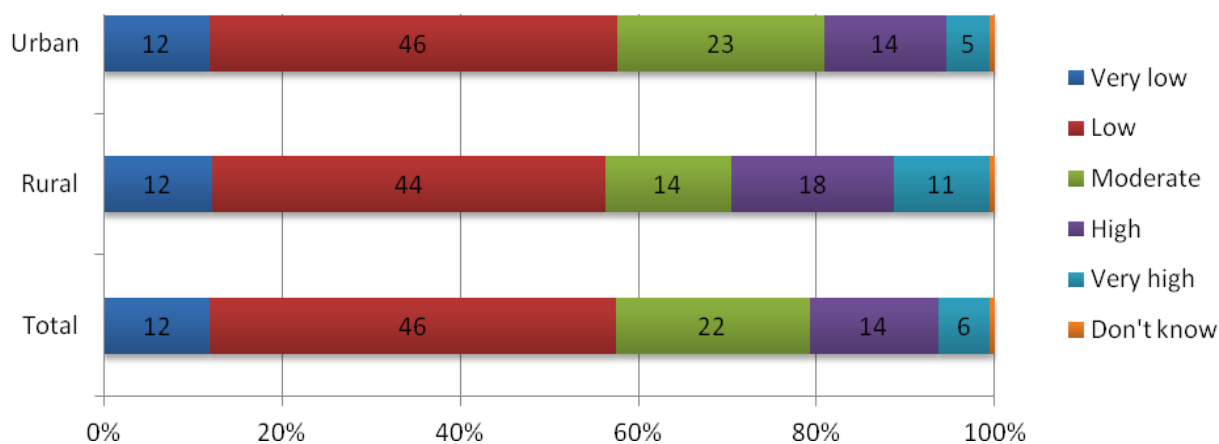
Figure 4.7: Perception of Households on the Quality of Electricity Services Supplied by Place of Residence



As shown in Figure 4.8, a small percentage of households (6 percent) in Tanzania Mainland reported that power interruptions were very high. Households in rural areas are more likely to report that power interruptions are very high (11 percent) than households in urban areas (5 percent). Almost half of the households (46 percent in Tanzania Mainland and urban areas and 44 percent in rural areas) felt that power interruptions were low.

Twenty-three percent of households in urban areas reported that power interruptions were moderate, compared to 14 percent of the rural households. Twelve percent of households in Tanzania Mainland, rural and urban areas reported that the level of power interruptions was very low.

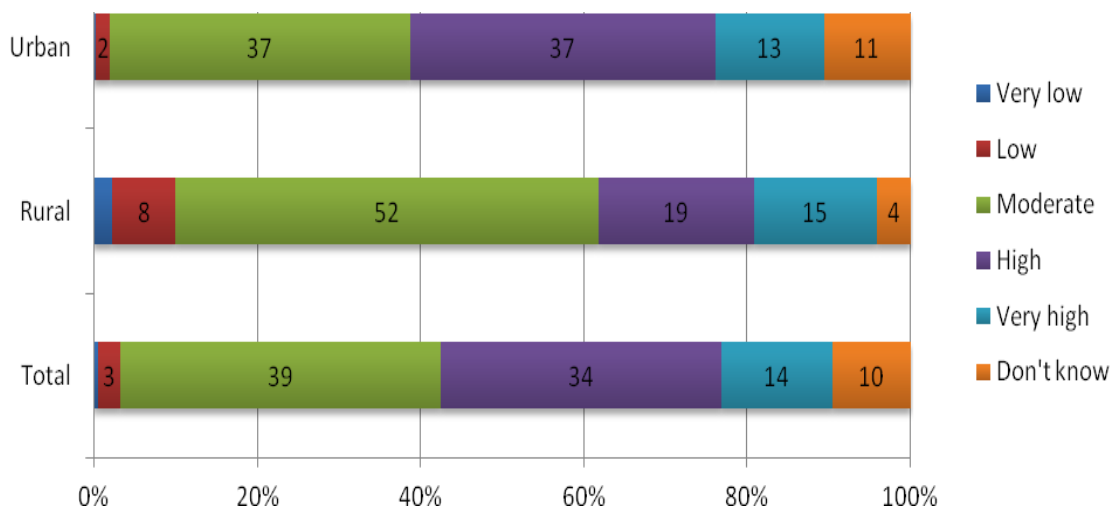
Figure 4.8: Perception of Households on Electricity Interruptions/Cut off by Place of Residence



About one-quarter of the Tanzania Mainland households rated the quality of electricity in their area as very high (Figure 4.9). This opinion was also about the same for both rural (15 percent) and urban (13 percent) households. While 8 percent of the rural household felt that the connection charges are low, only 2 percent in urban areas regarded the connection charges as low. A large proportion of households in Tanzania Mainland (39 percent), rural areas (52 percent) and urban areas (37 percent) felt that the connection costs were just moderate.

Of note is the difference in rural and urban areas in the opinion that electricity charges are high. Urban households are almost twice as likely as rural households to report that the connection charges were high (37 percent for urban and 19 percent for rural households).

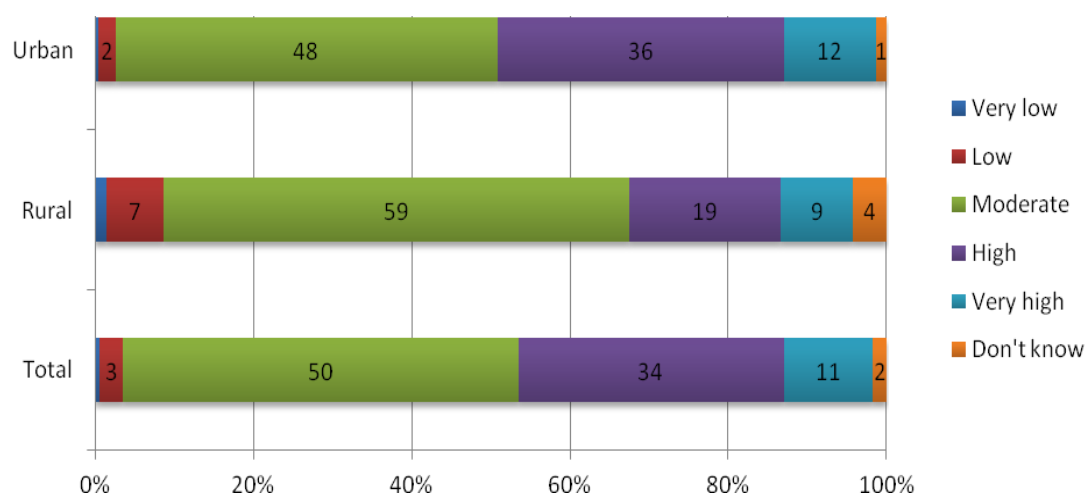
Figure 4.9: Perceptions of Households on Electricity Connection Charges by Place of Residence



Half of the households in Tanzania Mainland (50 percent) reported that monthly electricity bills were moderate, while 11 percent of the households were on the view that the electricity bills were very high (Figure 4.10). Seven percent of the rural households said the electricity bills were low compared to only 2 percent for the urban households.

On the other hand, while 12 percent of urban households said the monthly electricity bills were very high, only 9 percent of the rural households thought that the monthly bills were very high.

Figure 4.10: Perception of Households on the Monthly Electricity Bills by Place of Residence



4.6 Sources of Energy for Lighting

- ❖ 25.1 percent of households in Tanzania Mainland use electricity as one of the sources of energy for lighting,
- ❖ The use of re-chargeable lights is more pronounced in rural (54.4 percent) compared to urban (26.6 percent),
- ❖ The use of kerosene as one of the sources of energy for lighting is higher among rural households (24.3 percent) than their urban counterparts (18.1 percent),
- ❖ The use of candles for lighting is more common for households in Dar es Salaam than in households in other regions of the Tanzania Mainland (12.1 percent)

The results from the 2016 REA survey indicate the increase in the use of modern sources of energy for lighting (especially electricity and solar) and decrease in the use of traditional sources of energy for lighting (kerosene and firewood).

Table 4.20 shows that one-quarter of Tanzania Mainland households (25.1 percent) are now using electricity as one of the sources of energy for lighting. Use of electricity for lighting is more pronounced in urban households (63.1 percent) than in rural households (7 percent). At regional level, there is a noticeable variation in the use of electricity as the source of energy for lighting, ranging from 75 percent in Dar es Salaam and 38 percent in Kilimanjaro to 5 percent in Lindi region. Based on the socio-economic status (using the wealth index), the use of electricity for lighting increases with increase in the wealth, ranging from 1 percent among the poorest households to 79 percent among the richest households.

Eight percent of households use solar energy for lighting. The use of solar is higher in households in the rural areas (11 percent) than those in urban areas (3 percent). At regional level, solar is more common in Njombe (32.7 percent) and least common in Dar es Salaam and Rukwa regions (1 percent for each). It is important also to note that households in Lindi, Mtwara, Njombe and Katavi regions, the use of solar as the source of energy for lighting is higher than the use of electricity.

Of note also is the growing use of re-chargeable lights and the dwindling use of kerosene as the source of energy for lighting. The shift from using kerosene could be attributed to the recent increase in the price for kerosene. Forty-five percent of households use re-chargeable lights compared to 22.3 percent that use kerosene as one of the sources of energy for lighting. Also, while 54.4 percent of households in rural areas use rechargeable sources of lights and 24.3 percent use kerosene for lighting, 26.6 percent of households in urban areas use rechargeable sources and 18.1 percent use kerosene. Four percent of households in Tanzania use candles for lighting. The use of candles for lighting is more common for households in Dar es Salaam than in households in other regions of the country (12.1 percent).

Other sources of energy for lighting (generators, firewood and charcoals) are used by less than 2 percent of the households for lighting.

Generally, the survey results show the increase in the use of modern energy for lighting by Tanzania Mainland households (electricity and solar) and the decrease in the use of traditional energy for lighting like charcoal and firewood

Table 4.20: Percentage Distribution of Households by Place of Residence, Region, Wealth Quintile and Sources of Energy for Lighting

Place of Residence	Electricity	Solar	Generator	Kerosene	Candle	Rechargeable	Firewood	Charcoal	Others
Tanzania Mainland	25.1	8.1	0.1	22.3	3.8	45.2	1.0	0.2	5.2
Rural	6.6	10.5	0	24.3	1.0	54.4	1.4	0.2	6.3
Urban	63.1	3.1	0.2	18.1	9.7	26.6	0.1	0.2	2.9
Region									
Dodoma	11.5	12.0	0.0	12.1	0.5	58.4	1.8	0.0	7.2
Arusha	33.1	10.5	0.3	33.1	9.0	28.5	2.1	0.0	0.8
Kilimanjar	37.7	5.6	0.0	39.8	5.1	22.5	0.0	0.0	4.4
Tanga	24.4	6.6	0.0	56.1	2.8	18.4	0.5	0.0	2.3
Morogoro	19.7	4.9	0.0	25.9	1.5	46.2	2.1	0.5	3.3
Pwani	21.5	11.5	0.0	37.0	5.6	40.0	0.3	0.3	2.8
Dar es Salaam	74.6	1.3	0.3	13.8	12.1	25.9	0.0	0.0	3.6
Lindi	5.4	14.8	0.0	12.8	2.6	63.6	1.5	0.5	4.6
Mtwara	12.8	20.2	0.0	16.7	0.8	47.9	0.8	0.0	3.3
Ruvuma	16.2	15.6	0.3	7.5	1.0	52.3	0.0	0.0	9.5
Iringa	24.2	15.9	0.0	23.9	7.2	44.0	0.5	0.3	0.5
Mbeya	28.5	5.6	0.0	18.2	2.8	46.9	1.0	0.0	3.9
Singida	13.1	9.2	0.0	8.7	1.8	56.7	0.5	0.8	16.2
Tabora	12.3	10.0	0.0	11.8	2.6	69.0	1.0	0.0	2.1
Rukwa	8.2	0.5	0.0	28.7	1.5	49.3	0.3	0.3	14.8
Kigoma	13.3	2.8	0.3	21.6	1.8	65.1	0.0	0.0	4.4
Shinyanga	7.4	5.7	0.0	5.7	1.5	74.3	0.5	0.3	9.7
Kagera	17.2	7.4	0.0	49.5	3.3	25.4	0.5	0.0	3.6
Mwanza	26.2	6.9	0.0	11.3	1.0	52.8	1.3	0.0	4.4
Mara	12.4	8.9	0.0	30.5	0.5	57.2	0.8	0.5	0.8
Manyara	14.4	6.1	0.0	10.3	2.6	40.7	6.9	3.9	27.4
Njombe	19.0	32.7	0.3	8.0	7.2	41.3	2.3	0.3	1.6
Katavi	16.7	23.3	0.8	12.1	6.7	38.0	0.5	0.0	12.3
Simiyu	8.7	2.8	0.3	2.1	0.0	85.4	0.3	0.0	3.8
Geita	9.1	5.1	0.0	10.1	2.2	77.8	7.0	0.5	4.6
Songwe	13.3	2.6	0.0	31.8	0.8	51.3	0.5	0.0	1.0
Wealth Index									
Very poor	0.5	4.8	0	23.3	0.5	62.0	2.7	0.1	8.4
Poor	2.9	7.5	0	29.8	1.0	55.9	0.9	0.1	6.0
Middle	7.5	12.1	0	27.3	1.7	50.8	0.5	0.1	4.9
Rich	35.9	12.8	0.2	18.9	5.0	36.3	0.6	0.5	3.9
Richest	78.9	3.1	0.2	12.0	10.9	21.1	0.3	0.4	2.6

4.6.1 Comparison of Sources of Energy for Lighting in 2012 PHC and 2016 EASS

Table 4.20a presents proportions of households in Tanzania Mainland in 2012 and 2016 with their sources of energy for lighting. In both 2012 Population and Housing Census (PHC) and the 2016 Energy Access Situation Survey (EASS), kerosene, electricity and rechargeable lamps were recorded to be among the most used sources of energy for lighting for the majority of households in Tanzania Mainland. While in the 2012 PHC 40.6 percent of households were using kerosene as the main source of energy for lighting, in the 2016 Energy Access and Use Survey, 22.3 percent of households reported to be using kerosene (wick lamp). Electricity as source of energy for lighting was reported by 18.9 percent of households in the 2012 PHC and 25.1 percent of households in the 2016 Survey were using electricity as source of energy for lighting. Rechargeable lamps seem to gain popularity among households as source of energy for lighting. While in 2012, 14.9 percent were using rechargeable lamps for lighting, in 2016, the proportion of households which used such lamps increased to 45.2 of households.

At the regional level, in 2012 PHC, 63.4 percent of households in Dar es Salaam Region were using electricity as their main source of energy for lighting. Other regions with high proportions of such households were Kilimanjaro (26.7 percent), Arusha (24.5 percent) and Mwanza (22.7 percent). In 2016, 74.6 percent of households in Dar es Salaam Region were using electricity as the main source of energy for lighting followed by Kilimanjaro (37.7 percent), Arusha (33.1 percent), Mbeya (28.5 percent) and Mwanza (26.2 percent).

Table 4.20 a: Percentage Distribution of Households by Region and Sources of Energy for Lighting

	Sources of Energy for Lighting						Sources of Energy for Lighting					
	2012 Population and Housing Census						2016 Energy Access Situation Survey					
	Kerosene	Candle	Firewood	Electricity ¹	Solar Power	Rechargeable lamps	Kerosene	Candle	Firewood	Electricity	Solar Power	Rechargeable Lamps
Tanzania Mainland	40.6	1.3	2.0	18.9	1.4	14.9	22.3	3.8	1.0	25.1	8.1	45.2
Dodoma	38.7	0.7	3.2	10.3	1.7	28.5	12.1	0.5	1.8	11.5	12.0	58.4
Arusha	23.5	1.1	4.3	24.5	3.9	6.6	33.1	9.0	2.1	33.1	10.5	28.5
Kilimanjaro	31.8	0.7	0.6	26.7	3.5	2.4	39.8	5.1	0.0	37.7	5.6	22.5
Tanga	62.9	0.8	0.9	15.3	0.8	4.4	56.1	2.8	0.5	24.4	6.6	18.4
Morogoro	45.9	1.0	1.1	14.2	0.8	14.7	25.9	1.5	2.1	19.7	4.9	46.2
Pwani	59.5	1.1	0.8	15	1.6	6.9	37.0	5.6	0.3	21.5	11.5	40.0
Dar es Salaam	9.5	2.9	0.1	63.4	0.7	3.9	13.8	12.1	0.0	74.6	1.3	25.9
Lindi	57.4	0.8	2.7	12.4	1.0	14.5	12.8	2.6	1.5	5.4	14.8	63.6
Mtwara	54.3	0.8	3.4	5.9	1.4	20.1	16.7	0.8	0.8	12.8	20.2	47.9
Ruvuma	36.9	0.6	1.7	8.6	1.9	15.2	7.5	1.0	0.0	16.2	15.6	52.3
Iringa	27.7	1.1	1.3	15.6	1.6	11.3	23.9	7.2	0.5	24.2	15.9	44.0
Mbeya	45.4	1.4	1.6	13.3	1.0	16.5	18.2	2.8	1.0	28.5	5.6	46.9
Singida	46.0	1.0	3.9	10.1	1.4	24.2	8.7	1.8	0.5	13.1	9.2	56.7
Tabora	44.0	0.8	2.8	10.4	1.9	28.8	11.8	2.6	1.0	12.3	10.0	69.0
Rukwa	59.9	0.8	1.6	5.4	1.3	16.5	28.7	1.5	0.3	8.2	0.5	49.3
Kigoma	62.1	0.9	5.3	6.9	1.3	11.3	21.6	1.8	0.0	13.3	2.8	65.1
Shinyanga	35.0	1.6	2.1	12.6	1.5	32.3	5.7	1.5	0.5	7.4	5.7	74.3
Kagera	67.8	1.3	1.8	7.3	1.2	7.8	49.5	3.3	0.5	17.2	7.4	25.4
Mwanza	34.6	1.8	0.7	22.7	1.0	14.3	11.3	1.0	1.3	26.2	6.9	52.8
Mara	47.6	1.1	1.2	11.1	1.3	4.9	30.5	0.5	0.8	12.4	8.9	57.2
Manyara	39.4	1.3	5.4	10.3	1.4	18.3	10.3	2.6	6.9	14.4	6.1	40.7
Njombe	25.8	1.5	2.6	11.0	2.9	12.3	8.0	7.2	2.3	19.0	32.7	41.3
Katavi	35.7	0.7	2.7	9.3	2.2	36.7	12.1	6.7	0.5	16.7	23.3	38.0
Simiyu	31.1	1.1	3.0	7.6	1.3	41.2	2.1	0.0	0.3	8.7	2.8	85.4
Geita	36.6	2.8	1.7	6.1	0.7	35.1	10.1	2.2	7.0	9.1	5.1	77.8
Songwe	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	31.8	0.8	0.5	13.3	2.6	51.3

Note: Songwe is a new region, not yet established in 2012, so, no data available

4.6.2 Trend of Sources of Energy for Lighting in Tanzania Mainland

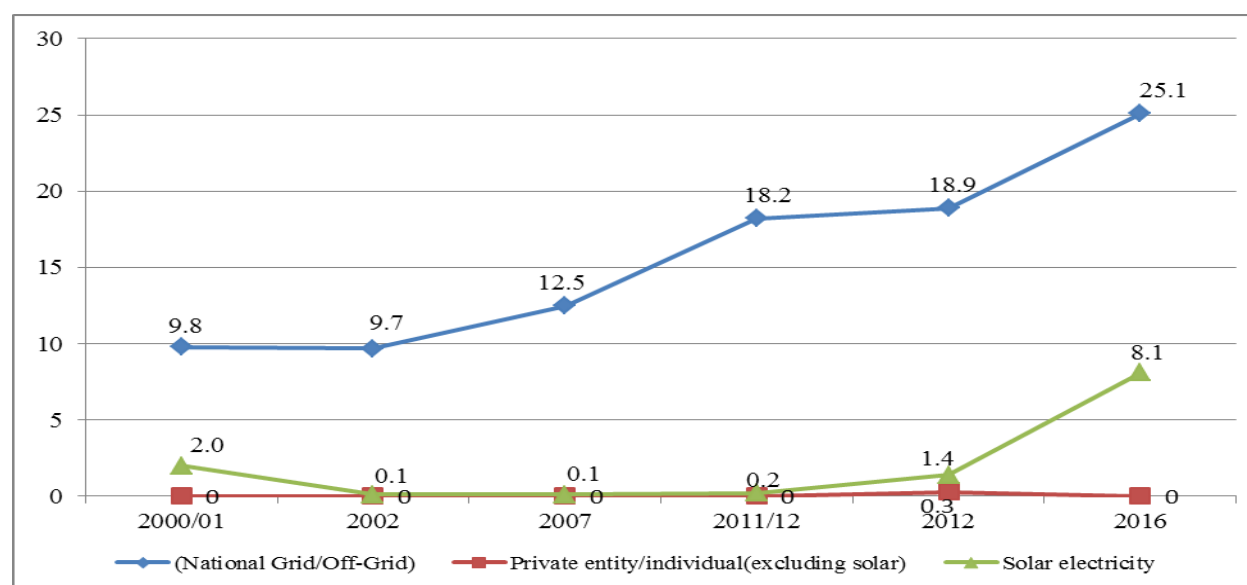
Improving access to modern energy especially in rural areas is one of the objectives of establishment of Rural Energy Agency (REA). However, although, initiatives of improving the use of modern energy as sources for lighting among the households in Tanzania Mainland had been in place before the establishment of REA in 2005, its pace increased tremendously after establishment of the Agency. This is evidenced in Table 4.20b and Figure 4.11 as before 2005, less than ten percent of households (9.8 percent in 2000/01 and 9.7 percent in 2002) were using grid electricity as the energy source of lighting. During the first five years of REA operations (2007 - 2011), proportion of households using grid electricity as a source of energy for lighting increased by 5.7 percent from 12.5 percent (2007) to 18.2 percent(2011/12). The second five years of REA operations (2012 – 2016), the rate of households using grid electricity as a source of energy for lighting was much higher at 6.2 percent (from 18.9 percent of 2012 to 25.1 percent of 2016) than the previous five years respectively. Solar energy as a source of lighting was also significantly increased. It increased at a higher rate of 6.2 percent from 1.4 percent (2012) to 8.1 percent (2016) during the second REA operations in Tanzania Mainland than the first five years of REA operations which increased only by 0.1 percent from 0.1 percent of 2007 to 0.2 percent of 2011/12.

Table 4.20 b: Percentage Distribution of Household by Sources of Energy for Lighting; Tanzania Mainland; 2001, 2002, 2007, 2011, 2012, and 2016

Source of Information	Grid	Private entity/individual	Solar electricity
2000/01 Household Budget Survey(HBS)	9.8	0.0	2.0
2002 Population Housing Census (PHC)	9.7	0.0	0.1
2007 Household Budget Survey(HBS)	12.5	0.0	0.1
2011/12 Household Budget Survey(HBS)	18.2	0.0	0.2
2012 Population Housing Census (PHC)	18.9	0.3	1.4
2016 Energy Access Situation Survey	25.1	0.0	8.1

Source: Household Budget Survey (2000/01, 2007 and 2011/12), 2012 (Population and Housing Census) and 2016(Energy Access Situation Survey)

Figure 4.4: Trend of Percentage of Households by Sources of Energy for Lighting, Tanzania Mainland; 2000/01, 2002, 2007, 2011/12, 2012 and 2016



Source: Household Budget Survey (2000/01, 2007 and 2011/12), 2012 (Population and Housing Census) and 2016(Energy Access Situation Survey)

4.7 Sources of Energy for Cooking

- ❖ Firewood is used by about 71.2 percent of households in Tanzania Mainland for providing energy for cooking, followed by charcoal (37.0 percent), industrial/bottled gas (7.2 percent) and kerosene (5 percent),
- ❖ Use of modern sources of energy for cooking is not common among the households in Tanzania Mainland, only 7.2 percent use gas(industrial/bottled) and 0.3 percent use electricity,
- ❖ Households in Dar es Salaam region lead in the use of kerosene (22.3 percent), charcoal (88.2 percent) and industrial/bottled gas (26.7 percent) for cooking,
- ❖ Households in Simiyu region lead in the use of firewood (94.2 percent) for cooking whilst households in Dar es Salaam were the least (14.3 percent).

The use of firewood as one of the sources of energy for cooking is still predominant in Tanzania Mainland (Table 4.21). Seventy-one percent of household use firewood as the source of energy for cooking, followed by charcoal (37.0 percent), industry / bottled gas (7.2 percent) and kerosene (5.0 percent). On the other hand, the use of modern source of energy for cooking (electricity, biogas and solar) by households in Tanzania is not common (used by less than 1 percent of the households).

While charcoal is commonly used for providing source of energy for cooking in urban areas (79.3 percent), most rural households use firewood (92.0 percent) for cooking. As for regional variations, Dar es Salaam households are leading in the use of kerosene (22.1 percent), charcoal (88.2 percent), industry / bottled gas (26.7 percent) and while Simiyu households lead in the use of firewood (94.3 percent). The use of firewood is the least common in the households residing in Dar es Salaam (14.3 percent).

Considering socio-economic status, most of the poorest households rely on the use of firewood (96.6 percent), while the richest households rely on charcoal (83.7 percent) for providing energy for cooking. While the use of charcoal increases with increasing wealth (from 7.5 percent for poorest households to 83.7 percent for the richest households), the use of firewood decreases with increasing wealth (from 96.6 percent for the poorest households to 18.3 percent for the richest households). Use of gas as one of the sources of energy for cooking is noticeable among the richest households (30.6 percent) than in any other socio-economic groups.

Table 4. 21: Percentage Distribution of Households by Place of Residence, Region, Wealth Quintile and Sources of Energy for Cooking

Place of Residence	Kerosene	Charcoal	Firewood	Gas (Industrial)	Electricity	Solar	Wood/crop	Other
Tanzania Mainland	5.0	37.0	71.2	7.2	0.3	0.0	0.1	0.2
Rural	0.9	16.3	92.0	0.9	0.1	0.0	0.1	0.2
Urban	13.3	79.3	28.4	20.0	1.0	0.0	0.1	0.2
Region								
Dodoma	0.8	21.0	86.7	3.1	0.3	0.0	0.0	0.0
Arusha	17.9	28.3	61.3	19.0	1.0	0.0	1.0	0.0
Kilimanjar	9.2	21.3	83.8	13.8	0.3	0.0	0.0	2.1
Tanga	2.0	32.1	74.5	5.4	0.5	0.0	0.0	0.0
Morogoro	2.8	42.9	70.2	3.6	0.0	0.0	0.0	0.0
Pwani	8.2	54.3	72.8	6.1	0.5	0.0	0.0	0.5
Dar es Salaam	22.1	88.2	14.3	26.7	1.3	0.0	0.0	0.3
Lindi	0.8	24.9	90.0	0.5	0.0	0.3	0.0	0.0
Mtwara	0.8	23.1	84.6	2.1	0.0	0.0	0.0	0.0
Ruvuma	0.5	24.9	83.0	1.0	0.0	0.0	0.0	0.0
Iringa	0.8	22.6	85.9	5.9	0.0	0.0	0.3	0.0
Mbeya	0.5	38.2	68.9	7.4	0.0	0.0	0.0	0.3
Singida	1.6	28.2	82.0	1.8	0.5	0.0	1.5	0.0
Tabora	1.3	32.5	82.6	2.1	0.3	0.0	0.0	0.0
Rukwa	0.3	28.5	73.0	0.5	0.8	0.3	0.0	0.0
Kigoma	0.0	27.7	82.6	2.3	0.0	0.0	0.0	0.0
Shinyanga	0.5	23.9	85.3	3.1	0.0	0.0	0.0	0.0
Kagera	1.0	19.5	85.1	1.5	0.0	0.0	0.0	0.3
Mwanza	0.3	41.6	69.2	6.1	0.0	0.3	0.0	0.0
Mara	1.8	41.6	79.2	1.3	0.0	0.0	0.0	0.0
Manyara	3.6	24.4	82.5	6.4	1.0	0.0	0.0	0.0
Njombe	0.8	27.2	83.6	1.0	0.3	0.3	0.0	0.0
Katavi	1.0	47.4	64.1	1.5	0.3	0.3	0.0	0.0
Simiyu	1.3	16.9	94.3	1.3	0.0	0.0	0.0	0.0
Geita	0.0	35.6	78.1	1.0	0.0	0.0	0.0	0.0
Songwe	0.3	24.1	79.8	1.3	0.0	0.0	0.0	0.0
Wealth Index								
Very poor	0.5	7.5	96.6	0.0	0.0	0.0	0.1	0.1
Poor	0.3	12.4	94.8	0.0	0.0	0.0	0.1	0.1
Middle	0.5	23.6	87.8	0.4	0.1	0.1	0.1	0.1
Rich	5.8	57.5	58.3	4.9	0.1	0.1	0.1	0.4
Richest	17.7	83.7	18.3	30.6	1.5	0.0	0.2	0.2

4.7.1 Comparison of Sources of Energy for Cooking in 2012 PHC and 2016 EASS

Energy use for cooking in the households still relies on firewood and charcoal. Firewood still continues to be the dominant source of energy for cooking in the households. Table 4.21a presents proportions of households in Tanzania Mainland in 2012 and 2016 with their sources of energy for cooking. During the 2012 population and Housing Census (PHC), 68.6 percent of households were using firewood as the source of energy for cooking, followed by charcoal (25.6 percent) and to a lesser extent kerosene (2.4 percent). In the 2016 Energy Access Situation Survey (EASS), firewood was one of the sources of energy for majority of households in Tanzania Mainland (71.2 percent), followed by charcoal (37.0 percent), gas (industrial / bottled) (7.2 percent) and kerosene (5.0 percent). Electricity as one of the sources of energy for cooking appears to be used by a very negligible proportion of households. This pattern is similar in almost all regions except Dar es Salaam Region where, in the 2012 PHC, charcoal is the main source of energy for cooking for majority of households (73.5 percent), followed by electricity (7.2 percent), kerosene (6.7 percent) and firewood (6.6 percent). In the 2016 Survey, 88.2 percent of the region's households were using charcoal, 22.1 percent were using kerosene, 14.3 percent were using firewood and 1.3 percent of the households were found to be using electricity as a source of energy for cooking.

Table 4.21 a: Percentage Distribution of Households by Region and Sources of Energy for Cooking

Sources of Energy for Cooking												
Region	2012 Population and Housing Census						2016 Energy Access Situation Survey					
	Kerosene	Charcoal	Firewood	Electricity	Solar	Gas (industrial)	Kerosene	Charcoal	Firewood	Electricity	Solar	Gas (Industrial)
Tanzania Mainland	2.4	25.6	68.6	1.5	0.1	0.9	5.0	37.0	71.2	0.3	0.0	7.2
Dodoma	0.9	16.1	81.4	0.5	0.1	0.2	0.8	21.0	86.7	0.3	0.0	3.1
Arusha	13.5	16.1	62.2	2.0	0.2	4.3	17.9	28.3	61.3	1.0	0.0	19.0
Kilimanjaro	4.9	10.9	79.8	1.7	0.1	1.5	9.2	21.3	83.8	0.3	0.0	13.8
Tanga	1.5	19.5	76.9	1.1	0.1	0.4	2.0	32.1	74.5	0.5	0.0	5.4
Morogoro	1.2	27.7	68.7	1.3	0.0	0.2	2.8	42.9	70.2	0.0	0.0	3.6
Pwani	1.7	29.5	66.9	0.9	0.1	0.4	8.2	54.3	72.8	0.5	0.0	6.1
Dar es Salaam	6.7	73.5	6.6	7.2	0.1	3.9	22.1	88.2	14.3	1.3	0.0	26.7
Lindi	1.0	13.2	84.5	0.5	0.1	0.1	0.8	24.9	90.0	0.0	0.3	0.5
Mtwara	1.1	9.8	88.0	0.3	0.1	0.1	0.8	23.1	84.6	0.0	0.0	2.1
Ruvuma	1.1	15.5	82.6	0.3	0.1	0.1	0.5	24.9	83.0	0.0	0.0	1.0
Iringa	0.7	15.4	82.3	0.6	0.0	0.4	0.8	22.6	85.9	0.0	0.0	5.9
Mbeya	1.3	22.7	74.2	1.1	0.0	0.2	0.5	38.2	68.9	0.0	0.0	7.4
Singida	0.8	12.7	83.3	0.4	0.0	0.1	1.6	28.2	82.0	0.5	0.0	1.8
Tabora	0.9	20.5	77.8	0.3	0.1	0.1	1.3	32.5	82.6	0.3	0.0	2.1
Rukwa	0.7	21.0	77.7	0.1	0.0	0.0	0.3	28.5	73.0	0.8	0.3	0.5
Kigoma	1.1	15.9	82.3	0.2	0.0	0.1	0.0	27.7	82.6	0.0	0.0	2.3
Shinyanga	0.9	25.5	71.3	1.3	0.1	0.2	0.5	23.9	85.3	0.0	0.0	3.1
Kagera	1.0	13.2	85	0.3	0.0	0.1	1.0	19.5	85.1	0.0	0.0	1.5
Mwanza	1.1	32.5	64.4	0.7	0.1	0.5	0.3	41.6	69.2	0.0	0.3	6.1
Mara	1.2	18.1	78.9	0.6	0.1	0.3	1.8	41.6	79.2	0.0	0.0	1.3
Manyara	1.5	13.3	83.0	0.4	0.1	0.3	3.6	24.4	82.5	1.0	0.0	6.4
Njombe	0.6	13.3	84.9	0.4	0.1	0.1	0.8	27.2	83.6	0.3	0.3	1.0
Katavi	0.8	30.8	67.4	0.5	0.1	0.0	1.0	47.4	64.1	0.3	0.3	1.5
Simiyu	0.6	9.1	89.1	0.2	0.1	0.1	1.3	16.9	94.3	0.0	0.0	1.3
Geita	0.9	30.7	67.0	0.2	0.1	0.1	0.0	35.6	78.1	0.0	0.0	1.0
Songwe	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	0.3	24.1	79.8	0.0	0.0	1.3

Note: Songwe is a new region, not yet established in 2012, so, no data available

4.7.2 Trend of Sources of Energy for Cooking in Tanzania Mainland

Contrary to the achievement made by REA in increasing proportion of households using grid electricity as among the sources of energy for lighting noted in Table 4.20a and Figure 4.11 above, Table 4.21b shows opposite way as the percentage of households using grid electricity as among the sources of energy for cooking remain stagnant at 0.3 percent in 2011/12 and 2016. Moreover, the worse situation noted in Table 4.21b is significant increase of the proportion of

households using un-environmental friend sources of energy for cooking; kerosene, charcoal and firewood. Furthermore, industrial gas is the only modern and environmental friend energy source for cooking which its use among households in Tanzania Mainland significantly increased from 0.8 percent (2011/12) to 7.2 percent (2016) respectively.

Table 4.21 b: Percentage Distribution of Households by Sources of Energy for Cooking; Tanzania Mainland; 2000/01, 2002, 2007, 2011/12 and 2016

Source of Energy for Cooking	Tanzania Mainland					
	HBS 2000/01	Census 2002	HBS 2007	REA 2011	HBS 2011/12	REA 2016
Electricity(Grid/Off-Grid)	1.8	0.9	0.5	0.2	0.3	0.3
Gas – industrial	0.3	0.1	0.2	0.1	0.8	7.2
Gas – biogas	0.1	0.0	0.0	0.0	0.0	0.0
Paraffin or Kerosene	5.0	4.4	3.0	0.9	2.5	5.0
Coal	0.1	0.0	0.2	0.0	0.2	0.0
Charcoal	14.2	16.6	22.7	10.3	28.2	37.0
Firewood	78.5	77.4	73.1	88.0	66.3	71.2
Wood or farm residuals	0.0	0.0	0.1	0.3	0.0	0.1
Solar	NA	0.0	NA	0.0	0.1	0.0
Generator or Private	NA	0.0	NA	0.0	0.2	0.0
Other	0.1	0.5	0.1	0.2	1.3	0.2
Total	100.0	100	100.0	100.0	100	100

NA: Not applicable REA: Rural Energy Agency

4.7.3 Average Cost of Energy for Lighting and Cooking

The 2016 REA survey also included questions on the cost per month for the households' sources of energy for lighting and cooking. This information is useful in estimating the average cost that a household should be prepared to pay in case they are not accessing that particular source of energy and are intending to use it in the near future. Tables 4.22 and 4.23 show the average cost per month for different types of sources of energy for lighting and cooking respectively.

Among the listed sources of energy for lighting (Table 4.22), the most expensive source is electricity with an average of TZS 19,152, while the cheapest one is candles, with an average cost per month of TZS 2,282. The average costs of all sources of energy for lighting are more expensive in urban areas than in the rural areas except for candles.

The average cost of the sources of energy for lighting per month differs among the regions. For example, the average cost of electricity ranges from TZS 24,981 in Dar es Salaam to TZS 5,521 in Simiyu region. Average cost per month of kerosene is highest in Dar es Salaam (TZS 8,587 and lowest in Tabora region (TZS 3,321), while the cost of rechargeable lights is highest in Simiyu (TZS 13,000) and lowest in Shinyanga (TZS 2,627).

Table 4.22 also includes information on the average number of electricity units used by the households. On average, Tanzania Mainland households use 53 units of electricity per month. Rural households use an average of 44 units while urban households use about 55 units per month. In Dar es Salaam about 61 units are on average used per month, while only about half of the urban units (31 units) are on average used in Iringa and Lindi.

Table 4.22: Average Cost per Month (Paid by Households) by Place of Residence, Region and Source of Energy for Lighting

Place of Residence	Electricity	Kerosene	Candle	Rechargeable	Number of Units of Electricity Used
Tanzania Mainland	19,152	6,094	2,282	3,806	53
Rural	12,936	5,714	2,593	3,684	44
Urban	20,491	7,142	2,218	4,317	55
Region					
Dodoma	13,823	6,716	2,280	2,718	51
Arusha	16,109	6,633	1,245	3,438	50
Kilimanjar	13,792	7,140	2,772	3,567	45
Tanga	18,314	6,282	2,638	5,945	44
Morogoro	17,616	5,451	4,012	3,476	55
Pwani	17,517	7,204	2,287	4,396	56
Dar es Salaam	24,981	8,587	2,086	4,861	61
Lindi	10,761	5,897	2,129	3,571	31
Mtwara	21,841	5,903	1,833	4,373	59
Ruvuma	16,653	5,432	821	4,905	60
Iringa	11,250	6,120	2,174	3,517	31
Mbeya	17,286	6,415	5,182	6,089	47
Singida	15,422	4,053	858	4,877	63
Tabora	12,590	3,321	2,128	2,780	52
Rukwa	10,150	5,222	3,160	3,393	39
Kigoma	13,183	4,468	719	3,202	51
Shinyanga	22,353	6,628	1,876	2,627	46
Kagera	7,711	5,443	1,017	3,469	37
Mwanza	16,389	6,455	6,625	3,081	52
Mara	7,544	6,282	5,100	4,708	44
Manyara	14,173	5,409	3,033	4,147	54
Njombe	10,111	5,302	2,502	2,977	34
Katavi	14,480	4,109	4,100	3,197	34
Simiyu	5,521	4,491	2,842	13,000	55
Geita	18,350	4,641	3,569	5,115	38
Songwe	17,687	4,603	4,307	4,416	43

As for the sources of energy for cooking (Table 4.23), the most expensive one among the listed sources is gas (industrial gas) with the average cost per month of TZS 31,874 followed by charcoal (TZS 30,611). The cheapest source is kerosene with average cost of TZS 18,156 per month. As it is the case for source of energy for lighting, the cost of all sources of energy for cooking is more in urban areas than in the rural areas. Regional variations in the cost of the source of energy for cooking per month are well noticeable. Gas is the most expensive source of energy for cooking in Singida and Simiyu (TZS 50,000 per month) and cheapest in Manyara (TZS 17,000). The average cost per month for kerosene ranges from TZS 31,348 in Ruvuma to TZS 3,866 in Singida region, while the cost of firewood ranges from TZS 41,645 in Arusha to TZS 11,926 in Tabora. Charcoal is most expensive in Dar es Salaam (TZS 49,081 per month) and cheapest in Tabora (TZS 13,467 per month).

Table 4.23: Average Cost per Month (Paid by Households) by Place of Residence, Region and Source of Energy for Cooking

Place of Residence	Kerosene	Firewood	Charcoal	Gas(Industrial)
Tanzania Mainland	18,156	20,897	30,611	31,874
Rural	14,227	20,501	17,815	30,552
Urban	18,694	23,780	36,430	31,976
Region				
Dodoma	8,185	40,768	20,075	46,000
Arusha	16,109	41,645	33,959	26,768
Kilimanjaro	15,156	35,022	29,885	28,386
Tanga	11,224	19,645	24,203	36,722
Morogoro	14,458	17,448	25,544	43,518
Pwani	22,191	23,787	21,815	24,750
Dar es Salaam	20,883	19,885	49,081	34,981
Lindi	6,786	13,618	19,069	0.0
Mtwara	7,280	21,884	19,387	18,000
Ruvuma	31,348	15,610	25,519	0.0
Iringa	11,157	15,036	21,378	31,302
Mbeya	8,000	20,857	27,369	19,563
Singida	3,866	19,499	29,460	50,000
Tabora	4,667	11,926	13,467	0.0
Rukwa	30,000	12,648	23,791	34,266
Kigoma	0.0	17,619	22,409	0.0
Shinyanga	14,500	13,518	25,469	25,000
Kagera	9,737	20,971	19,661	27,350
Mwanza	12,000	20,522	36,593	31,977
Mara	16,349	28,349	19,369	0.0
Manyara	12,579	21,076	26,520	17,000
Njombe	7,645	19,302	18,212	0.0
Katavi	5,500	17,743	16,052	0.0
Simiyu	5,521	17,850	19,778	50,000
Geita	0.0	15,988	16,203	0.0
Songwe	8,000	13,432	20,575	32,500

CHAPTER FIVE

5.0 Availability of Social Services and Electricity Accessibility at Community Level

5.1 Introduction

Rural electrification projects are intended to promote welfare at community level by providing a better quality of life to community members. With this view, this chapter focuses on availability of social services' facilities as potential customers for modern energy in rural communities of Tanzania Mainland. This chapter also describes grid electricity accessibility, economic activities, development projects as well as alternative energy sources and their average prices.

5.2 Availability of Selected Social Services Facilities

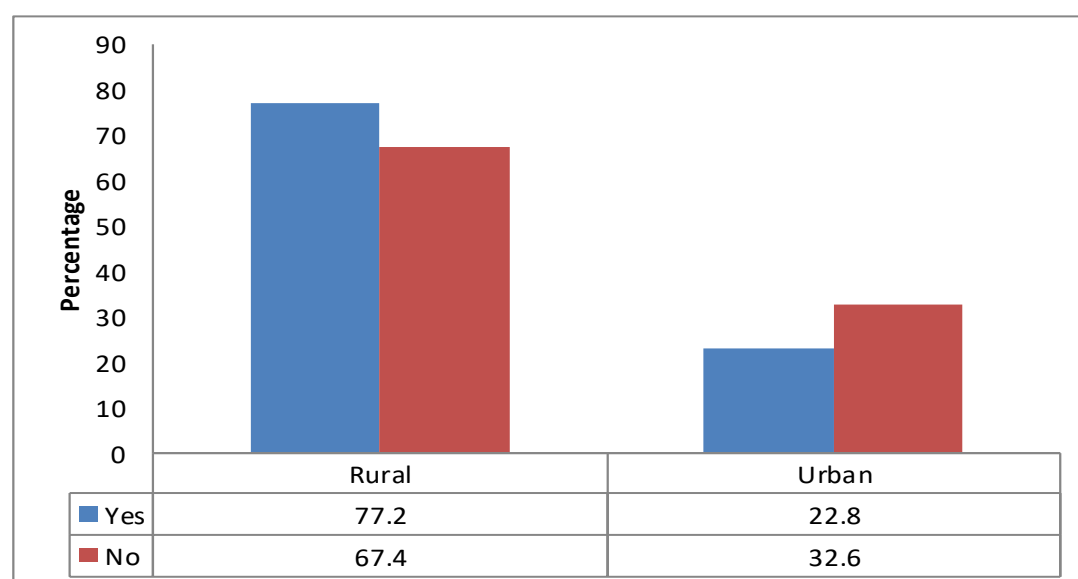
During the survey, Village/Mtaa leaders were asked to provide information on the availability of social services' facilities. The social services' facilities covered include Village/Mtaa offices, education, health, financial, industry/manufacturing related services, religious services, water pumping stations and other social services.

In general, survey results show that many facilities like shops, grain grinding/milling machines, pre-primary and primary schools as well as religious facilities (mosques and churches) are available in both urban and rural areas. On the other hand, fewer services like hide and skin barns, milk collection centers, Post offices, Banks and ATMs were observed at the community level.

5.2.1 Availability of Village/Mtaa Offices

Figure 5.1 presents the percentage distribution of villages/mtaa and whether they have offices. The findings show that 73.2 percent of the total communities reported to have village/mtaa offices, out of which 77.2 percent of these communities had offices in rural areas compared to 22.8 percent in urban areas.

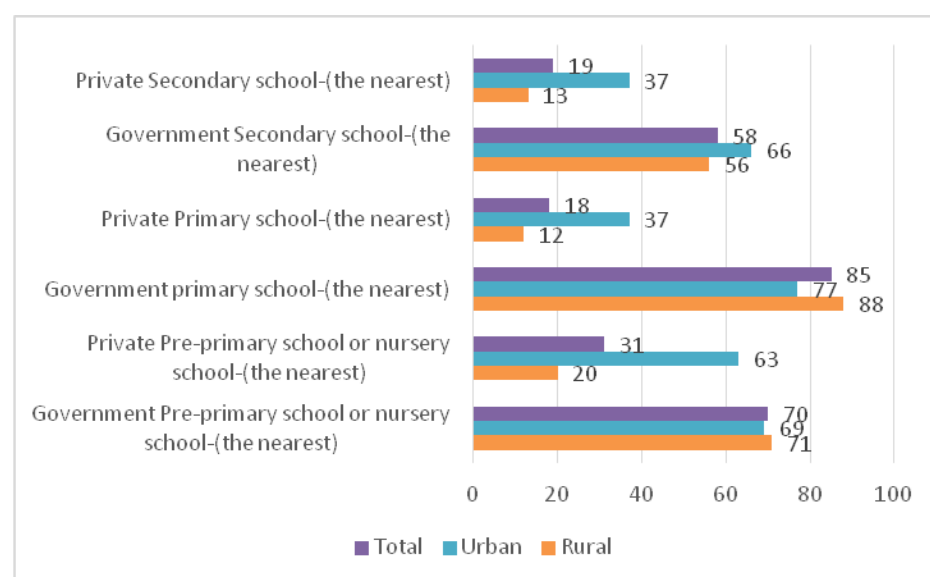
Figure 5.1: Percentage Distribution of Villages/Mtaa Offices by Place of Residence



5.2.2 Education Services

The findings show that 84.9 percent of the Government primary schools are within the community, out of which 87.5 percent are allocated in rural areas and 77.3 percent are in urban areas. However, 58.4 per cent of secondary schools under the Government were located within the Community, out of which 66.3 percent were in urban areas and 55.8 percent were in rural areas. Furthermore, all private schools in the communities were available in urban areas, as shown in figure 5.2.

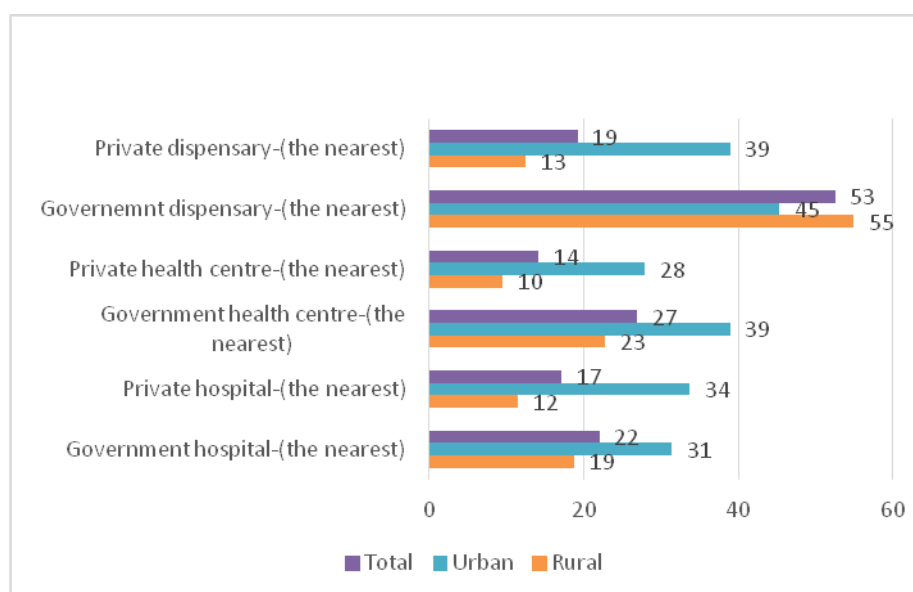
Figure 5.2: Percentage Distribution of Education Facilities by Place of Residence



5.2.3 Health Services

During the survey, the Community Leaders (respondents) were asked about the availability of health facilities around their communities such as hospitals, health centers, dispensaries that are privately or government owned. In general, more than 50 percent of the communities in Tanzania Mainland had dispensaries. The availability of Government dispensaries, health centers and hospitals constituted 53, 27 and 22 percent respectively. It was also observed that most of the private health facilities were more available in urban as compared to rural areas except for the case of government dispensaries (55.0 percent) as shown in figure 5.3.

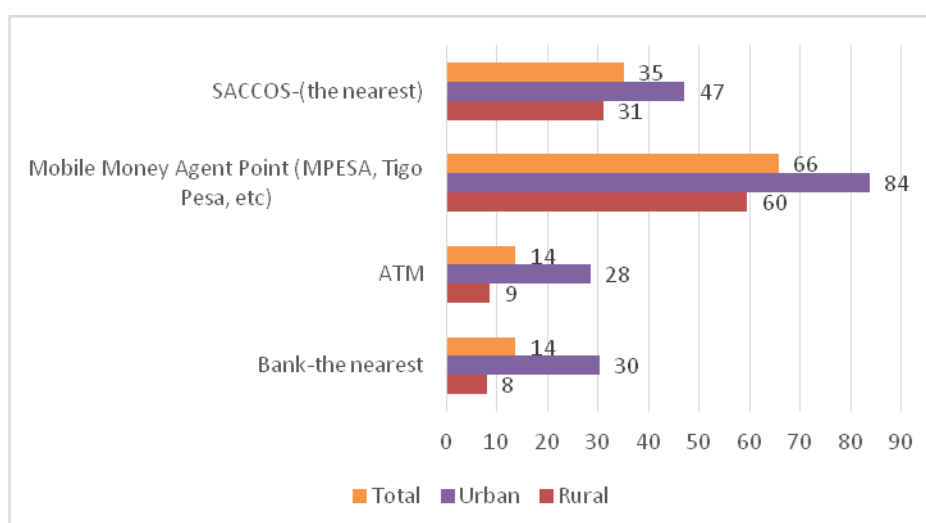
Figure 5.3: Percentage Distribution of Health Facilities by Place of Residence



5.2.4 Financial Services

The survey collected data on some selected financial services including Banks, ATMs, money agent points (M- PESA, TIGO PESA etc.) and SACCOS. The findings in Figure 5.4 show that majority of financial services were available in urban areas than rural areas. The results show that 66 percent of the Mobile money agent points are available at Community level, followed by SACCOS (35 percent), Banks and ATMs (14 percent each). The results further indicate that money agent points are mostly available in both rural (84 percent) and urban (60 percent) communities, while Bank and ATM services were observed to be at 8 and 9 percent in rural and urban areas respectively.

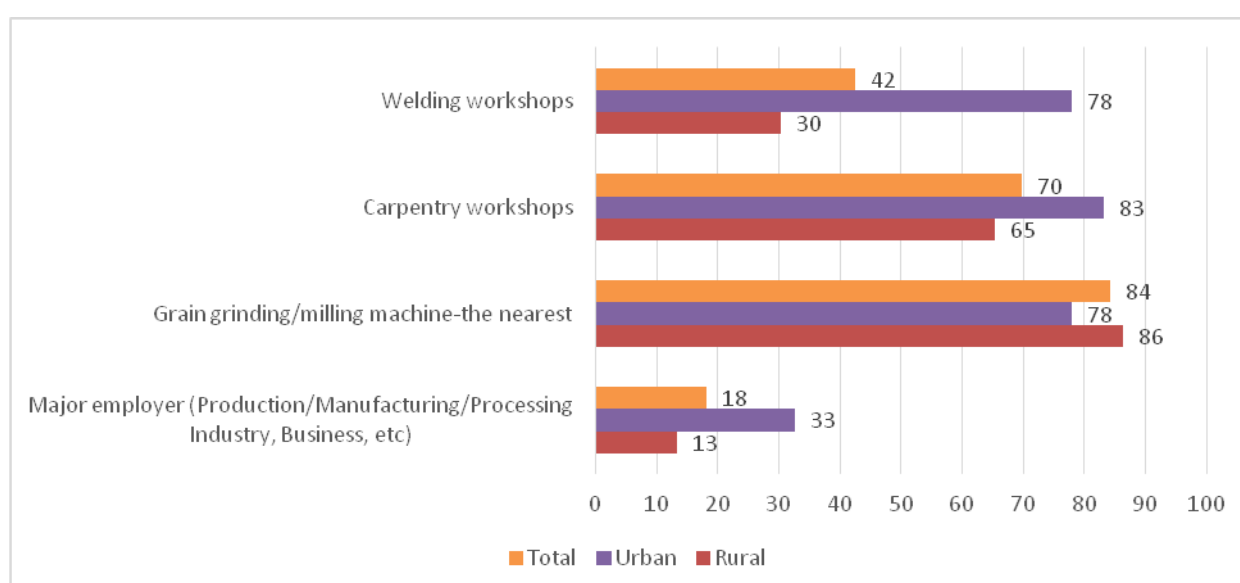
Figure 5.4: Percentage Distribution of Financial Services by Place of Residence



5.2.5 Industry/Manufacturing and Related Services

In general, grain grinding/milling machine was the most available manufacturing related service as reported by 84 percent of the communities in which 86 percent were in rural and 78 percent in urban areas. Moreover, carpentry workshop services were available by 70 percent of communities followed by welding workshops (42 percent). Only 18 percent of the communities reported to be the major employers (Production/Manufacturing/Processing Industry, Business, etc), as shown in Figure 5.5. Moreover, the availability of carpentry workshops was 83 percent higher than any other services reported in urban areas followed by welding workshops and grain grinding (78 percent each).

Figure 5.5: Percentage Distribution of Industry/Manufacturing and Related Services by Place of Residence



5.2.6 Other Services

Under this category, a number of other services were identified to be available in the communities. As Table 5.1 shows, shops were available by 88.0 percent at the community level followed by barber shops (69.4 percent) and recreational places such as music halls, restaurant and groceries (59.3 percent). Furthermore, services like veterinary centres/clinics, water wells, motor pumps and courts were reported to be available in about 50 percent of the communities.

Table 5.1: Percentage Distribution of Other Services Found in Communities

Other services	Yes	No
Market (daily)	36.5	63.5
Shop (s)	88.0	12.0
Water wells using electricity powered motor pumps	21.2	78.8
Hand pumped water wells)	42.8	57.2
Police station or post-the nearest	32.0	68.0
Court (primary)-the nearest	24.0	76.0
Community/Publicly owned tap water-the nearest	49.6	50.4
Guest house (s)	40.1	59.9
Barber shop(s)	69.4	30.6
Hair dressing salon(s)	44.2	55.8
Recreation places(e.g. music hall/restaurant, groceries)	59.3	40.7
Slaughter slabs/House	33.9	66.1
Veterinary centre/clinic	18.8	81.2
Dip tank	25.3	74.7
Primary market for Livestock	32.2	67.8
Charco dam	27.5	72.5

5.3 Access to Electricity

5.3.1 Introduction

“Access” has been defined in a number of ways, which vary with respect to who is the targeted beneficiary (e.g., villages or households), the types of energy supply that are included (e.g., grid-connected or off-grid electricity), and the characteristics of service that make the service “accessible” (e.g., affordability, reliability, quality and adequacy), (**P Shonali, et al 2010**).

Therefore, Energy Access Situation Survey, 2016, adopted the definition from International Energy Agency (IEA) which is also used by Rural Energy Agency (REA) and Tanzania Electric Supply Company (TANESCO). In this regard, access to electricity is defined as “a population having clean, reliable and affordable access to energy services for cooking and heating, lighting, communication and for productive uses”.

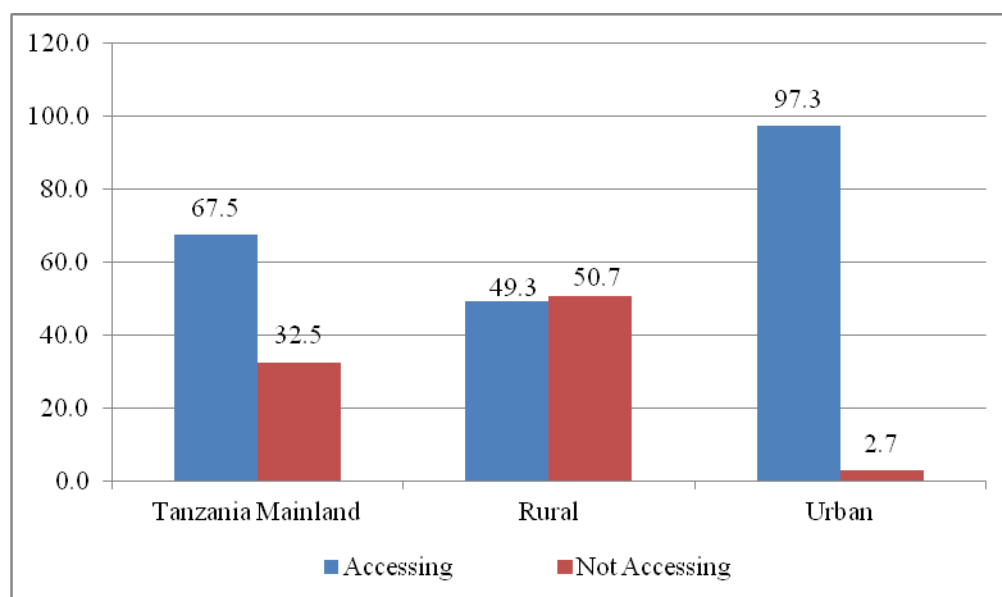
From the definition, it should be well understood that access to electricity involves more than a supply connection to the household. This means that the definition refers to the total population nearby the locality benefiting from electricity irrespective of the household being connected to electricity. The definition has further considered access to electricity for basic social services and productive uses that represents the level of electricity access needed to improve livelihood. Therefore, population accessing electricity is computed by:-

$$\text{Access to Electricity} = \frac{\text{Total Number of Benefiting Population in a Village/Mtaa} \times 100}{\text{Total Population in a Village/Mtaa (benefiting and not benefiting)}}$$

5.3.2 Population Accessing Electricity

The 2016 Energy Access Situation Survey collected information on accessibility of electricity at community level. Findings in Figure 5.6 show that, overall, 67.5 percent of the Tanzania Mainland population had access to grid electricity. Looking at rural - urban differentials, Figure 5.6 shows accessibility of grid electricity to urban population in 2016 was higher (97.3 percent) than that of rural population (49.3 percent). Likewise, Figure 5.6 shows bigger variation of the proportion of the population not accessing grid electricity between urban areas (2.7 percent) and rural areas (50.7 percent).

Figure 5.6: Percentage Distribution of Population Accessing and Not Accessing Grid Electricity by Place of Residence



5.3.3 Accessibility of Electricity among Regions

As Table 5.2 shows, Dar es Salaam was the only region with all of its population (100 percent) had access to grid electricity. It was followed by Kilimanjaro Region (91.7 percent), Mbeya (86.0 percent), Pwani (80.4 percent) and Arusha (80.0 percent). Regions with less than 50 percent of their population with access to grid electricity were Rukwa (43.8 percent), Shinyanga (45.0 percent), Songwe (45.2 percent), Kigoma (46.0 percent), Mtwara (46.4 percent), Ruvuma (48.0 percent) and Manyara (49.4 percent).

Looking at rural -urban localities, Table 5.2 shows that fifteen (15) regions had less than 50 percent of their rural population which had access to grid electricity. Among these regions, the most disadvantaged regions with less than thirty percent of their rural population which had access to grid electricity were Rukwa (15.4 percent), Shinyanga (23.4 percent), Songwe (24.5 percent), Kigoma (27.8 percent) and Mtwara (29.2 percent).

Table 5.2: Percentage Distribution of Population Accessing Grid Electricity by Region and Place of Residence

Region	Total			Rural		Urban	
	Total Pop.	Accessing	Not Accessing	Total Pop.	Accessing	Total Pop.	Accessing
Dodoma	2,464,696	54.4	45.6	2,035,501	44.8	429,196	100
Arusha	1,789,656	80.0	20.0	1,098,934	67.5	690,723	100
Kilimanjaro	1,947,836	91.7	8.3	1,486,823	89.1	461,013	100
Tanga	2,361,739	72.9	27.1	1,553,850	66.1	807,889	85.9
Morogoro	2,090,559	68.6	31.4	1,220,489	46.3	870,070	100
Pwani	1,273,629	80.4	19.6	482,885	48.2	790,744	100
Dar es salaam	6,008,135	100.0	0.0	N/A	N/A	6,008,135	100
Lindi	962,153	52.5	47.5	773,965	41.0	188,188	100
Mtwara	1,828,940	46.4	53.6	1,247,095	29.2	581,844	83.1
Ruvuma	1,192,455	48.0	52.0	920,798	34.2	271,656	94.9
Iringa	1,232,933	65.8	34.2	809,241	47.9	423,692	100
Mbeya	1,545,640	86.0	14.0	630,256	65.7	915,384	100
Singida	1,945,576	50.5	49.5	1,689,120	43.0	256,456	100
Tabora	2,762,159	65.6	34.4	2,281,103	58.4	481,056	100
Rukwa	1,062,799	43.8	56.2	671,163	15.4	391,635	92.6
Kigoma	2,028,827	46.0	54.0	1,461,451	27.8	567,376	92.9
Shinyanga	1,675,647	45.0	55.0	1,203,288	23.4	472,359	100
Kagera	2,654,152	70.1	29.9	2,283,960	65.3	370,192	100
Mwanza	3,772,827	72.6	27.4	1,998,384	51.2	1,774,443	96.7
Mara	1,732,354	70.8	29.2	1,494,820	66.1	237,535	100
Manyara	1,710,557	49.4	50.6	1,400,462	38.1	310,095	100
Njombe	831,119	68.3	31.7	560,676	52.9	270,442	100
Katavi	499,557	59.4	40.6	166,951	37.2	332,605	70.6
Simiyu	1,532,479	51.2	48.8	1,474,899	49.2	57,580	100
Geita	454,805	56.6	43.4	337,161	43.4	117,645	94.3
Songwe	1,680,825	45.2	54.8	1,161,521	24.5	519,303	91.3
Total	49,042,052	67.5	32.5	30,444,796	49.3	18,597,257	97.3

N/A: Not Applicable

5.3.4 Population Accessing Electricity by Sex

The 2016 survey results show insignificant differences between male (67.7 percent) and female (67.3 percent) headed population in Tanzania Mainland which had access to grid electricity. Table 5.3 further indicates that there was a big variation among rural and urban proportions of both male and female population which had access to grid electricity. Rural areas of Kilimanjaro region had the highest proportions of both male and female population (89.1 percent each) which had access to electricity whilst those in Rukwa region had the lowest (15.7 and 15.1 percent respectively).

Table 5.3: Percentage Distribution of Population Accessing Grid Electricity by Region, Place of Residence and Sex

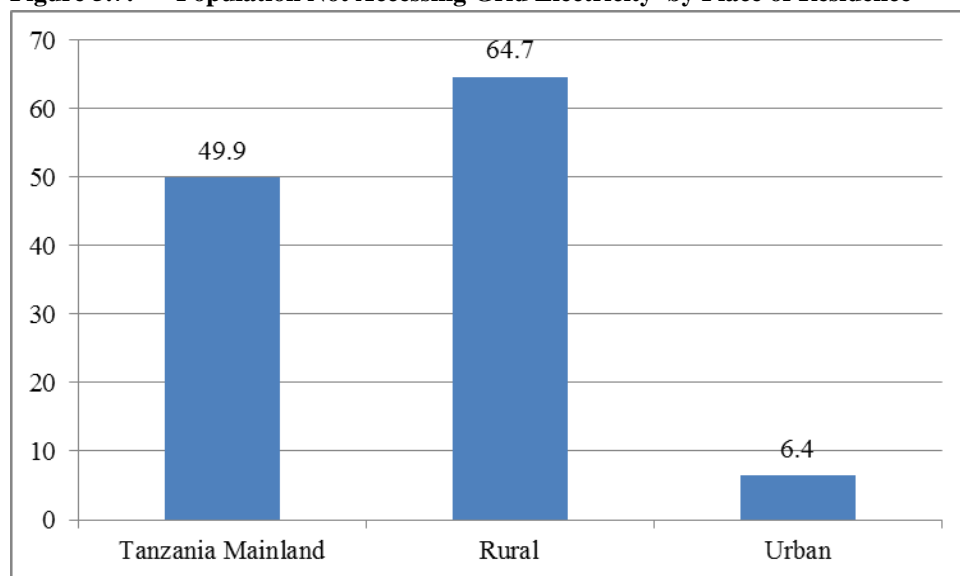
Region	Rural			Urban			Total		
	Male	Female	Total	Male	Female	Total	Male	Female	Total
Dodoma	45.2	44.4	44.8	100.0	100.0	100.0	54.4	54.3	54.4
Arusha	65.8	69.0	67.5	100.0	100.0	100.0	78.8	81.1	80.0
Kilimanjaro	89.1	89.1	89.1	100.0	100.0	100.0	91.6	91.7	91.7
Tanga	65.4	66.7	66.1	86.2	85.6	85.9	72.8	72.9	72.9
Morogoro	47.9	44.9	46.3	100.0	100.0	100.0	69.6	67.8	68.6
Pwani	46.6	49.8	48.2	100.0	100.0	100.0	79.6	81.1	80.4
Dar es salaam	NA	NA	NA	100.0	100.0	100.0	100.0	100.0	100.0
Lindi	41.1	40.9	41.0	100.0	100.0	100.0	53.3	51.8	52.5
Mtwara	29.1	29.3	29.2	82.9	83.3	83.1	46.2	46.6	46.4
Ruvuma	35.1	33.4	34.2	95.4	94.5	94.9	49.0	47.1	48.0
Iringa	47.8	47.9	47.9	100.0	100.0	100.0	65.9	65.7	65.8
Mbeya	66.4	65.0	65.7	100.0	100.0	100.0	86.1	85.9	86.0
Singida	43.6	42.5	43.0	100.0	100.0	100.0	51.2	49.8	50.5
Tabora	58.3	58.5	58.4	100.0	100.0	100.0	65.5	65.7	65.6
Rukwa	15.7	15.1	15.4	92.7	92.6	92.6	44.7	43.1	43.8
Kigoma	28.3	27.4	27.8	93.9	92.0	92.9	47.2	45.0	46.0
Shinyanga	26.2	20.6	23.4	100.0	100.0	100.0	46.3	43.7	45.0
Kagera	68.4	62.5	65.3	100.0	100.0	100.0	73.0	67.6	70.1
Mwanza	51.6	50.9	51.2	97.0	96.4	96.7	72.3	72.9	72.6
Mara	66.6	65.7	66.1	100.0	100.0	100.0	71.0	70.5	70.8
Manyara	39.9	36.6	38.1	100.0	100.0	100.0	51.1	47.8	49.4
Njombe	51.5	54.1	52.9	100.0	100.0	100.0	66.7	69.5	68.3
Katavi	39.6	35.1	37.2	71.1	70.1	70.6	60.2	58.8	59.4
Simiyu	48.1	50.2	49.2	100.0	100.0	100.0	50.1	52.0	51.2
Geita	42.8	44.0	43.4	94.2	94.3	94.3	54.8	58.0	56.6
Songwe	26.0	23.3	24.5	91.0	91.6	91.3	46.9	43.7	45.2
Total	49.8	48.8	49.3	97.3	97.2	97.3	67.7	67.3	67.5

N/A: Not Applicable

5.3.5 Population Not Accessing Electricity

Figure 5.7 shows that 49.9 percent of the Tanzania Mainland population had no access to grid electricity. Moreover, there is a big variation of the population not accessing grid electricity between rural (64.7 percent) and urban areas (6.4 percent).

Figure 5.7: Population Not Accessing Grid Electricity by Place of Residence



5.4 Village/Mtaa Office with Electricity Connection

Results show that 73.2 percent of the Villages/Mtaa offices which were connected to grid electricity were in rural areas and 26.8 percent were in urban areas. Figure 5.8 reveals that twenty percent of the village/mtaa offices in Tanzania Mainland were connected and 80 percent were not connected with electricity. Looking at rural–urban disparities, findings in Table 5.4 shows that 10.2 percent of the rural village/mtaa offices were connected to grid electricity compared to 52.2 percent in urban areas.

Figure 5.8: Village/Mtaa Office Electricity Connection

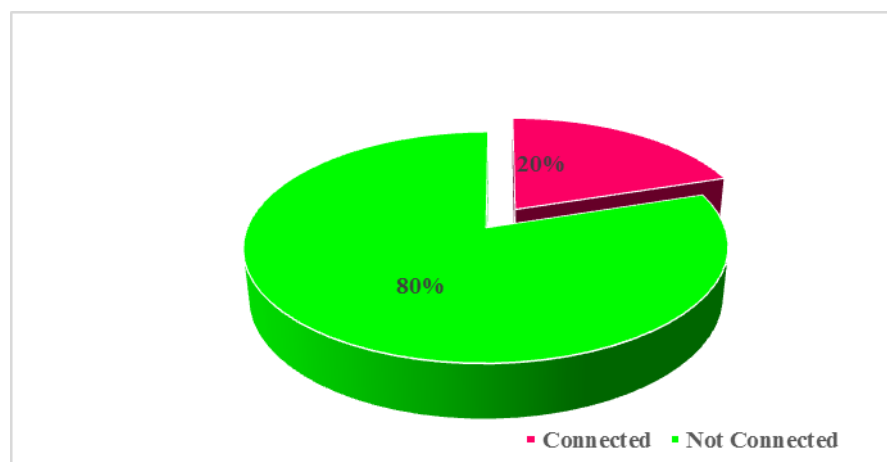


Table 5.4: Percentage Distribution of Villages/Mtaa and Whether Village/Mtaa Office is Connected to Grid Electricity

Electricity Connection	Rural	Urban	Total
Connected	10.2	52.2	20
Not Connected	89.8	47.8	80
Total	100	100	100

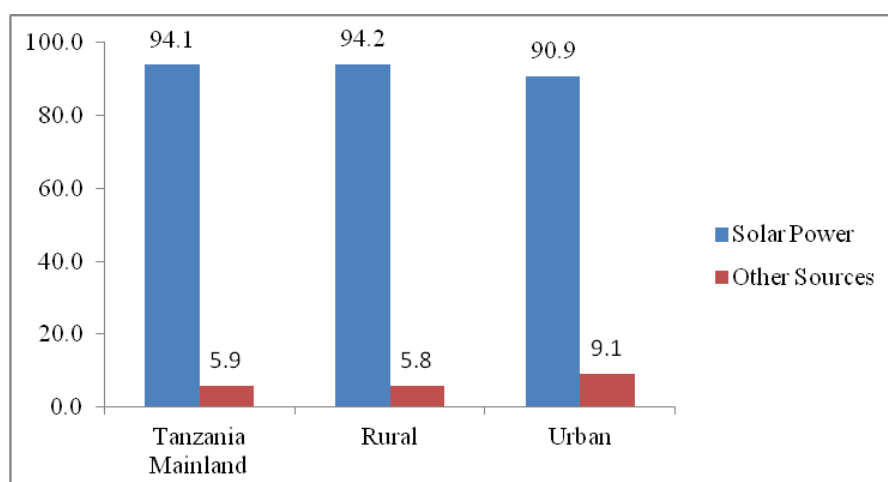
5.5 Alternative Source of Electricity for Majority of Households

Although access to electricity in rural areas is still a challenge, there are various alternative sources of electricity including solar power. Figure 5.9 shows that 94.1 percent of the community leaders in Tanzania Mainland said that solar power (Photovoltaic systems - PV) was the alternative source of electricity for the majority of households in their respective administrative areas(village/mtaa). Those who said other sources of electricity (diesel/petrol generators and wind turbines) as the alternative source of electricity for the majority of households accounted for only 5.9 percent.

The results in Figure 5.9 further reveal that 94.2 percent of the community leaders in rural areas said that solar power is used by the majority of households as alternative source of electricity compared to 90.9 percent of the urban areas.

As the majority of households are using solar power as their alternative source of electricity, this implies that still many households specifically in the rural areas do not have access to grid electricity. Also, the results show that apart from solar power, other alternative sources (diesel/petrol generators and wind turbines) are used in few areas.

Figure 5.9: Percentage Distribution of Village/Mtaa Leaders Responses on the Type of Alternative Sources of Electricity used by the Majority of Households by Place of Residence



5.6 Institutions Connected to Electricity by REA/TANESCO

For the services which were available, the community leaders were asked if all or part of the institution/office/business centres providing services was connected to grid electricity.

As Table 5.5 shows, carpentry, welding workshops and grain grinding/milling machines happened to have the most reported (19.6 percent) centers/workshops/premises to be all connected with grid electricity in Tanzania Mainland. Barber shops and Hair dressing salon(s) and other retail shops were reported to have the highest proportion (19.0 percent) of their physical building premises being connected to grid electricity. Likewise, education services (Government and private primary and secondary education facilities) as well as livestock and veterinary services had the highest proportion of their facilities not connected to grid electricity (28.7 and 28.9 percent respectively). Moreover, among the social services (education, health and water), water service infrastructures reported to be the least connected to grid electricity.

Table 5.5: Status of Electricity Connection for Institutions/Offices/Business/Workshop Centers/Services; Tanzania Mainland

The nearest (Found within the village/mtaa)	Yes, all connected	Yes, some connected	Not connected
Education services	15.7	13.3	28.7
Health services	14.8	5.5	7.1
Financial services	9.2	10.6	5.8
Water services(Water wells and Hand pumped through electricity)	4.7	2.4	2.4
Institutions providing services(Police station/post office & Primary court)	2.1	2.0	3.5
Veterinary and livestock services	2.1	2.1	28.9
Carpentry, welding workshops and grain grinding/milling machines	19.6	19.0	11.0
Barber shops and Hair dressing salon(s) and other retail shops	16.4	22.3	4.1
Recreation places and guest houses	6.0	7.2	3.1
Mosques, churches and daily markets	9.4	15.6	5.3
Grand-Total	100	100	100

5.7 Availability of Social Services

Community leaders were asked on the availability of social service facilities in their village/mtaa. For the services which were not available within their localities, they were asked the distance to the nearest facility. Generally, the results show that more regional and district headquarters (88.8 and 85.5 percent respectively) were located 5 kilometers from the Community. The findings also indicate that there was no service located below 1 kilometer from the community as shown in Table 5.6.

On education services, majority of the schools were located in more than 5 kilometers compared to those located in less than 5 kilometers. More health facilities were located in more than 5 kilometers followed by those located within 1 – 2 kilometers. The facilities like hair dressing salon(s), Milk collection centre, post office etc which were between 3-4 kilometres were few in numbers compared to others. On the other hand, many financial services were located in more than 5 kilometers away from the villages/mtaa. The remaining financial services were located in less than 5 kilometers. Apart from education, health and financial services, the distance to the other services is shown in Table 5.6.

Based on the findings, it seems most of the services are located in more than 1 kilometer from Community center. Service facilities like health and education should not be located very far from the Community due to their importance.

Table 5.6: Percentage Distribution of Villages/Streets by Type of Infrastructure/Services and Distance from the Village/Mtaa

Infrastructure/Service	<1	1-2	3 -4	5+	Total
Distance to Regional Headquarters)	3.3	4.8	3	88.8	100
Distance to District Headquarters)	2.1	7.7	4.7	85.5	100
Government Pre-primary school or nursery school-(the nearest)	0	44.4	13.9	41.7	100
Private Pre-primary school or nursery school-(the nearest)	0	20.8	7.2	72	100
Government primary school-(the nearest)	0	61.4	22.9	15.7	100
Private Primary school-(the nearest)	0	20.3	7.5	72.3	100
Government Secondary school-(the nearest)	0	20.8	15.7	63.5	100
Private Secondary school-(the nearest)	0	30.2	7.5	62.3	100
Government hospital-(the nearest)	0	10.4	9.1	80.5	100
Private hospital-(the nearest)	0	26	5.1	68.9	100
Government health centre-(the nearest)	0	17.4	9.4	73.2	100
Private health centre-(the nearest)	0	31.1	5	63.9	100
Government dispensary-(the nearest)	0	24.4	16.7	58.9	100
Private dispensary-(the nearest)	0	29.7	8.5	61.8	100
Market (daily)	0	27.5	12.7	59.8	100
Major employer (Production/Manufacturing/Processing Industry, Business, etc)	0	24.6	6.9	68.5	100
Mosques and churches	0	45.5	22.7	31.8	100
Shop (s)	0	42.6	14.9	42.6	100
Grain grinding/milling machine-the nearest	0	52.9	17.6	29.4	100
Bank-the nearest	0	13.7	7.4	78.8	100
ATM	0	21.3	6.2	72.5	100
Mobile Money Agent Point (MPESA, Tigo Pesa, etc)	0	21.7	10.6	67.8	100
SACCOs-(the nearest)	0	31	6	63	100
Water wells using electricity powered motor pumps	0	43.6	4.9	51.5	100
Hand pumped water wells)	0	28.6	8.1	63.3	100
Police station or post-the nearest	0	11	9.3	79.7	100
Court (primary)-the nearest	0	18.5	10.4	71.1	100
Post office-the nearest	0	20.1	6.8	73.1	100
Community/Publicly owned tap water-the nearest	0	22.6	8.3	69.1	100
Guest house (s)	0	11.4	11.1	77.5	100
Carpentry workshops	0	34	12.5	53.5	100
Welding workshops	0	24.9	9.7	65.4	100
Barber shop(s)	0	26.5	9	64.5	100
hair dressing salon(s)	0	22.3	6.6	71.1	100
Recreation places(e.g music hall/restaurant, groceries)	0	15.4	10.3	74.3	100
Slaughter slabs/House	0	14.5	15	70.5	100
Veterinary centre/clinic	0	10.6	11.7	77.8	100
Dip tank	0	42.7	9.8	47.5	100
Primary market for Livestock	0	26	11.4	62.6	100
Charcos Dam	0	50.9	7.2	41.9	100
Hide and skins bandas	0	29.3	6.2	64.4	100
Milk collection center	0	40.8	4	55.2	100

5.8 Cost of Transport

For the services which were not available in a Village/Mtaa, community leaders were asked to indicate one way cost of public transport per person from the Village/Mtaa center. The findings in Table 5.7 reveal that 53.7 percent of the Village/Mtaa reported to pay more than TZS 8000/= and above as one way transport cost per person from Village/Mtaa to regional headquarters. In addition, 25.4 percent of the Village/Mtaa also pay TZS 8000/= as the cost of transport from a Village/Mtaa to district headquarters. The Village/Mtaa which reported to pay less than 1000/= from a village/street to district and regional headquarters were only 1.2 and 2.4 percent respectively. The results indicate that the highest cost of transport to majority of government primary schools was between TZS 1,000 – 1,499 while for the government Pre-primary school or nursery schools was between TZS 2,000 – 2,999.

Table 5.7: Distribution of Villages/Mtaa by Type of Infrastructure/Services and Cost of Transport from and to Village/Mtaa using Public Transport

Infrastructure/Service	<100 0	1000- 1499	1500- 1999	2000- 2999	3000- 3999	4000- 4999	5000- 7999	8000 +	Total
Distance to Regional Headquarters	1.2	1.2	2.1	4.5	6.2	6.6	24.4	53.7	100
Distance to District Headquarters	2.4	4.4	2.4	12.3	17.9	11.5	23.8	25.4	100
Government Pre-primary school or nursery school-the nearest	6.2	14.4	7.5	33.6	12.3	4.8	8.2	13	100
Private Pre-primary school or nursery school-the nearest	5	24.8	2.2	13.9	11.6	8.9	20.8	12.9	100
Government primary school-the nearest	20.6	33.3	27	7.9	3.2	0	6.3	1.6	100
Private Primary school-the nearest	10.3	24	4	10.3	11.9	7.4	17.3	14.8	100
Government Secondary school-the nearest	25.6	15.2	4.5	18.4	9	4	16.6	6.7	100
Private Secondary school-the nearest	22.6	7.1	2.7	11.4	11.4	10.5	17.3	17.1	100
Government hospital-the nearest	13.9	6.4	2.4	14.4	12.2	9.3	24	17.4	100
Private hospital-the nearest	8.3	13.9	3.4	11.9	14.1	8.1	21.7	18.6	100
Government health centre-the nearest	13.1	11.8	3.9	19.5	12.3	7.2	19.8	12.3	100
Private health centre-the nearest	4.8	11.6	12.9	16	11.8	5.9	19.5	17.3	100
Government dispensary-the nearest	23.3	14.1	3.5	22	10.6	2.6	18.5	5.3	100
Private dispensary-the nearest	26.1	7.5	2.9	12.2	12.9	5.2	19.5	13.6	100
Market (daily)	8.6	13.5	13.5	18.6	11.5	5.7	18.9	9.7	100
Major employer (Production/Manufacturing/Processing Industry, Business, etc)	14.2	13.5	3	10.5	13.5	7.1	21.3	16.9	100
Mosques and churches	27.8	40.7	1.9	18.5	1.9	3.7	3.7	1.9	100
Shop (s)	14.8	47.5	0	6.6	13.1	3.3	9.8	4.9	100
Grain grinding/milling machine-the nearest	47.8	11.6	2.9	15.9	7.2	2.9	8.7	2.9	100
Bank-the nearest	9.9	7.3	2.6	13.1	14.7	9.3	23.9	19.2	100
ATM	13.9	3.7	3	13.7	14.1	9.3	23.9	18.4	100
Mobile Money Agent Point (MPESA, Tigo Pesa, etc)	25.5	12.3	3.4	21.1	10.8	2.9	18.1	5.9	100
SACCOs-the nearest	21	6.3	3.7	15.2	13.5	6.3	19.8	14.1	100
Water wells using electricity powered motor pumps	21.3	18.1	3.5	9.5	9	6.5	19.3	12.8	100
Hand pumped water wells	15.7	23.1	8	8.7	10.1	8	14.7	11.5	100
Police station or post-the nearest	13.5	7.4	4.5	19.9	17	8	18.8	10.9	100
Court (primary)-the nearest	12.4	7.2	2.2	19.6	17.1	7.7	20.5	13.4	100
Post office-the nearest	16.6	3.7	2.2	14.7	13.1	9.5	23.1	17.2	100
Community/Publicly owned tap water-the nearest	36.3	7.6	1.8	13.3	11.5	3.2	12.6	13.7	100
Guest house (s)	2.7	16.1	15.5	20.7	14.7	5.7	15.5	9	100
Carpentry workshops	26.3	11.4	3.4	16	10.9	6.3	15.4	10.3	100
Welding workshops	15.7	10.8	4.6	20.2	14	7.7	17.7	9.4	100
Barber shop(s)	16.5	8.8	2.2	30.2	12.6	7.1	14.3	8.2	100
Air dressing salon(s)	11.1	20	4	15.1	14.6	6.3	20	8.9	100
Recreation places	15.4	20.2	3.2	14.6	13.8	7.3	14.6	10.9	100
Slaughter slabs/House	11	25.5	4	14.1	10.1	6.4	19.6	9.2	100
Veterinary centre/clinic	31.1	7.5	2.7	11.4	10.9	7.1	17.3	11.9	100
Dip tank	11.1	18.9	18.9	10.6	9.7	5.8	14.2	10.8	100
Primary market for Livestock	16.3	21.6	3.2	15.7	12.2	4.7	17.5	8.7	100
Charcos dam	13.4	26.8	2.8	20.2	8.3	5.1	12.3	11.1	100
Hide and skins bandas	12	21.1	2	17.6	10.9	5	18	13.5	100
Milk collection center	33.8	5.3	1.8	6.8	11	6.4	16.9	18	100

5.9 Investment Projects Implemented in 2015/2016

Expansion of economic activities normally results into the increase in demand for power. In order to ensure sustainable electricity supply especially in rural areas, the Government of Tanzania established REA for the purpose of promoting connectivity and access to electricity energy in rural areas, managing the Rural Energy Fund (REF) and mobilizing resources for rural electrification. However, REA objectives can only be achieved in collaboration with other stakeholders in development including Development Partners (DPs) who are supporting various energy projects in Tanzania Mainland.

The Survey revealed that in 2015/16, various investment projects were implemented in the communities including electrification projects, Solar Power and Biogas projects. Other projects were implemented in infrastructure and social services. During the year under review, 2,597 projects were implemented in Tanzania Mainland (Table 5.8). Most of the projects were implemented in rural (1,996 projects, 76.9 percent) than in urban areas (601 projects, 23.1 percent).

Table 5.8 also shows that, at community level, many projects implemented in 2015/16 in rural areas focused on construction and maintenance of primary schools (11.6 and 8.8 percent). It was followed by road construction and maintenance projects (11.2 percent) and construction of secondary schools (8.5 percent). The least implemented projects in rural areas with less than five percent of the community leaders agreed were grain storage facilities (3.4 percent), livestock infrastructure (2.2 percent), construction, maintenance and rehabilitation of markets (2.1 percent), irrigation schemes (1.4 percent) and Village/Mtaa biogas projects (0.6 percent).

In urban areas, the most prevailing projects were primary schools maintenance and road construction and maintenance (13.1 percent each). Secondary schools maintenance ranked second (10.1 percent) and the third project was primary schools construction (7.7 percent). The least implemented projects in urban areas with less than two percent of the community leaders agreed were grain storage facilities (1.8 percent), irrigation schemes (1.3 percent), livestock infrastructure (0.8 percent), and Village/Mtaa biogas projects (0.7 percent).

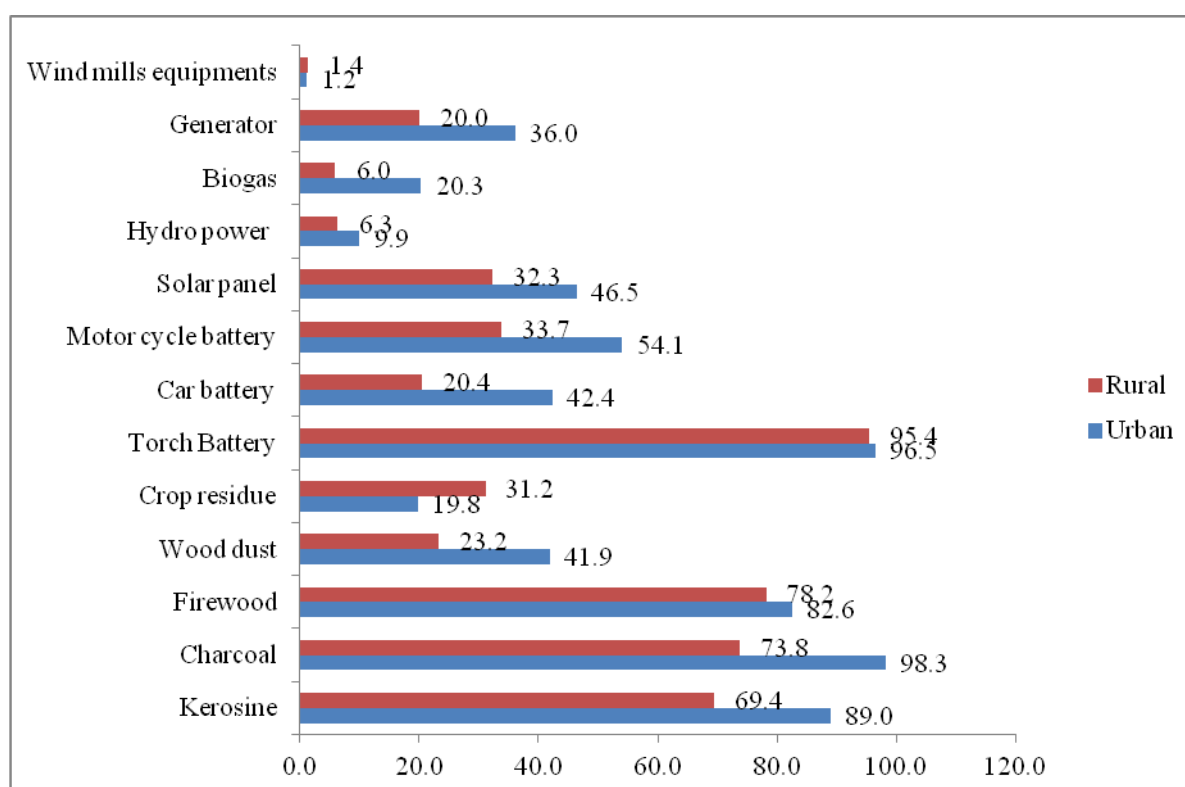
Table 5.8: Percentage Distribution of Projects Implemented at Community Level in 2015/16

Project	Projects implemented in 2015/16 at Community level					
	Rural		Urban		Tanzania Mainland	
	Community leaders Agreed		Community leaders Agreed		Community leaders Agreed	
	Number	Percent	Number	Percent	Number	Percent
Village/Mtaa electrification project	118	5.9	40	6.7	158	6.1
Village/Mtaa solar power project	132	6.6	26	4.3	158	6.1
Village/Mtaa biogas project	11	0.6	4	0.7	15	0.6
Road construction, maintenance & rehabilitation	223	11.2	79	13.1	302	11.6
Markets: construction, maintenance & rehabilitation	42	2.1	34	5.7	76	2.9
Water supply: digging well, installing pump, etc.	132	6.6	40	6.7	172	6.6
School construction: pre-primary	113	5.7	25	4.2	138	5.3
School maintenance: pre-primary	109	5.5	37	6.2	146	5.6
School construction: primary	176	8.8	46	7.7	222	8.5
School maintenance: primary	231	11.6	79	13.1	310	11.9
School construction: secondary	170	8.5	43	7.2	213	8.2
School maintenance: secondary	146	7.3	61	10.1	207	8.0
Health centre or dispensary: construction	138	6.9	25	4.2	163	6.3
Health centre or dispensary: maintenance	116	5.8	38	6.3	154	5.9
Irrigation schemes	28	1.4	8	1.3	36	1.4
Livestock Infrastructure (Vet centre, dip tanks etc.	44	2.2	5	0.8	49	1.9
Grain storage facilities: community level	67	3.4	11	1.8	78	3.0
Total	1996	100.0	601	100.0	2597	100.0
Percent of the projects in Rural/Urban to the Tanzania Mainland	76.9		23.1		100.0	

5.10 Availability and Cost of Alternative Energy Sold

Alternative energies include solar, wind, hydroelectric and geothermal, just to mention a few. During the survey, community leaders were asked on whether selected alternative sources are sold at Village/Mtaa or District capital. As shown in Figure 5.10, torch batteries are mostly sold in both urban and rural Communities (95.7 percent). This source was reported to be sold in 95.4 and 96.5 percent of urban and rural communities respectively. The survey results also show a significant sale of charcoal, firewood and kerosene at community level. However, sales of other alternative energies like biogas, generator and wind mill equipments are quite insignificant in rural compared to urban areas.

Figure 5.10: Distribution of Village/Mtaa by Sources of Alternative Energy Sold



The results show that, market information on prices of selected energy sources sold were collected from a total of 2,730 market places of which 1,911 were rural markets and 819 were urban markets. The percentage distribution of market prices of selected energy sources are presented in Table 5.9. The findings show that in all selected energy sources, the market price of almost all alternative energy sources at village/mtaa level is less than TZS 500. However, the market price for kerosene sold (which unit, a litre or what) at village/mtaa level is between TZS 2,000 and 4,999 as reported by 70 percent of the communities. Furthermore, 41.4 and 45.7 percent of the communities reported the market price of charcoal and firewood to range between TZS 1,500-1999 and TZS 1,000 – 1,499 respectively. Higher market prices of more than TZS 2,000 for hydropower and motorcycle were reported by 39.5 and 35.7 percent of the communities respectively.

Table 5.9: Distribution of Villages/Mtaa by Type of Energy Sources Sold and Market Prices at Village/Mtaa Level

Energy sources sold	<500	500-999	1000-1499	1500-1999	2000-4999	5000-9999	10000-19999	20000+	subtotals
Kerosine	22.4	-	-	7.1	70.0	0.5	-	-	100.0
Charcoal	14.8	1.9	22.9	41.4	14.8	4.3	-	-	100.0
Firewood	12.9	-	45.7	6.7	23.3	7.1	1.9	2.4	100.0
Wood dust	86.7	0.5	6.7	0.5	4.3	1.4	-	-	100.0
Crop Residue	74.3	0.5	16.2	1.4	6.2	1.4	-	-	100.0
Torch Battery	71.9	21.9	2.9	1.0	1.0	1.4	-	-	100.0
Car Battery	72.9	-	-	-	-	-	0.5	26.7	100.0
Motor Cycle	59.5	-	-	-	0.5	-	0.5	39.5	100.0
Solar Panel	61.4	-	-	-	0.5	-	2.4	35.7	100.0
Hydro Power	98.1	-	-	-	-	0.5	1.0	0.5	100.0
Biogas	93.8	-	-	-	-	-	2.4	3.8	100.0
Generator	75.7	-	-	-	-	-	-	24.3	100.0
Wind mills	100.0	-	-	-	-	-	-	-	100.0

The survey collected data on market prices of selected energy sources from a total of 5,096 markets at district headquarters of which 72.7 percent were rural markets. The results in Table 5.10 show that more than 50 percent of the communities reported to pay less than TZS 500 for wood dust, crop residue, torch battery, and hydropower and windmill energy sources. The findings also reveal that 72.7 percent of the communities at district level pay TZS 2,000 - 4,999 for Charcoal and the same range of price of kerosene was reported by 45.9 percent of the communities. Higher market prices of more than TZS 2,000 were reported by 83.4, 87.8, 84.9, and 80.9 percent of communities for car battery, motor cycle and solar panel energy sources, respectively.

Table 5.10: Distribution of Villages/Mtaa by Type of Energy Sources Sold and Market Prices (TZS) at District Headquarters Level

	Energy source sold	<500	500-999	1000-1499	1500-1999	2000-4999	5000-9999	10000-19999	20000+
	Kerosine	24.2	-	-	27.0	45.9	1.0	1.0	0.8
Total (%)	Charcoal	16.3	-	-	2.3	72.7	4.6	3.8	0.3
	Firewood	25.3	0.8	35.2	7.1	20.7	6.9	1.5	2.6
	Wood dust	85.2	0.3	7.7	1.5	3.8	1.5	-	-
	Crop Residue	71.9	0.3	14.5	1.0	7.9	3.6	0.5	0.3
	Torch Battery	74.2	18.6	3.1	1.0	1.8	1.0	-	0.3
	Car Battery	11.7	-	0.5	-	0.5	0.5	3.3	83.4
	Motor Cycle	8.7	0.3	0.3	-	1.3	0.8	1.0	87.8
	Solar Panel	9.4	-	0.3	-	1.3	0.5	3.6	84.9
	Hydro Power	87.0	0.3	0.5	-	0.3	4.8	3.8	3.3
	Biogas	67.1	-	0.8	-	0.3	0.8	9.2	21.9
	Generator	17.1	0.3	-	-	0.3	0.8	0.8	80.9
	Wind mills	90.8	-	-	-	-	1.0	1.5	6.6

CHAPTER SIX

6.0 Benefits and Impact of Rural Electrification

6.1 Introduction

Improved electrification in rural areas accelerates socio-economic activities worldwide. Characteristics of village life do not differ much across the world. Rural life is predominantly characterized by hand to mouth agribusiness and very minimal use of electrified services.

This chapter, therefore, assesses benefits and impacts to citizens and other social groups in rural Tanzania Mainland caused by the efforts of rural energy supply as stipulated in the 2015 Energy policy. The process involved electrification through grid. The Rural Energy Agency in this case was established along with the Rural Energy Board and the Rural Energy Fund entrusted with the roles of promoting, stimulating and facilitating improved access to modern energy services in rural areas by empowering both public and private sectors initiatives in this matter.

Apart from knowing the level and pace of rural electrification, the objectives of this survey were among others, to assess the impact of rural electrification to general living conditions of the rural population. The impact was assessed by considering different social activities and services which form a general pattern of living to rural societies. The analysis of this section takes into account these impacts at national, regional and gender dimensions.

Rural life is mostly characterized by limited economic activities that use energy such as electricity. Even if some electrified activities exist, they are usually very few and scattered around villages. The Rural Energy Agency has tried to facilitate electrification projects in order to enable rural population improve their economic activities and standards of living. One of the major benefits for having an enhanced modern energy supply system in villages is to minimize distances covered to nearest economic and social services such as water sources, grain mills facilities etc.

More than half (70.8 percent) of heads of household in Tanzania Mainland agreed that, electrification shortened distance travelled to/from milling/grinding machines

Table 6.1 shows the level of benefits on households on distances they are covering to grain milling services after an improved accessibility of electricity. About 71 percent of the households in Tanzania Mainland agreed that after electrification processes, distance travelled to/from grain milling facility/machine has been minimized or shortened. This means that the problem of long travels searching for a milling facility was reduced. Regional wise, the survey has shown that 9 regions out of 26 revealed that above 75 percent of households agreed to have reduced the distances to grain milling services as a result of accessing electricity, which is about 26 percent of total households in Tanzania Mainland. These regions include Songwe, Mwanza, Simiyu, Arusha,

Mbeya, Lindi, Dodoma, Katavi and Tanga. The lowest percent of 51 households with this benefit was revealed in Iringa Region. Further analysis (Table 6.1) shows that more female headed households than male headed households agreed that accessibility of electricity has shortened distances travelled to/from grain grinding/milling machines. This accounted to 74.1 and 69.7 percent respectively.

Table 6.1: Distribution of Households by Region and Whether Accessibility of Electricity has Shortened Distances Travelled by Household Members To/From Grain Grinding/Milling Machines

Region	Accessibility of Electricity shortened distances travelled by household members to/from grain grinding/milling machines				
	Total number of household	Number of household agreed	Percent of Household agreed	Number of household who disagreed	Percent of household who disagreed
Tanzania Mainland	6,776,636	4,799,362	70.8	1,977,274	29.2
Dodoma	309,732	247,829	80.0	61,902	20.0
Arusha	323,668	268,250	82.9	55,418	17.1
Kilimanjaro	353,158	248,494	70.4	104,664	29.6
Tanga	397,539	311,012	78.2	86,526	21.8
Morogoro	328,018	225,634	68.8	102,384	31.2
Pwani	188,830	107,805	57.1	81,025	42.9
Dar es salaam	1,409,940	959,281	68.0	450,659	32.0
Lindi	155,207	124,388	80.1	30,819	19.9
Mtwara	284,064	175,916	61.9	108,148	38.1
Ruvuma	168,302	93,986	55.8	74,316	44.2
Iringa	185,678	95,158	51.2	90,519	48.8
Mbeya	225,469	181,177	80.4	44,293	19.6
Singida	133,014	82,417	62.0	50,597	38.0
Tabora	234,212	136,303	58.2	97,909	41.8
Rukwa	79,269	52,647	66.4	26,622	33.6
Kigoma	160,068	107,845	67.4	52,223	32.6
Shinyanga	106,261	61,022	57.4	45,239	42.6
Kagera	413,967	267,985	64.7	145,982	35.3
Mwanza	415,227	361,874	87.2	53,354	12.8
Mara	217,633	163,017	74.9	54,616	25.1
Manyara	124,804	86,627	69.4	38,177	30.6
Njombe	188,513	123,771	65.7	64,742	34.3
Katavi	57,269	45,541	79.5	11,728	20.5
Simiyu	146,358	124,093	84.8	22,265	15.2
Geita	30,801	22,506	73.1	8,296	26.9
Songwe	139,634	124,784	89.4	14,850	10.6

Out of all female headed households, (more than 75 percent) in nine regions only felt that accessibility of electricity has shortened distances travelled to/from grain grinding/milling facilities (Table 6.1a). In other words, it is from 14 regions (or 53.8 percent) out of all male headed households that more than three quarters agreed on this positive effect.

Heads of households or their representatives were asked about their opinions relating to benefits and impact of rural electrification on distances which households were taking to go to the nearby grain milling facility. Disparities were assessed across location and gender of heads of households (Table 6.1a). Fewer rural heads of households than their urban counterparts confirmed that accessibility of electrification has shortened distances covered by their household members to the nearest grain milling facilities. About 63 percent of rural heads of households and 78.0 percent of the urban heads of households confirmed to this contention. With respect to gender, more female headed households (67.3 percent) than male headed households (61.8 percent) in rural areas reported to have shortened the distances. However, more than a quarter of both male and female heads of households in the urban areas reported to have shortened distances to grain mill facilities as a result of electricity accessibility. This is in line with urban characteristics of most areas in Tanzania mainland.

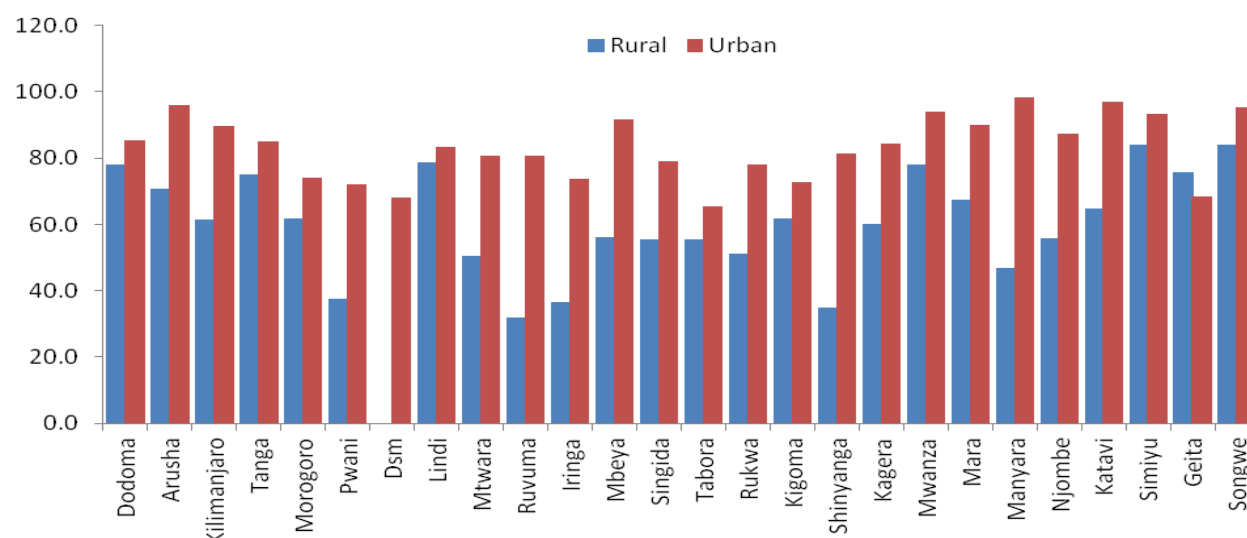
Table 6.1a: Distribution of Households by Region and Sex of Heads on Whether Accessibility of Electricity has Shortened Distances Travelled To/From Grain Grinding/Milling Machines

Region	Accessibility of Electricity shortened distances travelled by household members to/from grain grinding/milling machines									
	Male Headed					Female Headed				
	Total number of household	Household Agreed (Number)	Household Agreed (%)	Household Disagreed (Number)	Household Disagreed (%)	Total number of household	Household Agreed (Number)	Household Agreed (%)	Household Disagreed (Number)	Household Disagreed (%)
Total Tanzania Mainland	5,105,162	3,560,213	69.7	1,544,949	30.3	1,671,473	1,239,149	74.1	432,324	25.9
Dodoma	254,254	201,598	79.3	52,656	20.7	55,478	46,231	83.3	9,246	16.7
Arusha	247,680	208,195	84.1	39,485	15.9	75,988	60,055	79.0	15,933	21.0
Kilimanjaro	259,384	171,651	66.2	87,733	33.8	93,774	76,842	81.9	16,931	18.1
Tanga	276,706	215,539	77.9	61,167	22.1	120,833	95,473	79.0	25,360	21.0
Morogoro	237,296	153,741	64.8	83,555	35.2	90,722	71,893	79.2	18,829	20.8
Pwani	140,118	73,880	52.7	66,238	47.3	48,712	33,924	69.6	14,787	30.4
Dar es salaam	1,047,388	715,113	68.3	332,275	31.7	362,552	244,168	67.3	118,384	32.7
Lindi	120,661	93,681	77.6	26,980	22.4	34,545	30,707	88.9	3,838	11.1
Mtwara	214,962	134,923	62.8	80,039	37.2	69,102	40,993	59.3	28,109	40.7
Ruvuma	127,249	60,118	47.2	67,131	52.8	41,053	33,869	82.5	7,184	17.5
Iringa	128,283	61,930	48.3	66,353	51.7	57,394	33,228	57.9	24,166	42.1
Mbeya	179,073	136,938	76.5	42,135	23.5	46,396	44,238	95.3	2,158	4.7
Singida	108,509	65,789	60.6	42,720	39.4	24,505	16,628	67.9	7,877	32.1
Tabora	174,911	102,237	58.5	72,674	41.5	59,301	34,066	57.4	25,234	42.6
Rukwa	60,273	39,078	64.8	21,195	35.2	18,996	13,569	71.4	5,428	28.6
Kigoma	115,874	82,591	71.3	33,283	28.7	44,194	25,254	57.1	18,940	42.9
Shinyanga	82,301	45,049	54.7	37,252	45.3	23,960	15,973	66.7	7,987	33.3
Kagera	328,865	207,704	63.2	121,161	36.8	85,102	60,281	70.8	24,821	29.2
Mwanza	324,676	284,493	87.6	40,183	12.4	90,552	77,380	85.5	13,171	14.5
Mara	140,790	92,489	65.7	48,300	34.3	76,843	70,528	91.8	6,316	8.2
Manyara	95,113	62,503	65.7	32,610	34.3	29,692	24,124	81.3	5,567	18.8
Njombe	141,105	93,129	66.0	47,976	34.0	47,408	30,642	64.6	16,766	35.4
Katavi	46,945	37,662	80.2	9,283	19.8	10,324	7,879	76.3	2,445	23.7
Simiyu	112,014	96,774	86.4	15,240	13.6	34,343	27,319	79.5	7,025	20.5
Geita	25,913	19,121	73.8	6,792	26.2	4,889	3,384	69.2	1,504	30.8
Songwe	114,817	104,284	90.8	10,534	9.2	24,817	20,501	82.6	4,316	17.4

In other words, rural households from only seven regions of Simiyu, Songwe, Lindi, Dodoma, Mwanza, Geita and Tanga have shortened distances to nearby grain mills by at least 75 percent. When this is examined by considering gender, more female headed households in rural areas than their male counterparts have shown some positive effect on reducing distances to grain mill services as a result of electricity accessibility. The survey revealed that rural female headed households from eight regions and that of male headed households from six regions have improved/reduced the distances from nearby grain mill facilities (Table 6.1b). This may represent the actual situation in most rural living practices where women perform most of household activities including going to grain mills.

Table 6.1b: Distribution of Households by Region, Place of Residence and Sex of Heads on Whether Accessibility of Electricity has Shortened Distances Travelled To/From Grain Grinding/Milling Machines

Region	Accessibility of Electricity shortened distances travelled by household members to/from grain grinding/milling machines												
	Rural						Urban						
	Total		Male Headed		Female Headed		Total			Male Headed		Female Headed	
	Total Household (Number)	Household Agreed (%)	Total Household (Number)	Household Agreed (%)	Total Household (Number)	Household Agreed (%)	Total Household (Number)	Household Agreed (Number)	Household Agreed (%)	Total Household (Number)	Household Agreed (%)	Total Household (Number)	Household Agreed (%)
Total	3,237,621	62.9	2,573,205	61.8	664,416	67.3	3,539,015	2,761,830	78.0	2,531,958	77.8	1,007,057	78.7
Dodoma	228,088	78.2	189,562	77.8	38,526	80.0	81,643	69,571	85.2	64,692	83.7	16,952	90.9
Arusha	169,408	70.9	139,993	73.5	29,415	58.3	154,260	148,190	96.1	107,687	97.8	46,573	92.1
Kilimanjaro	241,858	61.5	176,737	55.4	65,121	78.0	111,300	99,795	89.7	82,647	89.2	28,653	90.9
Tanga	269,561	75.0	202,432	73.4	67,129	80.0	127,977	108,761	85.0	74,274	90.2	53,703	77.8
Morogoro	141,185	61.9	106,950	62.5	34,235	60.0	186,833	138,249	74.0	130,346	66.7	56,487	90.9
Pwani	81,998	37.6	61,992	31.5	20,007	56.5	106,831	76,965	72.0	78,126	69.6	28,705	78.8
Dar es salaam	-	-	-	-	-	-	1,409,940	959,281	68.0	1,047,388	68.3	362,552	67.3
Lindi	109,948	78.8	87,686	75.2	22,263	93.1	45,259	37,709	83.3	32,976	84.1	12,283	81.3
Mtwara	176,892	50.6	142,927	52.8	33,965	41.4	107,172	86,396	80.6	72,035	82.5	35,137	76.7
Ruvuma	85,410	31.8	75,147	29.3	10,263	50.0	82,892	66,812	80.6	52,102	73.1	30,790	93.3
Iringa	112,026	36.5	82,573	33.0	29,452	46.2	73,652	54,286	73.7	45,710	75.8	27,942	70.3
Mbeya	71,911	56.0	60,042	49.1	11,869	90.9	153,558	140,892	91.8	119,031	90.3	34,528	96.9
Singida	95,984	55.4	83,731	53.1	12,252	71.4	37,030	29,237	79.0	24,778	86.2	12,252	64.3
Tabora	169,741	55.5	128,104	56.7	41,637	51.5	64,471	42,180	65.4	46,807	63.2	17,664	71.4
Rukwa	33,924	51.0	27,818	47.6	6,106	66.7	45,345	35,329	77.9	32,454	79.6	12,890	73.7
Kigoma	78,140	61.8	57,937	66.0	20,203	50.0	81,928	59,530	72.7	57,937	76.6	23,991	63.2
Shinyanga	54,768	35.0	46,782	33.3	7,987	44.4	51,493	41,879	81.3	35,520	82.9	15,973	77.8
Kagera	335,447	60.1	276,939	58.8	58,508	66.7	78,520	66,278	84.4	51,926	86.7	26,594	80.0
Mwanza	177,429	78.1	151,087	80.9	26,342	62.5	237,798	223,254	93.9	173,589	93.5	64,209	94.9
Mara	145,825	67.5	106,877	59.6	38,948	89.2	71,808	64,565	89.9	33,913	84.8	37,895	94.4
Manyara	70,058	46.8	57,068	44.4	12,990	57.1	54,747	53,841	98.3	38,045	97.6	16,702	100
Njombe	129,374	55.7	100,467	55.1	28,907	58.0	59,139	51,692	87.4	40,638	93.1	18,501	75.0
Katavi	31,122	64.9	27,318	68.0	3,803	42.9	26,147	25,345	96.9	19,627	97.3	6,520	95.8
Simiyu	134,817	84.1	105,156	85.5	29,660	78.9	11,541	10,761	93.2	6,858	100	4,683	83.3
Geita	19,717	75.7	17,836	76.3	1,880	70.0	11,085	7,575	68.3	8,076	68.2	3,008	68.8
Songwe	72,990	84.0	60,042	86.0	12,948	75.0	66,644	63,458	95.2	54,775	96.2	11,869	90.9

Figure 6. 1: Percentage Distribution of Rural and Urban Household Members Shown Reduced Distances to Grain Mill Facilities, 2016

6.2 Establishment of Small Scale Industries

In the Tanzania context, a small industry is defined as any production unit whose control is within the capability of its people, individually or collectively in terms of capital required and know-how. Small scale industries are being modernized by use of electricity energy. Most family level industries in rural areas in Tanzania are characterized by human manual power and, therefore, their productivities are quite minimal. Heads of households were asked to indicate their perceptions on whether the accessibility of grid power influenced the establishment of small scale industries in their localities.

More urban heads of households (71.5 percent) than their counterparts in rural areas (42.5 percent) believed that there was an increased establishment of small scale industries as a result of availability of electricity in their areas (Table 6.2). A slightly equal proportion of male headed households (71.1 percent) and female headed households (72.6 percent) in urban areas agreed that availability of electricity in their residences has resulted into the increased establishment of small scale industries. The same phenomenon was also noted in rural areas for both male headed households (42.2 percent) and female headed households (43.8 percent).

At the regional level, less than three quarters of the households agreed that availability of electricity has increased establishment of small scale industries (Table 6.2). However, it is from seven regions where more than half of the heads of households agreed there were increased establishments of small scale industries following accessibility of electricity. These regions include Dodoma, Arusha, Lindi, Singida, Katavi, Simiyu and Geita.

Table 6.2: Distribution of Household by Region, Place of Residence and Sex of Heads with Perception on Increased Establishment of Small Scale Industries as a Result of Accessibility of Electricity

Region	Increased Establishment of Small Scale Industries as a Result of Accessibility of Electricity											
	Rural						Urban					
	Total		Male Headed		Female Headed		Total		Male Headed		Female headed	
	Total HH (Number)	HH Agreed (%)	Total HH (Number)	HH Agreed (%)	Total HH (Number)	HH Agreed (%)	Total HH (Number)	HH Agreed (%)	Total HH (Number)	HH Agreed (%)	Total HH (Number)	HH Agreed (%)
Total	3,237,621	42.5	2,573,205	42.2	664,416	43.8	3,539,015	71.5	2,531,958	71.1	1,007,057	72.6
Dodoma	228,088	68.3	189,562	65.1	38,526	84.0	81,643	75.9	64,692	76.7	16,952	72.7
Arusha	169,408	57.4	139,993	59.0	29,415	50.0	154,260	89.8	107,687	91.1	46,573	86.8
Kilimanjaro	241,858	33.4	176,737	31.7	65,121	38.0	111,300	79.4	82,647	73.8	28,653	95.5
Tanga	269,561	49.0	202,432	46.8	67,129	55.6	127,977	59.9	74,274	52.9	53,703	69.4
Morogoro	141,185	48.8	106,950	50.0	34,235	45.0	186,833	73.1	130,346	67.9	56,487	84.8
Pwani	81,998	38.6	61,992	34.2	20,007	52.2	106,831	79.3	78,126	75.0	28,705	90.9
Dar es Salaam	-	-	-	-	-	-	1,409,940	67.0	1,047,388	67.2	362,552	66.3
Lindi	109,948	60.3	87,686	57.3	22,263	72.4	45,259	75.0	32,976	75.0	12,283	75.0
Mtwara	176,892	40.2	142,927	40.8	33,965	37.9	107,172	89.2	72,035	92.1	35,137	83.3
Ruvuma	85,410	22.4	75,147	20.0	10,263	40.0	82,892	58.8	52,102	44.2	30,790	83.3
Iringa	112,026	18.5	82,573	18.8	29,452	17.9	73,652	48.4	45,710	53.2	27,942	40.5
Mbeya	71,911	35.4	60,042	28.1	11,869	72.7	153,558	80.7	119,031	81.4	34,528	78.1
Singida	95,984	52.7	83,731	51.0	12,252	64.3	37,030	88.3	24,778	93.1	12,252	78.6
Tabora	169,741	35.8	128,104	35.6	41,637	36.4	64,471	46.1	46,807	50.0	17,664	35.7
Rukwa	33,924	31.4	27,818	31.0	6,106	33.3	45,345	67.6	32,454	71.4	12,890	57.9
Kigoma	78,140	42.8	57,937	44.7	20,203	37.5	81,928	56.1	57,937	55.3	23,991	57.9
Shinyanga	54,768	28.6	46,782	27.8	7,987	33.3	51,493	67.8	35,520	65.9	15,973	72.2
Kagera	335,447	36.8	276,939	36.9	58,508	36.4	78,520	73.3	51,926	76.7	26,594	66.7
Mwanza	177,429	44.5	151,087	45.7	26,342	37.5	237,798	80.3	173,589	79.6	64,209	82.1
Mara	145,825	30.5	106,877	31.7	38,948	27.0	71,808	69.6	33,913	66.7	37,895	72.2
Manyara	70,058	10.4	57,068	11.1	12,990	7.1	54,747	83.3	38,045	83.3	16,702	83.3
Njombe	129,374	32.0	100,467	33.1	28,907	28.0	59,139	81.7	40,638	84.7	18,501	75.0
Katavi	31,122	54.7	27,318	56.3	3,803	42.9	26,147	85.7	19,627	86.5	6,520	83.3
Simiyu	134,817	68.2	105,156	68.1	29,660	68.4	11,541	100	6,858	100	4,683	100
Geita	19,717	56.9	17,836	56.6	1,880	60.0	11,085	66.6	8,076	68.2	3,008	62.5
Songwe	72,990	28.9	60,042	35.1	12,948	0.0	66,644	81.0	54,775	78.8	11,869	90.9

HH: Household, (%): Percent

6.3 Establishment of Business Activities and Business Operating Hours

Accessibility of electricity particularly in rural areas has a great impact on business operations in terms of performance and operating hours. Heads of households were interviewed on the impact of electricity energy on their business operations including doing business in evening hours. As a rule of thumb, most business centers in villages where there is no energy for lighting, close before it gets dark for security purposes. Table 6.3 shows the percentage distribution of heads of households who agreed that accessibility of electricity has increased establishment of business activities including increased business operating hours in the evening.

More female than male headed households agreed on the opinion that, availability of electricity has increased business activities and business operating hours in the evening

On average, 70.3 percent of all male and female headed households in Tanzania Mainland had the opinion that increased business activities and business operating hours were a result of availability of electricity (Table 6.3). As the table shows, both male headed households (69.5 percent) and female headed households (73.0 percent) accepted this fact. Few regions across rural and urban areas have more than three quarters of heads of households that considered accessibility to electricity has influenced extended business activities and evening operating hours. These regions include Mwanza, Katavi, Mbeya, Tanga, Arusha, Pwani, Simiyu, Lindi and Geita. Iringa region reported the lowest proportion of households (44.9 percent).

Table 6.3: Distribution of Households by Region, Sex of Heads and Whether Accessibility of Electricity Has Increased Establishment of Business Activities Including Increasing Business Operating Hours in the Evening

Region	Accessibility of electricity has increased establishment of business activities and business operating hours in the evening					
	Total		Male Headed		Female Headed	
	Total Household (Number)	Household Agreed (%)	Total Household (Number)	Household Agreed (%)	Total Household (Number)	Household Agreed (%)
Total	6,776,636	70.3	5,105,162	69.5	1,671,473	73.0
Dodoma	309,732	67.8	254,254	68.0	55,478	66.7
Arusha	323,668	80.3	247,680	79.2	75,988	83.9
Kilimanjaro	353,158	72.5	259,384	71.1	93,774	76.4
Tanga	397,539	80.5	276,706	80.0	120,833	81.5
Morogoro	328,018	71.3	237,296	67.6	90,722	81.1
Pwani	188,830	80.2	140,118	76.4	48,712	91.1
Dar es salaam	1,409,940	72.7	1,047,388	73.8	362,552	69.4
Lindi	155,207	76.7	120,661	77.0	34,545	75.6
Mtwara	284,064	63.2	214,962	60.6	69,102	71.2
Ruvuma	168,302	59.4	127,249	52.0	41,053	82.5
Iringa	185,678	44.9	128,283	39.7	57,394	56.6
Mbeya	225,469	82.7	179,073	79.4	46,396	95.3
Singida	133,014	56.1	108,509	55.9	24,505	57.1
Tabora	234,212	58.2	174,911	59.2	59,301	55.3
Rukwa	79,269	63.1	60,273	61.5	18,996	67.9
Kigoma	160,068	70.5	115,874	72.3	44,194	65.7
Shinyanga	106,261	57.4	82,301	53.7	23,960	70.4
Kagera	413,967	60.1	328,865	60.5	85,102	58.3
Mwanza	415,227	85.2	324,676	84.7	90,552	87.3
Mara	217,633	62.5	140,790	57.7	76,843	71.2
Manyara	124,804	57.0	95,113	54.3	29,692	65.6
Njombe	188,513	59.9	141,105	60.0	47,408	59.8
Katavi	57,269	83.7	46,945	83.1	10,324	86.8
Simiyu	146,358	80.1	112,014	81.0	34,343	77.3
Geita	30,801	76.0	25,913	75.8	4,889	76.9
Songwe	139,634	69.7	114,817	69.7	24,817	69.6

Within rural Tanzania Mainland, an average of 58.6 percent of heads of households considered access to electricity has influenced increase in business activities and extended hours of doing business in evening (Table 6.3a). Both female and male headed households in rural areas agreed with this fact (60.5 and 58.1 percent, respectively). These figures are far less compared to their counterparts from urban areas in which an average of 81.1 percent of female headed and male headed households considered access to electricity has influenced increase in business activities and extended hours of doing business in evening (Table 6.3a).

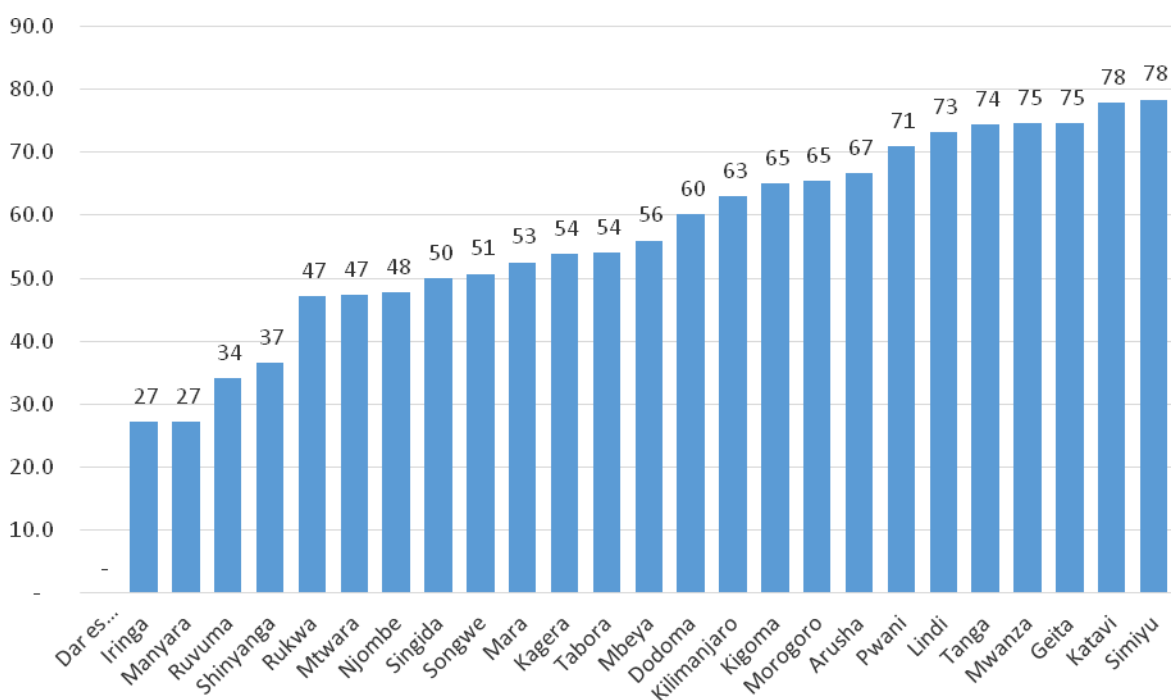
Table 6.3 a: Distribution of Households by Region, Place of Residence, Sex of Heads and whether Accessibility of Electricity has Increased Establishment of Business Activities Including Increasing Business Operating Hours in the Evening

Region	Accessibility of electricity has increased establishment of business activities and business operating hours in the evening											
	Rural						Urban					
	Total		Male Headed		Female Headed		Total		Male Headed		Female Headed	
	Total HH (Number)	HH Agreed (%)	Total HH (Number)	HH Agreed (%)	Total HH	HH Agreed (%)	Total HH (Number)	HH Agreed (%)	Total HH (Number)	HH Agreed (%)	Total HH (Number)	HH Agreed (%)
	3,237,621	58.6	2,573,205	58.1	664,416	60.5	3,539,015	81.1	2,531,958	81.1	1,007,057	81.2
Dodoma	228,088	60.2	189,562	61.1	38,526	56.0	81,643	88.9	64,692	88.4	16,952	90.9
Arusha	169,408	66.7	139,993	66.7	29,415	66.7	154,260	95.3	107,687	95.6	46,573	94.7
Kilimanjaro	241,858	63.0	176,737	61.9	65,121	66.0	111,300	93.1	82,647	90.8	28,653	100
Tanga	269,561	74.4	202,432	75.5	67,129	71.1	127,977	93.1	74,274	92.2	53,703	94.4
Morogoro	141,185	65.5	106,950	65.6	34,235	65.0	186,833	75.8	130,346	69.2	56,487	90.9
Pwani	81,998	70.9	61,992	67.1	20,007	82.6	106,831	87.3	78,126	83.7	28,705	97.0
Dar es Salaam	-	-	-	-	-	-	1,409,940	72.7	1,047,388	73.8	362,552	69.4
Lindi	109,948	73.3	87,686	74.4	22,263	69.0	45,259	85.0	32,976	84.1	12,283	87.5
Mtwara	176,892	47.4	142,927	46.4	33,965	51.7	107,172	89.3	72,035	88.9	35,137	90.0
Ruvuma	85,410	34.2	75,147	32	10,263	50.0	82,892	85.4	52,102	80.8	30,790	93.3
Iringa	112,026	27.2	82,573	23.2	29,452	38.5	73,652	71.8	45,710	69.4	27,942	75.7
Mbeya	71,911	56.0	60,042	49.1	11,869	90.9	153,558	95.2	119,031	94.7	34,528	96.9
Singida	95,984	50.0	83,731	48.0	12,252	64.3	37,030	71.9	24,778	82.8	12,252	50.0
Tabora	169,741	54.0	128,104	53.8	41,637	54.5	64,471	69.2	46,807	73.7	17,664	57.1
Rukwa	33,924	47.1	27,818	45.2	6,106	55.6	45,345	75.0	32,454	75.5	12,890	73.7
Kigoma	78,140	65.1	57,937	63.8	20,203	68.8	81,928	75.7	57,937	80.9	23,991	63.2
Shinyanga	54,768	36.5	46,782	35.2	7,987	44.4	51,493	79.7	35,520	78.0	15,973	83.3
Kagera	335,447	53.9	276,939	55.0	58,508	48.5	78,520	86.6	51,926	90.0	26,594	80.0
Mwanza	177,429	74.5	151,087	74.5	26,342	75.0	237,798	93.2	173,589	93.5	64,209	92.3
Mara	145,825	52.5	106,877	50.0	38,948	59.5	71,808	82.6	33,913	81.8	37,895	83.3
Manyara	70,058	27.3	57,068	27.0	12,990	28.6	54,747	95.0	38,045	95.2	16,702	94.4
Njombe	129,374	47.8	100,467	48.9	28,907	44.0	59,139	86.5	40,638	87.5	18,501	84.4
Katavi	31,122	77.8	27,318	76.7	3,803	85.7	26,147	90.8	19,627	91.9	6,520	87.5
Simiyu	134,817	78.4	105,156	79.7	29,660	73.7	11,541	100	6,858	100	4,683	100
Geita	19,717	74.7	17,836	74.1	1,880	80.0	11,085	78.3	8,076	79.5	3,008	75.0
Songwe	72,990	50.7	60,042	52.6	12,948	41.7	66,644	90.5	54,775	88.5	11,869	100

HH: Household, (%): Percent

When all rural households are considered irrespective of gender issues, higher percent of households agreeing to this fact start from Simiyu at 78 percent down to the lowest 27 percent of households in Iringa and Manyara (Figure 6.2). In this category Dar es Salaam was considered having all urban population.

Figure 6.2: Percentage Distribution of Rural Households with the Opinion that Accessibility of Electricity has Increased Establishment of Business Activities Including Increasing Business Operating Hours in The Evening.



6.4 Access to Mass Media through TV and Radio

More benefits and impacts of rural electrification were assessed from households during the survey. At this particular point in time, analysis was done to learn opinions from heads of households on the effects of accessibility of electricity on activities of mass media particularly through television and radios. Table 6.4 shows the percentage of both male and female heads of households with responses to the subject under discussion. About 76 percent of male and female headed households in Tanzania Mainland agreed that accessibility of electricity increased access of mass media through TV and radio. Findings in Table 6.4 also show slight equal proportion of male and female headed households who supported the idea. However, Katavi Region had the highest proportion of heads of households (89.8 percent) who supported the idea that

accessibility of electricity increased access of mass media through TV and radio. Rukwa and Manyara regions had the lowest proportions (61.3 percent each).

Table 6.4: Distribution of Households by Region, Sex of Heads and Whether Accessibility of Electricity Increased Access of Mass Media through TV and radio

Region	Accessibility of electricity increased access of mass media through TV and radio					
	Total		Male Headed		Female Headed	
	Total HH (Number)	HH Agreed (%)	Total HH (Number)	HH Agreed (%)	Total HH (Number)	HH Agreed (%)
Total	6,776,636	75.9	5,105,162	75.9	1,671,473	76.0
Dodoma	309,732	70.7	254,254	69.8	55,478	75
Arusha	323,668	81.4	247,680	81.2	75,988	82.3
Kilimanjaro	353,158	65.9	259,384	67.6	93,774	61.1
Tanga	397,539	84.1	276,706	84.7	120,833	82.7
Morogoro	328,018	67.7	237,296	69.7	90,722	62.3
Pwani	188,830	83.7	140,118	84.2	48,712	82.1
Dar es salaam	1,409,940	86.1	1,047,388	85.9	362,552	86.7
Lindi	155,207	66.6	120,661	63.4	34,545	77.8
Mtwara	284,064	81.4	214,962	81.4	69,102	81.4
Ruvuma	168,302	70.2	127,249	64.6	41,053	87.5
Iringa	185,678	64.8	128,283	63.8	57,394	67.1
Mbeya	225,469	86.9	179,073	84.7	46,396	95.3
Singida	133,014	71.6	108,509	70.9	24,505	75.0
Tabora	234,212	62.4	174,911	64.8	59,301	55.3
Rukwa	79,269	61.3	60,273	61.5	18,996	60.7
Kigoma	160,068	75.9	115,874	80.9	44,194	62.9
Shinyanga	106,261	68.0	82,301	68.4	23,960	66.7
Kagera	413,967	69.8	328,865	69.5	85,102	70.8
Mwanza	415,227	80.2	324,676	78.7	90,552	85.5
Mara	217,633	63.4	140,790	61.3	76,843	67.1
Manyara	124,804	61.3	95,113	61.9	29,692	59.4
Njombe	188,513	66.0	141,105	66.0	47,408	65.9
Katavi	57,269	89.8	46,945	88.1	10,324	97.4
Simiyu	146,358	72.2	112,014	74.1	34,343	65.9
Geita	30,801	70.1	25,913	71.0	4,889	65.4
Songwe	139,634	79.5	114,817	82.6	24,817	65.2

HH: Household, (%): Percent

6.5 Accessibility of Clean Water from electrified sources

The meaning of clean water may be considered differently by various schools. With the objectives of REA, treatment of clean water by use of electric powered instruments or infrastructure brings about more reliable results of having clean water. Table 6.5 shows percentage of heads of households by their opinions on increased clean water from electric powered sources as reported by heads of households or their representatives.

Less than half (41.6 percent) of heads of household agreed that, accessibility of clean water increased due to increase in the availability of electric powered wells

Table 6.5: Distribution of Households by Region, Sex of Heads and their Opinions on Whether Accessibility of Clean Water Increased from Electric Powered Wells.

Region	Opinions on whether accessibility of clean water increased from electric powered wells					
	Total		Male Headed		Female Headed	
	Total HH (Number)	HH Agreed (%)	Total HH (Number)	HH Agreed (%)	Total HH (Number)	HH Agreed (%)
Total	6,776,636	41.6	5,105,162	40.2	1,671,473	45.9
Dodoma	309,732	40.5	254,254	40.8	55,478	38.9
Arusha	323,668	59.1	247,680	58.5	75,988	61.3
Kilimanjaro	353,158	33.0	259,384	32.4	93,774	34.7
Tanga	397,539	22.9	276,706	19.5	120,833	30.9
Morogoro	328,018	24.1	237,296	24.6	90,722	22.6
Pwani	188,830	23.5	140,118	24.2	48,712	21.4
Dar es salaam	1,409,940	80.7	1,047,388	79.0	362,552	85.7
Lindi	155,207	50.5	120,661	50.3	34,545	51.1
Mtwara	284,064	35.3	214,962	33.5	69,102	40.7
Ruvuma	168,302	35.5	127,249	27.6	41,053	60.0
Iringa	185,678	10.8	128,283	10.9	57,394	10.5
Mbeya	225,469	39.0	179,073	37.6	46,396	44.2
Singida	133,014	31.0	108,509	29.1	24,505	39.3
Tabora	234,212	19.6	174,911	18.3	59,301	23.4
Rukwa	79,269	40.5	60,273	34.1	18,996	60.7
Kigoma	160,068	11.6	115,874	10.6	44,194	14.3
Shinyanga	106,261	35.3	82,301	32.6	23,960	44.4
Kagera	413,967	16.4	328,865	14.2	85,102	25.0
Mwanza	415,227	46.7	324,676	44.1	90,552	56.4
Mara	217,633	22.4	140,790	19.0	76,843	28.8
Manyara	124,804	46.8	95,113	43.8	29,692	56.3
Njombe	188,513	27.1	141,105	28.4	47,408	23.2
Katavi	57,269	40.0	46,945	40.1	10,324	39.5
Simiyu	146,358	18.3	112,014	19.0	34,343	15.9
Geita	30,801	7.8	25,913	7.1	4,889	11.5
Songwe	139,634	30.3	114,817	31.2	24,817	26.1

HH: Household, (%): Percent

Table 6.5a shows that less than half of heads of households in Tanzania Mainland have positive concern on increased accessibility of clean water from electric powered wells given the improved availability of electricity in their localities (Table 6.5). Overall, 41.6 percent of all heads of households agreed to this fact. Gender aspects show that less households from male headed households (40.2 percent) than from female headed households (45.9 percent) commented that there was some increased availability of clean water generated from electric powered wells as a result of available electricity. Further analysis on the same practice was done across rural and urban population (Table 6.5a).

Table 6.5 a: Distribution of Households by Region, Place of Residence, Sex of Heads and their Opinions on Whether Accessibility of Clean Water Increased from Electric Powered Wells.

Region	Opinions on whether accessibility of clean water increased from electric powered wells											
	Rural						Urban					
	Total		Male Headed		Female Headed		Total		Male Headed		Female Headed	
	Total HH (Number)	HH Agreed (%)	Total HH (Number)	HH Agreed (%)	Total HH (Number)	HH Agreed (%)	Total HH (Number)	HH Agreed (%)	Total HH (Number)	HH Agreed (%)	Total HH (Number)	HH Agreed (%)
Total	3237621	20.7	2573205	21.0	664416	19.8	3539015	60.8	2531958	59.8	1007057	63.2
Dodoma	228088	29.8	189562	31.7	38526	20.0	81643	70.4	64692	67.4	16952	81.8
Arusha	169408	46.8	139993	47.0	29415	45.8	154260	72.6	107687	73.3	46573	71.1
Kilimanjaro	241858	27.5	176737	26.6	65121	30.0	111300	44.8	82647	44.6	28653	45.5
Tanga	269561	15.2	202432	15.8	67129	13.3	127977	39.2	74274	29.4	53703	52.8
Morogoro	141185	17.9	106950	17.2	34235	20.0	186833	28.8	130346	30.8	56487	24.2
Pwani	81998	18.8	61992	17.8	20007	21.7	106831	27.2	78126	29.3	28705	21.2
Dar es salaam	-	-	-	-	-	-	1409940	80.7	1047388	79.0	362552	85.7
Lindi	109948	48.6	87686	50.4	22263	41.4	45259	55.1	32976	50.0	12283	68.8
Mtwara	176892	25.9	142927	27.2	33965	20.7	107172	50.6	72035	46.0	35137	60.0
Ruvuma	85410	21.3	75147	16.0	10263	60.0	82892	50.1	52102	44.2	30790	60.0
Iringa	112026	2.6	82573	2.7	29452	2.6	73652	23.2	45710	25.8	27942	18.9
Mbeya	71911	23.6	60042	21.1	11869	36.4	153558	46.2	119031	46.0	34528	46.9
Singida	95984	17.9	83731	17.3	12252	21.4	37030	65.1	24778	69.0	12252	57.1
Tabora	169741	19.0	128104	18.3	41637	21.2	64471	21.2	46807	18.4	17664	28.6
Rukwa	33924	23.6	27818	19.0	6106	44.4	45345	53.0	32454	46.9	12890	68.4
Kigoma	78140	3.2	57937	2.1	20203	6.3	81928	19.7	57937	19.1	23991	21.1
Shinyanga	54768	11.2	46782	7.4	7987	33.3	51493	60.9	35520	65.9	15973	50.0
Kagera	335447	9.8	276939	10.0	58508	9.1	78520	44.6	51926	36.7	26594	60.0
Mwanza	177429	19.0	151087	21.3	26342	6.3	237798	67.4	173589	63.9	64209	76.9
Mara	145825	11.4	106877	9.6	38948	16.2	71808	44.9	33913	48.5	37895	41.7
Manyara	70058	26.0	57068	27.0	12990	21.4	54747	73.4	38045	69.0	16702	83.3
Njombe	129374	21.9	100467	23.6	28907	16.0	59139	38.4	40638	40.3	18501	34.4
Katavi	31122	37.6	27318	39.8	3803	21.4	26147	42.9	19627	40.5	6520	50.0
Simiyu	134817	15.3	105156	17.4	29660	7.9	11541	53.5	6858	44.4	4683	66.7
Geita	19717	5.6	17836	6.2	1880	0.0	11085	11.7	8076	9.1	3008	18.8
Songwe	72990	13.0	60042	14.0	12948	8.3	66644	49.2	54775	50.0	11869	45.5

HH: Household, (%): Percent

6.6 Electricity and Income Growth, Increased Crop Productivity, Establishment of Businesses and Small Scale Industries

More than half (72.1 percent) of head of households agreed that the availability of electricity has contributed to income growth of household members due to increased crop productivity, establishment of businesses and small scale industries

Accessibility of electricity is associated with crop productivity and establishment of small scale industries and hence it promotes growth in general. Heads of households were asked to state whether the availability of electricity in their surroundings has contributed to income growth brought by increased crop productivity, establishment of businesses and small scale industries. Table 6.6 describes the distribution of male and female heads of households in Tanzania Mainland who confirmed to this statement.

Table 6.6: Distribution of Households by Region, Sex of Heads and their Opinion on Availability of Electricity Contributed to Income Growth of Household Members due to Increased Crop Productivity, Establishment of Businesses and Small Scale Industries

Region	Availability of electricity contributed to income growth of household members due to increased crop productivity and small scale industries					
	Total		Male Headed		Female Headed	
	Total HH (Number)	HH Agreed (%)	Total HH (Number)	HH Agreed (%)	Total HH (Number)	HH Agreed (%)
Total	6,776,636	72.1	5,105,162	71.4	1,671,473	74.2
Dodoma	309,732	62.5	254,254	60.9	55,478	69.4
Arusha	323,668	82.2	247,680	81.6	75,988	83.9
Kilimanjaro	353,158	65.9	259,384	67.6	93,774	61.1
Tanga	397,539	75.7	276,706	75.3	120,833	76.5
Morogoro	328,018	61.0	237,296	62.0	90,722	58.5
Pwani	188,830	63.8	140,118	62.4	48,712	67.9
Dar es salaam	1,409,940	88.2	1,047,388	87.6	362,552	89.8
Lindi	155,207	72.8	120,661	72.0	34,545	75.6
Mtwara	284,064	57.5	214,962	57.4	69,102	57.6
Ruvuma	168,302	59.4	127,249	52.8	41,053	80.0
Iringa	185,678	54.4	128,283	52.9	57,394	57.9
Mbeya	225,469	79.9	179,073	77.6	46,396	88.4
Singida	133,014	58.1	108,509	57.5	24,505	60.7
Tabora	234,212	51.3	174,911	50.7	59,301	53.2
Rukwa	79,269	59.7	60,273	59.3	18,996	60.7
Kigoma	160,068	79.0	115,874	81.9	44,194	71.4
Shinyanga	106,261	60.7	82,301	56.8	23,960	74.1
Kagera	413,967	78.2	328,865	77.4	85,102	81.3
Mwanza	415,227	84.8	324,676	83.7	90,552	89.1
Mara	217,633	55.3	140,790	50.4	76,843	64.4
Manyara	124,804	54.8	95,113	50.5	29,692	68.8
Njombe	188,513	59.4	141,105	58.4	47,408	62.2
Katavi	57,269	79.1	46,945	78.5	10,324	81.6
Simiyu	146,358	65.9	112,014	70.1	34,343	52.3
Geita	30,801	63.5	25,913	60.9	4,889	76.9
Songwe	139,634	70.5	114,817	70.6	24,817	69.6

HH: Household, (%): Percent

6.7 Availability of Electric Lighting for Students to Study

Student's life in dark villages is always miserable in absence of lighting especially at night. Students in schools and college campuses need lighting for private studies and completing homework during night time. Sources for lighting in most villages do not encourage further studies. Efforts made by REA and the government in general to improve rural energy supply have provided opportunity for students to spend more time studying. Table 6.7 shows heads of households with their views that availability of electric lighting made students study more comfortably at night. However, 72.1 percent of heads of households in both rural and urban areas had the opinion that availability of electric lighting made students study more comfortably after darkness. There were more heads of households from urban parts (86.1 percent) than rural areas (56.8 percent) who supported this fact. The figures reveal further that more female headed households (74.2 percent) than male headed households (71.4 percent) agreed that availability of electric lighting made students study more easily and comfortably after darkness.

Table 6.7: Distribution of Households by Region, Sex of Heads Place of Residence and their Views that Availability of Electric Lighting Made Students Study More Comfortably after Darkness

Region	Views on availability of electric lighting made students study more comfortably after darkness									
	Total		Male Headed		Female Headed		RURAL		URBAN	
	Total HH (Number)	HH Agreed (%)	Total HH (Number)	HH Agreed (%)	Total HH (Number)	HH Agreed (%)	Total HH (Number)	HH Agreed (%)	Total HH (Number)	HH Agreed (%)
Total	6,776,636	72.1	5,105,162	71.4	1,671,473	74.2	3,237,621	56.8	3,539,015	86.1
Dodoma	309,732	62.5	254,254	60.9	55,478	69.4	228,088	51.0	81,643	94.5
Arusha	323,668	82.2	247,680	81.6	75,988	83.9	169,408	71.6	154,260	93.7
Kilimanjaro	353,158	65.9	259,384	67.6	93,774	61.1	241,858	56.1	111,300	87.3
Tanga	397,539	75.7	276,706	75.3	120,833	76.5	269,561	68.4	127,977	90.9
Morogoro	328,018	61.0	237,296	62.0	90,722	58.5	141,185	46.4	186,833	72.0
Pwani	188,830	63.8	140,118	62.4	48,712	67.9	81,998	48.0	106,831	76.0
Dar es salaam	1,409,940	88.2	1,047,388	87.6	362,552	89.8	-	-	1,409,940	88.2
Lindi	155,207	72.8	120,661	72.0	34,545	75.6	109,948	70.6	45,259	78.4
Mtwara	284,064	57.5	214,962	57.4	69,102	57.6	176,892	40.8	107,172	85.0
Ruvuma	168,302	59.4	127,249	52.8	41,053	80.0	85,410	29.5	82,892	90.2
Iringa	185,678	54.4	128,283	52.9	57,394	57.9	112,026	40.4	73,652	75.7
Mbeya	225,469	79.9	179,073	77.6	46,396	88.4	71,911	58.9	153,558	89.7
Singida	133,014	58.1	108,509	57.5	24,505	60.7	95,984	47.4	37,030	85.9
Tabora	234,212	51.3	174,911	50.7	59,301	53.2	169,741	46.0	64,471	65.3
Rukwa	79,269	59.7	60,273	59.3	18,996	60.7	33,924	41.2	45,345	73.5
Kigoma	160,068	79.0	115,874	81.9	44,194	71.4	78,140	71.4	81,928	86.3
Shinyanga	106,261	60.7	82,301	56.8	23,960	74.1	54,768	47.6	51,493	74.6
Kagera	413,967	78.2	328,865	77.4	85,102	81.3	335,447	74.6	78,520	93.3
Mwanza	415,227	84.8	324,676	83.7	90,552	89.1	177,429	74.5	237,798	92.5
Mara	217,633	55.3	140,790	50.4	76,843	64.4	145,825	43.3	71,808	79.7
Manyara	124,804	54.8	95,113	50.5	29,692	68.8	70,058	28.6	54,747	88.4
Njombe	188,513	59.4	141,105	58.4	47,408	62.2	129,374	51.8	59,139	76.0
Katavi	57,269	79.1	46,945	78.5	10,324	81.6	31,122	72.6	26,147	86.7
Simiyu	146,358	65.9	112,014	70.1	34,343	52.3	134,817	63.0	11,541	100
Geita	30,801	63.5	25,913	60.9	4,889	76.9	19,717	56.9	11,085	75.1
Songwe	139,634	70.5	114,817	70.6	24,817	69.6	72,990	57.9	66,644	84.2

HH: Household, (%): Percent

6.8 Influence of electrification on possession of mobile phones by household members

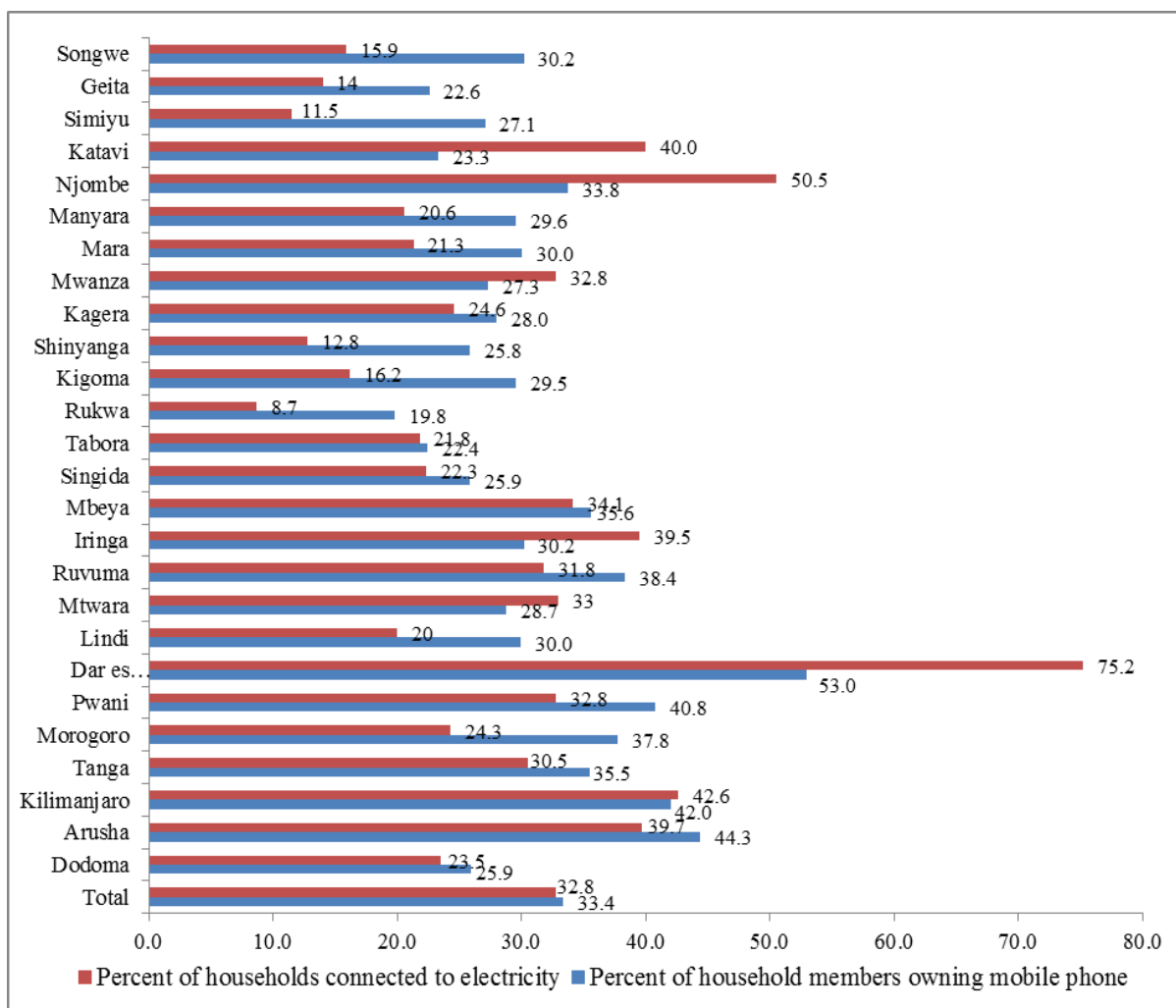
- ❖ Possession of mobile phones among household members increases with the increase of households connected with electricity,
- ❖ Rukwa region has the lowest proportion of households connected with electricity so as the households members possessing mobile phones,

Among the benefits of rural electrification assessed were on household members' possession of mobile phones. Respondents were all household members or their representatives. Table 6.8 shows that 33.4 of household members own mobile phones with males having higher proportion (55.1 percent) than females (44.9 percent). Percentage of rural household members possessing mobile phone is higher (54.8 percent) compared to their counterparts in urban areas (45.2 percent). Looking by gender, male household members lead in mobile phone possession in rural areas (60.9 percent) while female household members lead in urban household members (52.0 percent). On the other hand, Figure 6.3 shows that there is a correlation between proportions of households connected to electricity in a region with those owning mobile phones. This means that the higher the proportion the region has households connected to electricity the higher the chance the household members in the respective region owning mobile phones. This statement is justified in Figure 6.3 as the proportion of households connected to electricity and household members owning mobile phones in Tanzania Mainland are closely similar at 32.8 and 33.4 percent respectively. Furthermore, Dar es Salaam Region has both the highest proportion of households connected to electricity (75.2 percent) and household members owning mobile phones (53.0 percent). Rukwa being the last region with the lowest proportion of households connected to electricity (8.7 percent) is also the region with the lowest proportion of household members owning mobile phones (19.8 percent).

Table 6.8: Percentage Distribution of Household Members by Region, Place of Residence, Sex of Heads and Ownership of Mobile Phones

Region	Ownership of Mobile Phones								
	Total			Rural			Urban		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total	33.4	55.1	44.9	54.8	60.9	39.1	45.2	48.0	52.0
Dodoma	25.9	59.5	40.5	72.6	62.4	37.6	27.4	51.9	48.1
Arusha	44.3	51.9	48.1	57.4	53.7	46.3	42.6	49.4	50.6
Kilimanjaro	42.0	48.8	51.2	71.8	50.0	50.0	28.2	45.8	54.2
Tanga	35.5	59.4	40.6	72.2	62.7	37.3	27.8	50.9	49.1
Morogoro	37.8	55.3	44.7	58.4	62.1	37.9	41.6	45.9	54.1
Pwani	40.8	48.0	52.0	58.3	49.5	50.5	41.7	46.0	54.0
Dar es salaam	53.0	47.4	52.6	0.0	0.0	0.0	100	47.4	52.6
Lindi	30.0	59.6	40.4	77.3	62.4	37.6	22.7	50.4	49.6
Mtwara	28.7	57.6	42.4	65.4	61.4	38.6	34.6	50.5	49.5
Ruvuma	38.4	61.4	38.6	67.7	66.8	33.2	32.3	50.3	49.7
Iringa	30.2	55.3	44.7	64.8	59.8	40.2	35.2	46.9	53.1
Mbeya	35.6	56.0	44.0	48.3	62.3	37.7	51.7	50.1	49.9
Singida	25.9	62.3	37.7	80.9	65.6	34.4	19.1	48.4	51.6
Tabora	22.4	59.4	40.6	77.9	62.5	37.5	22.1	48.8	51.2
Rukwa	19.8	65.7	34.3	65.3	73.0	27.0	34.7	52.0	48.0
Kigoma	29.5	61.6	38.4	65.8	65.0	35.0	34.2	55.1	44.9
Shinyanga	25.8	66.2	33.8	71.9	70.2	29.8	28.1	55.8	44.2
Kagera	28.0	55.6	44.4	81.2	58.9	41.1	18.8	41.0	59.0
Mwanza	27.3	54.4	45.6	47.6	64.4	35.6	52.4	45.4	54.6
Mara	30.0	50.5	49.5	78.0	52.8	47.2	22.0	42.4	57.6
Manyara	29.6	57.3	42.7	79.0	60.5	39.5	21.0	45.3	54.7
Njombe	33.8	56.9	43.1	68.1	59.9	40.1	31.9	50.5	49.5
Katavi	23.3	61.6	38.4	59.0	68.0	32.0	41.0	52.3	47.7
Simiyu	27.1	59.4	40.6	94.4	60.6	39.4	5.6	39.3	60.7
Geita	22.6	61.0	39.0	76.9	63.4	36.6	23.1	52.7	47.3
Songwe	30.2	63.0	37.0	69.1	68.0	32.0	30.9	51.9	48.1

Figure 6.3: Correlation Between Percentage of Households Connected to Electricity and Household Members Owning Mobile Phones by Region



6.9 Charging mobile phones batteries

- ❖ Among rural households, Geita region has the highest proportion of household members charging mobile phones batteries at charging stations/shops,
- ❖ Rural areas of Njombe region has the highest proportion of household members who charge mobile phones batteries at home/office

Increased access to electricity has influenced mobile phone possession by household members (Figure 6.3 above). Likewise, Table 6.9 shows that more than half (55.1 percent) of household members possessing mobile phones in Tanzania Mainland charge batteries at home/offices. The same were also observed in urban areas (77.6 percent). While majority of urban household members charge their mobile phones batteries at home/office, majority of their counterparts in rural areas charge their mobile phones batteries in charging station/shops (46.2 percent). Likewise, among the rural household members who possess mobile phones in Tanzania Mainland, Geita Region had the highest proportion of household members (78.0 percent) who charge their mobile phones batteries at charging stations/shops. The same table shows that Njombe Region had the highest proportion of rural household members (68.5 percent) who charge their mobile phones batteries at home/office.

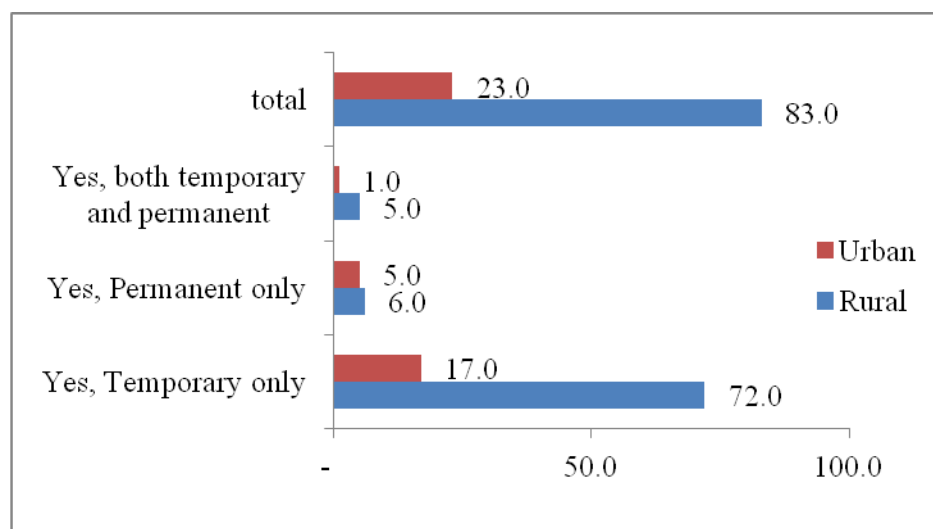
Table 6.9: Percentage Distribution of Household members by Region, Place of Residence and Mobile Phone Charging Places

Region	Mobile phone charging places											
	Total				Rural				Urban			
	At home/Office	Battery charging station/shop	Neighbor/friend	Other(Specify)	At home/Office	Battery charging station/shop	Neighbor/friend	Other(Specify)	At home/Office	Battery charging station/shop	Neighbor/friend	Other (Specify)
Total	55.1	31	13.7	0.2	36.5	46.2	17.1	0.3	77.6	12.7	9.6	0.1
Dodoma	53.7	30.8	15.0	0.5	43.5	36.8	19.0	0.7	80.7	14.9	4.4	0.0
Arusha	57.8	28.3	13.5	0.5	46.8	39.6	13.1	0.5	72.6	13.0	14.1	0.4
Kilimanjaro	49.4	25.4	25.2	0.0	40.0	31.8	28.3	0.0	73.2	9.4	17.4	0.0
Tanga	41.8	50.2	7.9	0.0	28.8	61.7	9.5	0.0	75.9	20.3	3.8	0.0
Morogoro	41.1	46.5	12	0.4	26.5	58.1	14.7	0.7	61.3	30.4	8.2	0.0
Pwani	43.6	46.5	9.5	0.3	32.6	55.1	12.0	0.3	59	34.6	6.0	0.4
Dar es salaam	84.5	6.1	9.4	0.0	0.0	0.0	0.0	0.0	84.5	6.1	9.4	0.0
Lindi	42.0	32.4	25.6	0.0	40.7	34.1	25.3	0.0	46.5	26.8	26.8	0.0
Mtwara	59.9	16.6	22.4	1.1	50.7	20.3	27.4	1.7	77.5	9.7	12.8	0.0
Ruvuma	56.1	15.6	27.4	0.9	48.0	17.5	33.4	1.0	72.6	11.6	15.1	0.7
Iringa	61.2	23.1	15.5	0.2	52.1	29.6	18.0	0.3	78.2	10.9	10.9	0.0
Mbeya	52.4	33	14.6	0.0	25.3	57.4	17.2	0.0	77.7	10.2	12.0	0.0
Singida	53.3	29.8	16.9	0.0	45.7	34.3	20.0	0.0	85.5	10.9	3.6	0.0
Tabora	45.2	32.8	22	0.0	37.0	37.8	25.1	0.0	73.7	15.4	10.9	0.0
Rukwa	44.5	42.4	12.7	0.3	39.7	46.2	13.6	0.5	53.7	35.3	11.0	0.0
Kigoma	49.1	37.6	13.4	0.0	35.0	48.8	16.2	0.0	76.1	15.9	8.0	0.0
Shinyanga	37.9	46.7	15.4	0.0	29.8	53.3	16.8	0.0	58.7	29.7	11.6	0.0
Kagera	45.1	39.0	15.9	0.0	34.4	46.9	18.7	0.0	91	5.1	3.8	0.0
Mwanza	60.2	31.8	8.0	0.0	43.8	48.5	7.7	0.0	75.1	16.7	8.2	0.0
Mara	35.3	57.6	7.0	0.0	26.2	67.9	5.9	0.0	67.9	21.1	11.0	0.0
Manyara	38.7	46.9	13.5	0.9	26.6	57.1	15.7	0.7	84.4	8.6	5.2	1.7
Njombe	71.0	17.9	10.4	0.6	68.5	20.1	11.1	0.3	76.3	13.4	9.0	1.3
Katavi	58.1	25.2	16.5	0.2	45.2	34.6	19.8	0.4	76.6	11.7	11.7	0.0
Simiyu	28.3	65.4	6.2	0.2	25.8	68.1	5.9	0.2	69.9	20.0	10.1	0.0
Geita	24.6	72.0	2.2	1.3	21.3	78	0.5	0.2	35.5	51.9	7.9	4.7
Songwe	31.5	50.2	18.3	0.0	15.8	60.3	23.8	0.0	65.9	28.0	6.2	0.0

6.10 Employment Opportunities Created by REA/TANESCO Projects

During the survey, community leaders were asked on whether the REA/TANESCO implemented projects created employment opportunities to residents. The question intend to collect information on among others, the trickle down and multiplier effects of the energy projects implemented in the communities. Figure 6.4 reveals that Rural Electrification projects carried out by REA/TANESCO created a total of 106 indirect employments of which 83.0 projects were created in rural communities and the remaining 23.0 projects were in urban areas. Temporary employment opportunities (72.0 rural and 17.0 urban) were more significant than other types of employment opportunities created by REA/TANESCO electrification projects (Figure 6.4).

Figure 6.4: Distribution of Village/Mtaa by Number of Employment Opportunities Created by REA/TANESCO Projects in 2015/16



6.10.1 Employment Opportunities Created by Other Projects

Apart from REA/TANESCO electrification projects, the survey findings also reveal contribution of other projects in creating indirect employment opportunities at community level (Table 6.10). Primary schools maintenance projects created the highest employment opportunities (34.6 percent) followed by primary schools construction projects (31.8 percent), secondary schools construction and maintenance projects (31.8 percent each) and road construction, maintenance and rehabilitation projects (28.1 percent). Insignificant employment opportunities were created through irrigation schemes projects (7.8 percent) as well as village/mtaa biogas projects (3.6 percent).

Table 6.10: Percentage Distribution of Other Implemented Projects on Whether Created Temporary/Permanent Employment Opportunities

Projects implemented	Yes	No	Don't know
Village/Mtaa electrification project	17.3	69.8	12.9
Village/Mtaa solar power project	13.6	74.3	12.1
Village/Mtaa biogas project	3.6	81.1	15.4
Road construction, maintenance & rehabilitation	28.1	64.3	7.5
Markets: construction, maintenance & rehabilitation	16.1	73.4	10.5
Water supply: digging well, installing pump, etc.	19.4	68.9	11.7
School construction: pre-primary	23.4	64.5	12.1
School maintenance: pre-primary	24	64.5	11.5
School construction: primary	31.8	57.7	10.5
School maintenance: primary	34.6	55.6	9.8
School construction: secondary	28.8	61.2	9.9
School maintenance: secondary	28.8	60.5	10.7
Health centre or dispensary: construction	26.8	62.9	10.4
Health centre or dispensary: maintenance	24	64.3	11.7
Irrigation schemes	7.8	78.6	13.6
Livestock Infrastructure (Vet centre, dip tanks etc).	10.4	76.3	13.3
Grain storage facilities: community level	10.5	75.7	13.8

CHAPTER SEVEN

7.0 Policy Implications

7.1 Introduction

Tanzania, like other developing countries, is implementing Sustainable Development Goals (SDGs) by having Energy Policy that aims at creating conditions for the provision of secure, reliable, affordable, safe, efficient, cost-effective and environment friendly modern energy services to all. To fulfill these, the Government of Tanzania established the Rural Energy Fund, Board and Agency to promote and facilitate access to modern energy services in rural areas for sustainable socio-economic development. The main objective of the agency is improve quality of life and social wellbeing of majority (75 percent) of the people in Tanzania live in rural areas as pointed out in the 2012 Population and Housing Census. It is obvious that, bringing meaningful and sustainable development to Tanzania, focus must target the rural population.

According to the SDGs, among other factors, energy is essential for sustainable development in improving quality of life and social wellbeing of the people. This is evidenced by the Energy Policy set by the Government of Tanzania which state that, Energy is a critical input into development process where as electricity needs to be made available for economic activities in rural areas, rural township, and commercial centres. Rural electrification is therefore, a case of long –term national interest *and apre-requisite for a balanced socio-economic growth for all in Tanzania²*.

In this regard, the Rural Energy Fund, Board and Agency managed to speed-up the accessibility to modern energy services in rural areas for sustainable socio-economic development. According to survey findings, sustainable development of rural areas in Tanzania Mainland, managed to evaluate the energy situation for the last five years into three major dimensions, namely, social, economic and environment.

7.2 Social Dimension

The increase of availability of modern energy services in rural areas has direct impact on creation of employment opportunities, better education, demographic transition, reduction of indoor pollution, improved health services, and increase use of modern appliances and tools such electricity iron, mobile phone and use of internet facilities. The results show that rural

households have improved the use of modern energy for lightening, though there are still using unsafe, unreliable and unsustainable energy for cooking. This is evidenced by the low percentage of households which use modern energy for cooking. Availability of modern energy in rural areas has also increase self - employment opportunities by establishing small scale investments such as milling machines, welding workshops, panel and bit workshops, bar and restaurants and garage which resulted to an increase of income velocity in rural areas.

7.2.1 Social Centers

In rural areas, there are social centers for various activities undertaken by the rural people for their livelihood. The Survey results show an increase of needs of modern energy for secondary schools at ward level, dispensaries and primary school, market centre, shops in every village in Tanzania Mainland. An availability of modern energy to these facility have also increase performances at primary and secondary schools in both science and arts subjects, use of mobile phones and internet facilities, improved security services at police posts/stations, enabled operation for dispensaries and health centres, improve supply of piped water to households, entertainment and other use.

7.2.2 Business Centers

Survey findings also observe a strong relationship between LGAs and REA as well as private sector in the provision of modern energy services to social facilities and business centres in the rural community. More business centres in rural areas have been electrified together with other small businesses such hotels, bars and restaurants, guest houses, agriculture and mining.

7.3 Economic Dimension

The Survey results show that rural development is on transition now due to the availability of a reliable and adequate modern energy supply. Most of sectors of the economy including households, transport, service and agriculture have modern energy services. Modern energy has improve the use of communications such as TVs, Mobile phones and radios, information technology such as internet facility and computers are also available in rural areas, manufacturing of medium and small scales are now constructing in rural areas and professional service are also available in rural areas. The current status of availability of modern energy in rural areas to a great extent has improved job creations, productivity and its development.

7.3.1 Cost Effective Measures

The survey report reveals that energy generated by national grid, off grid and solar are the main sources of modern energy available in the rural areas. Payment schedule of the cost of installation of these types of energy in rural areas to the great extent has enabled the majority of the households to request the installation and motivate investors to invest in rural areas.

It is recommended that various steps/measures should continue to be taken in order to motivate private sector to participate in the investment of energy projects. By doing that, competition among investors will increase, of which among others, the installation cost at household level as well as investment will be reduced. By doing this TANESCO and REA will help the government to motivate investors to implement the strategy of being industrialist country.

7.4 Environmental Dimension

The survey results reveal that land, water and air quality are keys environmental dimensions to the production, distribution and use of energy. Land is an important as a natural resource, consisting of soil and water, growing food and habitat for plants and animal communities. Mismanagement of land due to energy activities may result in land degradation and acidification that affect the quality of water and agricultural productivity.

7.4.1 Environmental Pollution

It is obvious that, production, distribution and use of energy have negative impacts on the environment at all levels of human activities. Environmental destruction is the main factor which contributes to poverty in the rural livelihood. Environmental pollution has been caused by human activities for their daily survival.

Land may be affected by energy transformation processes that often produce solid wastes, including radioactive wastes. Water quality may also be affected by the discharge of contaminants from energy systems, particularly from mining of energy resources such as Kiwira coal mining, Namtumbo Uranium mining, etc.

In order to have environmental friendly energy projects, strategy for enhancing environment impact assessment to be a pre-requisite condition for energy stakeholders in order to limit the environmental pollution in the production, distribution and use of energy.

7.5 Conclusion and Recommendations

7.5.1 Conclusion

The committed and high spirit shown by Rural Energy Fund, Board and the Agency, has managed speed up the implementation of the Energy Policy as evidenced by the trend of electricity connection in rural community for the last five years. Electricity connection increased from 6.1 percent in 2011 to 7.4 in 2012 and reached 32.8 percent in 2016 as depicted in this Report. The high rate of electricity connection from 2011 to 2016, among others, has been influenced by the completion of on-going energy projects observed in 2011 and other projects implemented within last five years.

The awareness increase on the importance of modern energy to the rural areas was evidenced by large number of on-going energy projects, influenced by the Agency through capacity building activities in the preparation, installation, operation and management of rural energy systems.

The significant number of modern energy appliances found in rural community, the availability of social facilities and business centers, together with high level of willingness to pay for energy services by households, as depicted in the report, triggers the need for increasing modern energy services in the rural areas.

7.5.2 Recommendations

In order for the Rural Energy Agency, together with other energy stakeholders to monitor and evaluate access and use of modern energy in rural areas of Tanzania

Mainland in order to come up with appropriate strategies, it is recommended that:

- Establishment of Monitoring and Evaluation Framework Indicators is the key tool needed by REA for future evaluation the impact on energy access and use to be examined periodically (at least every five years);
- The pace of households using grid electricity as one of the sources of energy for lighting has increased by 6.2 percent from 18.9 percent in 2012 to 25.1 percent in 2016. This is a big achievement that has been noted in the last five years. The remaining challenge is to make more households use electricity for cooking from the current proportion of 0.3 percent households;
- Despite the fact that, the use of industrial/bottled gas for cooking among households in Tanzania Mainland increased from 0.8 percent in 2011/12 to 7.2 percent in 2016, more effort is needed to further increase the awareness on the use of gas and other environment friendly sources of energy for cooking.

References

- Aygul, O., and Glenn P. Department of Economics (2013). *Estimating the willingness to pay for reliable electricity supply: A choice experiment study*; Queen's University, Canada and Eastern Mediterranean University.
- Shahidur R., Douglas F., Hussain A, and World Bank Development Research Group (2009). *Welfare Impacts of Rural Electrification, A case study from Bangladesh: Sustainable Rural and Urban Development Team: Policy Research Working Paper 4859*
- Shonali, P., Narasimh, D. Rao and N. Keywan (2010). *Access to Modern Energy Assessment and Outlook for Developing and Emerging Regions.*
- National Bureau of Statistics (2013). *2012. Employment and Earning Survey Report; Tanzania Mainland*
- National Bureau of Statistics (2014). *2011/12 Household Budget Survey; Main Report, Tanzania Mainland.*
- United Republic of Tanzania (2011). *Baseline Survey Report for Energy Access and Use in Tanzania Mainland*, Ministry of Energy and Minerals, Rural Energy Agency
- United Republic of Tanzania (2015). *National Energy Policy 2015*, Ministry of Energy and Minerals
- United Republic of Tanzania (2013). *2012 Population and Housing Census, Age and Sex Distribution Report*
- United Republic of Tanzania (2014). *2012 Population and Housing Census, Basic Demographic and Socio – Economic Profile Population and Housing Census Report; Vol. III D.*

ANNEX I: TABLES

Table 1.1: Distribution of Household Members by Age and Sex and Location Rural and Urban

Age Groups	Total			RURAL			URBAN		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total	49,042,052	23,834,102	25,207,950	33,970,924	16,784,242	17,186,682	15,071,128	7,049,860	8,021,268
0 - 4	6,818,228	3,480,659	3,337,569	5,036,716	2,604,721	2,431,995	1,781,512	875,938	905,574
5 - 9	6,071,410	3,088,340	2,983,071	4,591,425	2,352,172	2,239,253	1,479,985	736,168	743,818
10 - 14	6,185,794	3,046,535	3,139,259	4,513,269	2,227,462	2,285,807	1,672,525	819,073	853,452
15 - 19	4,766,438	2,396,071	2,370,367	3,239,034	1,709,817	1,529,217	1,527,404	686,253	841,150
20 - 24	4,034,429	1,835,658	2,198,771	2,473,769	1,139,328	1,334,441	1,560,660	696,330	864,330
25 - 29	3,535,736	1,566,478	1,969,257	2,211,677	1,023,137	1,188,540	1,324,059	543,342	780,718
30 - 34	3,290,017	1,399,063	1,890,954	2,109,809	902,688	1,207,122	1,180,208	496,375	683,833
35 - 39	2,956,358	1,315,308	1,641,050	1,906,167	860,552	1,045,615	1,050,191	454,756	595,435
40 - 44	2,607,984	1,287,190	1,320,794	1,721,330	840,897	880,432	886,654	446,292	440,361
45 - 49	2,012,753	1,050,952	961,801	1,330,934	717,280	613,654	681,819	333,672	348,147
50 - 54	1,744,310	857,628	886,682	1,238,346	605,629	632,717	505,964	251,999	253,965
55 - 59	1,183,113	620,031	563,082	817,214	427,565	389,649	365,899	192,466	173,433
60 - 64	1,234,005	615,606	618,399	810,747	417,375	393,372	423,257	198,231	225,027
65+	2,601,478	1,274,583	1,326,894	1,970,486	955,618	1,014,868	630,991	318,965	312,026

Table 1.2a: Distribution of Household Members Aged Below 18 Years by Age and Survival of Parents

Age	TOTAL								
	Total	Yes, father is alive	Yes, mother is alive	Both are alive	No, both are dead	Father is alive mother I don't know	Mother is alive, father I don't know	One parent is dead I don't know the other	I don't know
Total	22,082,183	346,081	1,035,844	20,310,183	199,100	25,660	123,935	20,826	20,554
0	1,070,886	2,605	17,266	1,045,809	1,631	0	2,230	0	1,345
1	1,107,428	6,075	16,536	1,075,534	1,514	0	6,214	672	883
2	1,467,113	3,372	26,488	1,423,761	1,636	1,095	10,089	672	0
3	1,450,581	15,502	35,272	1,378,717	12,815	1,757	5,932	0	587
4	1,722,219	19,372	50,501	1,626,660	6,790	3,181	7,058	4,902	3,755
5	1,183,065	16,821	43,504	1,109,479	5,493	0	5,029	1,671	1,068
6	1,313,178	18,525	41,936	1,228,114	11,801	0	6,736	4,082	1,985
7	1,120,850	16,433	52,968	1,031,807	11,017	2,921	3,842	767	1,095
8	1,203,013	20,022	39,417	1,128,173	10,275	1,069	3,195	0	862
9	1,251,303	20,549	75,089	1,125,775	13,808	1,042	13,303	0	1,737
10	1,381,364	30,333	71,450	1,253,865	10,672	779	10,613	2,438	1,214
11	1,075,048	17,842	77,900	963,179	7,331	3,510	4,419	0	867
12	1,375,866	25,919	90,642	1,227,779	17,584	0	10,797	1,631	1,514
13	1,115,564	23,820	86,454	980,023	12,844	2,511	8,621	0	1,291
14	1,237,952	26,835	86,470	1,097,445	17,194	0	7,307	1,631	1,069
15	1,077,270	29,876	77,964	941,374	18,509	1,189	6,009	1,069	1,281
16	1,105,288	26,806	87,988	961,093	21,034	1,069	7,298	0	0
17	824,193	25,374	58,001	711,596	17,152	5,536	5,244	1,291	0

Table 1.2b: Distribution of Household Members Aged Below 18 Years by Age and Survival of Parents Rural

Age	RURAL								
	Total	Yes, father is alive	Yes, mother is alive	Both are alive	No, both are dead	Father is alive mother I don't know	Mother is alive, father I don't know	One parent is dead I don't know the other	I don't know
Total	16,203,929	247,246	676,573	15,015,244	140,425	20,297	71,580	18,428	14,135
0	795,516	1,361	15,109	773,839	1,631	0	2,230	0	1,345
1	812,838	6,075	10,085	787,395	1,514	0	6,214	672	883
2	1,037,165	3,372	18,057	1,003,330	1,449	1,095	9,189	672	0
3	1,116,804	10,541	25,873	1,066,811	6,985	1,757	4,837	0	0
4	1,274,394	12,717	35,775	1,207,658	5,540	3,181	4,620	4,902	0
5	884,784	15,461	24,161	834,771	4,058	0	3,594	1,671	1,068
6	984,339	12,088	31,414	923,945	8,635	0	2,190	4,082	1,985
7	868,147	11,010	40,061	805,927	7,493	0	2,561	0	1,095
8	938,353	12,662	32,063	880,745	8,619	1,069	3,195	0	0
9	915,802	12,281	48,383	839,941	7,303	1,042	5,116	0	1,737
10	1,008,176	23,003	45,127	927,491	7,877	779	1,461	2,438	0
11	792,406	14,718	45,362	718,886	7,331	2,350	2,892	0	867
12	1,015,119	20,720	56,960	920,118	7,560	0	6,615	1,631	1,514
13	820,265	22,962	57,134	723,104	8,201	2,511	5,063	0	1,291
14	877,302	14,532	53,466	792,409	13,506	0	2,319	0	1,069
15	749,314	16,389	43,488	664,491	17,837	1,189	3,570	1,069	1,281
16	768,873	16,388	54,110	678,528	14,889	1,069	3,889	0	0
17	544,332	20,966	39,943	465,855	9,997	4,255	2,024	1,291	0

Table 1.2c: Distribution of Household Members Aged Below 18 Years by Age and Survival of Parents Urban

Age	URBAN								
	Total	Yes, father is alive	Yes, mother is alive	Both are alive	No, both are dead	Father is alive mother I don't know	Mother is alive, father I don't know	One parent is dead I don't know the other	I don't know
Total	5,878,254	98,835	359,272	5,294,939	58,675	5,363	52,355	2,398	6,418
0	275,370	1,244	2,156	271,970	0	0	0	0	0
1	294,590	0	6,451	288,139	0	0	0	0	0
2	429,949	0	8,431	420,431	186	0	901	0	0
3	333,777	4,961	9,398	311,905	5,830	0	1,095	0	587
4	447,826	6,654	14,726	419,002	1,250	0	2,438	0	3,755
5	298,281	1,361	19,343	274,708	1,435	0	1,435	0	0
6	328,839	6,437	10,522	304,169	3,166	0	4,545	0	0
7	252,704	5,423	12,907	225,880	3,525	2,921	1,281	767	0
8	264,660	7,360	7,354	247,428	1,656	0	0	0	862
9	335,501	8,268	26,706	285,834	6,505	0	8,187	0	0
10	373,188	7,331	26,323	326,374	2,795	0	9,152	0	1,214
11	282,642	3,123	32,538	244,293	0	1,161	1,527	0	0
12	360,747	5,198	33,682	307,660	10,024	0	4,182	0	0
13	295,298	859	29,319	256,920	4,642	0	3,558	0	0
14	360,650	12,303	33,004	305,036	3,688	0	4,988	1,631	0
15	327,956	13,486	34,476	276,883	672	0	2,439	0	0
16	336,415	10,418	33,878	282,565	6,145	0	3,409	0	0
17	279,861	4,408	18,058	245,741	7,155	1,281	3,219	0	0

Table 1.3a: Distribution of Male Household Members Below 18 years by Age, and Survival of Parents

Age	Male								
	Total	Yes, father is alive	Yes, mother is alive	Both are alive	No, both are dead	Father is alive mother I don't know	Mother is alive, father I don't know	One parent is dead I don't know the other	I don't know
Total	11,194,816	153,670	557,548	10,272,321	111,052	16,228	66,631	9,951	7,416
0	553,041	672	9,053	538,385	1,631	0	2,230	0	1,069
1	556,879	2,270	4,099	547,799	0	0	2,039	672	0
2	743,342	2,683	12,785	722,359	947	0	3,895	672	0
3	714,092	5,565	19,087	675,963	11,720	1,757	0	0	0
4	913,306	9,381	32,325	859,102	5,998	2,086	3,841	573	0
5	627,082	5,974	19,192	597,476	3,370	0	1,069	0	0
6	648,801	7,002	21,153	604,903	7,743	0	4,545	2,411	1,043
7	578,700	7,267	27,906	540,116	2,161	1,250	0	0	0
8	614,579	9,281	15,621	580,606	5,040	1,069	2,100	0	862
9	619,178	5,962	41,280	555,405	9,285	0	7,246	0	0
10	708,405	15,549	41,737	634,172	7,252	0	8,480	0	1,214
11	555,448	6,566	51,230	487,439	2,697	2,230	4,419	0	867
12	633,610	9,074	43,452	571,193	5,000	0	3,259	1,631	0
13	529,677	14,323	39,258	460,584	7,122	2,511	4,587	0	1,291
14	619,395	12,914	47,269	541,947	8,579	0	5,985	1,631	1,069
15	540,662	14,073	46,558	465,962	8,179	0	4,820	1,069	0
16	552,354	10,517	51,337	475,591	10,189	1,069	3,650	0	0
17	486,266	14,596	34,204	413,319	14,137	4,255	4,465	1,291	0

Table 1.3b: Distribution of Female Household Members Below 18 years by Age, and Survival of Parents

Age	Female								
	Total	Yes, father is alive	Yes, mother is alive	Both are alive	No, both are dead	Father is alive mother I don't know	Mother is alive, father I don't know	One parent is dead I don't know the other	I don't know
Total	10,887,368	192,411	478,297	10,037,862	88,048	9,432	57,304	10,875	13,138
0	517,845	1,933	8,213	507,424	0	0	0	0	276
1	550,549	3,805	12,437	527,734	1,514	0	4,175	0	883
2	723,772	689	13,702	701,403	689	1,095	6,194	0	0
3	736,490	9,937	16,185	702,754	1,095	0	5,932	0	587
4	808,913	9,990	18,176	767,558	792	1,095	3,217	4,329	3,755
5	555,984	10,847	24,312	512,002	2,123	0	3,959	1,671	1,068
6	664,378	11,524	20,782	623,211	4,057	0	2,190	1,671	942
7	542,150	9,166	25,062	491,692	8,856	1,671	3,842	767	1,095
8	588,434	10,741	23,796	547,567	5,235	0	1,095	0	0
9	632,125	14,587	33,809	570,370	4,523	1,042	6,057	0	1,737
10	672,959	14,784	29,713	619,693	3,420	779	2,132	2,438	0
11	519,600	11,275	26,670	475,741	4,634	1,281	0	0	0
12	742,256	16,845	47,191	656,585	12,584	0	7,538	0	1,514
13	585,887	9,497	47,195	519,440	5,721	0	4,034	0	0
14	618,556	13,920	39,201	555,498	8,615	0	1,322	0	0
15	536,608	15,802	31,405	475,413	10,330	1,189	1,189	0	1,281
16	552,934	16,289	36,651	485,501	10,845	0	3,648	0	0
17	337,928	10,778	23,797	298,277	3,015	1,281	779	0	0

Table 1.3c: Distribution of Male Household Members Below 18 yrs by Age, and Survival of Parents Rural

RURAL MALE									
Age	Total	Yes, father is alive	Yes, mother is alive	Both are alive	No, both are dead	Father is alive mother I don't know	Mother is alive, father I don't know	One parent is dead I don't know the other	I don't know
Total	8,319,207	118,556	367,921	7,693,603	79,439	13,817	32,212	8,319	5,339
0	413,183	672	8,681	398,900	1,631	0	2,230	0	1,069
1	425,673	2,270	2,471	418,221	0	0	2,039	672	0
2	525,213	2,683	9,471	507,731	761	0	3,895	672	0
3	564,878	3,732	14,376	538,029	6,985	1,757	0	0	0
4	675,773	6,164	20,313	638,049	4,748	2,086	3,841	573	0
5	473,753	5,302	11,347	452,665	3,370	0	1,069	0	0
6	495,836	5,787	15,954	466,063	4,578	0	0	2,411	1,043
7	448,916	4,972	18,733	423,050	2,161	0	0	0	0
8	494,692	5,615	13,693	467,361	4,854	1,069	2,100	0	0
9	438,974	4,527	23,904	403,452	6,022	0	1,069	0	0
10	523,523	10,772	28,244	477,543	6,390	0	573	0	0
11	392,196	5,805	29,009	349,856	2,697	1,069	2,892	0	867
12	468,287	8,207	32,298	422,034	3,369	0	748	1,631	0
13	401,517	13,465	27,639	350,052	3,860	2,511	2,701	0	1,291
14	441,939	8,870	28,981	393,751	6,948	0	2,319	0	1,069
15	412,230	9,835	27,732	362,517	7,507	0	3,570	1,069	0
16	397,503	8,634	32,954	347,692	5,232	1,069	1,921	0	0
17	325,119	11,243	22,119	276,639	8,326	4,255	1,245	1,291	0

Table 1.3d: Distribution of Male Household Members Below 18 years by Age, and Survival of Parents Urban

Age	URBAN MALE								
	Total	Yes, father is alive	Yes, mother is alive	Both are alive	No, both are dead	Father is alive mother I don't know	Mother is alive, father I don't know	One parent is dead I don't know the other	I don't know
Total	2,875,609	35,114	189,626	2,578,718	31,613	2,411	34,419	1,631	2,076
0	139,858	0	373	139,485	0	0	0	0	0
1	131,206	0	1,628	129,578	0	0	0	0	0
2	218,129	0	3,314	214,628	186	0	0	0	0
3	149,213	1,833	4,711	137,934	4,735	0	0	0	0
4	237,533	3,218	12,012	221,053	1,250	0	0	0	0
5	153,329	672	7,845	144,811	0	0	0	0	0
6	152,964	1,214	5,199	138,840	3,166	0	4,545	0	0
7	129,784	2,295	9,173	117,066	0	1,250	0	0	0
8	119,887	3,666	1,928	113,245	186	0	0	0	862
9	180,204	1,435	17,376	151,953	3,263	0	6,177	0	0
10	184,882	4,777	13,493	156,629	862	0	7,908	0	1,214
11	163,252	761	22,221	137,583	0	1,161	1,527	0	0
12	165,323	867	11,154	149,160	1,631	0	2,511	0	0
13	128,159	859	11,619	110,532	3,263	0	1,887	0	0
14	177,457	4,045	18,287	148,196	1,631	0	3,666	1,631	0
15	128,432	4,239	18,826	103,445	672	0	1,250	0	0
16	154,851	1,882	18,383	127,900	4,956	0	1,729	0	0
17	161,147	3,353	12,085	136,680	5,810	0	3,219	0	0

Table 1.4A: Distribution of Female Household Members Below 18 years by Age, and Survival of Parents Rural

Age	RURAL FEMALE								
	Total	Yes, father is alive	Yes, mother is alive	Both are alive	No, both are dead	Father is alive mother I don't know	Mother is alive, father I don't know	One parent is dead I don't know the other	I don't know
Total	7,884,722	128,690	308,651	7,321,641	60,987	6,481	39,368	10,109	8,796
0	382,332	689	6,429	374,939	0	0	0	0	276
1	387,165	3,805	7,614	369,173	1,514	0	4,175	0	883
2	511,952	689	8,586	495,599	689	1,095	5,294	0	0
3	551,926	6,809	11,497	528,783	0	0	4,837	0	0
4	598,620	6,553	15,462	569,609	792	1,095	779	4,329	0
5	411,031	10,159	12,814	382,106	689	0	2,525	1,671	1,068
6	488,503	6,301	15,459	457,882	4,057	0	2,190	1,671	942
7	419,230	6,038	21,328	382,877	5,331	0	2,561	0	1,095
8	443,661	7,047	18,370	413,384	3,765	0	1,095	0	0
9	476,828	7,754	24,479	436,489	1,281	1,042	4,047	0	1,737
10	484,653	12,230	16,882	449,948	1,488	779	888	2,438	0
11	400,210	8,913	16,353	369,030	4,634	1,281	0	0	0
12	546,832	12,514	24,662	498,084	4,191	0	5,867	0	1,514
13	418,748	9,497	29,495	373,052	4,342	0	2,362	0	0
14	435,363	5,662	24,485	398,658	6,558	0	0	0	0
15	337,084	6,555	15,756	301,975	10,330	1,189	0	0	1,281
16	371,370	7,753	21,156	330,837	9,656	0	1,968	0	0
17	219,214	9,723	17,824	189,216	1,671	0	779	0	0

Table 1.4B: Distribution of Female Household Members Below 18 years by Age, and Survival of Parents Urban

Age	URBAN FEMALE								
	Total	Yes, father is alive	Yes, mother is alive	Both are alive	No, both are dead	Father is alive mother I don't know	Mother is alive, father I don't know	One parent is dead I don't know the other	I don't know
Total	3,002,645	63,721	169,646	2,716,221	27,062	2,952	17,936	767	4,342
0	135,513	1,244	1,784	132,485	0	0	0	0	0
1	163,384	0	4,823	158,561	0	0	0	0	0
2	211,820	0	5,116	205,803	0	0	901	0	0
3	184,564	3,128	4,687	173,971	1,095	0	1,095	0	587
4	210,293	3,437	2,714	197,949	0	0	2,438	0	3,755
5	144,952	689	11,498	129,896	1,435	0	1,435	0	0
6	175,875	5,223	5,323	165,329	0	0	0	0	0
7	122,920	3,128	3,734	108,815	3,525	1,671	1,281	767	0
8	144,773	3,694	5,426	134,183	1,470	0	0	0	0
9	155,297	6,833	9,329	133,881	3,243	0	2,011	0	0
10	188,306	2,554	12,830	169,745	1,933	0	1,244	0	0
11	119,390	2,362	10,317	106,710	0	0	0	0	0
12	195,424	4,331	22,528	158,501	8,393	0	1,671	0	0
13	167,139	0	17,700	146,388	1,380	0	1,671	0	0
14	183,193	8,259	14,716	156,840	2,057	0	1,322	0	0
15	199,524	9,247	15,649	173,438	0	0	1,189	0	0
16	181,564	8,536	15,495	154,665	1,189	0	1,680	0	0
17	118,714	1,055	5,973	109,061	1,344	1,281	0	0	0

Table 1.5: Distribution of Household Members by Age and Marital Status, Location Rural and Urban

Age Groups	Total						Male						Female					
	Total	Married	Not married	Divorced/Separated	Widow/Widower	Living together	Total	Married	Not married	Divorced/Separated	Widow/Widower	Living together	Total	Married	Not married	Divorced/Separated	Widow/Widower	Living together
Total	33,696,002	17,493,389	12,653,343	986,864	1,699,751	862,655	16,001,250	8,438,031	6,710,325	263,332	188,002	401,559	17,694,751	9,055,358	5,943,018	723,532	1,511,748	461,096
12 - 14	3,729,381	26,640	3,695,542	1,322	0	5,877	1,782,682	13,266	1,766,410	0	0	3,006	1,946,700	13,374	1,929,132	1,322	0	2,872
15 - 19	4,766,438	363,526	4,364,475	11,282	578	26,576	2,396,071	48,901	2,341,674	186	0	5,309	2,370,367	314,625	2,022,800	11,096	578	21,267
20 - 24	4,034,429	1,484,625	2,333,615	57,117	7,502	151,570	1,835,658	353,745	1,435,815	5,887	0	40,212	2,198,771	1,130,881	897,801	51,230	7,502	111,359
25 - 29	3,535,736	2,217,909	1,070,444	80,670	14,863	151,850	1,566,478	865,110	617,416	15,012	1,233	67,707	1,969,257	1,352,799	453,028	65,657	13,630	84,143
30 - 34	3,290,017	2,472,589	464,269	136,968	37,022	179,169	1,399,063	1,065,651	215,735	25,760	6,275	85,642	1,890,954	1,406,939	248,534	111,208	30,747	93,527
35 - 39	2,956,358	2,442,797	210,967	152,020	61,407	89,167	1,315,308	1,132,188	101,738	31,051	1,729	48,602	1,641,050	1,310,609	109,229	120,969	59,678	40,565
40 - 44	2,607,984	2,125,736	178,563	130,568	91,985	81,131	1,287,190	1,099,195	97,743	38,291	6,954	45,007	1,320,794	1,026,541	80,821	92,276	85,031	36,124
45 - 49	2,012,753	1,610,190	106,671	113,291	127,339	55,263	1,050,952	917,722	59,077	31,524	11,229	31,400	961,801	692,468	47,594	81,767	116,110	23,863
50 - 54	1,744,310	1,385,483	76,546	87,863	154,722	39,695	857,628	757,682	23,969	32,398	16,304	27,275	886,682	627,801	52,577	55,465	138,418	12,421
55 - 59	1,183,113	937,320	36,814	59,155	128,012	21,812	620,031	553,138	11,947	30,697	15,243	9,007	563,082	384,182	24,867	28,458	112,769	12,805
60 - 64	1,234,005	885,653	37,922	64,721	227,496	18,213	615,606	556,962	11,368	21,598	12,673	13,006	618,399	328,692	26,554	43,123	214,824	5,207
65+	2,601,478	1,540,920	77,515	91,888	848,825	42,330	1,274,583	1,074,472	27,434	30,927	116,364	25,386	1,326,894	466,448	50,081	60,961	732,460	16,944

Table 1.5A: Distribution of Household Members by Age and Marital Status_Rural_Urban

Age Groups	Total						RURAL						URBAN					
	Total	Married	Not married	Divorced/ Separated	Widow/ Widower	Living together	Total	Married	Not married	Divorced/ Separated	Widow/ Widower	Living together	Total	Married	Not married	Divorced/ Separated	Widow/ Widower	Living together
Total	33,696,002	17,493,389	12,653,343	986,864	1,699,751	862,655	22,542,200	12,247,826	7,912,788	641,360	1,118,674	621,551	11,153,802	5,245,563	4,740,555	345,504	581,076	241,104
12 - 14	3,729,381	26,640	3,695,542	1,322	0	5,877	2,712,686	21,232	2,684,255	1,322	0	5,877	1,016,695	5,408	1,011,287	0	0	0
15 - 19	4,766,438	363,526	4,364,475	11,282	578	26,576	3,239,034	312,261	2,890,527	11,282	578	24,386	1,527,404	51,265	1,473,948	0	0	2,190
20 - 24	4,034,429	1,484,625	2,333,615	57,117	7,502	151,570	2,473,769	1,114,047	1,206,036	45,872	6,337	101,477	1,560,660	370,578	1,127,579	11,245	1,165	50,094
25 - 29	3,535,736	2,217,909	1,070,444	80,670	14,863	151,850	2,211,677	1,516,614	512,260	67,896	14,285	100,621	1,324,059	701,294	558,184	12,773	578	51,229
30 - 34	3,290,017	2,472,589	464,269	136,968	37,022	179,169	2,109,809	1,667,743	222,753	91,441	16,550	111,322	1,180,208	804,846	241,516	45,527	20,473	67,847
35 - 39	2,956,358	2,442,797	210,967	152,020	61,407	89,167	1,906,167	1,609,331	103,788	89,788	30,963	72,297	1,050,191	833,466	107,179	62,231	30,444	16,870
40 - 44	2,607,984	2,125,736	178,563	130,568	91,985	81,131	1,721,330	1,457,596	77,700	72,820	50,985	62,229	886,654	668,140	100,863	57,748	41,000	18,902
45 - 49	2,012,753	1,610,190	106,671	113,291	127,339	55,263	1,330,934	1,084,351	57,114	71,276	75,267	42,927	681,819	525,839	49,557	42,015	52,072	12,336
50 - 54	1,744,310	1,385,483	76,546	87,863	154,722	39,695	1,238,346	1,004,720	49,561	50,125	99,025	34,916	505,964	380,763	26,986	37,738	55,697	4,780
55 - 59	1,183,113	937,320	36,814	59,155	128,012	21,812	817,214	660,511	26,985	39,916	75,609	14,193	365,899	276,809	9,829	19,238	52,404	7,619
60 - 64	1,234,005	885,653	37,922	64,721	227,496	18,213	810,747	613,398	19,905	38,084	125,615	13,746	423,257	272,256	18,017	26,638	101,882	4,466
65+	2,601,478	1,540,920	77,515	91,888	848,825	42,330	1,970,486	1,186,022	61,904	61,538	623,462	37,561	630,991	354,898	15,611	30,350	225,363	4,770

Table 1.5B: Distribution of Household Members by Age and Marital Status_Rural_Urban_Male

Age Groups	TOTAL						RURAL						URBAN					
	Total	Married	Not married	Divorced/Separated	Widow/Widower	Living together	Total	Married	Not married	Divorced/Separated	Widow/Widower	Living together	Total	Married	Not married	Divorced/Separated	Widow/Widower	Living together
Total	16,001,250	8,438,031	6,710,325	263,332	188,002	401,559	10,911,630	5,910,076	4,406,614	173,110	126,992	294,839	5,089,620	2,527,955	2,303,712	90,222	61,011	106,721
12 - 14	1,782,682	13,266	1,766,410	0	0	3,006	1,311,743	8,546	1,300,191	0	0	3,006	470,939	4,719	466,219	0	0	0
15 - 19	2,396,071	48,901	2,341,674	186	0	5,309	1,709,817	41,627	1,662,695	186	0	5,309	686,253	7,274	678,979	0	0	0
20 - 24	1,835,658	353,745	1,435,815	5,887	0	40,212	1,139,328	299,286	808,673	5,887	0	25,481	696,330	54,458	627,142	0	0	14,730
25 - 29	1,566,478	865,110	617,416	15,012	1,233	67,707	1,023,137	616,322	344,995	13,773	1,233	46,814	543,342	248,788	272,421	1,240	0	20,893
30 - 34	1,399,063	1,065,651	215,735	25,760	6,275	85,642	902,688	716,204	115,434	16,601	1,607	52,843	496,375	349,447	100,301	9,160	4,668	32,800
35 - 39	1,315,308	1,132,188	101,738	31,051	1,729	48,602	860,552	753,724	46,645	20,254	0	39,928	454,756	378,464	55,093	10,797	1,729	8,674
40 - 44	1,287,190	1,099,195	97,743	38,291	6,954	45,007	840,897	733,223	42,126	24,742	6,292	34,515	446,292	365,972	55,617	13,549	662	10,492
45 - 49	1,050,952	917,722	59,077	31,524	11,229	31,400	717,280	630,447	30,669	23,293	8,324	24,547	333,672	287,275	28,408	8,231	2,904	6,853
50 - 54	857,628	757,682	23,969	32,398	16,304	27,275	605,629	543,309	13,107	14,634	9,385	25,194	251,999	214,374	10,862	17,764	6,919	2,081
55 - 59	620,031	553,138	11,947	30,697	15,243	9,007	427,565	381,510	9,800	22,295	7,722	6,238	192,466	171,628	2,147	8,402	7,521	2,769
60 - 64	615,606	556,962	11,368	21,598	12,673	13,006	417,375	383,518	6,485	10,476	8,357	8,540	198,231	173,444	4,883	11,122	4,316	4,466
65+	1,274,583	1,074,472	27,434	30,927	116,364	25,386	955,618	802,360	25,793	20,969	84,072	22,424	318,965	272,112	1,640	9,958	32,292	2,963

Table 1.5C: Distribution of Household Members by Age and Marital Status_Rural_Urban_Female

Age Groups	Total						RURAL						URBAN					
	Total	Married	Not married	Divorced/ Separated	Widow/ Widower	Living together	Total	Married	Not married	Divorced/ Separated	Widow/ Widower	Living together	Total	Married	Not married	Divorced/ Separated	Widow/ Widower	Living together
Total	17,694,751	9,055,358	5,943,018	723,532	1,511,748	461,096	11,630,570	6,337,751	3,506,174	468,250	991,682	326,713	6,064,181	2,717,607	2,436,844	255,282	520,066	134,383
12 - 14	1,946,700	13,374	1,929,132	1,322	0	2,872	1,400,943	12,685	1,384,064	1,322	0	2,872	545,756	689	545,068	0	0	0
15 - 19	2,370,367	314,625	2,022,800	11,096	578	21,267	1,529,217	270,634	1,227,832	11,096	578	19,077	841,150	43,991	794,969	0	0	2,190
20 - 24	2,198,771	1,130,881	897,801	51,230	7,502	111,359	1,334,441	814,761	397,363	39,984	6,337	75,995	864,330	316,120	500,437	11,245	1,165	35,363
25 - 29	1,969,257	1,352,799	453,028	65,657	13,630	84,143	1,188,540	900,292	167,265	54,124	13,052	53,807	780,718	452,507	285,763	11,534	578	30,336
30 - 34	1,890,954	1,406,939	248,534	111,208	30,747	93,527	1,207,122	951,539	107,320	74,841	14,942	58,480	683,833	455,399	141,215	36,367	15,805	35,047
35 - 39	1,641,050	1,310,609	109,229	120,969	59,678	40,565	1,045,615	855,607	57,143	69,535	30,963	32,369	595,435	455,002	52,086	51,434	28,715	8,197
40 - 44	1,320,794	1,026,541	80,821	92,276	85,031	36,124	880,432	724,374	35,574	48,077	44,693	27,714	440,361	302,167	45,246	44,199	40,338	8,410
45 - 49	961,801	692,468	47,594	81,767	116,110	23,863	613,654	453,904	26,445	47,983	66,943	18,380	348,147	238,564	21,149	33,784	49,167	5,483
50 - 54	886,682	627,801	52,577	55,465	138,418	12,421	632,717	461,412	36,454	35,490	89,640	9,722	253,965	166,390	16,124	19,975	48,778	2,699
55 - 59	563,082	384,182	24,867	28,458	112,769	12,805	389,649	279,001	17,185	17,621	67,887	7,955	173,433	105,181	7,683	10,837	44,883	4,850
60 - 64	618,399	328,692	26,554	43,123	214,824	5,207	393,372	229,879	13,420	27,608	117,258	5,207	225,027	98,812	13,133	15,515	97,566	0
65+	1,326,894	466,448	50,081	60,961	732,460	16,944	1,014,868	383,662	36,110	40,569	539,390	15,137	312,026	82,786	13,971	20,392	193,071	1,807

Table 1.8: Distribution of Household Members by Age, School Attendance and Sex

Age Groups	Total			Male			Female		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	42,223,824	11,667,617	30,556,207	20,353,443	5,844,660	14,508,783	21,870,381	5,822,957	16,047,424
5 - 9	6,071,410	4,465,329	1,606,081	3,088,340	2,189,194	899,145	2,983,071	2,276,135	706,936
10 - 14	6,185,794	4,937,409	1,248,385	3,046,535	2,416,214	630,321	3,139,259	2,521,195	618,064
15 - 19	4,766,438	1,812,065	2,954,373	2,396,071	957,180	1,438,890	2,370,367	854,885	1,515,483
20 - 24	4,034,429	360,862	3,673,567	1,835,658	227,844	1,607,815	2,198,771	133,018	2,065,753
25 - 29	3,535,736	70,662	3,465,074	1,566,478	44,657	1,521,822	1,969,257	26,005	1,943,252
30 - 34	3,290,017	8,390	3,281,628	1,399,063	3,314	1,395,749	1,890,954	5,075	1,885,879
35 - 39	2,956,358	2,641	2,953,717	1,315,308	854	1,314,453	1,641,050	1,786	1,639,264
40 - 44	2,607,984	3,419	2,604,565	1,287,190	3,419	1,283,771	1,320,794	0	1,320,794
45 - 49	2,012,753	5,099	2,007,654	1,050,952	1,797	1,049,155	961,801	3,302	958,499
50 - 54	1,744,310	186	1,744,124	857,628	186	857,442	886,682	0	886,682
55 - 59	1,183,113	0	1,183,113	620,031	0	620,031	563,082	0	563,082
60 - 64	1,234,005	276	1,233,729	615,606	0	615,606	618,399	276	618,123
65+	2,601,478	1,281	2,600,197	1,274,583	0	1,274,583	1,326,894	1,281	1,325,614

Table 1.8A: Distribution of Household Members by Age, School Attendance and Sex, Rural

Age Groups	Total			Male			Female		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	28,934,208	7,889,203	21,045,005	14,179,521	3,893,378	10,286,143	14,754,687	3,995,824	10,758,862
5 - 9	4,591,425	3,127,385	1,464,040	2,352,172	1,528,629	823,543	2,239,253	1,598,756	640,497
10 - 14	4,513,269	3,544,997	968,272	2,227,462	1,706,974	520,488	2,285,807	1,838,024	447,783
15 - 19	3,239,034	1,059,698	2,179,336	1,709,817	562,818	1,146,999	1,529,217	496,880	1,032,337
20 - 24	2,473,769	128,499	2,345,270	1,139,328	79,477	1,059,851	1,334,441	49,022	1,285,419
25 - 29	2,211,677	19,600	2,192,077	1,023,137	13,026	1,010,110	1,188,540	6,574	1,181,966
30 - 34	2,109,809	2,560	2,107,249	902,688	849	901,839	1,207,122	1,712	1,205,410
35 - 39	1,906,167	854	1,905,313	860,552	854	859,697	1,045,615	0	1,045,615
40 - 44	1,721,330	0	1,721,330	840,897	0	840,897	880,432	0	880,432
45 - 49	1,330,934	3,866	1,327,068	717,280	564	716,716	613,654	3,302	610,352
50 - 54	1,238,346	186	1,238,160	605,629	186	605,443	632,717	0	632,717
55 - 59	817,214	0	817,214	427,565	0	427,565	389,649	0	389,649
60 - 64	810,747	276	810,472	417,375	0	417,375	393,372	276	393,096
65+	1,970,486	1,281	1,969,206	955,618	0	955,618	1,014,868	1,281	1,013,587

Table 1.8B: Distribution of Household Members by Age, School Attendance and Sex, Urban

Age Groups	Total			Male			Female		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	13,289,617	3,778,415	9,511,202	6,173,922	1,951,282	4,222,640	7,115,694	1,827,133	5,288,562
5 - 9	1,479,985	1,337,944	142,041	736,168	660,565	75,602	743,818	677,379	66,439
10 - 14	1,672,525	1,392,412	280,113	819,073	709,241	109,832	853,452	683,171	170,281
15 - 19	1,527,404	752,367	775,036	686,253	394,362	291,891	841,150	358,005	483,145
20 - 24	1,560,660	232,363	1,328,297	696,330	148,367	547,964	864,330	83,997	780,333
25 - 29	1,324,059	51,062	1,272,997	543,342	31,630	511,711	780,718	19,431	761,286
30 - 34	1,180,208	5,829	1,174,379	496,375	2,465	493,910	683,833	3,364	680,469
35 - 39	1,050,191	1,786	1,048,405	454,756	0	454,756	595,435	1,786	593,649
40 - 44	886,654	3,419	883,235	446,292	3,419	442,874	440,361	0	440,361
45 - 49	681,819	1,233	680,586	333,672	1,233	332,439	348,147	0	348,147
50 - 54	505,964	0	505,964	251,999	0	251,999	253,965	0	253,965
55 - 59	365,899	0	365,899	192,466	0	192,466	173,433	0	173,433
60 - 64	423,257	0	423,257	198,231	0	198,231	225,027	0	225,027
65+	630,991	0	630,991	318,965	0	318,965	312,026	0	312,026

Table 1.12: Distribution of Household Members by Age and Education Attainment (Higher Level)

Region Name:	TOTAL											
	Total	Nursery Education	Primary Education	Course After Primary	Secondary (O level)	Course After Secondary	Secondary (A level)	Training After High School Education	Others Certified Training	Higher Learning	Adult Education	Never gone to School
Total	42,223,824	1,694,913	27,146,784	163,933	5,353,728	151,571	241,326	34,545	239,289	872,040	43,760	6,281,935
Dodoma	2,121,685	95,493	1,316,644	7,672	135,506	19,804	3,128	1,527	13,778	27,557	3,069	497,506
Arusha	1,596,445	57,759	993,580	3,685	319,970	11,023	12,245	1,244	19,465	38,917	0	138,558
Kilimanjaro	1,777,015	62,713	1,212,110	10,349	289,102	7,667	12,981	1,271	7,806	45,233	3,903	123,880
Tanga	2,116,188	103,217	1,456,789	2,970	214,857	6,021	7,440	5,891	11,845	34,138	1,492	271,527
Morogoro	1,872,547	65,238	1,236,569	5,038	192,874	5,054	8,513	0	5,079	18,646	0	335,535
Pwani	1,118,402	41,792	764,478	4,347	129,605	2,615	5,180	862	4,305	12,049	5,095	148,073
Dar es salaam	5,362,698	219,049	2,957,120	29,773	1,360,195	33,117	73,957	10,978	66,570	423,135	0	188,804
Lindi	814,343	14,553	552,961	2,289	53,544	1,510	3,069	761	0	1,510	4,526	179,620
Mtwara	1,637,425	68,047	1,094,898	5,898	193,105	3,521	2,304	0	2,332	16,188	1,143	249,987
Ruvuma	1,086,642	11,261	788,572	1,042	122,824	8,110	6,042	1,002	7,123	9,063	3,070	128,534
Iringa	1,071,703	54,480	712,311	6,096	132,916	2,270	5,293	1,486	6,800	23,165	2,248	124,640
Mbeya	1,363,130	48,607	993,499	5,324	201,615	1,079	7,531	1,069	4,229	30,935	1,053	68,189
Singida	1,639,270	61,317	1,116,835	1,722	132,743	2,589	6,053	0	4,378	13,993	888	298,753
Tabora	2,229,755	65,682	1,277,745	1,281	135,211	2,493	4,983	0	3,732	19,873	2,464	716,292
Rukwa	826,970	40,859	491,209	0	81,694	689	2,669	0	4,069	10,708	0	195,073
Kigoma	1,798,341	46,994	1,113,738	1,251	188,900	1,233	8,721	0	17,607	27,475	6,242	386,179
Shinyanga	1,340,335	49,020	800,975	1,759	114,982	1,780	5,237	0	1,780	13,304	0	351,498
Kagera	2,245,552	140,087	1,464,544	42,459	201,777	6,992	12,348	3,462	5,261	10,617	1,800	356,206
Mwanza	3,167,755	135,284	2,039,700	18,111	437,549	9,899	27,884	1,607	22,845	44,060	0	430,817
Mara	1,501,105	71,589	996,227	2,071	193,137	4,223	8,333	1,043	4,208	9,392	0	210,882
Manyara	1,425,410	50,364	881,278	2,745	137,007	3,709	6,498	906	5,606	17,511	928	318,858
Njombe	749,534	47,534	524,872	2,878	86,818	3,476	1,137	0	2,302	5,150	2,894	72,472
Katavi	389,863	10,065	242,587	1,341	39,287	1,079	2,176	0	2,970	4,589	0	85,769
Simiyu	1,201,743	65,683	812,991	3,833	86,478	2,305	3,875	0	3,893	9,993	0	212,691
Geita	366,180	13,023	240,266	0	41,818	747	553	367	562	561	754	67,528
Songwe	1,403,789	55,204	1,064,288	0	130,213	8,568	3,176	1,069	10,743	4,277	2,190	124,062

Table 1.12: Distribution of Household Members by Age and Education Attainment (Higher Level)

Region Name:	MALE											
	Total	Nursery Education	Primary Education	Course After Primary	Secondary (O level)	Course After Secondary	Secondary A level)	Training After High School Education	Others Certified Training	Higher Learning	Adult Education	Never gone to School
Total	20,353,443	890,528	13,285,387	86,556	2,745,165	95,966	158,528	29,546	135,146	554,185	23,963	2,348,474
Dodoma	1,016,385	61,081	624,668	6,108	69,950	15,135	0	1,527	7,567	15,067	1,504	213,777
Arusha	763,338	29,147	487,002	1,197	144,731	4,858	7,269	0	12,019	25,288	0	51,827
Kilimanjaro	869,567	29,664	596,031	7,705	145,185	7,667	9,015	1,271	5,162	28,125	2,581	37,159
Tanga	1,034,662	51,737	741,878	1,478	103,124	1,478	4,435	5,891	7,325	19,042	0	98,274
Morogoro	890,028	32,227	607,378	5,038	106,106	3,342	5,038	0	3,367	11,748	0	115,782
Pwani	526,334	24,134	372,306	1,698	56,429	849	4,297	862	3,422	8,530	5,095	48,710
Dar es salaam	2,484,351	102,644	1,296,540	10,998	648,243	25,607	40,162	7,223	32,830	254,660	0	65,444
Lindi	388,372	9,878	272,204	1,510	30,203	1,510	1,510	761	0	1,510	3,747	65,539
Mtwara	774,773	37,138	545,227	1,161	102,845	1,143	2,304	0	1,143	11,468	1,143	71,201
Ruvuma	518,971	8,136	375,655	0	65,699	6,042	6,042	1,002	5,040	9,063	1,002	41,291
Iringa	507,147	29,184	341,860	1,497	65,554	737	2,993	1,486	2,212	14,778	737	46,108
Mbeya	655,882	27,798	469,867	4,229	104,226	0	4,245	1,069	4,229	23,285	1,053	15,880
Singida	834,406	35,556	564,809	1,722	75,918	2,589	5,165	0	2,602	6,899	0	139,147
Tabora	1,112,287	37,507	679,197	0	58,410	1,232	4,983	0	3,732	16,050	2,464	308,712
Rukwa	405,681	18,824	262,285	0	47,334	0	2,669	0	1,325	7,286	0	65,959
Kigoma	846,462	17,517	550,563	1,251	113,341	1,233	8,721	0	9,917	21,067	3,698	119,153
Shinyanga	672,095	20,224	421,249	1,759	70,887	879	5,237	0	879	5,211	0	145,769
Kagera	1,065,480	84,328	697,384	19,091	99,309	5,219	6,949	3,462	3,462	5,245	0	141,031
Mwanza	1,553,864	71,782	1,017,883	8,109	245,596	3,215	19,529	1,607	14,514	32,387	0	139,241
Mara	715,591	43,809	474,707	2,071	114,183	2,086	6,212	1,043	2,071	7,255	0	62,153
Manyara	724,646	20,227	456,994	2,745	77,716	1,825	2,731	906	1,839	10,005	0	149,658
Njombe	360,797	24,061	270,705	2,292	37,077	1,137	1,137	0	1,129	3,976	564	18,719
Katavi	186,093	5,653	120,560	1,065	21,100	804	1,073	0	1,599	2,391	0	31,848
Simiyu	565,113	35,578	382,609	3,833	48,498	1,524	3,082	0	2,309	9,201	0	78,479
Geita	185,867	5,962	121,934	0	26,759	556	553	367	184	370	373	28,810
Songwe	695,251	26,729	533,891	0	66,742	5,298	3,176	1,069	5,267	4,277	0	48,803

Table 1.12: Distribution of Household Members by Age and Education Attainment (Higher Level)

Region Name:	FEMALE											
	Total	Nursery Education	Primary Education	Course After Primary	Secondary (O level)	Course After Secondary	Secondary (A level)	Training After High School Education	Others Certified Training	Higher Learning	Adult Education	Never gone to School
Total	21,870,381	804,386	13,861,397	77,377	2,608,563	55,606	82,798	4,999	104,143	317,855	19,797	3,933,461
Dodoma	1,105,300	34,412	691,976	1,564	65,556	4,669	3,128	0	6,210	12,490	1,564	283,730
Arusha	833,107	28,612	506,578	2,488	175,239	6,165	4,976	1,244	7,446	13,629	0	86,731
Kilimanjaro	907,448	33,049	616,079	2,644	143,916	0	3,966	0	2,644	17,107	1,322	86,721
Tanga	1,081,526	51,481	714,911	1,492	111,733	4,542	3,006	0	4,520	15,097	1,492	173,253
Morogoro	982,519	33,011	629,191	0	86,768	1,712	3,475	0	1,712	6,898	0	219,753
Pwani	592,068	17,658	392,172	2,649	73,176	1,766	883	0	883	3,519	0	99,363
Dar es salaam	2,878,347	116,405	1,660,580	18,775	711,952	7,510	33,795	3,755	33,740	168,476	0	123,360
Lindi	425,971	4,675	280,757	779	23,341	0	1,558	0	0	0	779	114,080
Mtwara	862,651	30,909	549,672	4,738	90,260	2,378	0	0	1,189	4,720	0	178,787
Ruvuma	567,671	3,125	412,916	1,042	57,125	2,068	0	0	2,083	0	2,068	87,243
Iringa	564,556	25,295	370,450	4,599	67,363	1,533	2,300	0	4,588	8,386	1,510	78,532
Mbeya	707,248	20,808	523,632	1,095	97,389	1,079	3,286	0	0	7,650	0	52,309
Singida	804,864	25,761	552,026	0	56,825	0	888	0	1,777	7,093	888	159,606
Tabora	1,117,469	28,174	598,548	1,281	76,801	1,262	0	0	0	3,823	0	407,580
Rukwa	421,289	22,036	228,923	0	34,360	689	0	0	2,744	3,423	0	129,114
Kigoma	951,879	29,477	563,175	0	75,559	0	0	0	7,690	6,408	2,544	267,026
Shinyanga	668,241	28,796	379,726	0	44,095	901	0	0	901	8,093	0	205,730
Kagera	1,180,072	55,760	767,159	23,368	102,468	1,773	5,399	0	1,800	5,372	1,800	215,175
Mwanza	1,613,892	63,501	1,021,816	10,002	191,953	6,684	8,355	0	8,331	11,673	0	291,576
Mara	785,514	27,779	521,520	0	78,954	2,137	2,121	0	2,137	2,137	0	148,729
Manyara	700,764	30,137	424,284	0	59,290	1,884	3,767	0	3,767	7,506	928	169,200
Njombe	388,736	23,473	254,167	587	49,741	2,339	0	0	1,174	1,174	2,330	53,753
Katavi	203,770	4,412	122,027	276	18,187	276	1,103	0	1,371	2,198	0	53,921
Simiyu	636,630	30,105	430,382	0	37,981	781	792	0	1,584	792	0	134,213
Geita	180,312	7,061	118,331	0	15,059	191	0	0	379	191	382	38,718
Songwe	708,538	28,474	530,397	0	63,471	3,269	0	0	5,476	0	2,190	75,259

Table 1.12: Distribution of Household Members by Age and Education Attainment (Higher Level) LOCATION

Region Name:	TOTAL											
	Total	Nursery Education	Primary Education	Course After Primary	Secondary (O level)	Course After Secondary	Secondary (A level)	Training After High School Education	Others Certified Training	Higher Learning	Adult Education	Never gone to School
Total	42,223,824	1,694,913	27,146,784	163,933	5,353,728	151,571	241,326	34,545	239,289	872,040	43,760	6,281,935
Dodoma	2,121,685	95,493	1,316,644	7,672	135,506	19,804	3,128	1,527	13,778	27,557	3,069	497,506
Arusha	1,596,445	57,759	993,580	3,685	319,970	11,023	12,245	1,244	19,465	38,917	0	138,558
Kilimanjaro	1,777,015	62,713	1,212,110	10,349	289,102	7,667	12,981	1,271	7,806	45,233	3,903	123,880
Tanga	2,116,188	103,217	1,456,789	2,970	214,857	6,021	7,440	5,891	11,845	34,138	1,492	271,527
Morogoro	1,872,547	65,238	1,236,569	5,038	192,874	5,054	8,513	0	5,079	18,646	0	335,535
Pwani	1,118,402	41,792	764,478	4,347	129,605	2,615	5,180	862	4,305	12,049	5,095	148,073
Dar es salaam	5,362,698	219,049	2,957,120	29,773	1,360,195	33,117	73,957	10,978	66,570	423,135	0	188,804
Lindi	814,343	14,553	552,961	2,289	53,544	1,510	3,069	761	0	1,510	4,526	179,620
Mtwara	1,637,425	68,047	1,094,898	5,898	193,105	3,521	2,304	0	2,332	16,188	1,143	249,987
Ruvuma	1,086,642	11,261	788,572	1,042	122,824	8,110	6,042	1,002	7,123	9,063	3,070	128,534
Iringa	1,071,703	54,480	712,311	6,096	132,916	2,270	5,293	1,486	6,800	23,165	2,248	124,640
Mbeya	1,363,130	48,607	993,499	5,324	201,615	1,079	7,531	1,069	4,229	30,935	1,053	68,189
Singida	1,639,270	61,317	1,116,835	1,722	132,743	2,589	6,053	0	4,378	13,993	888	298,753
Tabora	2,229,755	65,682	1,277,745	1,281	135,211	2,493	4,983	0	3,732	19,873	2,464	716,292
Rukwa	826,970	40,859	491,209	0	81,694	689	2,669	0	4,069	10,708	0	195,073
Kigoma	1,798,341	46,994	1,113,738	1,251	188,900	1,233	8,721	0	17,607	27,475	6,242	386,179
Shinyanga	1,340,335	49,020	800,975	1,759	114,982	1,780	5,237	0	1,780	13,304	0	351,498
Kagera	2,245,552	140,087	1,464,544	42,459	201,777	6,992	12,348	3,462	5,261	10,617	1,800	356,206
Mwanza	3,167,755	135,284	2,039,700	18,111	437,549	9,899	27,884	1,607	22,845	44,060	0	430,817
Mara	1,501,105	71,589	996,227	2,071	193,137	4,223	8,333	1,043	4,208	9,392	0	210,882
Manyara	1,425,410	50,364	881,278	2,745	137,007	3,709	6,498	906	5,606	17,511	928	318,858
Njombe	749,534	47,534	524,872	2,878	86,818	3,476	1,137	0	2,302	5,150	2,894	72,472
Katavi	389,863	10,065	242,587	1,341	39,287	1,079	2,176	0	2,970	4,589	0	85,769
Simiyu	1,201,743	65,683	812,991	3,833	86,478	2,305	3,875	0	3,893	9,993	0	212,691
Geita	366,180	13,023	240,266	0	41,818	747	553	367	562	561	754	67,528
Songwe	1,403,789	55,204	1,064,288	0	130,213	8,568	3,176	1,069	10,743	4,277	2,190	124,062

Table 1.12: Distribution of Household Members by Age and Education Attainment (Higher Level) LOCATION

Region Name:	RURAL											
	Total	Nursery Education	Primary Education	Course After Primary	Secondary (O level)	Course After Secondary	Secondary (A level)	Training After High School Education	Others Certified Training	Higher Learning	Adult Education	Never gone to School
Total	28,934,208	1,195,333	19,445,572	102,402	2,271,387	63,187	71,250	10,937	90,492	125,661	37,313	5,520,673
Dodoma	1,810,911	89,385	1,137,961	6,145	73,813	9,169	0	0	6,077	12,251	3,069	473,042
Arusha	1,055,180	38,032	678,810	3,685	174,355	7,357	2,411	1,244	12,155	8,441	0	128,690
Kilimanjaro	1,394,515	48,391	986,985	10,349	195,247	3,853	10,387	1,271	5,225	15,485	3,903	113,418
Tanga	1,700,619	83,785	1,205,065	1,478	143,412	3,028	4,471	1,478	4,462	8,889	1,492	243,058
Morogoro	1,329,267	44,678	903,289	1,696	104,193	0	1,696	0	3,383	1,671	0	268,661
Pwani	731,775	27,076	507,325	1,732	58,269	883	2,594	0	1,711	6,866	5,095	120,224
Dar es salaam	0	0	0	0	0	0	0	0	0	0	0	0
Lindi	659,627	11,492	454,276	2,289	37,411	749	2,289	0	0	749	3,777	146,595
Mtwara	1,238,194	50,469	882,872	3,549	92,488	0	1,143	0	1,143	2,332	1,143	203,054
Ruvuma	797,460	5,134	595,485	1,042	67,586	2,019	4,023	1,002	5,040	1,002	1,002	114,125
Iringa	817,252	43,912	568,831	5,329	79,234	1,504	0	0	3,008	5,212	1,492	108,729
Mbeya	878,093	30,223	687,180	3,176	87,317	0	1,069	0	2,123	5,356	1,053	60,597
Singida	1,471,385	55,162	1,028,608	1,722	88,963	2,589	1,722	0	1,756	867	0	289,998
Tabora	1,928,445	58,180	1,084,836	0	78,131	0	1,250	0	2,482	3,732	2,464	697,370
Rukwa	638,674	34,727	385,523	0	37,669	0	2,007	0	2,718	7,354	0	168,675
Kigoma	1,425,869	39,365	905,052	0	114,632	1,233	1,251	0	7,531	3,735	6,242	346,827
Shinyanga	1,044,141	32,083	623,420	879	54,099	879	2,612	0	0	7,921	0	322,247
Kagera	2,016,766	134,732	1,320,855	42,459	143,397	6,992	8,818	3,462	5,261	3,488	0	347,304
Mwanza	2,086,265	95,693	1,420,412	6,605	182,511	1,607	9,788	0	11,378	3,239	0	355,031
Mara	1,235,743	59,963	854,026	2,071	126,952	3,155	3,098	1,043	0	5,194	0	180,241
Manyara	1,249,216	44,758	783,755	906	90,740	2,767	4,651	0	1,861	5,548	928	313,302
Njombe	564,612	35,965	404,823	2,878	46,828	2,889	573	0	1,738	3,448	2,894	62,576
Katavi	284,996	7,885	184,674	1,341	17,851	1,079	269	0	806	265	0	70,824
Simiyu	1,163,454	64,910	785,609	3,071	79,465	2,305	3,875	0	3,893	9,220	0	211,107
Geita	306,384	11,692	198,489	0	31,121	563	184	367	379	186	568	62,836
Songwe	1,105,365	47,642	857,412	0	65,705	8,568	1,069	1,069	6,362	3,208	2,190	112,141

Table 1.12: Distribution of Household Members by Age and Education Attainment (Higher Level) LOCATION

Region Name:	URBAN											
	Total	Nursery Education	Primary Education	Course After Primary	Secondary (O level)	Course After Secondary	Secondary (A level)	Training After High School Education	Others Certified Training	Higher Learning	Adult Education	Never gone to School
Total	13,289,617	499,580	7,701,212	61,531	3,082,340	88,384	170,076	23,609	148,797	746,379	6,447	761,262
Dodoma	310,774	6,108	178,683	1,527	61,693	10,636	3,128	1,527	7,701	15,306	0	24,465
Arusha	541,265	19,727	314,770	0	145,615	3,666	9,834	0	7,310	30,477	0	9,868
Kilimanjaro	382,500	14,322	225,125	0	93,855	3,814	2,593	0	2,581	29,747	0	10,462
Tanga	415,569	19,432	251,724	1,492	71,445	2,992	2,970	4,413	7,383	25,249	0	28,469
Morogoro	543,280	20,560	333,280	3,342	88,681	5,054	6,817	0	1,696	16,975	0	66,874
Pwani	386,627	14,716	257,154	2,615	71,336	1,732	2,586	862	2,594	5,183	0	27,849
Dar es salaam	5,362,698	219,049	2,957,120	29,773	1,360,195	33,117	73,957	10,978	66,570	423,135	0	188,804
Lindi	154,715	3,061	98,686	0	16,133	761	779	761	0	761	749	33,025
Mtwara	399,231	17,578	212,026	2,349	100,617	3,521	1,161	0	1,189	13,856	0	46,934
Ruvuma	289,182	6,127	193,086	0	55,238	6,091	2,019	0	2,083	8,061	2,068	14,409
Iringa	254,451	10,567	143,479	767	53,683	767	5,293	1,486	3,792	17,953	755	15,911
Mbeya	485,036	18,384	306,319	2,149	114,298	1,079	6,461	1,069	2,107	25,579	0	7,592
Singida	167,885	6,155	88,227	0	43,780	0	4,332	0	2,623	13,125	888	8,755
Tabora	301,311	7,501	192,909	1,281	57,081	2,493	3,732	0	1,250	16,141	0	18,922
Rukwa	188,296	6,132	105,685	0	44,025	689	662	0	1,351	3,354	0	26,398
Kigoma	372,472	7,629	208,687	1,251	74,268	0	7,470	0	10,076	23,740	0	39,352
Shinyanga	296,195	16,937	177,555	879	60,883	901	2,625	0	1,780	5,383	0	29,251
Kagera	228,786	5,356	143,689	0	58,380	0	3,530	0	0	7,129	1,800	8,902
Mwanza	1,081,490	39,590	619,288	11,506	255,038	8,292	18,096	1,607	11,467	40,821	0	75,786
Mara	265,363	11,626	142,201	0	66,186	1,068	5,235	0	4,208	4,198	0	30,641
Manyara	176,194	5,606	97,523	1,839	46,267	942	1,848	906	3,745	11,964	0	5,556
Njombe	184,922	11,569	120,049	0	39,990	587	564	0	564	1,702	0	9,896
Katawi	104,867	2,180	57,913	0	21,436	0	1,907	0	2,164	4,324	0	14,945
Simiyu	38,289	773	27,383	762	7,013	0	0	0	0	773	0	1,584
Geita	59,795	1,331	41,777	0	10,698	184	370	0	184	374	186	4,692
Songwe	298,423	7,562	206,876	0	64,508	0	2,107	0	4,381	1,069	0	11,921

Table 1.12: Distribution of Household Members by Age and Education Attainment (Higher Level) LOCATION

Age	TOTAL											
	Total	Nursery Education	Primary Education	Course After Primary	Secondary (O level)	Course After Secondary	Secondary (A level)	Training After High School Education	Others Certified Training	Higher Learning	Adult Education	Never gone to School
Total	42,223,824	1,694,913	27,146,784	163,933	5,353,728	151,571	241,326	34,545	239,289	872,040	43,760	6,281,935
5	1,183,065	499,946	683,120	0	0	0	0	0	0	0	0	0
6	1,313,178	646,156	245,440	0	0	0	0	0	0	0	0	421,583
7	1,120,850	287,936	644,537	0	0	0	0	0	0	0	0	188,378
8	1,203,013	134,737	936,737	0	0	0	0	0	0	0	0	131,540
9	1,251,303	65,342	1,092,491	0	0	0	0	0	0	0	0	93,469
10	1,381,364	28,351	1,250,906	0	0	0	0	0	0	0	0	102,107
11	1,075,048	8,078	993,690	0	0	0	0	0	0	0	0	73,281
12	1,375,866	5,270	1,272,727	0	0	0	0	0	0	0	0	97,869
13	1,115,564	2,878	976,047	16,976	54,236	0	0	0	0	0	0	65,426
14	1,237,952	942	909,837	27,874	205,919	0	0	0	0	0	0	93,380
15 - 19	4,766,438	1,757	2,578,314	33,437	1,681,161	14,896	45,318	6,654	19,804	19,463	764	364,870
20 - 24	4,034,429	1,481	2,088,413	9,143	1,171,870	53,565	83,418	8,775	66,152	206,984	4,086	340,542
25 - 29	3,535,736	1,377	2,040,813	12,210	695,345	27,275	42,022	5,800	53,135	212,920	186	444,654
30 - 34	3,290,017	1,845	2,170,832	7,353	395,750	11,331	18,053	0	37,431	116,058	5,014	526,350
35 - 39	2,956,358	0	2,175,030	14,456	264,092	2,630	11,410	906	10,139	69,923	1,678	406,096
40 - 44	2,607,984	887	1,840,833	9,505	293,050	7,768	12,391	0	7,091	76,213	191	360,054
45 - 49	2,012,753	1,095	1,465,933	6,064	168,639	8,011	7,813	1,607	13,695	36,879	0	303,017
50 - 54	1,744,310	587	1,197,963	7,729	128,008	7,187	2,797	1,731	4,994	36,934	4,568	351,812
55 - 59	1,183,113	1,271	759,364	6,998	95,665	6,012	4,055	2,728	13,116	27,724	6,394	259,785
60 - 64	1,234,005	1,629	703,939	6,009	114,511	9,261	5,660	5,343	4,930	40,045	7,278	335,401
65+	2,601,478	3,349	1,119,819	6,181	85,483	3,636	8,391	1,002	8,803	28,896	13,601	1,322,318

Table 1.12: Distribution of Household Members by Age and Education Attainment (Higher Level) LOCATION

Age	RURAL											
	Total	Nursery Education	Primary Education	Course After Primary	Secondary (O level)	Course After Secondary	Secondary (A level)	Training After High School Education	Others Certified Training	Higher Learning	Adult Education	Never gone to School
Total	28,934,208	1,195,333	19,445,572	102,402	2,271,387	63,187	71,250	10,937	90,492	125,661	37,313	5,520,673
5	884,784	266,160	618,625	0	0	0	0	0	0	0	0	0
6	984,339	438,150	149,132	0	0	0	0	0	0	0	0	397,057
7	868,147	244,847	449,576	0	0	0	0	0	0	0	0	173,723
8	938,353	131,285	682,380	0	0	0	0	0	0	0	0	124,688
9	915,802	64,442	759,252	0	0	0	0	0	0	0	0	92,109
10	1,008,176	22,352	888,076	0	0	0	0	0	0	0	0	97,748
11	792,406	6,599	714,434	0	0	0	0	0	0	0	0	71,373
12	1,015,119	5,270	921,203	0	0	0	0	0	0	0	0	88,646
13	820,265	2,878	733,037	4,729	19,836	0	0	0	0	0	0	59,786
14	877,302	942	667,722	15,120	105,622	0	0	0	0	0	0	87,895
15 - 19	3,239,034	1,757	1,977,621	19,657	880,674	3,973	11,755	1,069	4,789	4,822	764	332,153
20 - 24	2,473,769	1,481	1,547,709	8,263	500,258	18,578	26,145	1,410	23,021	26,144	4,086	316,674
25 - 29	2,211,677	1,377	1,423,417	10,539	290,588	13,514	11,560	2,722	23,114	36,901	0	397,945
30 - 34	2,109,809	1,845	1,482,440	4,979	120,201	7,756	3,702	0	7,610	16,541	3,215	461,521
35 - 39	1,906,167	0	1,459,199	10,082	68,203	0	883	0	4,290	6,104	1,678	355,728
40 - 44	1,721,330	0	1,292,036	5,771	91,248	2,558	3,855	0	2,737	6,160	191	316,775
45 - 49	1,330,934	0	1,027,075	4,393	36,789	1,751	1,877	0	3,981	1,959	0	253,110
50 - 54	1,238,346	587	867,084	5,890	36,142	2,497	0	1,731	3,323	4,892	4,568	311,632
55 - 59	817,214	1,271	528,299	4,071	32,918	4,405	4,055	1,271	9,378	6,669	6,394	218,482
60 - 64	810,747	1,629	464,758	4,338	45,907	6,547	762	1,731	1,053	2,033	6,390	275,599
65+	1,970,486	2,462	792,499	4,569	43,001	1,607	6,657	1,002	7,195	13,436	10,028	1,088,030

Table 1.12: Distribution of Household Members by Age and Education Attainment (Higher Level) LOCATION

Age	URBAN											
	Total	Nursery Education	Primary Education	Course After Primary	Secondary (O level)	Course After Secondary	Secondary (A level)	Training After High School Education	Others Certified Training	Higher Learning	Adult Education	Never gone to School
Total	13,289,617	499,580	7,701,212	61,531	3,082,340	88,384	170,076	23,609	148,797	746,379	6,447	761,262
5	298,281	233,786	64,495	0	0	0	0	0	0	0	0	0
6	328,839	208,006	96,308	0	0	0	0	0	0	0	0	24,526
7	252,704	43,089	194,961	0	0	0	0	0	0	0	0	14,655
8	264,660	3,452	254,357	0	0	0	0	0	0	0	0	6,852
9	335,501	901	333,239	0	0	0	0	0	0	0	0	1,361
10	373,188	5,999	362,830	0	0	0	0	0	0	0	0	4,359
11	282,642	1,478	279,257	0	0	0	0	0	0	0	0	1,907
12	360,747	0	351,524	0	0	0	0	0	0	0	0	9,223
13	295,298	0	243,011	12,247	34,400	0	0	0	0	0	0	5,640
14	360,650	0	242,115	12,753	100,297	0	0	0	0	0	0	5,485
15 - 19	1,527,404	0	600,693	13,779	800,487	10,923	33,563	5,585	15,016	14,640	0	32,717
20 - 24	1,560,660	0	540,705	879	671,612	34,987	57,273	7,365	43,131	180,840	0	23,869
25 - 29	1,324,059	0	617,396	1,671	404,757	13,761	30,462	3,077	30,020	176,019	186	46,710
30 - 34	1,180,208	0	688,392	2,374	275,549	3,575	14,351	0	29,821	99,517	1,800	64,830
35 - 39	1,050,191	0	715,830	4,374	195,889	2,630	10,527	906	5,849	63,819	0	50,368
40 - 44	886,654	887	548,798	3,734	201,802	5,210	8,536	0	4,354	70,054	0	43,279
45 - 49	681,819	1,095	438,858	1,671	131,849	6,260	5,937	1,607	9,714	34,921	0	49,907
50 - 54	505,964	0	330,879	1,839	91,865	4,690	2,797	0	1,671	32,043	0	40,180
55 - 59	365,899	0	231,065	2,927	62,747	1,607	0	1,456	3,738	21,055	0	41,304
60 - 64	423,257	0	239,181	1,671	68,603	2,714	4,898	3,612	3,877	38,011	888	59,802
65+	630,991	887	327,320	1,611	42,482	2,028	1,734	0	1,607	15,460	3,573	234,288

Table 1.12: Distribution of Household Members by Age and Education Attainment (Higher Level)

Age	TOTAL											
	Total	Nursery Education	Primary Education	Course After Primary	Secondary (O level)	Course After Secondary	Secondary (A level)	Training After High School Education	Others Certified Training	Higher Learning	Adult Education	Never gone to School
Total	42,223,824	1,694,913	27,146,784	163,933	5,353,728	151,571	241,326	34,545	239,289	872,040	43,760	6,281,935
5	1,183,065	499,946	683,120	0	0	0	0	0	0	0	0	0
6	1,313,178	646,156	245,440	0	0	0	0	0	0	0	0	421,583
7	1,120,850	287,936	644,537	0	0	0	0	0	0	0	0	188,378
8	1,203,013	134,737	936,737	0	0	0	0	0	0	0	0	131,540
9	1,251,303	65,342	1,092,491	0	0	0	0	0	0	0	0	93,469
10	1,381,364	28,351	1,250,906	0	0	0	0	0	0	0	0	102,107
11	1,075,048	8,078	993,690	0	0	0	0	0	0	0	0	73,281
12	1,375,866	5,270	1,272,727	0	0	0	0	0	0	0	0	97,869
13	1,115,564	2,878	976,047	16,976	54,236	0	0	0	0	0	0	65,426
14	1,237,952	942	909,837	27,874	205,919	0	0	0	0	0	0	93,380
15 - 19	4,766,438	1,757	2,578,314	33,437	1,681,161	14,896	45,318	6,654	19,804	19,463	764	364,870
20 - 24	4,034,429	1,481	2,088,413	9,143	1,171,870	53,565	83,418	8,775	66,152	206,984	4,086	340,542
25 - 29	3,535,736	1,377	2,040,813	12,210	695,345	27,275	42,022	5,800	53,135	212,920	186	444,654
30 - 34	3,290,017	1,845	2,170,832	7,353	395,750	11,331	18,053	0	37,431	116,058	5,014	526,350
35 - 39	2,956,358	0	2,175,030	14,456	264,092	2,630	11,410	906	10,139	69,923	1,678	406,096
40 - 44	2,607,984	887	1,840,833	9,505	293,050	7,768	12,391	0	7,091	76,213	191	360,054
45 - 49	2,012,753	1,095	1,465,933	6,064	168,639	8,011	7,813	1,607	13,695	36,879	0	303,017
50 - 54	1,744,310	587	1,197,963	7,729	128,008	7,187	2,797	1,731	4,994	36,934	4,568	351,812
55 - 59	1,183,113	1,271	759,364	6,998	95,665	6,012	4,055	2,728	13,116	27,724	6,394	259,785
60 - 64	1,234,005	1,629	703,939	6,009	114,511	9,261	5,660	5,343	4,930	40,045	7,278	335,401
65+	2,601,478	3,349	1,119,819	6,181	85,483	3,636	8,391	1,002	8,803	28,896	13,601	1,322,318

Table 1.12: Distribution of Household Members by Age and Education Attainment (Higher Level_SEX)

Age	MALE											
	Total	Nursery Education	Primary Education	Course After Primary	Secondary (O level)	Course After Secondary	Secondary (A level)	Training After High School Education	Others Certified Training	Higher Learning	Adult Education	Never gone to School
Total	20,353,443	890,528	13,285,387	86,556	2,745,165	95,966	158,528	29,546	135,146	554,185	23,963	2,348,474
5	627,082	253,317	373,764	0	0	0	0	0	0	0	0	0
6	648,801	317,148	101,037	0	0	0	0	0	0	0	0	230,616
7	578,700	173,027	293,499	0	0	0	0	0	0	0	0	112,174
8	614,579	84,945	451,030	0	0	0	0	0	0	0	0	78,604
9	619,178	33,785	527,341	0	0	0	0	0	0	0	0	58,052
10	708,405	12,801	642,504	0	0	0	0	0	0	0	0	53,100
11	555,448	6,700	504,318	0	0	0	0	0	0	0	0	44,430
12	633,610	2,149	580,460	0	0	0	0	0	0	0	0	51,001
13	529,677	2,878	458,228	10,335	15,690	0	0	0	0	0	0	42,545
14	619,395	0	475,104	12,943	84,024	0	0	0	0	0	0	47,325
15 - 19	2,396,071	1,757	1,331,364	14,068	804,746	9,436	22,641	2,899	9,991	10,483	186	188,499
20 - 24	1,835,658	0	894,290	4,355	552,549	33,444	58,004	8,775	31,639	118,657	4,086	129,859
25 - 29	1,566,478	0	873,507	3,594	365,626	14,058	27,808	4,556	25,615	114,755	186	136,773
30 - 34	1,399,063	749	901,297	6,586	219,612	5,424	11,574	0	18,755	74,058	1,893	159,115
35 - 39	1,315,308	0	987,406	8,090	136,559	1,688	4,036	906	6,193	42,504	1,487	126,439
40 - 44	1,287,190	0	922,946	5,783	157,104	5,461	7,314	0	5,996	55,384	0	127,202
45 - 49	1,050,952	0	773,668	5,788	112,811	8,011	7,813	1,607	11,004	31,412	0	98,838
50 - 54	857,628	0	634,082	3,570	80,600	4,447	1,233	1,731	3,323	30,380	1,981	96,283
55 - 59	620,031	1,271	437,872	1,028	68,795	6,012	4,055	2,728	8,897	19,966	1,698	67,708
60 - 64	615,606	0	400,954	4,236	68,737	5,375	5,660	5,343	4,930	29,207	4,367	86,799
65+	1,274,583	0	720,716	6,181	78,312	2,609	8,391	1,002	8,803	27,382	8,078	413,111

Table 1.12: Distribution of Household Members by Age and Education Attainment (Higher Level) SEX

Age	FEMALE											
	Total	Nursery Education	Primary Education	Course After Primary	Secondary (O level)	Course After Secondary	Secondary (A level)	Training After High School Education	Others Certified Training	Higher Learning	Adult Education	Never gone to School
Total	21,870,381	804,386	13,861,397	77,377	2,608,563	55,606	82,798	4,999	104,143	317,855	19,797	3,933,461
5	555,984	246,628	309,355	0	0	0	0	0	0	0	0	0
6	664,378	329,008	144,403	0	0	0	0	0	0	0	0	190,967
7	542,150	114,909	351,037	0	0	0	0	0	0	0	0	76,204
8	588,434	49,792	485,706	0	0	0	0	0	0	0	0	52,936
9	632,125	31,557	565,151	0	0	0	0	0	0	0	0	35,417
10	672,959	15,550	608,401	0	0	0	0	0	0	0	0	49,007
11	519,600	1,377	489,372	0	0	0	0	0	0	0	0	28,850
12	742,256	3,121	692,267	0	0	0	0	0	0	0	0	46,868
13	585,887	0	517,819	6,641	38,546	0	0	0	0	0	0	22,881
14	618,556	942	434,733	14,931	121,895	0	0	0	0	0	0	46,055
15 - 19	2,370,367	0	1,246,949	19,369	876,415	5,460	22,677	3,755	9,813	8,980	578	176,371
20 - 24	2,198,771	1,481	1,194,123	4,788	619,320	20,121	25,414	0	34,513	88,327	0	210,683
25 - 29	1,969,257	1,377	1,167,306	8,615	329,719	13,216	14,213	1,244	27,520	98,165	0	307,881
30 - 34	1,890,954	1,095	1,269,535	767	176,138	5,907	6,479	0	18,675	42,000	3,121	367,236
35 - 39	1,641,050	0	1,187,624	6,365	127,533	942	7,374	0	3,946	27,419	191	279,657
40 - 44	1,320,794	887	917,887	3,722	135,946	2,308	5,077	0	1,095	20,829	191	232,852
45 - 49	961,801	1,095	692,265	276	55,828	0	0	0	2,691	5,467	0	204,179
50 - 54	886,682	587	563,882	4,160	47,408	2,740	1,564	0	1,671	6,555	2,587	255,529
55 - 59	563,082	0	321,492	5,971	26,870	0	0	0	4,219	7,759	4,695	192,077
60 - 64	618,399	1,629	302,985	1,773	45,774	3,886	0	0	0	10,838	2,911	248,603
65+	1,326,894	3,349	399,103	0	7,172	1,026	0	0	0	1,514	5,523	909,207

Table 1.15: Distribution of Household Members by Age and Literacy, Location Rural and Urban

Age Group	Total						RURAL						URBAN					
	Total	In Swahili	In English	Swahili and English	Other language	None	Total	In Swahili	In English	Swahili and English	Other language	None	Total	In Swahili	In English	Swahili and English	Other language	None
Total	42,223,824	26,816,051	196,805	6,079,515	125,221	9,006,231	28,934,208	18,409,841	79,739	2,362,846	105,103	7,976,677	13,289,617	8,406,210	117,066	3,716,669	20,118	1,029,554
5 - 9	6,071,410	2,787,874	8,180	115,909	26,726	3,132,721	4,591,425	1,769,144	4,514	21,645	22,481	2,773,640	1,479,985	1,018,730	3,666	94,264	4,244	359,081
10 - 14	6,185,794	4,706,181	25,331	704,649	6,567	743,066	4,513,269	3,473,192	16,679	313,826	6,567	703,005	1,672,525	1,232,989	8,652	390,822	0	40,061
15 - 19	4,766,438	2,796,574	42,513	1,465,757	4,532	457,060	3,239,034	2,049,909	21,422	752,911	2,901	411,891	1,527,404	746,666	21,091	712,846	1,631	45,170
20 - 24	4,034,429	2,443,591	23,513	1,170,223	6,180	390,922	2,473,769	1,661,894	9,416	433,271	6,180	363,008	1,560,660	781,697	14,098	736,952	0	27,914
25 - 29	3,535,736	2,308,198	19,327	750,491	11,944	445,776	2,211,677	1,547,274	9,066	249,026	6,701	399,609	1,324,059	760,924	10,261	501,464	5,243	46,166
30 - 34	3,290,017	2,293,433	9,270	450,546	8,985	527,783	2,109,809	1,502,238	2,651	121,183	8,985	474,752	1,180,208	791,195	6,619	329,363	0	53,031
35 - 39	2,956,358	2,214,752	14,968	313,265	9,675	403,697	1,906,167	1,448,689	2,933	83,359	8,622	362,564	1,050,191	766,062	12,036	229,906	1,053	41,133
40 - 44	2,607,984	1,900,448	12,939	298,182	12,230	384,185	1,721,330	1,282,581	2,063	87,772	7,725	341,189	886,654	617,867	10,876	210,410	4,504	42,996
45 - 49	2,012,753	1,513,097	14,653	169,240	9,191	306,571	1,330,934	1,007,890	3,998	45,852	7,520	265,674	681,819	505,208	10,655	123,388	1,671	40,897
50 - 54	1,744,310	1,215,912	11,401	164,520	3,979	348,497	1,238,346	871,514	2,616	51,649	3,092	309,475	505,964	344,399	8,785	112,871	887	39,022
55 - 59	1,183,113	757,054	5,757	149,349	1,663	269,289	817,214	515,506	1,856	67,126	781	231,945	365,899	241,548	3,901	82,223	883	37,344
60 - 64	1,234,005	743,416	4,422	154,176	1,796	330,195	810,747	485,805	854	47,400	1,796	274,892	423,257	257,611	3,567	106,776	0	55,303
65+	2,601,478	1,135,519	4,529	173,209	21,753	1,266,467	1,970,486	794,205	1,671	87,825	21,753	1,065,032	630,991	341,315	2,858	85,384	0	201,435

Table 1.16: Distribution of Male Household Members by Age and Literacy, Location Rural and Urban

Age Group	Total						RURAL						URBAN					
	Total	In Swahili	In English	Swahili and English	Other language	None	Total	In Swahili	In English	Swahili and English	Other language	None	Total	In Swahili	In English	Swahili and English	Other language	None
Total	20,353,443	13,030,907	110,426	3,333,951	56,111	3,822,049	14,179,521	9,324,167	36,915	1,352,278	45,802	3,420,359	6,173,922	3,706,740	73,511	1,981,673	10,309	401,690
5 - 9	3,088,340	1,331,536	5,804	52,861	10,471	1,687,667	2,352,172	842,581	2,138	5,966	8,840	1,492,646	736,168	488,955	3,666	46,894	1,631	195,021
10 - 14	3,046,535	2,314,630	7,209	314,952	6,567	403,177	2,227,462	1,702,078	5,074	135,587	6,567	378,156	819,073	612,552	2,135	179,365	0	25,021
15 - 19	2,396,071	1,398,921	22,867	724,693	3,740	245,849	1,709,817	1,103,999	10,022	371,755	2,109	221,933	686,253	294,922	12,845	352,939	1,631	23,916
20 - 24	1,835,658	1,044,280	7,253	627,347	1,679	155,099	1,139,328	744,483	761	251,797	1,679	140,608	696,330	299,797	6,493	375,550	0	14,490
25 - 29	1,566,478	1,008,233	10,188	400,252	5,243	142,562	1,023,137	745,629	4,751	147,209	0	125,548	543,342	262,605	5,437	253,043	5,243	17,014
30 - 34	1,399,063	978,009	3,475	255,633	4,021	157,926	902,688	667,588	1,859	82,202	4,021	147,018	496,375	310,422	1,616	173,431	0	10,907
35 - 39	1,315,308	985,197	11,591	177,107	4,536	136,878	860,552	675,029	1,889	57,515	3,483	122,636	454,756	310,168	9,701	119,591	1,053	14,242
40 - 44	1,287,190	957,134	7,400	183,268	2,357	137,032	840,897	656,412	2,063	57,379	1,607	123,436	446,292	300,722	5,337	125,889	749	13,596
45 - 49	1,050,952	803,644	12,329	119,694	5,708	109,577	717,280	572,442	2,261	37,616	5,708	99,253	333,672	231,202	10,068	82,078	0	10,324
50 - 54	857,628	639,223	10,501	109,566	906	97,433	605,629	478,710	1,716	37,914	906	86,384	251,999	160,513	8,785	71,652	0	11,049
55 - 59	620,031	437,135	2,858	108,559	0	71,478	427,565	312,522	1,856	48,475	0	64,711	192,466	124,614	1,002	60,084	0	6,767
60 - 64	615,606	415,410	4,422	107,131	854	87,789	417,375	295,867	854	38,383	854	81,416	198,231	119,543	3,567	68,748	0	6,373
65+	1,274,583	717,553	4,529	152,889	10,028	389,583	955,618	526,827	1,671	80,478	10,028	336,613	318,965	190,726	2,858	72,411	0	52,970

Table 1.17: Distribution of Female Household Members by Age and Literacy, Location Rural and Urban

Age Group	Total						RURAL						URBAN					
	Total	In Swahili	In English	Swahili and English	Other language	None	Total	In Swahili	In English	Swahili and English	Other language	None	Total	In Swahili	In English	Swahili and English	Other language	None
Total	21,870,381	13,785,145	86,379	2,745,564	69,111	5,184,182	14,754,687	9,085,674	42,824	1,010,568	59,301	4,556,318	7,115,694	4,699,470	43,555	1,734,996	9,809	627,864
5 - 9	2,983,071	1,456,338	2,376	63,048	16,254	1,445,054	2,239,253	926,563	2,376	15,679	13,641	1,280,994	743,818	529,775	0	47,369	2,613	164,061
10 - 14	3,139,259	2,391,551	18,122	389,697	0	339,889	2,285,807	1,771,114	11,605	178,239	0	324,849	853,452	620,437	6,518	211,457	0	15,040
15 - 19	2,370,367	1,397,653	19,646	741,064	792	211,212	1,529,217	945,910	11,400	381,157	792	189,958	841,150	451,744	8,246	359,907	0	21,254
20 - 24	2,198,771	1,399,311	16,260	542,876	4,500	235,823	1,334,441	917,412	8,655	181,474	4,500	222,400	864,330	481,899	7,605	361,402	0	13,423
25 - 29	1,969,257	1,299,965	9,139	350,239	6,701	303,214	1,188,540	801,646	4,315	101,817	6,701	274,061	780,718	498,320	4,824	248,421	0	29,153
30 - 34	1,890,954	1,315,424	5,795	194,913	4,965	369,858	1,207,122	834,650	792	38,980	4,965	327,734	683,833	480,773	5,003	155,933	0	42,124
35 - 39	1,641,050	1,229,555	3,378	136,159	5,139	266,819	1,045,615	773,660	1,043	25,844	5,139	239,929	595,435	455,895	2,334	110,315	0	26,891
40 - 44	1,320,794	943,314	5,539	114,914	9,873	247,153	880,432	626,169	0	30,393	6,118	217,753	440,361	317,145	5,539	84,521	3,755	29,400
45 - 49	961,801	709,453	2,324	49,547	3,483	196,994	613,654	435,448	1,737	8,237	1,812	166,421	348,147	274,006	587	41,310	1,671	30,573
50 - 54	886,682	576,689	901	54,954	3,073	251,065	632,717	392,804	901	13,735	2,186	223,091	253,965	183,886	0	41,219	887	27,973
55 - 59	563,082	319,919	2,899	40,790	1,663	197,811	389,649	202,984	0	18,650	781	167,234	173,433	116,935	2,899	22,139	883	30,577
60 - 64	618,399	328,006	0	47,045	942	242,406	393,372	189,937	0	9,017	942	193,476	225,027	138,068	0	38,028	0	48,930
65+	1,326,894	417,967	0	20,319	11,725	876,883	1,014,868	267,378	0	7,346	11,725	728,419	312,026	150,589	0	12,973	0	148,465

Table 2.11: Distribution of Household Members Main occupations by Age group

Occupation	Economic Activities											
	Total	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65+
Total	16,125,219	725,983	1,618,341	2,114,160	2,232,605	2,079,350	1,913,032	1,534,844	1,324,359	850,711	754,854	976,979
Legislators, administrators and managers	72,850	0	0	3,484	9,783	5,896	6,639	22,047	4,537	17,091	2,373	1,002
Professionals	211,855	0	12,950	36,838	45,696	24,361	27,297	15,308	25,441	10,351	12,097	1,515
Technicians and associate professionals	475,420	3,029	28,475	89,041	79,415	48,748	58,604	52,908	45,581	44,016	12,866	12,737
Clerks	69,400	0	10,213	16,176	11,214	6,778	9,017	2,040	6,275	3,338	3,612	737
Service workers and shop sales workers	1,978,423	110,889	224,021	317,356	354,167	276,831	241,500	190,574	110,935	47,876	56,509	47,765
Agricultural and fishery workers	10,311,755	469,420	970,769	1,172,594	1,246,819	1,265,941	1,198,612	996,035	940,551	604,225	592,835	853,955
Craft and related workers	1,122,061	56,631	130,792	169,869	177,420	164,987	133,607	94,379	85,608	51,726	29,839	27,201
Plant and machine operators and assemblers	544,677	22,296	86,783	115,804	92,763	80,632	63,137	25,011	20,125	29,982	3,612	4,531
Elementary occupations	1,338,777	63,719	154,338	192,998	215,328	205,176	174,619	136,544	85,304	42,106	41,110	27,535

Table 2.11A: Distribution of Household Members Main occupations by Age group Rural

Occupation	Economic Activities											
	Total	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65+
Total	11,391,917	555,855	1,187,333	1,439,030	1,470,213	1,401,657	1,288,437	1,058,835	967,715	623,141	575,662	824,039
Legislators, administrators and managers	24,263	0	0	0	1,646	3,195	767	5,733	3,323	6,225	2,373	1,002
Professionals	31,317	0	3,514	5,268	2,716	2,873	2,898	5,299	3,565	2,318	1,616	1,250
Technicians and associate professionals	193,876	3,029	6,255	45,377	28,568	16,976	11,656	15,546	20,161	24,763	11,084	10,461
Clerks	11,855	0	5,114	1,559	1,281	0	1,322	0	849	1,731	0	0
Service workers and shop sales workers	523,598	20,866	76,328	80,877	98,453	68,821	65,895	38,035	26,141	19,656	10,056	18,471
Agricultural and fishery workers	9,406,132	453,346	917,337	1,097,414	1,153,421	1,144,279	1,088,054	896,514	839,346	529,543	520,511	766,367
Craft and related workers	496,005	37,829	66,919	80,825	74,917	63,277	51,229	38,047	37,741	16,385	15,475	13,360
Plant and machine operators and assemblers	139,904	13,307	36,600	41,041	21,374	5,681	6,109	7,021	2,728	3,864	0	2,177
Elementary occupations	564,967	27,479	75,266	86,670	87,836	96,556	60,507	52,640	33,861	18,656	14,546	10,950

Table 2.11B: Distribution of Household Members Main occupations by Age group Urban

Occupation	Economic Activities											
	Total	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65+
Total	4,733,302	170,128	431,008	675,130	762,392	677,693	624,595	476,010	356,644	227,570	179,192	152,940
Legislators, administrators and managers	48,587	0	0	3,484	8,136	2,701	5,872	16,314	1,214	10,866	0	0
Professionals	180,538	0	9,437	31,570	42,979	21,488	24,399	10,009	21,876	8,033	10,481	265
Technicians and associate professionals	281,545	0	22,221	43,665	50,847	31,772	46,948	37,362	25,420	19,253	1,782	2,276
Clerks	57,545	0	5,099	14,617	9,933	6,778	7,696	2,040	5,426	1,607	3,612	737
Service workers and shop sales workers	1,454,825	90,023	147,693	236,480	255,714	208,010	175,605	152,539	84,794	28,220	46,453	29,295
Agricultural and fishery workers	905,622	16,073	53,431	75,180	93,398	121,662	110,557	99,521	101,205	74,682	72,325	87,587
Craft and related workers	626,056	18,802	63,873	89,045	102,503	101,710	82,378	56,332	47,867	35,341	14,364	13,841
Plant and machine operators and assemblers	404,773	8,989	50,183	74,762	71,389	74,951	57,028	17,990	17,397	26,118	3,612	2,354
Elementary occupations	773,810	36,240	79,071	106,328	127,491	108,620	114,112	83,904	51,443	23,450	26,565	16,585

Tables 2.12: Distribution of Male Household members Main occupations by Age group

Occupation	Economic Activities											
	Total	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65+
Total	9,380,281	386,789	874,860	1,232,323	1,235,594	1,178,824	1,144,088	944,937	770,701	531,592	440,553	640,020
Legislators, administrators and managers	59,277	0	0	2,240	737	5,896	5,872	22,047	4,537	14,574	2,373	1,002
Professionals	134,903	0	10,035	21,026	29,239	17,560	15,736	11,776	13,079	5,055	9,882	1,515
Technicians and associate professionals	292,451	3,029	19,640	43,593	50,312	31,339	33,305	36,750	31,515	21,267	10,673	11,025
Clerks	26,263	0	1,799	3,323	3,612	1,002	5,582	737	2,520	3,338	3,612	737
Service workers and shop sales workers	1,032,635	29,485	105,701	158,652	179,617	140,797	137,183	109,333	69,619	33,618	30,741	37,888
Agricultural and fishery workers	5,801,763	250,521	493,921	688,956	648,884	689,534	697,417	578,636	511,649	367,053	328,306	546,885
Craft and related workers	869,706	47,548	85,175	117,587	125,042	128,252	112,071	83,008	72,711	43,910	28,939	25,464
Plant and machine operators and assemblers	530,222	22,296	85,264	110,957	91,305	80,046	62,559	22,483	18,900	28,271	3,612	4,531
Elementary occupations	633,062	33,910	73,324	85,990	106,845	84,398	74,362	80,167	46,171	14,506	22,417	10,972

Tables 2.12A: Distribution of Male Household members Main occupations by Age group_Rural

Occupation	Economic Activities											
	Total	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65+
Total	6,563,640	321,347	625,776	839,035	793,863	779,197	757,137	644,380	550,074	382,437	338,587	531,806
Legislators, administrators and managers	21,272	0	0	0	0	3,195	0	5,733	3,323	5,647	2,373	1,002
Professionals	21,839	0	2,270	5,268	1,436	2,094	849	2,709	2,030	2,318	1,616	1,250
Technicians and associate professionals	126,142	3,029	3,472	19,490	24,216	13,906	5,964	12,951	12,674	12,799	8,891	8,750
Clerks	4,114	0	1,534	0	0	0	0	0	849	1,731	0	0
Service workers and shop sales workers	284,400	13,576	35,812	31,299	54,406	34,313	40,429	23,389	15,619	16,334	6,077	13,148
Agricultural and fishery workers	5,293,467	242,027	470,854	649,542	590,586	626,243	628,024	528,132	457,346	316,877	296,287	487,548
Craft and related workers	395,451	33,130	40,947	51,550	57,872	52,998	41,992	36,185	36,859	15,083	15,475	13,360
Plant and machine operators and assemblers	134,503	13,307	36,325	37,998	20,595	5,681	6,109	5,719	2,728	3,864	0	2,177
Elementary occupations	282,452	16,279	34,562	43,888	44,753	40,768	33,769	29,563	18,646	7,785	7,867	4,571

Tables 2.12B: Distribution of Male Household members Main occupations by Age group_Urban

Occupation	Economic Activities											
	Total	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65+
Total	2,816,641	65,442	249,084	393,288	441,731	399,627	386,950	300,557	220,627	149,155	101,966	108,215
Legislators, administrators and managers	38,005	0	0	2,240	737	2,701	5,872	16,314	1,214	8,927	0	0
Professionals	113,064	0	7,766	15,758	27,803	15,466	14,887	9,067	11,049	2,737	8,265	265
Technicians and associate professionals	166,309	0	16,168	24,103	26,097	17,433	27,341	23,799	18,841	8,468	1,782	2,276
Clerks	22,149	0	265	3,323	3,612	1,002	5,582	737	1,671	1,607	3,612	737
Service workers and shop sales workers	748,235	15,909	69,890	127,353	125,211	106,485	96,754	85,945	54,000	17,284	24,664	24,740
Agricultural and fishery workers	508,296	8,494	23,066	39,414	58,298	63,291	69,393	50,505	54,303	50,175	32,019	59,338
Craft and related workers	474,255	14,418	44,228	66,037	67,170	75,254	70,078	46,823	35,852	28,828	13,463	12,104
Plant and machine operators and assemblers	395,719	8,989	48,939	72,959	70,710	74,364	56,450	16,764	16,172	24,406	3,612	2,354
Elementary occupations	350,610	17,631	38,762	42,102	62,092	43,630	40,593	50,603	27,525	6,721	14,549	6,401

Table 2.13: Distribution of Female Household Members Main occupations by Age group

Occupation	Economic Activities											
	Total	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65+
Total	6,744,937	339,194	743,481	881,837	997,011	900,526	768,945	589,907	553,658	319,119	314,301	336,959
Legislators, administrators and managers	13,573	0	0	1,244	9,045	0	767	0	0	2,517	0	0
Professionals	76,952	0	2,915	15,812	16,457	6,802	11,560	3,532	12,363	5,296	2,215	0
Technicians and associate professionals	182,969	0	8,835	45,448	29,102	17,409	25,299	16,158	14,066	22,749	2,193	1,712
Clerks	43,137	0	8,414	12,852	7,602	5,776	3,436	1,302	3,755	0	0	0
Service workers and shop sales workers	945,788	81,404	118,319	158,704	174,551	136,034	104,317	81,240	41,316	14,258	25,769	9,877
Agricultural and fishery workers	4,509,992	218,898	476,848	483,638	597,935	576,407	501,195	417,398	428,902	237,172	264,530	307,069
Craft and related workers	252,355	9,083	45,617	52,283	52,378	36,735	21,537	11,371	12,898	7,816	901	1,737
Plant and machine operators and assemblers	14,455	0	1,520	4,847	1,458	587	578	2,528	1,226	1,712	0	0
Elementary occupations	705,715	29,809	81,014	107,008	108,482	120,778	100,257	56,378	39,133	27,600	18,694	16,563

Table 2.13A: Distribution of Female Household Members Main occupations by Age group_Rural

Occupation	Economic Activities											
	Total	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65+
Total	4,828,276	234,508	561,557	599,995	676,350	622,460	531,300	414,455	417,641	240,704	237,074	292,233
Legislators, administrators and managers	2,991	0	0	0	1,646	0	767	0	0	578	0	0
Professionals	9,478	0	1,244	0	1,281	779	2,048	2,590	1,535	0	0	0
Technicians and associate professionals	67,734	0	2,782	25,887	4,353	3,070	5,692	2,595	7,486	11,965	2,193	1,712
Clerks	7,741	0	3,580	1,559	1,281	0	1,322	0	0	0	0	0
Service workers and shop sales workers	239,198	7,290	40,516	49,578	44,047	34,509	25,466	14,646	10,522	3,322	3,980	5,323
Agricultural and fishery workers	4,112,665	211,319	446,483	447,872	562,835	518,036	460,030	368,382	382,000	212,665	224,224	278,820
Craft and related workers	100,554	4,699	25,972	29,275	17,045	10,279	9,237	1,862	883	1,302	0	0
Plant and machine operators and assemblers	5,401	0	276	3,044	779	0	0	1,302	0	0	0	0
Elementary occupations	282,515	11,201	40,704	42,781	43,083	55,788	26,738	23,077	15,215	10,871	6,678	6,379

Table 2.13B: Distribution of Female Household Members Main occupations by Age group_Urban

Occupation	Economic Activities											
	Total	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 - 44	45 - 49	50 - 54	55 - 59	60 - 64	65+
Total	1,916,661	104,687	181,924	281,842	320,661	278,066	237,645	175,452	136,017	78,415	77,226	44,726
Legislators, administrators and managers	10,582	0	0	1,244	7,399	0	0	0	0	1,939	0	0
Professionals	67,474	0	1,671	15,812	15,176	6,022	9,512	942	10,827	5,296	2,215	0
Technicians and associate professionals	115,236	0	6,053	19,562	24,750	14,339	19,607	13,563	6,579	10,784	0	0
Clerks	35,396	0	4,834	11,294	6,322	5,776	2,114	1,302	3,755	0	0	0
Service workers and shop sales workers	706,590	74,114	77,803	109,127	130,503	101,525	78,851	66,594	30,794	10,935	21,789	4,554
Agricultural and fishery workers	397,326	7,580	30,365	35,766	35,100	58,371	41,164	49,016	46,902	24,507	40,306	28,249
Craft and related workers	151,801	4,384	19,645	23,008	35,333	26,456	12,300	9,509	12,015	6,513	901	1,737
Plant and machine operators and assemblers	9,054	0	1,244	1,804	678	587	578	1,226	1,226	1,712	0	0
Elementary occupations	423,201	18,609	40,309	64,226	65,400	64,990	73,519	33,301	23,919	16,729	12,015	10,184

Table 2.21: Distribution of Household Members by Age and Nature of Main occupations

Age Group	TOTAL																	
	Total	Wage labor(Farm/Livestock)	Wage labor(Non farm/Non-Livestock)	Salaried Employee	Self employed (Farm/ Livestock)	Self employed/ Employed enterprise	Transport Owner/ Business	Self employed (Fishing)	Wage labor (Fishing)	Hawker/ Vender/ Wholesale trade	Domestic help	Carpentry/ Masonry	Electrician/ Repair work	Self employed (Forest products)	Wage labor (Forest products)	Self employed (Bodaboda)	Wage labor (Bodaboda)	Other (Specify)
Total	16,125,219	1,083,941	785,292	1,598,281	8,959,270	332,092	183,385	149,546	24,906	1,368,279	78,995	377,861	48,789	36,369	9,206	95,409	49,096	944,503
15 - 19	725,983	44,759	33,090	85,876	414,218	12,960	3,731	4,316	0	24,951	33,440	20,572	2,319	0	186	919	7,237	37,406
20 - 24	1,618,341	105,408	85,332	186,709	838,954	34,331	28,171	19,366	4,107	124,501	16,239	38,477	4,659	849	0	21,023	9,749	100,465
25 - 29	2,114,160	111,923	114,862	277,331	1,039,553	46,777	22,995	19,495	5,526	223,536	4,189	38,646	6,632	4,402	0	26,184	21,498	150,612
30 - 34	2,232,605	133,704	132,083	274,297	1,087,722	51,221	29,639	20,830	3,524	257,763	7,878	66,527	5,255	5,774	1,053	21,547	1,671	132,117
35 - 39	2,079,350	121,298	78,344	198,197	1,133,479	57,249	24,418	18,756	4,061	241,747	4,878	47,806	3,822	2,499	1,607	14,129	6,713	120,347
40 - 44	1,913,032	136,309	118,378	167,629	1,027,901	30,260	18,676	21,607	1,028	203,226	2,571	49,423	5,930	5,803	1,233	8,236	1,478	113,344
45 - 49	1,534,844	110,366	79,009	134,398	845,162	39,185	25,048	17,662	1,882	111,393	942	44,490	14,088	5,504	0	3,371	749	101,595
50 - 54	1,324,359	107,734	69,105	109,142	795,940	15,829	15,558	10,974	2,357	68,331	565	38,593	4,627	1,731	5,126	0	0	78,748
55 - 59	850,711	62,566	28,017	104,801	523,147	20,675	11,072	5,644	1,189	31,577	3,705	16,745	0	1,924	0	0	0	39,649
60 - 64	754,854	64,173	22,143	44,869	506,159	12,554	3,223	5,914	1,233	44,388	2,381	8,829	0	4,653	0	0	0	34,335
65+	976,979	85,703	24,929	15,031	747,035	11,051	854	4,982	0	36,866	2,205	7,753	1,456	3,230	0	0	0	35,885

Table 2.21A: Distribution of Household Members by Age and Nature of Main occupations Rural

Age Group	RURAL																	
	Total	Wage labor (Farm/ Livestoc)	Wage labor (Non farm/ Non-Livestock)	Salaried Employee	Self employed (Farm/ Livestock)	Self employed/ Employed enterprise	Transport Owner /Business	Self employed (Fishing)	Wage labor (Fishing)	Hawker/Vender /Wholesale trade	Domestic help	Carpentry/ Masonry	Electrician/ Repair work	Self employed (Forest products)	Wage labor (Forest products)	Self employed (Bodaboda)	Wage or (Bodaboda)	Other (Specify)
Total	11,391,917	939,646	282,425	366,177	8,146,058	149,263	49,316	120,749	20,186	499,507	30,518	187,845	7,280	19,787	1,794	39,664	26,421	505,281
15 - 19	555,855	38,957	17,787	19,052	396,103	6,710	2,971	4,316	0	10,040	3,419	17,972	1,250	0	186	919	6,370	29,803
20 - 24	1,187,333	93,705	31,710	38,624	791,176	19,008	7,658	15,366	2,964	67,175	7,382	20,736	2,900	849	0	12,215	7,037	68,829
25 - 29	1,439,030	99,540	40,742	77,234	972,192	22,921	11,862	16,289	5,526	78,133	3,631	18,343	1,235	2,669	0	10,295	8,986	69,432
30 - 34	1,470,213	119,860	45,902	53,593	1,001,978	26,327	9,881	19,687	3,338	96,951	3,932	25,986	0	564	0	8,125	1,671	52,418
35 - 39	1,401,657	102,733	29,005	27,155	1,019,620	20,931	1,779	11,771	3,877	95,675	1,886	21,142	0	1,733	1,607	2,858	1,607	58,277
40 - 44	1,288,437	115,579	31,538	27,616	926,876	12,351	1,028	18,392	1,028	68,378	2,571	22,819	866	4,295	0	3,338	0	51,760
45 - 49	1,058,835	94,346	21,366	32,275	753,309	13,700	2,877	15,027	1,033	35,012	752	24,544	1,028	1,749	0	1,914	749	59,154
50 - 54	967,715	87,770	25,585	24,645	717,347	7,679	6,255	5,755	0	20,751	565	21,534	0	1,731	0	0	0	48,099
55 - 59	623,141	57,339	13,631	41,374	452,422	8,059	2,421	5,644	1,189	7,943	2,164	5,817	0	1,924	0	0	0	23,215
60 - 64	575,662	56,019	11,466	15,407	446,484	2,299	1,731	5,914	1,233	10,430	2,010	4,812	0	1,042	0	0	0	16,815
65+	824,039	73,797	13,693	9,203	668,550	9,278	854	2,588	0	9,019	2,205	4,141	0	3,230	0	0	0	27,481

Table 2.21B: Distribution of Household Members by Age and Nature of Main occupations Urban

Age Group	URBAN																	
	Total	Wage labor (Farm/Livestock)	Wage labor (Non farm/Non-Livestock)	Salaried Employee	Self employed (Farm/Livestock)	Self employed /Employed enterprise	Transport Owner/ Business	Self employed (Fishing)	Wage labor (Fishing)	Hawker/Vender/ Wholesale trade	Domestic help	Carpentry/ Masonry	Electrician/ Repair work	Self employed (Forest products)	Wage labor (Forest products)	Self employed (Bodaboda)	Wage labor (Bodaboda)	Other (Specify)
Total	4,733,302	144,295	502,867	1,232,104	813,212	182,829	134,069	28,797	4,719	868,772	48,477	190,016	41,509	16,582	7,412	55,745	22,676	439,222
15 - 19	170,128	5,802	15,303	66,824	18,115	6,251	761	0	0	14,912	30,021	2,601	1,069	0	0	0	867	7,604
20 - 24	431,008	11,703	53,622	148,085	47,778	15,322	20,513	4,000	1,143	57,326	8,857	17,741	1,759	0	0	8,809	2,713	31,637
25 - 29	675,130	12,383	74,120	200,097	67,361	23,856	11,133	3,206	0	145,403	558	20,303	5,397	1,732	0	15,889	12,512	81,180
30 - 34	762,392	13,844	86,181	220,703	85,743	24,894	19,758	1,143	186	160,812	3,946	40,541	5,255	5,209	1,053	13,422	0	79,700
35 - 39	677,693	18,565	49,339	171,043	113,859	36,318	22,639	6,985	184	146,071	2,992	26,664	3,822	767	0	11,272	5,105	62,070
40 - 44	624,595	20,730	86,840	140,013	101,025	17,909	17,649	3,215	0	134,848	0	26,604	5,063	1,508	1,233	4,898	1,478	61,584
45 - 49	476,010	16,019	57,643	102,124	91,853	25,485	22,171	2,635	849	76,381	191	19,946	13,060	3,755	0	1,456	0	42,441
50 - 54	356,644	19,964	43,520	84,498	78,593	8,149	9,303	5,219	2,357	47,580	0	17,059	4,627	0	5,126	0	0	30,650
55 - 59	227,570	5,226	14,386	63,427	70,726	12,616	8,651	0	0	23,634	1,541	10,928	0	0	0	0	0	16,435
60 - 64	179,192	8,154	10,677	29,462	59,675	10,255	1,492	0	0	33,958	372	4,017	0	3,612	0	0	0	17,519
65+	152,940	11,905	11,236	5,829	78,485	1,773	0	2,393	0	27,847	0	3,612	1,456	0	0	0	0	8,404

Tables 2.22: Distribution of Male Household Members by Age and Nature of Main occupations

Age Group	Male																	
	Total	Wage labor (Farm/Livestock)	Wage labor(Non farm/Non-Livestock)	Salaried Employee	Self employed (Farm/Livestock)	Self employed/ Employed enterprise	Transport Owner/ Business	Self employed (Fishing)	Wage labor (Fishing)	Hawker/Vender/ Wholesale trade	Domestic help	Carpentry/ Masonry	Electrician/ Repair work	Self employed (Forest products)	Wage labor (Forest products)	Self employed (Bodaboda)	Wage labor (Bodaboda)	Other (Specify)
Total	9,380,281	694,287	520,660	1,025,491	4,939,673	205,585	133,327	139,929	22,454	536,591	23,439	374,733	45,089	22,145	7,691	94,521	48,821	545,847
15 - 19	386,789	35,608	23,418	26,849	211,531	9,014	3,731	4,316	0	13,776	5,344	19,477	2,319	0	186	919	7,237	23,062
20 - 24	874,860	69,139	58,212	101,961	401,950	16,060	26,134	18,298	4,107	46,218	5,847	37,788	4,659	849	0	21,023	9,474	53,141
25 - 29	1,232,323	71,106	63,617	153,325	600,776	29,522	19,397	18,232	4,263	88,630	2,662	37,578	6,632	849	0	26,184	21,498	88,051
30 - 34	1,235,594	81,866	80,182	180,261	551,873	28,845	16,960	20,830	3,524	101,885	2,182	66,251	5,255	5,774	1,053	20,658	1,671	66,522
35 - 39	1,178,824	79,685	54,723	136,289	605,444	29,166	13,682	15,438	4,061	82,970	1,922	47,806	3,822	1,733	1,607	14,129	6,713	79,635
40 - 44	1,144,088	84,854	81,640	118,994	593,367	19,709	17,910	19,639	1,028	80,997	367	49,423	5,930	2,839	1,233	8,236	1,478	56,445
45 - 49	944,937	71,498	59,542	99,924	482,402	26,471	16,046	16,340	1,882	45,899	370	44,490	14,088	866	0	3,371	749	60,999
50 - 54	770,701	69,611	43,609	73,788	416,349	9,695	13,264	10,295	2,357	36,304	184	38,593	928	1,731	3,612	0	0	50,383
55 - 59	531,592	37,486	22,383	79,439	315,637	18,483	3,617	5,644	0	9,970	1,785	16,745	0	662	0	0	0	19,740
60 - 64	440,553	35,527	13,030	41,342	282,583	11,013	1,731	5,914	1,233	11,260	949	8,829	0	3,612	0	0	0	23,530
65+	640,020	57,908	20,305	13,319	477,760	7,607	854	4,982	0	18,681	1,826	7,753	1,456	3,230	0	0	0	24,339

Tables 2.22A: Distribution of Male Household Members by Age and Nature of Main occupations Rural

Age Group	Male Rural																	
	Total	Wage labor (Farm/ Livestock)	Wage labor (Non farm/Non- Livestock)	Salaried Employee	Self employed (Farm/ Livestock)	Self employed/ Employed enterprise	Transport Owner/ Business	Self employed (Fishing)	Wage labor (Fishing)	Hawker/ Vendor/ Wholesale trade	Domestic help	Carpentry/ Masonry	Electrician/Repair work	Self employed (Forest products)	Wage labor (Forest products)	Self employed (Bodaboda)	Wage labor (Bodaboda)	Other (Specify)
Total	6,563,640	607,235	188,348	255,294	4,473,128	95,237	42,251	115,518	17,735	213,437	14,241	185,681	7,280	11,243	1,794	38,776	26,145	270,298
15 - 19	321,347	31,784	15,259	10,506	200,307	6,519	2,971	4,316	0	4,439	573	16,876	1,250	0	186	919	6,370	19,073
20 - 24	625,776	64,332	14,174	22,086	382,709	9,428	6,716	15,366	2,964	24,408	3,340	20,736	2,900	849	0	12,215	6,761	36,792
25 - 29	839,035	63,241	26,349	44,443	563,768	11,323	11,070	15,026	4,263	29,871	2,295	17,274	1,235	0	0	10,295	8,986	29,594
30 - 34	793,863	69,076	27,680	42,736	501,963	17,340	7,132	19,687	3,338	45,704	2,182	25,986	0	564	0	7,236	1,671	21,567
35 - 39	779,197	68,595	21,745	19,972	542,879	11,416	265	11,771	3,877	35,817	553	21,142	0	1,733	1,607	2,858	1,607	33,361
40 - 44	757,137	73,088	20,503	17,119	530,002	8,376	1,028	16,424	1,028	37,779	367	22,819	866	1,607	0	3,338	0	22,792
45 - 49	644,380	63,113	13,943	27,060	435,073	8,559	2,877	13,705	1,033	13,537	370	24,544	1,028	866	0	1,914	749	36,009
50 - 54	550,074	57,139	17,774	19,197	374,386	5,181	5,186	5,076	0	11,241	184	21,534	0	1,731	0	0	0	31,445
55 - 59	382,437	34,449	11,750	29,956	267,680	7,189	2,421	5,644	0	2,784	1,785	5,817	0	662	0	0	0	12,299
60 - 64	338,587	35,527	8,365	14,728	249,677	2,299	1,731	5,914	1,233	4,462	766	4,812	0	0	0	0	0	9,073
65+	531,806	46,890	10,806	7,491	424,683	7,607	854	2,588	0	3,396	1,826	4,141	0	3,230	0	0	0	18,294

Tables 2.22B: Distribution of Male Household Members by Age and Nature of Main occupations Urban

Age Group	Male Urban																	
	Total	Wage labor (Fam/ Livestock)	Wagelabor (Non farm/ Livestock)	Salaried Employee	Self employed (Fam/ Livestock)	Self employed/ Employed enterprise	Transport Owner/ Business	Self employed (Fishing)	Wage Labor (Fishing)	Hawker/ Vender/ Wholesale trade	Domestic help	Carpentry/ Masonry	Electrician/ Repair work	Self employed (Forest products)	Wage labor (Forest products)	Selfemployed (Bodaboda)	Wagelabor (Bodaboda)	Other (Specify)
Total	2,816,641	87,051	332,312	770,197	466,545	110,348	91,076	24,411	4,719	323,153	9,198	189,051	37,809	10,902	5,898	55,745	22,676	275,549
15 - 19	65,442	3,824	8,160	16,343	11,224	2,496	761	0	0	9,337	4,772	2,601	1,069	0	0	0	867	3,989
20 - 24	249,084	4,806	44,038	79,876	19,241	6,632	19,418	2,932	1,143	21,810	2,507	17,053	1,759	0	0	8,809	2,713	16,349
25 - 29	393,288	7,865	37,268	108,882	37,008	18,199	8,327	3,206	0	58,759	367	20,303	5,397	849	0	15,889	12,512	58,457
30 - 34	441,731	12,789	52,501	137,526	49,910	11,505	9,828	1,143	186	56,181	0	40,266	5,255	5,209	1,053	13,422	0	44,956
35 - 39	399,627	11,091	32,978	116,317	62,565	17,750	13,417	3,668	184	47,153	1,369	26,664	3,822	0	0	11,272	5,105	46,274
40 - 44	386,950	11,766	61,137	101,874	63,365	11,333	16,882	3,215	0	43,218	0	26,604	5,063	1,232	1,233	4,898	1,478	33,653
45 - 49	300,557	8,385	45,598	72,864	47,328	17,912	13,169	2,635	849	32,363	0	19,946	13,060	0	0	1,456	0	24,991
50 - 54	220,627	12,472	25,835	54,591	41,963	4,514	8,078	5,219	2,357	25,063	0	17,059	928	0	3,612	0	0	18,938
55 - 59	149,155	3,036	10,633	49,483	47,958	11,294	1,197	0	0	7,186	0	10,928	0	0	0	0	0	7,440
60 - 64	101,966	0	4,665	26,613	32,907	8,714	0	0	0	6,799	184	4,017	0	3,612	0	0	0	14,457
65+	108,215	11,018	9,498	5,829	53,078	0	0	2,393	0	15,285	0	3,612	1,456	0	0	0	0	6,046

Table 2.33: Distribution of Female Household Members by Age and Nature of Main occupations

Age Group	Female																	
	Total	Wage labor (Farm/Livestock)	Wage labor (Non farm/Non-Livestock)	Salaried Employee	Self employed (Farm/Livestock)	Self employed/ Employed enterprise	Transport Owner/ Business	Self employed (Fishing)	Wage labor (Fishing)	Hawker/ Vender/ Wholesale trade	Domes tic help	Carpentry /Masonry	Electrici an/ Repair work	Self employed (Forest products)	Wage labor (Forest products)	Self employed (Bodaboda)	Wage labor (Bodaboda)	Other (Specify)
Total	6,744,937	389,654	264,632	572,790	4,019,597	126,506	50,059	9,617	2,451	831,688	55,556	3,128	3,700	14,224	1,514	888	276	398,656
15 - 19	339,194	9,151	9,672	59,027	202,687	3,946	0	0	0	11,176	28,096	1,095	0	0	0	0	0	14,345
20 - 24	743,481	36,269	27,121	84,748	437,004	18,271	2,037	1,068	0	78,283	10,393	689	0	0	0	0	276	47,324
25 - 29	881,837	40,817	51,245	124,006	438,777	17,255	3,598	1,263	1,263	134,906	1,527	1,068	0	3,552	0	0	0	62,561
30 - 34	997,011	51,838	51,902	94,035	535,848	22,376	12,679	0	0	155,878	5,696	276	0	0	0	888	0	65,595
35 - 39	900,526	41,613	23,621	61,909	528,035	28,083	10,736	3,317	0	158,777	2,956	0	0	767	0	0	0	40,712
40 - 44	768,945	51,455	36,738	48,635	434,535	10,551	767	1,968	0	122,229	2,204	0	0	2,964	0	0	0	56,899
45 - 49	589,907	38,868	19,467	34,475	362,760	12,713	9,002	1,322	0	65,494	573	0	0	4,638	0	0	0	40,595
50 - 54	553,658	38,123	25,495	35,354	379,591	6,134	2,294	678	0	32,027	382	0	3,700	0	1,514	0	0	28,366
55 - 59	319,119	25,080	5,634	25,362	207,510	2,192	7,455	0	1,189	21,606	1,920	0	0	1,262	0	0	0	19,909
60 - 64	314,301	28,645	9,113	3,527	223,576	1,541	1,492	0	0	33,127	1,432	0	0	1,042	0	0	0	10,805
65+	336,959	27,795	4,624	1,712	269,275	3,444	0	0	0	18,185	379	0	0	0	0	0	0	11,545

Table 2.33A: Distribution of Female Household Members by Age and Nature of Main occupations_Rural

Age Group	Female Rural																	
	Total	Wage labor (Farm/Livestock)	Wage labor (Non farm/Non-Livestock)	Salaried Employee	Self employed (Farm/Livestock)	Self employed/ Employed enterprise	Transport Owner/ Business	Self employed (Fishing)	Wage labor (Fishing)	Hawker/ Vendor/ Wholesale trade	Domestic help	Carpentry/ Masonry	Electrician/ Repair work	Self employed (Forest products)	Wage labor (Forest products)	Self employed (Bodaboda)	Wage labor (Bodaboda)	Other (Specify)
Total	4,828,276	332,411	94,077	110,884	3,672,930	54,026	7,066	5,231	2,451	286,070	16,277	2,164	0	8,544	0	888	276	234,983
15 - 19	234,508	7,173	2,529	8,546	195,796	191	0	0	0	5,601	2,847	1,095	0	0	0	0	0	10,730
20 - 24	561,557	29,372	17,536	16,538	408,467	9,580	942	0	0	42,767	4,042	0	0	0	0	0	276	32,037
25 - 29	599,995	36,299	14,393	32,791	408,424	11,597	792	1,263	1,263	48,261	1,336	1,068	0	2,669	0	0	0	39,838
30 - 34	676,350	50,783	18,222	10,858	500,015	8,986	2,749	0	0	51,247	1,750	0	0	0	0	888	0	30,851
35 - 39	622,460	34,139	7,261	7,183	476,740	9,516	1,514	0	0	59,858	1,333	0	0	0	0	0	0	24,916
40 - 44	531,300	42,491	11,035	10,497	396,874	3,975	0	1,968	0	30,599	2,204	0	0	2,688	0	0	0	28,968
45 - 49	414,455	31,234	7,423	5,215	318,236	5,141	0	1,322	0	21,475	382	0	0	883	0	0	0	23,145
50 - 54	417,641	30,631	7,811	5,447	342,961	2,498	1,068	678	0	9,511	382	0	0	0	0	0	0	16,654
55 - 59	240,704	22,890	1,881	11,418	184,742	870	0	0	1,189	5,159	379	0	0	1,262	0	0	0	10,915
60 - 64	237,074	20,491	3,101	678	196,808	0	0	0	0	5,968	1,244	0	0	1,042	0	0	0	7,743
65+	292,233	26,908	2,887	1,712	243,867	1,671	0	0	0	5,623	379	0	0	0	0	0	0	9,187

Table 2.33B: Distribution of Female Household Members by Age and Nature of Main occupations Urban

Age Group	Female Urban																	
	Total	Wage labor(Farm/Livestock)	Wage labor(Non farm/Non-Livestock)	Salaried Employee	Self employed (Farm/ Livestock)	Self employed/ Employed enterprise	Transport Owner/Business	Self employed (Fishing)	Wage labor (Fishing)	Hawker/Vender/ Wholesale trade	Domestic help	Carpentry/Masonry	Electrician/Repair work	Self employed(Forest products)	Wage labor(Forest products)	Self employed(Bodaboda)	Wage labor (Bodaboda)	Other (Specify)
Total	1,916,661	57,244	170,555	461,906	346,667	72,480	42,993	4,386	0	545,618	39,280	964	3,700	5,680	1,514	0	0	163,673
15 - 19	104,687	1,978	7,143	50,481	6,891	3,755	0	0	0	5,575	25,249	0	0	0	0	0	0	3,615
20 - 24	181,924	6,896	9,584	68,210	28,537	8,690	1,095	1,068	0	35,516	6,351	689	0	0	0	0	0	15,287
25 - 29	281,842	4,518	36,852	91,215	30,353	5,658	2,806	0	0	86,644	191	0	0	883	0	0	0	22,723
30 - 34	320,661	1,055	33,680	83,178	35,833	13,389	9,930	0	0	104,631	3,946	276	0	0	0	0	0	34,744
35 - 39	278,066	7,474	16,360	54,726	51,294	18,568	9,222	3,317	0	98,919	1,623	0	0	767	0	0	0	15,796
40 - 44	237,645	8,964	25,703	38,138	37,661	6,576	767	0	0	91,631	0	0	0	276	0	0	0	27,931
45 - 49	175,452	7,634	12,045	29,260	44,524	7,573	9,002	0	0	44,019	191	0	0	3,755	0	0	0	17,450
50 - 54	136,017	7,492	17,685	29,907	36,630	3,636	1,226	0	0	22,517	0	0	3,700	0	1,514	0	0	11,712
55 - 59	78,415	2,190	3,754	13,944	22,768	1,322	7,455	0	0	16,448	1,541	0	0	0	0	0	0	8,994
60 - 64	77,226	8,154	6,012	2,848	26,769	1,541	1,492	0	0	27,160	188	0	0	0	0	0	0	3,062
65+	44,726	887	1,737	0	25,408	1,773	0	0	0	12,561	0	0	0	0	0	0	0	2,359

Table 2.31: Distribution of Household Members by Main occupations and Time spent

Occupation	TOTAL						
	Total	Less than 1 Year	1-2 Years	3-4 Years	5-9 Years	10-14 years	15+ Years
Total	16,245,566	618,461	1,838,458	1,812,369	3,119,672	2,208,263	6,648,343
Legislators, administrators and managers	72,850	0	10,678	4,599	23,752	15,883	17,939
Professionals	211,855	9,362	45,747	27,772	50,155	30,931	47,889
Technicians and associate professionals	475,420	10,381	67,330	64,068	118,881	53,841	160,919
Clerks	69,400	11,039	5,722	16,419	22,125	2,408	11,687
Service workers and shop sales workers	2,000,184	246,493	474,933	329,648	475,007	205,472	268,630
Agricultural and fishery workers	10,394,020	94,379	657,654	864,450	1,745,963	1,472,376	5,559,197
Craft and related workers	1,124,141	46,780	195,111	158,528	242,454	202,526	278,742
Plant and machine operators and assemblers	544,677	49,522	121,345	113,109	142,845	60,056	57,801
Elementary occupations	1,353,018	150,505	259,938	233,776	298,491	164,770	245,539

Table 2.31A: Distribution of Household Members by Main occupations and Time spent _Rural

Occupation	RURAL						
	Total	Less than 1 Year	1-2 Years	3-4 Years	5-9 Years	10-14 years	15+ Years
Total	11,492,801	225,353	1,031,097	1,134,480	1,979,126	1,620,976	5,501,769
Legislators, administrators and managers	24,263	0	7,388	854	3,343	6,127	6,550
Professionals	31,317	849	8,301	2,049	6,431	2,334	11,352
Technicians and associate professionals	193,876	1,465	29,555	32,911	36,363	25,155	68,426
Clerks	11,855	2,041	3,323	4,320	0	0	2,171
Service workers and shop sales workers	531,600	49,426	126,042	97,235	114,394	61,344	83,160
Agricultural and fishery workers	9,486,480	72,034	596,215	785,185	1,583,063	1,349,299	5,100,684
Craft and related workers	498,085	20,489	89,818	66,325	101,543	94,439	125,470
Plant and machine operators and assemblers	139,904	17,849	45,081	38,817	22,756	11,285	4,116
Elementary occupations	575,421	61,199	125,374	106,783	111,232	70,993	99,840

Table 2.31B: Distribution of Household Members by Main occupations and Time spent _Urban

Occupation	URBAN						
	Total	Less than 1 Year	1-2 Years	3-4 Years	5-9 Years	10-14 years	15+ Years
Total	4,752,765	393,108	807,361	677,889	1,140,546	587,287	1,146,574
Legislators, administrators and managers	48,587	0	3,290	3,745	20,409	9,755	11,389
Professionals	180,538	8,513	37,446	25,723	43,723	28,597	36,536
Technicians and associate professionals	281,545	8,916	37,775	31,157	82,518	28,686	92,493
Clerks	57,545	8,997	2,399	12,100	22,125	2,408	9,516
Service workers and shop sales workers	1,468,584	197,068	348,891	232,413	360,613	144,128	185,471
Agricultural and fishery workers	907,540	22,345	61,440	79,265	162,899	123,078	458,513
Craft and related workers	626,056	26,291	105,293	92,202	140,911	108,087	153,272
Plant and machine operators and assemblers	404,773	31,673	76,264	74,291	120,088	48,771	53,685
Elementary occupations	777,597	89,305	134,565	126,993	187,259	93,776	145,699

Table 2.32: Distribution of Male Household Members by Main occupations and Time spent

Occupation	Male						
	Total	Less than 1 Year	1-2 Years	3-4 Years	5-9 Years	10-14 years	15+ Years
Total	9,441,994	301,060	980,231	1,036,491	1,913,453	1,329,775	3,880,983
Legislators, administrators and managers	59,277	0	7,787	3,831	16,353	15,116	16,189
Professionals	134,903	9,362	29,717	16,284	33,391	16,038	30,111
Technicians and associate professionals	292,451	7,039	35,564	32,369	80,709	37,159	99,611
Clerks	26,263	2,852	2,271	1,996	13,541	2,408	3,194
Service workers and shop sales workers	1,039,212	85,309	193,855	165,635	292,987	127,742	173,685
Agricultural and fishery workers	5,847,559	63,988	367,730	483,964	1,012,226	817,223	3,102,427
Craft and related workers	871,786	28,189	134,868	115,249	182,137	162,198	249,144
Plant and machine operators and assemblers	530,222	48,659	120,101	110,727	135,892	58,754	56,089
Elementary occupations	640,322	55,662	88,337	106,436	146,216	93,137	150,533

Table 2.32A: Distribution of Male Household Members by Main occupations and Time spent _Rural

Occupation	Male Rural						
	Total	Less than 1 Year	1-2 Years	3-4 Years	5-9 Years	10-14 years	15+ Years
Total	6,620,853	128,258	582,397	665,824	1,166,299	935,151	3,142,923
Legislators, administrators and managers	21,272	0	5,742	854	3,343	5,361	5,972
Professionals	21,839	849	7,057	2,049	4,372	1,053	6,459
Technicians and associate professionals	126,142	564	15,948	20,820	25,347	16,471	46,992
Clerks	4,114	761	773	1,731	0	0	849
Service workers and shop sales workers	287,494	16,966	61,340	53,615	63,287	37,520	54,766
Agricultural and fishery workers	5,338,245	52,728	335,093	447,636	916,419	741,559	2,844,810
Craft and related workers	397,531	14,026	64,247	49,106	73,641	83,527	112,984
Plant and machine operators and assemblers	134,503	17,573	45,081	38,817	18,934	9,982	4,116
Elementary occupations	289,712	24,789	47,116	51,195	60,956	39,678	65,977

Table 2.32B: Distribution of Male Household Members by Main occupations and Time spent _Urban

Occupation	Male Urban						
	Total	Less than 1 Year	1-2 Years	3-4 Years	5-9 Years	10-14 years	15+ Years
Total	2,821,141	172,802	397,834	370,668	747,155	394,624	738,060
Legislators, administrators and managers	38,005	0	2,046	2,977	13,010	9,755	10,218
Professionals	113,064	8,513	22,660	14,234	29,020	14,985	23,652
Technicians and associate professionals	166,309	6,474	19,616	11,548	55,362	20,688	52,620
Clerks	22,149	2,091	1,498	265	13,541	2,408	2,345
Service workers and shop sales workers	751,718	68,342	132,515	112,020	229,700	90,222	118,919
Agricultural and fishery workers	509,313	11,260	32,637	36,329	95,807	75,664	257,617
Craft and related workers	474,255	14,163	70,621	66,143	108,496	78,672	136,160
Plant and machine operators and assemblers	395,719	31,086	75,020	71,910	116,959	48,771	51,973
Elementary occupations	350,610	30,873	41,221	55,241	85,260	53,459	84,556

Table 2.33: Distribution of Female Household Members by Main occupations and Time spent

Occupation	Female						
	Total	Less than 1 Year	1-2 Years	3-4 Years	5-9 Years	10-14 years	15+ Years
Total	6,803,572	317,401	858,227	775,878	1,206,218	878,488	2,767,360
Legislators, administrators and managers	13,573	0	2,890	768	7,399	767	1,749
Professionals	76,952	0	16,030	11,489	16,764	14,893	17,777
Technicians and associate professionals	182,969	3,343	31,766	31,700	38,172	16,682	61,307
Clerks	43,137	8,187	3,450	14,423	8,584	0	8,493
Service workers and shop sales workers	960,973	161,185	281,078	164,014	182,020	77,731	94,946
Agricultural and fishery workers	4,546,461	30,391	289,924	380,486	733,736	655,153	2,456,771
Craft and related workers	252,355	18,591	60,243	43,278	60,317	40,328	29,598
Plant and machine operators and assemblers	14,455	863	1,244	2,382	6,952	1,302	1,712
Elementary occupations	712,696	94,843	171,601	127,339	152,275	71,633	95,006

Table 2.33A: Distribution of Female Household Members by Main occupations and Time spent Rural

Occupation	Female Rural						
	Total	Less than 1 Year	1-2 Years	3-4 Years	5-9 Years	10-14 years	15+ Years
Total	4,871,948	97,095	448,700	468,656	812,827	685,825	2,358,845
Legislators, administrators and managers	2,991	0	1,646	0	0	767	578
Professionals	9,478	0	1,244	0	2,060	1,281	4,894
Technicians and associate professionals	67,734	901	13,608	12,091	11,016	8,684	21,434
Clerks	7,741	1,281	2,550	2,589	0	0	1,322
Service workers and shop sales workers	244,106	32,459	64,703	43,620	51,106	23,824	28,394
Agricultural and fishery workers	4,148,234	19,306	261,122	337,550	666,644	607,739	2,255,874
Craft and related workers	100,554	6,463	25,571	17,219	27,902	10,913	12,487
Plant and machine operators and assemblers	5,401	276	0	0	3,823	1,302	0
Elementary occupations	285,709	36,410	78,257	55,588	50,276	31,315	33,863

Table 2.33B: Distribution of Female Household Members by Main occupations and Time spent_Urban

Occupation	Female Urban						
	Total	Less than 1 Year	1-2 Years	3-4 Years	5-9 Years	10-14 years	15+ Years
Total	1,931,624	220,306	409,527	307,222	393,391	192,663	408,514
Legislators, administrators and managers	10,582	0	1,244	768	7,399	0	1,171
Professionals	67,474	0	14,786	11,489	14,704	13,612	12,884
Technicians and associate professionals	115,236	2,442	18,159	19,609	27,155	7,998	39,873
Clerks	35,396	6,906	901	11,835	8,584	0	7,171
Service workers and shop sales workers	716,866	128,725	216,376	120,393	130,914	53,906	66,552
Agricultural and fishery workers	398,227	11,085	28,803	42,936	67,092	47,414	200,896
Craft and related workers	151,801	12,128	34,672	26,059	32,415	29,415	17,112
Plant and machine operators and assemblers	9,054	587	1,244	2,382	3,130	0	1,712
Elementary occupations	426,987	58,433	93,344	71,752	101,998	40,318	61,143

Table 2.41: Distribution of Household Members by Main Economic Activity and Number Days spent in the last 12 months

Occupation	Number of Days spent in the last 12 Month							
	Total	less than 30 days	30 -59	60-119	120-179	180-239	240-299	300-366
Total	16,245,566	172,193	155,985	288,691	562,651	746,991	4,620,790	9698264
Legislators, administrators and managers	72,850	0	762	1,143	0	1,002	26,236	43706
Professionals	211,855	0	0	7,930	2,359	2,817	100,582	98167
Technicians and associate professionals	475,420	4,647	4,757	7,753	8,607	15,970	265,727	167959
Clerks	69,400	0	0	1,859	1,232	0	25,195	41115
Service workers and shop sales workers	2,000,184	13,267	15,821	27,562	38,247	28,582	288,514	1588192
Agricultural and fishery workers	10,394,020	113,570	85,813	157,885	383,274	562,581	3,184,150	5906747
Craft and related workers	1,124,141	9,784	15,145	27,624	74,906	69,149	298,610	628922
Plant and machine operators and assemblers	544,677	0	6,985	10,848	1,755	14,803	115,824	394463
Elementary occupations	1,353,018	30,925	26,702	46,086	52,271	52,088	315,952	828994

Table 2.41A: Distribution of Household Members by Main Economic Activity and Number Days spent in the last 12 months Rural

Occupation	RURAL							
	Total	less than 30 days	30 -59	60-119	120-179	180-239	240-299	300-366
Total	11,492,801	140,087	119,182	196,505	450,211	587,990	3,410,127	6588699
Legislators, administrators and managers	24,263	0	762	1,143	0	1,002	8,309	13047
Professionals	31,317	0	0	0	854	1,674	10,135	18654
Technicians and associate professionals	193,876	4,647	4,757	5,350	4,204	7,514	112,580	54823
Clerks	11,855	0	0	1,859	0	0	4,498	5499
Service workers and shop sales workers	531,600	9,663	8,216	14,772	9,387	10,625	77,911	401027
Agricultural and fishery workers	9,486,480	109,151	78,544	138,354	350,296	489,414	2,897,779	5422942
Craft and related workers	498,085	5,901	10,480	11,429	49,416	38,333	136,676	245850
Plant and machine operators and assemblers	139,904	0	534	3,894	1,755	2,701	27,604	103416
Elementary occupations	575,421	10,726	15,888	19,704	34,298	36,727	134,636	323441

Table 2.41B: Distribution of Household Members by Main Economic Activity and Number Days spent in the last 12 months Urban

Occupation	URBAN							
	Total	less than 30 days	30 -59	60-119	120-179	180-239	240-299	300-366
Total	4,752,765	32,105	36,803	92,186	112,441	159,002	1,210,663	3109565
Legislators, administrators and managers	48,587	0	0	0	0	0	17,928	30660
Professionals	180,538	0	0	7,930	1,504	1,143	90,448	79512
Technicians and associate professionals	281,545	0	0	2,403	4,403	8,456	153,147	113136
Clerks	57,545	0	0	0	1,232	0	20,697	35616
Service workers and shop sales workers	1,468,584	3,605	7,605	12,790	28,860	17,957	210,602	1187165
Agricultural and fishery workers	907,540	4,419	7,269	19,531	32,978	73,167	286,371	483805
Craft and related workers	626,056	3,883	4,665	16,196	25,490	30,816	161,934	383072
Plant and machine operators and assemblers	404,773	0	6,450	6,954	0	12,102	88,220	291047
Elementary occupations	777,597	20,198	10,814	26,382	17,973	15,360	181,316	505553

Table 2.42: Distribution of Male Household Members by Main Economic Activity and Number Days spent in the last 12 months

Occupation	Male							
	Total	less than 30 days	30 -59	60-119	120-179	180-239	240-299	300-366
Total	9,441,994	92,909	93,686	169,193	341,909	423,790	2,592,061	5728445
Legislators, administrators and managers	59,277	0	762	1,143	0	1,002	16,941	39429
Professionals	134,903	0	0	7,930	2,359	2,049	59,187	63378
Technicians and associate professionals	292,451	3,578	4,757	5,987	4,403	13,674	151,478	108574
Clerks	26,263	0	0	0	1,232	0	5,913	19119
Service workers and shop sales workers	1,039,212	7,132	4,936	8,103	15,315	8,683	144,978	850065
Agricultural and fishery workers	5,847,559	61,951	57,175	89,472	223,631	296,409	1,729,452	3389469
Craft and related workers	871,786	5,909	14,379	16,321	63,894	48,094	215,391	507798
Plant and machine operators and assemblers	530,222	0	6,985	10,848	1,755	14,216	110,983	385436
Elementary occupations	640,322	14,339	4,693	29,390	29,321	39,663	157,738	365178

Table 2.42A: Distribution of Male Household Members by Main Economic Activity and Number Days spent in the last 12 months Rural

Occupation	Male Rural							
	Total	less than 30 days	30 -59	60-119	120-179	180-239	240-299	300-366
Total	6,620,853	74,061	74,417	114,160	281,055	324,334	1,906,247	3846578
Legislators, administrators and managers	21,272	0	762	1,143	0	1,002	5,896	12469
Professionals	21,839	0	0	0	854	906	5,521	14558
Technicians and associate professionals	126,142	3,578	4,757	4,772	0	5,218	72,669	35148
Clerks	4,114	0	0	0	0	0	1,731	2383
Service workers and shop sales workers	287,494	3,527	3,206	5,103	8,037	2,503	40,140	224978
Agricultural and fishery workers	5,338,245	57,531	51,618	79,069	205,706	254,340	1,575,967	3114015
Craft and related workers	397,531	3,764	9,714	9,278	47,211	28,481	101,313	197771
Plant and machine operators and assemblers	134,503	0	534	3,894	1,755	2,701	27,604	98015
Elementary occupations	289,712	5,660	3,826	10,901	17,492	29,183	75,408	147242

Table 2.42B: Distribution of Male Household Members by Main Economic Activity and Number Days spent in the last 12 months Urban

Occupation	Male Urban							
	Total	less than 30 days	30 -59	60-119	120-179	180-239	240-299	300-366
Total	2,821,141	18,848	19,269	55,033	60,854	99,456	685,814	1881867
Legislators, administrators and managers	38,005	0	0	0	0	0	11,045	26960
Professionals	113,064	0	0	7,930	1,504	1,143	53,665	48820
Technicians and associate professionals	166,309	0	0	1,214	4,403	8,456	78,809	73426
Clerks	22,149	0	0	0	1,232	0	4,182	16735
Service workers and shop sales workers	751,718	3,605	1,731	3,000	7,278	6,179	104,838	625087
Agricultural and fishery workers	509,313	4,419	5,557	10,403	17,926	42,069	153,485	275454
Craft and related workers	474,255	2,145	4,665	7,043	16,682	19,613	114,079	310027
Plant and machine operators and assemblers	395,719	0	6,450	6,954	0	11,515	83,379	287421
Elementary occupations	350,610	8,678	866	18,489	11,829	10,480	82,331	217936

Table 2.43: Distribution of Female Household Members by Main Economic Activity and Number Days spent in the last 12 months

Occupation	Female							
	Total	less than 30 days	30 -59	60-119	120-179	180-239	240-299	300-366
Total	6,803,572	79,284	62,299	119,498	220,742	323,201	2,028,729	3969819
Legislators, administrators and managers	13,573	0	0	0	0	0	9,295	4278
Professionals	76,952	0	0	0	0	768	41,396	34789
Technicians and associate professionals	182,969	1,068	0	1,767	4,204	2,297	114,249	59385
Clerks	43,137	0	0	1,859	0	0	19,282	21996
Service workers and shop sales workers	960,973	6,135	10,885	19,459	22,932	19,899	143,535	738127
Agricultural and fishery workers	4,546,461	51,620	28,638	68,413	159,643	266,172	1,454,698	2517277
Craft and related workers	252,355	3,874	767	11,304	11,013	21,055	83,219	121124
Plant and machine operators and assemblers	14,455	0	0	0	0	587	4,841	9027
Elementary occupations	712,696	16,586	22,010	16,697	22,950	12,424	158,214	463816

Table 2.43A: Distribution of Female Household Members by Main Economic Activity and Number Days spent in the last 12 months Rural

Occupation	Female Rural							
	Total	less than 30 days	30 -59	60-119	120-179	180-239	240-299	300-366
Total	4,871,948	66,026	44,765	82,345	169,155	263,656	1,503,880	2742121
Legislators, administrators and managers	2,991	0	0	0	0	0	2,413	578
Professionals	9,478	0	0	0	0	768	4,614	4097
Technicians and associate professionals	67,734	1,068	0	578	4,204	2,297	39,911	19675
Clerks	7,741	0	0	1,859	0	0	2,767	3115
Service workers and shop sales workers	244,106	6,135	5,010	9,669	1,349	8,121	37,771	176049
Agricultural and fishery workers	4,148,234	51,620	26,926	59,284	144,591	235,074	1,321,812	2308927
Craft and related workers	100,554	2,137	767	2,151	2,205	9,852	35,364	48079
Plant and machine operators and assemblers	5,401	0	0	0	0	0	0	5401
Elementary occupations	285,709	5,066	12,062	8,803	16,807	7,544	59,228	176200

Table 2.43B: Distribution of Female Household Members by Main Economic Activity and Number Days spent in the last 12 months Urban

Occupation	Female Urban							
	Total	less than 30 days	30 -59	60-119	120-179	180-239	240-299	300-366
Total	1,931,624	13,257	17,534	37,153	51,587	59,546	524,850	1227698
Legislators, administrators and managers	10,582	0	0	0	0	0	6,882	3700
Professionals	67,474	0	0	0	0	0	36,782	30692
Technicians and associate professionals	115,236	0	0	1,189	0	0	74,337	39710
Clerks	35,396	0	0	0	0	0	16,515	18881
Service workers and shop sales workers	716,866	0	5,874	9,790	21,583	11,778	105,764	562078
Agricultural and fishery workers	398,227	0	1,712	9,128	15,053	31,098	132,886	208351
Craft and related workers	151,801	1,737	0	9,153	8,808	11,203	47,855	73045
Plant and machine operators and assemblers	9,054	0	0	0	0	587	4,841	3626
Elementary occupations	426,987	11,520	9,948	7,893	6,144	4,880	98,985	287617

Table 2.51: Distribution of Household Members by Main Economic Activity and Amount Earned per Month

Occupation	Amount Earned per Month							
	Total	< 100,000	100,000-199,999	200,000-299,999	300,000-399,999	400,000-499,999	500,000-599,999	600,000 and above
Total	16,245,566	9,737,506	1,561,056	1,679,146	1,191,743	536,565	663,394	876,156
Legislators, administrators and managers	72,850	14,265	1,197	6,777	9,031	3,550	3,446	34,585
Professionals	211,855	5,859	7,810	11,218	31,246	13,300	22,189	120,233
Technicians and associate professionals	475,420	42,388	12,562	44,119	92,419	70,493	67,783	145,656
Clerks	69,400	5,264	4,680	12,657	6,630	11,733	12,484	15,953
Service workers and shop sales workers	2,000,184	844,996	230,146	270,035	237,481	116,087	160,988	140,451
Agricultural and fishery workers	10,394,020	7,527,408	909,915	875,082	443,509	169,505	231,528	237,074
Craft and related workers	1,124,141	471,059	127,286	187,114	139,639	57,761	67,750	73,531
Plant and machine operators and assemblers	544,677	126,563	64,817	98,802	117,498	41,193	43,605	52,198
Elementary occupations	1,353,018	699,705	202,644	173,341	114,290	52,943	53,620	56,476

Table 2.51A: Distribution of Household Members by Main Economic Activity and Amount Earned per Month Rural

Occupation	RURAL							
	Total	< 100,000	100,000-199,999	200,000-299,999	300,000-399,999	400,000-499,999	500,000-599,999	600,000 and above
Total	11,492,801	8,104,127	1,014,870	998,591	570,821	231,515	269,159	303,718
Legislators, administrators and managers	24,263	9,421	0	5,923	5,561	1,456	1,053	849
Professionals	31,317	4,380	1,244	6,512	3,358	2,919	2,992	9911
Technicians and associate professionals	193,876	29,865	3,805	15,497	40,715	27,961	30,996	45,037
Clerks	11,855	5,264	1,244	1,445	849	0	1,731	1,322
Service workers and shop sales workers	531,600	323,130	57,309	54,554	44,361	15,188	17,554	19,505
Agricultural and fishery workers	9,486,480	6,984,948	809,332	769,991	380,927	155,753	196,951	188,578
Craft and related workers	498,085	301,280	53,084	73,718	39,475	9,180	8,121	13,226
Plant and machine operators and assemblers	139,904	63,055	28,297	13,442	25,501	7,340	573	1,696
Elementary occupations	575,421	382,784	60,555	57,510	30,074	11,718	9,187	23,593

Table 2.51B: Distribution of Household Members by Main Economic Activity and Amount Earned per Month Urban

Occupation	URBAN							
	Total	< 100,000	100,000-199,999	200,000-299,999	300,000-399,999	400,000-499,999	500,000-599,999	600,000 and above
Total	4,752,765	1,633,380	546,187	680,556	620,921	305,049	394,235	572437
Legislators, administrators and managers	48,587	4,844	1,197	854	3,470	2,093	2,393	33735
Professionals	180,538	1,478	6,566	4,706	27,888	10,381	19,197	110322
Technicians and associate professionals	281,545	12,523	8,758	28,622	51,703	42,532	36,787	100620
Clerks	57,545	0	3,436	11,212	5,781	11,733	10,753	14631
Service workers and shop sales workers	1,468,584	521,867	172,837	215,482	193,121	100,899	143,433	120946
Agricultural and fishery workers	907,540	542,460	100,583	105,091	62,582	13,753	34,578	48495
Craft and related workers	626,056	169,779	74,202	113,396	100,164	48,581	59,629	60304
Plant and machine operators and assemblers	404,773	63,508	36,520	85,361	91,997	33,854	43,032	50502
Elementary occupations	777,597	316,921	142,089	115,831	84,216	41,225	44,433	32882

Table 2.52: Distribution of Male Household Members by Main Economic Activity and Amount Earned per Month

Occupation	Male							
	Total	< 100,000	100,000-199,999	200,000-299,999	300,000-399,999	400,000-499,999	500,000-599,999	600,000 and above
Total	9,441,994	4,957,635	949,610	1,185,183	861,974	362,959	463,375	661259
Legislators, administrators and managers	59,277	14,265	1,197	6,010	5,635	2,306	3,446	26418
Professionals	134,903	5,091	854	8,911	18,827	5,613	8,327	87280
Technicians and associate professionals	292,451	30,309	10,417	25,017	51,019	34,383	36,716	104590
Clerks	26,263	1,534	2,357	4,844	3,688	1,740	2,468	9632
Service workers and shop sales workers	1,039,212	294,545	122,164	181,877	156,109	73,904	113,702	96911
Agricultural and fishery workers	5,847,559	3,917,529	559,637	599,829	314,424	118,386	167,779	169976
Craft and related workers	871,786	320,432	96,438	159,670	120,500	51,960	52,954	69831
Plant and machine operators and assemblers	530,222	121,037	64,542	95,055	114,473	39,891	43,605	51620
Elementary occupations	640,322	252,893	92,005	103,969	77,299	34,777	34,378	45001

Table 2.52A: Distribution of Male Household Members by Main Economic Activity and Amount Earned per Month Rural

Occupation	Male Rural							
	Total	< 100,000	100,000-199,999	200,000-299,999	300,000-399,999	400,000-499,999	500,000-599,999	600,000 and above
Total	6,620,853	4,265,682	643,141	712,621	417,520	157,862	190,629	233399
Legislators, administrators and managers	21,272	9,421	0	5,156	3,336	1,456	1,053	849
Professionals	21,839	3,613	0	5,231	2,078	1,893	2,992	6033
Technicians and associate professionals	126,142	22,244	3,805	9,152	28,438	14,423	16,424	31656
Clerks	4,114	1,534	0	0	849	0	1,731	0
Service workers and shop sales workers	287,494	142,668	37,041	37,445	32,353	10,051	11,756	16181
Agricultural and fishery workers	5,338,245	3,647,413	498,895	530,566	268,866	108,811	141,321	142373
Craft and related workers	397,531	219,229	44,394	69,976	35,051	9,180	6,475	13226
Plant and machine operators and assemblers	134,503	61,811	28,022	12,662	23,702	6,037	573	1696
Elementary occupations	289,712	157,750	30,985	42,431	22,848	6,010	8,304	21384

Table 2.52B: Distribution of Male Household Members by Main Economic Activity and Amount Earned per Month Urban

Occupation	Male Urban							
	Total	< 100,000	100,000-199,999	200,000-299,999	300,000-399,999	400,000-499,999	500,000-599,999	600,000 and above
Total	2,821,141	691,953	306,469	472,562	444,454	205,097	272,746	427859
Legislators, administrators and managers	38,005	4,844	1,197	854	2,299	849	2,393	25569
Professionals	113,064	1,478	854	3,679	16,749	3,720	5,335	81247
Technicians and associate professionals	166,309	8,065	6,612	15,865	22,580	19,960	20,292	72934
Clerks	22,149	0	2,357	4,844	2,839	1,740	737	9632
Service workers and shop sales workers	751,718	151,877	85,123	144,432	123,756	63,853	101,946	80730
Agricultural and fishery workers	509,313	270,115	60,743	69,262	45,558	9,575	26,458	27602
Craft and related workers	474,255	101,204	52,044	89,694	85,450	42,780	46,479	56605
Plant and machine operators and assemblers	395,719	59,226	36,520	82,392	90,771	33,854	43,032	49924
Elementary occupations	350,610	95,144	61,019	61,538	54,451	28,767	26,073	23617

Table 2.53: Distribution of Female Household Members by Main Economic Activity and Amount Earned per Month

Occupation	Female							
	Total	< 100,000	100,000-199,999	200,000-299,999	300,000-399,999	400,000-499,999	500,000-599,999	600,000 and above
Total	6,803,572	4,779,871	611,447	493,964	329,769	173,606	200,019	214897
Legislators, administrators and managers	13,573	0	0	767	3,396	1,244	0	8167
Professionals	76,952	768	6,956	2,307	12,419	7,688	13,862	32954
Technicians and associate professionals	182,969	12,079	2,146	19,102	41,400	36,110	31,067	41066
Clerks	43,137	3,730	2,323	7,813	2,942	9,993	10,016	6321
Service workers and shop sales workers	960,973	550,451	107,982	88,158	81,372	42,183	47,286	43540
Agricultural and fishery workers	4,546,461	3,609,879	350,277	275,253	129,085	51,119	63,749	67098
Craft and related workers	252,355	150,626	30,849	27,444	19,139	5,800	14,796	3700
Plant and machine operators and assemblers	14,455	5,526	276	3,748	3,025	1,302	0	578
Elementary occupations	712,696	446,811	110,639	69,372	36,991	18,166	19,242	11474

Table 2.53A: Distribution of Female Household Members by Main Economic Activity and Amount Earned per Month Rural

Occupation	Female Rural							
	Total	< 100,000	100,000-199,999	200,000-299,999	300,000-399,999	400,000-499,999	500,000-599,999	600,000 and above
Total	4,871,948	3,838,445	371,729	285,970	153,302	73,654	78,530	70319
Legislators, administrators and managers	2,991	0	0	767	2,225	0	0	0
Professionals	9,478	768	1,244	1,281	1,281	1,026	0	3879
Technicians and associate professionals	67,734	7,622	0	6,345	12,277	13,538	14,572	13380
Clerks	7,741	3,730	1,244	1,445	0	0	0	1322
Service workers and shop sales workers	244,106	180,462	20,268	17,109	12,008	5,137	5,798	3324
Agricultural and fishery workers	4,148,234	3,337,535	310,437	239,424	112,061	46,942	55,630	46205
Craft and related workers	100,554	82,051	8,690	3,742	4,424	0	1,646	0
Plant and machine operators and assemblers	5,401	1,244	276	779	1,800	1,302	0	0
Elementary occupations	285,709	225,034	29,569	15,079	7,226	5,708	883	2209

Table 2.53B: Distribution of Female Household Members by Main Economic Activity and Amount Earned per month Urban

Occupation	Female Urban							
	Total	< 100,000	100,000-199,999	200,000-299,999	300,000-399,999	400,000-499,999	500,000-599,999	600,000 and above
Total	1,931,624	941,426	239,718	207,993	176,468	99,952	121,489	144,578
Legislators, administrators and managers	10,582	0	0	0	1,171	1,244	0	8167
Professionals	67,474	0	5,712	1,026	11,139	6,661	13,862	29,075
Technicians and associate professionals	115,236	4,458	2,146	12,757	29,123	22,572	16,495	27,686
Clerks	35,396	0	1,079	6,368	2,942	9,993	10,016	4,999
Service workers and shop sales workers	716,866	369,989	87,714	71,050	69,364	37,046	41,488	40,216
Agricultural and fishery workers	398,227	272,344	39,840	35,829	17,024	4,178	8,119	20,893
Craft and related workers	151,801	68,575	22,158	23,703	14,715	5,800	13,150	3,700
Plant and machine operators and assemblers	9,054	4,282	0	2,968	1,226	0	0	578
Elementary occupations	426,987	221,777	81,070	54,293	29,765	12,458	18,359	9,265

Table 2.61: Distribution of Household Members by Age and Reasons not currently working

Age Group	Total										
	Total	Pensioner/ Interest earner	Housewife	Disable	Very old (65 years or above)	Children	student	Not working and looking for job	Not working and is not looking for job	Sick	Other (Specify)
Total	13,841,402	437,573	4,591,146	114,283	1,246,760	372,560	2,794,949	2,419,228	962,651	427,843	474,408
15 - 19	4,040,454	0	256,774	18,150	276	267,951	2,129,640	773,312	416,139	35,006	143,207
20 - 24	2,416,088	2,134	779,320	16,607	1,737	58,177	527,655	726,469	197,332	26,913	79,744
25 - 29	1,421,575	0	738,206	7,121	0	14,841	86,284	387,238	104,934	39,200	43,751
30 - 34	1,057,413	0	730,839	15,513	0	6,400	14,567	160,451	60,496	28,033	41,114
35 - 39	877,008	0	656,429	4,621	2,323	3,018	8,427	115,932	30,576	25,285	30,397
40 - 44	694,951	2,934	472,995	12,056	0	7,209	5,164	87,395	43,276	29,505	34,416
45 - 49	477,909	10,388	313,788	4,413	0	2,055	862	71,978	30,163	25,260	19,000
50 - 54	419,952	16,895	246,464	6,818	9,547	4,643	1,041	43,892	26,440	41,395	22,817
55 - 59	332,402	44,320	165,045	8,522	7,500	0	6,066	27,098	17,314	35,897	20,641
60 - 64	479,151	171,873	139,529	8,704	45,914	942	5,214	15,291	23,435	49,375	18,875
65+	1,624,499	189,029	91,758	11,757	1,179,463	7,324	10,030	10,172	12,545	91,975	20,447

Table 2.61A: Distribution of Household Members by Age and Reasons not currently working Rural

Age Group	RURAL										
	Total	Pensioner/Interest earne	Housewife	Disable	Very old(65 years or above)	Children	student	Not working and looking for job	Not working and is not looking for job	Sick	Other(Specify)
Total	8,437,597	156,336	2,776,196	86,880	944,232	297,590	1,480,319	1,339,140	729,885	272,167	354,852
15 - 19	2,683,179	0	194,051	15,001	276	229,075	1,263,577	507,810	337,489	22,934	112,965
20 - 24	1,286,435	919	483,010	14,807	1,737	36,746	173,071	371,265	137,151	12,300	55,427
25 - 29	772,646	0	427,382	5,755	0	8,578	19,897	180,380	72,411	26,342	31,903
30 - 34	639,596	0	434,963	13,842	0	2,591	9,660	87,363	47,351	21,409	22,417
35 - 39	504,510	0	369,887	1,988	2,323	2,239	2,551	59,501	25,386	17,488	23,148
40 - 44	432,893	1,737	302,381	9,321	0	7,209	2,260	42,115	26,201	19,401	22,265
45 - 49	272,100	7,186	167,818	2,463	0	2,055	0	34,985	21,139	17,453	19,000
50 - 54	270,631	7,464	156,997	4,486	5,103	4,643	186	27,611	23,580	21,652	18,909
55 - 59	194,073	14,504	99,613	7,860	4,390	0	1,456	12,823	14,870	23,542	15,014
60 - 64	235,086	46,039	75,695	4,048	32,455	942	1,514	11,352	14,570	33,600	14,871
65+	1,146,448	78,486	64,397	7,308	897,948	3,513	6,147	3,934	9,735	56,046	18,933

Table 2.61B: Distribution of Household Members by Age and Reasons not currently working Urban

Age Group	URBAN										
	Total	Pensioner/Interest earne	Housewife	Disable	Very old(65 years or above)	Children	student	Not working and looking for job	Not working and is not looking for job	Sick	Other(Specify)
Total	5,403,805	281,237	1,814,950	27,403	302,528	74,970	1,314,630	1,080,088	232,766	155,676	119,556
15 - 19	1,357,275	0	62,722	3,149	0	38,876	866,063	265,503	78,649	12,072	30,242
20 - 24	1,129,653	1,214	296,310	1,800	0	21,431	354,584	355,204	60,181	14,612	24,317
25 - 29	648,929	0	310,824	1,366	0	6,263	66,388	206,858	32,524	12,858	11,848
30 - 34	417,816	0	295,875	1,672	0	3,809	4,907	73,088	13,145	6,624	18,696
35 - 39	372,498	0	286,542	2,633	0	779	5,877	56,431	5,190	7,796	7,249
40 - 44	262,059	1,197	170,613	2,735	0	0	2,904	45,280	17,075	10,104	12,151
45 - 49	205,809	3,203	145,971	1,950	0	0	862	36,992	9,024	7,807	0
50 - 54	149,320	9,431	89,467	2,331	4,444	0	854	16,281	2,860	19,744	3,908
55 - 59	138,329	29,816	65,432	662	3,110	0	4,609	14,274	2,443	12,356	5,626
60 - 64	244,065	125,834	63,833	4,656	13,460	0	3,700	3,939	8,865	15,775	4,004
65+	478,051	110,543	27,361	4,449	281,515	3,811	3,883	6,238	2,810	35,928	1,514

Table 2.62: Distribution of Male Household Members by Age and Reasons not currently working

Age Group	Male										
	Total	Pensioner/Interest earne	Housewife	Disable	Very old(65 years or above)	Children	student	Not working and looking for job	Not working and is not looking for job	Sick	Other(Specify)
Total	4,838,287	340,527	33,337	58,556	402,186	207,974	1,521,521	1,399,526	500,402	166,560	207,699
15 - 19	2,009,282	0	3,721	10,515	0	159,092	1,126,473	420,328	216,155	13,589	59,409
20 - 24	960,798	2,134	4,017	11,655	0	21,281	329,213	426,290	117,982	11,042	37,184
25 - 29	334,155	0	672	3,145	0	6,582	41,173	207,733	44,181	13,820	16,849
30 - 34	163,469	0	6,593	6,266	0	3,584	7,374	94,045	21,042	10,459	14,105
35 - 39	136,484	0	4,916	3,553	0	2,239	6,476	80,698	19,990	6,780	11,833
40 - 44	143,102	1,197	2,814	8,529	0	5,928	5,164	66,966	21,972	14,714	15,819
45 - 49	106,015	5,112	2,577	1,575	0	2,055	862	46,342	21,923	15,867	9,701
50 - 54	86,927	13,345	1,634	1,069	1,197	4,643	1,041	27,197	12,777	12,622	11,404
55 - 59	88,439	28,627	1,069	3,541	761	0	2,311	16,828	10,134	9,664	15,505
60 - 64	175,053	125,555	2,826	3,161	6,676	0	0	9,736	7,830	11,982	7,287
65+	634,563	164,558	2,498	5,547	393,553	2,570	1,434	3,362	6,418	46,022	8,602

Table 2.62A: Distribution of Male Household Members by Age and Reasons not currently working Rural

Age Group	Male Rural										
	Total	Pensioner/Interest earne	Housewife	Disable	Very old(65 years or above)	Children	student	Not working and looking for job	Not working and is not looking for job	Sick	Other(Specify)
Total	3,036,246	122,168	19,026	52,153	311,549	190,272	811,150	857,637	407,722	98,725	165,845
15 - 19	1,388,470	0	3,049	9,036	0	148,856	675,551	304,049	180,666	11,209	56,054
20 - 24	513,552	919	0	11,655	0	19,115	111,535	243,039	93,257	3,884	30,148
25 - 29	184,102	0	0	3,145	0	5,637	10,138	116,426	33,064	5,274	10,418
30 - 34	108,824	0	2,927	5,386	0	662	7,105	57,240	18,577	9,711	7,215
35 - 39	81,354	0	1,250	919	0	2,239	1,668	43,681	18,936	4,440	8,221
40 - 44	83,760	0	1,760	8,529	0	5,928	2,260	34,159	14,203	6,621	10,298
45 - 49	72,900	4,847	2,577	1,575	0	2,055	0	23,805	17,290	11,050	9,701
50 - 54	55,555	4,857	1,069	1,069	1,197	4,643	186	19,207	10,804	3,838	8,685
55 - 59	45,128	9,946	1,069	2,879	0	0	1,456	5,598	9,255	4,855	10,069
60 - 64	78,788	34,512	2,826	3,161	6,676	0	0	9,553	5,253	10,374	6,433
65+	423,813	67,086	2,498	4,797	303,677	1,136	1,250	879	6,418	27,469	8,602

Table 2.62B: Distribution of Male Household Members by Age and Reasons not currently working Urban

Age Group	Male Urban										
	Total	Pensioner/Interest earner	Housewife	Disable	Very old(65 years or above)	Children	student	Not working and looking for job	Not working and is not looking for job	Sick	Other(Specify)
Total	1,802,041	218,359	14,311	6,403	90,637	17,702	710,371	541,890	92,680	67,835	41,854
15 - 19	620,812	0	672	1,478	0	10,236	450,922	116,279	35,489	2,380	3,355
20 - 24	447,246	1,214	4,017	0	0	2,166	217,678	183,252	24,725	7,158	7,036
25 - 29	150,053	0	672	0	0	944	31,036	91,307	11,117	8,546	6,431
30 - 34	54,645	0	3,666	879	0	2,921	269	36,805	2,466	748	6,890
35 - 39	55,129	0	3,666	2,633	0	0	4,808	37,017	1,053	2,340	3,612
40 - 44	59,342	1,197	1,053	0	0	0	2,904	32,807	7,769	8,092	5,521
45 - 49	33,114	265	0	0	0	0	862	22,537	4,633	4,818	0
50 - 54	31,372	8,488	564	0	0	0	854	7,990	1,973	8,783	2,719
55 - 59	43,311	18,681	0	662	761	0	854	11,230	879	4,808	5,436
60 - 64	96,265	91,043	0	0	0	0	0	184	2,577	1,607	854
65+	210,751	97,471	0	749	89,876	1,434	184	2,483	0	18,553	0

Table 2.63: Distribution of Female Household Members by Age and Reasons not currently working

Age Group	Female										
	Total	Pensioner/Interest earner	Housewife	Disable	Very old(65 years or above)	Children	student	Not working and looking for job	Not working and is not looking for job	Sick	Other(Specify)
Total	9,003,115	97,046	4,557,809	55,727	844,574	164,586	1,273,428	1,019,702	462,248	261,284	266,709
15 - 19	2,031,173	0	253,053	7,636	276	108,859	1,003,167	352,984	199,984	21,417	83,798
20 - 24	1,455,290	0	775,303	4,951	1,737	36,896	198,442	300,179	79,350	15,871	42,560
25 - 29	1,087,420	0	737,534	3,975	0	8,259	45,111	179,505	60,753	25,380	26,902
30 - 34	893,944	0	724,245	9,248	0	2,817	7,193	66,406	39,453	17,574	27,008
35 - 39	740,524	0	651,513	1,068	2,323	779	1,951	35,234	10,586	18,505	18,564
40 - 44	551,849	1,737	470,181	3,527	0	1,281	0	20,429	21,305	14,792	18,597
45 - 49	371,894	5,277	311,211	2,839	0	0	0	25,635	8,240	9,393	9,299
50 - 54	333,024	3,550	244,830	5,748	8,350	0	0	16,695	13,664	28,774	11,412
55 - 59	243,963	15,693	163,976	4,981	6,739	0	3,755	10,270	7,180	26,234	5,136
60 - 64	304,098	46,318	136,703	5,543	39,239	942	5,214	5,555	15,605	37,393	11,588
65+	989,936	24,472	89,260	6,210	785,910	4,754	8,596	6,810	6,128	45,953	11,845

Table 2.63A: Distribution of Female Household Members by Age and Reasons not currently working Rural

	Female Rural										
	Total	Pensioner/Interest earne	Housewife	Disable	Very old(65 years or above)	Children	student	Not working and looking for job	Not working and is not looking for job	Sick	Other(Specify)
Total	5,401,351	34,168	2,757,170	34,727	632,683	107,318	669,169	481,503	322,163	173,442	189,007
15 - 19	1,294,709	0	191,002	5,965	276	80,219	588,026	203,760	156,823	11,725	56,911
20 - 24	772,883	0	483,010	3,152	1,737	17,631	61,536	128,227	43,895	8,417	25,279
25 - 29	588,545	0	427,382	2,609	0	2,940	9,759	63,954	39,346	21,068	21,486
30 - 34	530,772	0	432,036	8,455	0	1,928	2,555	30,123	28,774	11,698	15,202
35 - 39	423,155	0	368,637	1,068	2,323	0	883	15,820	6,450	13,048	14,927
40 - 44	349,133	1,737	300,621	792	0	1,281	0	7,956	11,999	12,780	11,967
45 - 49	199,199	2,339	165,241	888	0	0	0	11,180	3,849	6,403	9,299
50 - 54	215,076	2,607	155,928	3,417	3,907	0	0	8,404	12,776	17,813	10,224
55 - 59	148,945	4,558	98,544	4,981	4,390	0	0	7,225	5,616	18,686	4,945
60 - 64	156,298	11,526	72,869	887	25,779	942	1,514	1,800	9,316	23,226	8,438
65+	722,635	11,400	61,899	2,511	594,272	2,377	4,896	3,055	3,318	28,577	10,331

Table 2.63B: Distribution of Female Household Members by Age and Reasons not currently working Urban

	Female Urban										
	Total	Pensioner/Interest earne	Housewife	Disable	Very old(65 years or above)	Children	student	Not working and looking for job	Not working and is not looking for job	Sick	Other(Specify)
Total	3,601,764	62,879	1,800,639	21,000	211,891	57,268	604,259	538,198	140,086	87,842	77,702
15 - 19	736,464	0	62,050	1,671	0	28,640	415,141	149,224	43,161	9,692	26,886
20 - 24	682,406	0	292,293	1,800	0	19,265	136,906	171,952	35,456	7,454	17,281
25 - 29	498,875	0	310,152	1,366	0	5,319	35,352	115,551	21,407	4,312	5,417
30 - 34	363,172	0	292,210	792	0	888	4,638	36,283	10,679	5,876	11,806
35 - 39	317,369	0	282,876	0	0	779	1,068	19,414	4,137	5,456	3,638
40 - 44	202,716	0	169,560	2,735	0	0	0	12,473	9,306	2,012	6,631
45 - 49	172,695	2,937	145,971	1,950	0	0	0	14,456	4,391	2,990	0
50 - 54	117,948	943	88,902	2,331	4,444	0	0	8,292	887	10,960	1,189
55 - 59	95,018	11,135	65,432	0	2,350	0	3,755	3,044	1,564	7,547	191
60 - 64	147,800	34,791	63,833	4,656	13,460	0	3,700	3,755	6,288	14,167	3,150
65+	267,301	13,071	27,361	3,700	191,638	2,377	3,700	3,755	2,810	17,375	1,514

Table 3.11: Distribution of Households by Region and Ownership Status of Main Dwelling

Region Name:	TOTAL						
	Total	Owned	Rented	Employer provided (subsidized)	Employer provided (free)	Free	Other (specify)
Total	11,454,818	9,337,841	1,702,095	3,400	88,547	268,807	54,128
Dodoma	590,106	538,442	30,419	1,541	6,091	12,109	1,504
Arusha	469,204	364,292	62,714	1,197	4,786	34,990	1,226
Kilimanjaro	499,128	427,430	60,193	0	1,271	5,117	5,117
Tanga	572,083	469,112	85,424	0	4,369	10,230	2,948
Morogoro	655,833	544,809	89,137	0	1,671	15,162	5,054
Pwani	333,150	260,534	48,755	0	7,725	14,436	1,698
Dar es salaam	1,417,251	741,175	617,851	0	7,311	47,303	3,612
Lindi	293,907	272,832	12,777	0	3,034	5,264	0
Mtwara	448,463	388,449	34,636	0	4,574	16,202	4,601
Ruvuma	392,519	372,309	13,099	0	1,026	5,059	1,026
Iringa	289,324	238,850	33,392	0	5,179	8,937	2,967
Mbeya	412,915	336,560	71,037	0	1,053	3,186	1,079
Singida	334,525	319,917	11,170	0	854	875	1,709
Tabora	483,265	389,112	63,120	0	9,914	19,888	1,232
Rukwa	259,632	210,879	25,410	662	7,980	13,359	1,341
Kigoma	483,363	410,124	58,387	0	3,698	9,922	1,233
Shinyanga	339,428	295,879	33,131	0	6,085	4,332	0
Kagera	678,574	572,192	92,452	0	1,731	12,200	0
Mwanza	630,094	534,794	77,542	0	3,215	8,076	6,468
Mara	403,837	350,801	41,606	0	3,108	6,241	2,080
Manyara	354,642	319,912	26,512	0	928	5,435	1,856
Njombe	221,565	190,371	25,536	0	1,693	2,258	1,707
Katavi	103,890	84,742	16,496	0	1,061	1,591	0
Simiyu	298,960	272,086	21,521	0	0	762	4,591
Geita	76,553	67,290	8,520	0	188	555	0
Songwe	412,608	364,950	41,261	0	0	5,318	1,079

Table 3.11A: Distribution of Households by Region and Ownership Status of Main Dwelling Rural

Region Name:	RURAL							Other (specify)
	Total	Owned	Rented	Employer provided (subsidized)	Employer provided (free)	Free		
Total	7,701,218	7,112,811	347,851	1,859	56,339	153,502	28,857	
Dodoma	499,290	473,421	10,714	0	4,587	9,063	1,504	
Arusha	306,509	259,467	12,052	1,197	3,590	30,204	0	
Kilimanjaro	383,952	367,330	8,962	0	1,271	5,117	1,271	
Tanga	439,666	398,605	27,918	0	4,369	8,773	0	
Morogoro	453,798	423,555	25,188	0	0	5,054	0	
Pwani	216,087	190,445	10,294	0	6,006	8,492	849	
Dar es salaam	0	0	0	0	0	0	0	
Lindi	237,279	224,484	7,513	0	3,034	2,248	0	
Mtwara	337,833	311,312	8,060	0	3,430	10,430	4,601	
Ruvuma	286,460	276,392	6,012	0	1,026	2,004	1,026	
Iringa	211,231	188,988	6,653	0	5,179	7,444	2,967	
Mbeya	254,064	246,665	4,213	0	1,053	2,132	0	
Singida	295,744	284,595	7,710	0	854	875	1,709	
Tabora	408,880	361,803	33,378	0	1,232	11,236	1,232	
Rukwa	199,587	170,267	9,337	662	7,318	10,662	1,341	
Kigoma	391,543	354,203	28,652	0	0	8,689	0	
Shinyanga	260,910	237,414	16,545	0	5,219	1,733	0	
Kagera	600,054	546,018	41,835	0	0	12,200	0	
Mwanza	387,434	364,776	16,190	0	3,215	1,646	1,607	
Mara	325,812	302,954	12,457	0	3,108	5,213	2,080	
Manyara	299,895	290,705	5,523	0	0	1,812	1,856	
Njombe	161,848	149,940	7,943	0	1,129	1,693	1,143	
Katavi	75,873	65,504	8,248	0	530	1,591	0	
Simiyu	287,419	265,916	16,150	0	0	762	4,591	
Geita	62,706	57,691	4,638	0	188	188	0	
Songwe	317,343	300,361	11,664	0	0	4,239	1,079	

Table 3.11B: Distribution of Households by Region and Ownership Status of Main Dwelling Urban

Region Name:	URBAN						
	Total	Owned	Rented	Employer provided (subsidized)	Employer provided (free)	Free	Other (specify)
Total	3,753,600	2,225,030	1,354,244	1,541	32,208	115,305	25,271
Dodoma	90,817	65,021	19,704	1,541	1,504	3,046	0
Arusha	162,694	104,825	50,661	0	1,197	4,786	1,226
Kilimanjaro	115,176	60,100	51,231	0	0	0	3,845
Tanga	132,417	70,507	57,506	0	0	1,456	2,948
Morogoro	202,036	121,254	63,949	0	1,671	10,108	5,054
Pwani	117,063	70,089	38,462	0	1,719	5,944	849
Dar es salaam	1,417,251	741,175	617,851	0	7,311	47,303	3,612
Lindi	56,628	48,347	5,264	0	0	3,016	0
Mtwara	110,630	77,137	26,577	0	1,143	5,773	0
Ruvuma	106,059	95,917	7,087	0	0	3,055	0
Iringa	78,094	49,863	26,739	0	0	1,492	0
Mbeya	158,851	89,895	66,823	0	0	1,053	1,079
Singida	38,780	35,321	3,459	0	0	0	0
Tabora	74,385	27,309	29,742	0	8,682	8,652	0
Rukwa	60,045	40,612	16,073	0	662	2,698	0
Kigoma	91,820	55,921	29,735	0	3,698	1,233	1,233
Shinyanga	78,517	58,465	16,587	0	866	2,599	0
Kagera	78,520	26,173	50,616	0	1,731	0	0
Mwanza	242,659	170,018	61,351	0	0	6,429	4,861
Mara	78,024	47,847	29,149	0	0	1,028	0
Manyara	54,747	29,207	20,988	0	928	3,623	0
Njombe	59,717	40,431	17,593	0	564	564	564
Katavi	28,016	19,238	8,248	0	530	0	0
Simiyu	11,541	6,170	5,371	0	0	0	0
Geita	13,847	9,598	3,881	0	0	367	0
Songwe	95,264	64,589	29,597	0	0	1,079	0

Table 3.12: Distribution of Male Headed Households by Region and Ownership Status of Main Dwelling

Region Name:	Male Headed						
	Total	Owned	Rented	Employer provided (subsidized)	Employer provided (free)	Free	Other (specify)
Total	8,738,690	7,239,748	1,203,906	1,859	68,033	188,451	36,694
Dodoma	448,330	418,241	16,549	0	3,009	9,027	1,504
Arusha	361,349	290,755	41,878	1,197	4,786	22,734	0
Kilimanjaro	362,375	311,516	41,959	0	1,271	3,814	3,814
Tanga	399,039	339,329	45,147	0	4,369	8,738	1,456
Morogoro	482,948	402,735	65,173	0	1,671	10,027	3,342
Pwani	250,514	196,165	33,968	0	4,246	14,436	1,698
Dar es salaam	1,051,000	556,199	455,072	0	3,612	32,505	3,612
Lindi	225,584	208,347	11,242	0	1,499	4,497	0
Mtwara	341,882	305,292	20,582	0	4,574	8,004	3,430
Ruvuma	318,624	305,598	10,020	0	0	3,006	0
Iringa	213,806	177,680	24,330	0	4,424	5,161	2,212
Mbeya	324,438	269,663	51,615	0	1,053	2,107	0
Singida	279,388	268,281	8,544	0	854	0	1,709
Tabora	362,140	290,697	50,503	0	7,391	12,318	1,232
Rukwa	204,000	172,207	15,234	662	6,623	8,610	662
Kigoma	373,510	321,736	39,447	0	3,698	7,396	1,233
Shinyanga	273,760	239,973	24,257	0	5,198	4,332	0
Kagera	529,646	456,949	62,311	0	1,731	8,654	0
Mwanza	493,443	417,900	61,078	0	3,215	6,429	4,822
Mara	275,413	248,694	20,553	0	2,055	3,083	1,028
Manyara	297,114	275,374	16,305	0	0	5,435	0
Njombe	160,860	136,025	19,755	0	1,693	2,258	1,129
Katavi	84,872	67,898	14,322	0	1,061	1,591	0
Simiyu	224,029	205,741	13,716	0	0	762	3,810
Geita	63,547	56,541	6,639	0	0	367	0
Songwe	337,079	300,211	33,708	0	0	3,160	0

Table 3.12A: Distribution of Male Headed Households by Region and Ownership Status of Main Dwelling Rural

Region Name:	Male Headed Rural						
	Total	Owned	Rented	Employer provided (subsidized)	Employer provided (free)	Free	Other (specify)
Total	6,063,013	5,648,346	245,881	1,859	43,846	103,203	19,879
Dodoma	380,629	367,089	3,009	0	1,504	7,522	1,504
Arusha	247,680	216,570	8,376	1,197	3,590	17,948	0
Kilimanjaro	278,457	265,742	6,357	0	1,271	3,814	1,271
Tanga	323,309	294,182	17,476	0	4,369	7,282	0
Morogoro	344,247	320,851	20,053	0	0	3,342	0
Pwani	163,896	145,213	5,944	0	3,397	8,492	849
Dar es salaam	0	0	0	0	0	0	0
Lindi	186,613	176,121	6,745	0	1,499	2,248	0
Mtwara	267,560	250,408	5,717	0	3,430	4,574	3,430
Ruvuma	248,486	240,471	6,012	0	0	2,004	0
Iringa	164,409	147,452	5,898	0	4,424	4,424	2,212
Mbeya	201,194	194,874	4,213	0	1,053	1,053	0
Singida	254,611	245,213	6,835	0	854	0	1,709
Tabora	307,942	272,221	28,331	0	1,232	4,927	1,232
Rukwa	162,272	140,415	6,623	662	5,961	7,948	662
Kigoma	306,944	284,755	16,025	0	0	6,164	0
Shinyanga	218,315	199,256	12,995	0	4,332	1,733	0
Kagera	477,720	439,641	29,425	0	0	8,654	0
Mwanza	316,639	300,566	11,251	0	3,215	0	1,607
Mara	237,390	225,058	7,194	0	2,055	2,055	1,028
Manyara	259,069	255,446	1,812	0	0	1,812	0
Njombe	120,222	110,626	6,209	0	1,129	1,693	564
Katavi	63,919	54,637	7,161	0	530	1,591	0
Simiyu	217,171	202,693	9,906	0	0	762	3,810
Geita	53,084	49,198	3,886	0	0	0	0
Songwe	261,236	249,649	8,427	0	0	3,160	0

Table 3.12B: Distribution of Male Headed Households by Region and Ownership Status of Main Dwelling Urban

Region Name:	Male Headed Urban						
	Total	Owned	Rented	Employer provided (subsidized)	Employer provided (free)	Free	Other (specify)
Total	2,675,677	1,591,402	958,025	0	24,188	85,248	16,814
Dodoma	67,701	51,152	13,540	0	1,504	1,504	0
Arusha	113,669	74,184	33,503	0	1,197	4,786	0
Kilimanjaro	83,918	45,774	35,602	0	0	0	2,543
Tanga	75,730	45,147	27,671	0	0	1,456	1,456
Morogoro	138,701	81,884	45,120	0	1,671	6,684	3,342
Pwani	86,618	50,952	28,024	0	849	5,944	849
Dar es salaam	1,051,000	556,199	455,072	0	3,612	32,505	3,612
Lindi	38,971	32,226	4,497	0	0	2,248	0
Mtwara	74,322	54,884	14,864	0	1,143	3,430	0
Ruvuma	70,137	65,127	4,008	0	0	1,002	0
Iringa	49,396	30,228	18,432	0	0	737	0
Mbeya	123,244	74,789	47,402	0	0	1,053	0
Singida	24,778	23,069	1,709	0	0	0	0
Tabora	54,198	18,477	22,172	0	6,159	7,391	0
Rukwa	41,727	31,792	8,610	0	662	662	0
Kigoma	66,566	36,981	23,421	0	3,698	1,233	1,233
Shinyanga	55,445	40,718	11,262	0	866	2,599	0
Kagera	51,926	17,309	32,887	0	1,731	0	0
Mwanza	176,804	117,333	49,827	0	0	6,429	3,215
Mara	38,023	23,636	13,360	0	0	1,028	0
Manyara	38,045	19,928	14,493	0	0	3,623	0
Njombe	40,638	25,399	13,546	0	564	564	564
Katavi	20,953	13,261	7,161	0	530	0	0
Simiyu	6,858	3,048	3,810	0	0	0	0
Geita	10,463	7,342	2,753	0	0	367	0
Songwe	75,843	50,562	25,281	0	0	0	0

Table 3.13: Distribution of Female Headed Households by Region and Ownership Status of Main Dwelling

Region Name:	Female Headed						
	Total	Owned	Rented	Employer provided (subsidized)	Employer provided (free)	Free	Other (specify)
Total	2,716,128	2,098,093	498,190	1,541	20,514	80,356	17,434
Dodoma	141,776	120,202	13,869	1,541	3,082	3,082	0
Arusha	107,854	73,537	20,835	0	0	12,256	1,226
Kilimanjaro	136,753	115,915	18,234	0	0	1,302	1,302
Tanga	173,044	129,783	40,278	0	0	1,492	1,492
Morogoro	172,885	142,074	23,964	0	0	5,135	1,712
Pwani	82,636	64,369	14,787	0	3,479	0	0
Dar es salaam	366,251	184,975	162,778	0	3,700	14,798	0
Lindi	68,323	64,485	1,535	0	1,535	768	0
Mtwara	106,581	83,157	14,055	0	0	8,199	1,171
Ruvuma	73,895	66,711	3,079	0	1,026	2,053	1,026
Iringa	75,519	61,170	9,062	0	755	3,776	755
Mbeya	88,477	66,897	19,422	0	0	1,079	1,079
Singida	55,136	51,635	2,626	0	0	875	0
Tabora	121,125	98,414	12,617	0	2,523	7,570	0
Rukwa	55,632	38,671	10,177	0	1,357	4,749	678
Kigoma	109,853	88,388	18,940	0	0	2,525	0
Shinyanga	65,667	55,906	8,874	0	887	0	0
Kagera	148,929	115,242	30,140	0	0	3,546	0
Mwanza	136,650	116,894	16,464	0	0	1,646	1,646
Mara	128,423	102,107	21,053	0	1,053	3,158	1,053
Manyara	57,528	44,537	10,206	0	928	0	1,856
Njombe	60,705	54,346	5,781	0	0	0	578
Katavi	19,017	16,844	2,173	0	0	0	0
Simiyu	74,931	66,345	7,805	0	0	0	781
Geita	13,006	10,749	1,880	0	188	188	0
Songwe	75,529	64,739	7,553	0	0	2,158	1,079

Table 3.13A: Distribution of Female Headed Households by Region and Ownership Status of Main Dwelling Rural

Region Name:	Female Headed Rural						
	Total	Owned	Rented	Employer provided (subsidized)	Employer provided (free)	Free	Other (specify)
Total	1,638,205	1,464,465	101,970	0	12,493	50,299	8,977
Dodoma	118,661	106,332	7,705	0	3,082	1,541	0
Arusha	58,830	42,897	3,677	0	0	12,256	0
Kilimanjaro	105,495	101,588	2,605	0	0	1,302	0
Tanga	116,357	104,423	10,442	0	0	1,492	0
Morogoro	109,551	102,704	5,135	0	0	1,712	0
Pwani	52,191	45,232	4,349	0	2,610	0	0
Dar es salaam	0	0	0	0	0	0	0
Lindi	50,666	48,363	768	0	1,535	0	0
Mtwara	70,273	60,903	2,342	0	0	5,856	1,171
Ruvuma	37,974	35,921	0	0	1,026	0	1,026
Iringa	46,822	41,535	755	0	755	3,021	755
Mbeya	52,870	51,791	0	0	0	1,079	0
Singida	41,133	39,383	875	0	0	875	0
Tabora	100,938	89,582	5,047	0	0	6,309	0
Rukwa	37,314	29,851	2,714	0	1,357	2,714	678
Kigoma	84,600	69,447	12,627	0	0	2,525	0
Shinyanga	42,595	38,158	3,550	0	887	0	0
Kagera	122,334	106,378	12,411	0	0	3,546	0
Mwanza	70,795	64,209	4,939	0	0	1,646	0
Mara	88,423	77,896	5,263	0	1,053	3,158	1,053
Manyara	40,826	35,259	3,711	0	0	0	1,856
Njombe	41,626	39,314	1,734	0	0	0	578
Katavi	11,954	10,867	1,087	0	0	0	0
Simiyu	70,248	63,223	6,244	0	0	0	781
Geita	9,621	8,493	752	0	188	188	0
Songwe	56,107	50,712	3,237	0	0	1,079	1,079

Table 3.13B: Distribution of Female Headed Households by Region and Ownership Status of Main Dwelling Urban

Region Name:	Female Headed Urban						
	Total	Owned	Rented	Employer provided (subsidized)	Employer provided (free)	Free	Other (specify)
Total	1,077,923	633,628	396,220	1,541	8,021	30,057	8,457
Dodoma	23,116	13,869	6,164	1,541	0	1,541	0
Arusha	49,025	30,640	17,159	0	0	0	1,226
Kilimanjaro	31,258	14,327	15,629	0	0	0	1,302
Tanga	56,687	25,360	29,835	0	0	0	1,492
Morogoro	63,334	39,370	18,829	0	0	3,423	1,712
Pwani	30,445	19,137	10,438	0	870	0	0
Dar es salaam	366,251	184,975	162,778	0	3,700	14,798	0
Lindi	17,656	16,121	768	0	0	768	0
Mtwara	36,308	22,253	11,712	0	0	2,342	0
Ruvuma	35,921	30,790	3,079	0	0	2,053	0
Iringa	28,697	19,635	8,307	0	0	755	0
Mbeya	35,607	15,106	19,422	0	0	0	1,079
Singida	14,003	12,252	1,750	0	0	0	0
Tabora	20,188	8,832	7,570	0	2,523	1,262	0
Rukwa	18,318	8,820	7,463	0	0	2,035	0
Kigoma	25,254	18,940	6,313	0	0	0	0
Shinyanga	23,072	17,748	5,324	0	0	0	0
Kagera	26,594	8,865	17,730	0	0	0	0
Mwanza	65,856	52,685	11,525	0	0	0	1,646
Mara	40,001	24,211	15,790	0	0	0	0
Manyara	16,702	9,279	6,495	0	928	0	0
Njombe	19,079	15,032	4,047	0	0	0	0
Katavi	7,064	5,977	1,087	0	0	0	0
Simiyu	4,683	3,122	1,561	0	0	0	0
Geita	3,384	2,256	1,128	0	0	0	0
Songwe	19,422	14,027	4,316	0	0	1,079	0

Table 3.21: Distribution of Households by Age of Head of Household and Ownership Status of Main Dwelling

Age Groups	TOTAL						
	Total	Owned	Rented	Employer provided (subsidized)	Employer provided (free)	Free	Other (specify)
Total	11,454,818	9,337,841	1,702,095	3,400	88,547	268,807	54,128
< 10	854	854	0	0	0	0	0
10 - 14	1,143	1,143	0	0	0	0	0
15 - 19	55,192	32,999	17,285	0	564	4,343	0
20 - 24	451,528	266,913	155,512	0	3,479	23,917	1,708
25 - 29	1,083,374	653,057	369,547	0	18,020	36,159	6,590
30 - 34	1,377,119	918,069	370,846	1,197	28,351	45,960	12,696
35 - 39	1,465,468	1,134,694	283,686	0	6,249	37,345	3,494
40 - 44	1,389,951	1,132,963	204,265	1,541	11,048	31,983	8,151
45 - 49	1,216,022	1,059,692	119,693	0	7,049	23,462	6,127
50 - 54	1,074,217	976,596	65,527	0	4,538	23,421	4,135
55 - 59	753,387	696,858	42,890	662	6,704	4,768	1,504
60 - 64	846,824	798,476	38,289	0	928	7,640	1,492
65+	1,739,740	1,665,526	34,555	0	1,618	29,810	8,231

Table 3.21A: Distribution of Households by Age of Head of Household and Ownership Status of Main Dwelling Rural

Age Groups	RURAL						
	Total	Owned	Rented	Employer provided (subsidized)	Employer provided (free)	Free	Other (specify)
Total	7,701,218	7,112,811	347,851	1,859	56,339	153,502	28,857
< 10	854	854	0	0	0	0	0
10 - 14	1,143	1,143	0	0	0	0	0
15 - 19	32,979	20,486	7,585	0	564	4,343	0
20 - 24	287,938	232,127	33,996	0	3,479	17,194	1,143
25 - 29	694,426	559,491	85,537	0	16,758	27,282	5,357
30 - 34	864,280	756,875	57,178	1,197	14,509	24,387	10,135
35 - 39	957,110	882,068	56,666	0	2,648	14,585	1,143
40 - 44	907,492	840,975	36,149	0	7,692	18,861	3,816
45 - 49	827,536	784,740	22,071	0	3,349	14,567	2,809
50 - 54	767,580	734,746	20,385	0	3,395	9,054	0
55 - 59	510,910	488,895	14,618	662	2,891	2,340	1,504
60 - 64	545,647	531,752	7,024	0	0	6,872	0
65+	1,303,321	1,278,659	6,642	0	1,053	14,017	2,948

Table 3.21B: Distribution of Households by Age of Head of Household and Ownership Status of Main Dwelling Urban

Age Groups	URBAN						
	Total	Owned	Rented	Employer provided (subsidized)	Employer provided (free)	Free	Other (specify)
Total	3,753,600	2,225,030	1,354,244	1,541	32,208	115,305	25,271
< 10	0	0	0	0	0	0	0
10 - 14	0	0	0	0	0	0	0
15 - 19	22,213	12,513	9,700	0	0	0	0
20 - 24	163,590	34,786	121,517	0	0	6,723	564
25 - 29	388,948	93,567	284,010	0	1,262	8,877	1,233
30 - 34	512,839	161,194	313,668	0	13,842	21,574	2,561
35 - 39	508,357	252,626	227,020	0	3,600	22,760	2,350
40 - 44	482,459	291,988	168,116	1,541	3,356	13,122	4,335
45 - 49	388,485	274,952	97,621	0	3,700	8,895	3,317
50 - 54	306,637	241,850	45,142	0	1,143	14,366	4,135
55 - 59	242,476	207,963	28,272	0	3,813	2,428	0
60 - 64	301,177	266,725	31,265	0	928	768	1,492
65+	436,420	386,867	27,913	0	564	15,792	5,283

Table 3.22: Distribution of Male headed Households by Age of Head of Household and Ownership Status of Main Dwelling

Age Groups	Male Headed						
	Total	Owned	Rented	Employer provided (subsidized)	Employer provided (free)	Free	Other (specify)
Total	8,738,690	7,239,748	1,203,906	1,859	68,033	188,451	36,694
< 10	854	854	0	0	0	0	0
10 - 14	1,143	1,143	0	0	0	0	0
15 - 19	29,854	17,353	8,764	0	564	3,172	0
20 - 24	344,119	217,241	101,245	0	2,800	21,126	1,708
25 - 29	878,727	570,638	267,493	0	11,972	24,946	3,678
30 - 34	1,101,387	768,922	259,819	1,197	25,094	36,628	9,728
35 - 39	1,170,986	915,992	220,711	0	5,379	26,488	2,415
40 - 44	1,138,087	970,231	130,592	0	10,281	19,761	7,223
45 - 49	965,139	854,713	87,560	0	3,349	16,819	2,699
50 - 54	797,164	726,259	49,238	0	1,143	18,916	1,607
55 - 59	572,161	536,477	24,140	662	5,834	3,543	1,504
60 - 64	583,060	547,196	33,987	0	0	1,877	0
65+	1,156,008	1,112,728	20,356	0	1,618	15,174	6,132

Table 3.22A: Distribution of Male headed Households by Age of Head of Household and Ownership Status of Main Dwelling Rural

Age Groups	Male Headed Rural						
	Total	Owned	Rented	Employer provided (subsidized)	Employer provided (free)	Free	Other (specify)
Total	6,063,013	5,648,346	245,881	1,859	43,846	103,203	19,879
< 10	854	854	0	0	0	0	0
10 - 14	1,143	1,143	0	0	0	0	0
15 - 19	22,076	14,821	3,519	0	564	3,172	0
20 - 24	236,047	196,282	19,707	0	2,800	16,115	1,143
25 - 29	594,857	496,653	64,018	0	11,972	19,769	2,445
30 - 34	730,951	649,785	39,824	1,197	12,513	18,754	8,878
35 - 39	785,856	730,977	42,225	0	2,648	8,862	1,143
40 - 44	781,659	731,024	26,339	0	6,925	14,483	2,888
45 - 49	673,754	643,201	16,548	0	3,349	9,629	1,028
50 - 54	573,666	553,048	16,068	0	0	4,550	0
55 - 59	398,388	387,101	5,985	662	2,021	1,114	1,504
60 - 64	394,015	386,377	5,761	0	0	1,877	0
65+	869,748	857,080	5,887	0	1,053	4,878	849

Table 3.22B: Distribution of Male headed Households by Age of Head of Household and Ownership Status of Main Dwelling_Urban

Age Groups	Male Headed Urban						
	Total	Owned	Rented	Employer provided (subsidized)	Employer provided (free)	Free	Other (specify)
Total	2,675,677	1,591,402	958,025	0	24,188	85,248	16,814
< 10	0	0	0	0	0	0	0
10 - 14	0	0	0	0	0	0	0
15 - 19	7,778	2,532	5,246	0	0	0	0
20 - 24	108,073	20,959	81,538	0	0	5,011	564
25 - 29	283,870	73,985	203,475	0	0	5,178	1,233
30 - 34	370,436	119,137	219,995	0	12,581	17,874	849
35 - 39	385,130	185,015	178,486	0	2,731	17,627	1,271
40 - 44	356,428	239,207	104,252	0	3,356	5,278	4,335
45 - 49	291,385	211,512	71,012	0	0	7,190	1,671
50 - 54	223,498	173,211	33,170	0	1,143	14,366	1,607
55 - 59	173,774	149,377	18,156	0	3,813	2,428	0
60 - 64	189,045	160,819	28,226	0	0	0	0
65+	286,260	255,647	14,469	0	564	10,296	5,283

Table 3.23: Distribution of Female headed Households by Age of Head of Household and Ownership Status of Main Dwelling

Age Groups	Female Headed						
	Total	Owned	Rented	Employer provided (subsidized)	Employer provided (free)	Free	Other (specify)
Total	2,716,128	2,098,093	498,190	1,541	20,514	80,356	17,434
< 10	0	0	0	0	0	0	0
10 - 14	0	0	0	0	0	0	0
15 - 19	25,338	15,646	8,521	0	0	1,171	0
20 - 24	107,408	49,672	54,268	0	678	2,791	0
25 - 29	204,646	82,419	102,054	0	6,049	11,213	2,912
30 - 34	275,732	149,148	111,027	0	3,258	9,332	2,968
35 - 39	294,482	218,702	62,975	0	870	10,856	1,079
40 - 44	251,863	162,732	73,673	1,541	768	12,222	928
45 - 49	250,882	204,979	32,133	0	3,700	6,643	3,428
50 - 54	277,053	250,337	16,289	0	3,395	4,504	2,528
55 - 59	181,225	160,380	18,750	0	870	1,226	0
60 - 64	263,764	251,281	4,301	0	928	5,763	1,492
65+	583,732	552,799	14,200	0	0	14,635	2,099

Table 3.23A: Distribution of Female headed Households by Age of Head of Household and Ownership Status of Main Dwelling Rural

Age Groups	Female Headed Rural						
	Total	Owned	Rented	Employer provided (subsidized)	Employer provided (free)	Free	Other (specify)
Total	1,638,205	1,464,465	101,970	0	12,493	50,299	8,977
< 10	0	0	0	0	0	0	0
10 - 14	0	0	0	0	0	0	0
15 - 19	10,903	5,665	4,066	0	0	1,171	0
20 - 24	51,891	35,845	14,289	0	678	1,079	0
25 - 29	99,569	62,837	21,519	0	4,787	7,513	2,912
30 - 34	133,329	107,090	17,354	0	1,996	5,632	1,257
35 - 39	171,255	151,091	14,441	0	0	5,723	0
40 - 44	125,833	109,951	9,810	0	768	4,378	928
45 - 49	153,783	141,539	5,524	0	0	4,939	1,782
50 - 54	193,914	181,698	4,317	0	3,395	4,504	0
55 - 59	112,523	101,794	8,633	0	870	1,226	0
60 - 64	151,633	145,375	1,263	0	0	4,995	0
65+	433,572	421,579	755	0	0	9,139	2,099

Table 3.23B: Distribution of Female headed Households by Age of Head of Household and Ownership Status of Main Dwelling Urban

Age Groups	Female Headed Urban						
	Total	Owned	Rented	Employer provided (subsidized)	Employer provided (free)	Free	Other (specify)
Total	1,077,923	633,628	396,220	1,541	8,021	30,057	8,457
< 10	0	0	0	0	0	0	0
10 - 14	0	0	0	0	0	0	0
15 - 19	14,435	9,981	4,455	0	0	0	0
20 - 24	55,517	13,826	39,979	0	0	1,712	0
25 - 29	105,078	19,582	80,535	0	1,262	3,700	0
30 - 34	142,403	42,057	93,673	0	1,262	3,700	1,712
35 - 39	123,227	67,611	48,534	0	870	5,133	1,079
40 - 44	126,030	52,781	63,864	1,541	0	7,844	0
45 - 49	97,100	63,440	26,609	0	3,700	1,705	1,646
50 - 54	83,139	68,639	11,972	0	0	0	2,528
55 - 59	68,703	58,586	10,116	0	0	0	0
60 - 64	112,132	105,906	3,039	0	928	768	1,492
65+	150,160	131,220	13,444	0	0	5,496	0

Table 3.31: Distribution of Renting Households by Age of Head of Household and Amount of Rent Paid per Month

Age Groups	TOTAL								
	Total	< 5,000	5,000-9,999	10,000-14,999	15,000-19,999	20,000-24,999	25,000-29,999	30,000-49,999	50,000 and above
Total	11,454,818	9,887,863	66,685	205,661	146,996	229,497	129,386	427,733	360,997
< 10	854	854	0	0	0	0	0	0	0
10 - 14	1,143	1,143	0	0	0	0	0	0	0
15 - 19	55,192	48,049	0	2,027	0	5,116	0	0	0
20 - 24	451,528	314,138	12,823	30,813	20,584	26,695	11,100	25,279	10,096
25 - 29	1,083,374	740,417	16,085	59,511	34,746	50,471	37,780	87,002	57,361
30 - 34	1,377,119	1,030,896	4,027	28,074	32,918	38,037	31,080	119,668	92,419
35 - 39	1,465,468	1,203,006	18,226	20,277	15,732	49,230	19,297	75,503	64,197
40 - 44	1,389,951	1,198,095	5,199	27,997	10,080	19,620	10,090	49,341	69,529
45 - 49	1,216,022	1,104,595	3,778	11,969	13,877	22,603	13,264	22,635	23,301
50 - 54	1,074,217	1,011,878	2,637	7,482	5,961	14,152	0	15,313	16,794
55 - 59	753,387	716,277	1,999	6,229	5,315	0	1,197	4,883	17,486
60 - 64	846,824	809,671	1,232	5,997	4,665	3,574	0	15,749	5,937
65+	1,739,740	1,708,843	678	5,285	3,119	0	5,578	12,359	3,877

Table 3.31A: Distribution of Renting Households by Age of Head of Household and Amount of Rent Paid per Month Rural

Age Groups	RURAL								
	Total	< 5,000	5,000-9,999	10,000-14,999	15,000-19,999	20,000-24,999	25,000-29,999	30,000-49,999	50,000 and above
Total	7,701,218	7,469,003	45,721	96,426	24,103	20,293	8,751	19,314	17,607
< 10	854	854	0	0	0	0	0	0	0
10 - 14	1,143	1,143	0	0	0	0	0	0	0
15 - 19	32,979	32,979	0	0	0	0	0	0	0
20 - 24	287,938	270,357	4,301	7,732	1,053	1,236	1,671	737	849
25 - 29	694,426	632,513	12,822	23,882	6,593	4,762	2,971	4,293	6,588
30 - 34	864,280	829,687	2,801	13,869	3,667	7,548	1,635	2,590	2,484
35 - 39	957,110	917,672	14,844	13,332	2,916	2,061	866	4,549	870
40 - 44	907,492	879,616	3,217	12,890	3,026	1,412	1,607	4,697	1,027
45 - 49	827,536	813,731	3,099	6,986	749	0	0	1,698	1,271
50 - 54	767,580	750,384	2,637	6,616	2,505	2,511	0	0	2,927
55 - 59	510,910	500,841	1,999	3,889	2,590	0	0	0	1,590
60 - 64	545,647	538,889	0	5,997	0	762	0	0	0
65+	1,303,321	1,300,337	0	1,233	1,002	0	0	749	0

Table 3.31B: Distribution of Renting Households by Age of Head of Household and Amount of Rent Paid per month Urban

Age Groups	URBAN								
	Total	< 5,000	5,000-9,999	10,000-14,999	15,000-19,999	20,000-24,999	25,000-29,999	30,000-49,999	50,000 and above
Total	3,753,600	2,418,860	20,964	109,235	122,893	209,204	120,635	408,420	343,390
< 10	0	0	0	0	0	0	0	0	0
10 - 14	0	0	0	0	0	0	0	0	0
15 - 19	22,213	15,071	0	2,027	0	5,116	0	0	0
20 - 24	163,590	43,781	8,522	23,081	19,530	25,459	9,428	24,542	9,246
25 - 29	388,948	107,903	3,263	35,629	28,153	45,708	34,809	82,709	50,773
30 - 34	512,839	201,209	1,227	14,205	29,251	30,489	29,445	117,078	89,935
35 - 39	508,357	285,334	3,383	6,944	12,815	47,168	18,431	70,954	63,327
40 - 44	482,459	318,479	1,981	15,107	7,054	18,208	8,482	44,645	68,502
45 - 49	388,485	290,864	678	4,982	13,127	22,603	13,264	20,936	22,030
50 - 54	306,637	261,495	0	866	3,455	11,640	0	15,313	13,867
55 - 59	242,476	215,436	0	2,340	2,724	0	1,197	4,883	15,896
60 - 64	301,177	270,782	1,232	0	4,665	2,812	0	15,749	5,937
65+	436,420	408,506	678	4,052	2,117	0	5,578	11,610	3,877

Table 3.32: Distribution of Male headed Renting Households by Age of Head of Household and Amount of Rent Paid per Month

Age Groups	Male Headed								
	Total	< 5,000	5,000-9,999	10,000-14,999	15,000-19,999	20,000-24,999	25,000-29,999	30,000-49,999	50,000 and above
Total	8,738,690	7,632,139	47,217	136,934	85,623	167,614	94,159	309,388	265,617
< 10	854	854	0	0	0	0	0	0	0
10 - 14	1,143	1,143	0	0	0	0	0	0	0
15 - 19	29,854	27,166	0	1,271	0	1,416	0	0	0
20 - 24	344,119	251,497	9,571	22,304	9,070	16,154	9,266	19,861	6,396
25 - 29	878,727	632,724	12,988	45,242	22,873	40,095	29,760	57,730	37,315
30 - 34	1,101,387	860,403	2,948	14,657	19,950	33,188	23,687	80,564	65,989
35 - 39	1,170,986	966,236	12,374	14,112	10,702	38,896	10,158	63,049	55,458
40 - 44	1,138,087	1,019,340	2,909	17,416	5,084	13,789	5,219	28,280	46,050
45 - 49	965,139	884,285	1,326	8,006	5,817	14,050	13,264	17,443	20,946
50 - 54	797,164	749,341	2,637	5,990	3,140	7,317	0	14,250	14,490
55 - 59	572,161	551,257	1,232	1,969	2,464	0	1,197	4,883	9,159
60 - 64	583,060	549,338	1,232	4,734	4,665	2,708	0	14,447	5,937
65+	1,156,008	1,138,555	0	1,233	1,856	0	1,607	8,880	3,877

Table 3.32A: Distribution of Male headed Renting Households by Age of Head of Household and Amount of Rent Paid per Month Rural

Age Groups	Male Headed Rural								
	Total	< 5,000	5,000-9,999	10,000-14,999	15,000-19,999	20,000-24,999	25,000-29,999	30,000-49,999	50,000 and above
Total	6,063,013	5,899,136	32,189	68,391	14,433	14,281	7,392	15,251	11,939
< 10	854	854	0	0	0	0	0	0	0
10 - 14	1,143	1,143	0	0	0	0	0	0	0
15 - 19	22,076	22,076	0	0	0	0	0	0	0
20 - 24	236,047	223,254	2,760	6,408	184	184	1,671	737	849
25 - 29	594,857	550,042	10,881	17,346	3,474	3,982	2,393	4,021	2,717
30 - 34	730,951	709,095	1,722	6,389	3,667	4,150	854	2,590	2,484
35 - 39	785,856	756,464	10,703	10,068	1,143	2,061	866	4,549	0
40 - 44	781,659	763,592	928	11,439	748	1,412	1,607	906	1,027
45 - 49	673,754	663,911	1,326	4,797	749	0	0	1,698	1,271
50 - 54	573,666	559,013	2,637	5,124	2,234	1,731	0	0	2,927
55 - 59	398,388	394,407	1,232	854	1,232	0	0	0	662
60 - 64	394,015	388,519	0	4,734	0	762	0	0	0
65+	869,748	866,764	0	1,233	1,002	0	0	749	0

Table 3.32B: Distribution of Male headed Renting Households by Age of Head of Household and Amount of Rent Paid per month Urban

Age Groups	Male Headed Urban								
	Total	< 5,000	5,000-9,999	10,000-14,999	15,000-19,999	20,000-24,999	25,000-29,999	30,000-49,999	50,000 and above
Total	2,675,677	1,733,003	15,028	68,543	71,190	153,332	86,767	294,136	253,678
< 10	0	0	0	0	0	0	0	0	0
10 - 14	0	0	0	0	0	0	0	0	0
15 - 19	7,778	5,090	0	1,271	0	1,416	0	0	0
20 - 24	108,073	28,243	6,810	15,896	8,887	15,971	7,595	19,124	5,547
25 - 29	283,870	82,682	2,107	27,896	19,399	36,113	27,367	53,709	34,597
30 - 34	370,436	151,307	1,227	8,268	16,283	29,039	22,832	77,974	63,505
35 - 39	385,130	209,772	1,671	4,044	9,559	36,834	9,292	58,500	55,458
40 - 44	356,428	255,749	1,981	5,977	4,336	12,377	3,612	27,374	45,023
45 - 49	291,385	220,373	0	3,209	5,068	14,050	13,264	15,745	19,675
50 - 54	223,498	190,328	0	866	906	5,586	0	14,250	11,562
55 - 59	173,774	156,850	0	1,114	1,233	0	1,197	4,883	8,497
60 - 64	189,045	160,819	1,232	0	4,665	1,946	0	14,447	5,937
65+	286,260	271,791	0	0	854	0	1,607	8,130	3,877

Table 3.33: Distribution of Female headed Renting Households by Age of Head of Household and Amount of Rent Paid per Month

Age Groups	Female Headed								
	Total	< 5,000	5,000-9,999	10,000-14,999	15,000-19,999	20,000-24,999	25,000-29,999	30,000-49,999	50,000 and above
Total	2,716,128	2,255,724	19,468	68,727	61,373	61,883	35,227	118,346	95,380
< 10	0	0	0	0	0	0	0	0	0
10 - 14	0	0	0	0	0	0	0	0	0
15 - 19	25,338	20,883	0	755	0	3,700	0	0	0
20 - 24	107,408	62,642	3,253	8,509	11,513	10,541	1,833	5,418	3,700
25 - 29	204,646	107,693	3,097	14,269	11,873	10,376	8,020	29,272	20,046
30 - 34	275,732	170,493	1,079	13,417	12,968	4,849	7,393	39,103	26,430
35 - 39	294,482	236,770	5,852	6,165	5,030	10,334	9,139	12,454	8,739
40 - 44	251,863	178,754	2,290	10,581	4,996	5,831	4,871	21,062	23,479
45 - 49	250,882	220,310	2,451	3,963	8,059	8,552	0	5,191	2,355
50 - 54	277,053	262,537	0	1,492	2,821	6,835	0	1,063	2,305
55 - 59	181,225	165,020	768	4,260	2,850	0	0	0	8,327
60 - 64	263,764	260,333	0	1,263	0	866	0	1,302	0
65+	583,732	570,288	678	4,052	1,263	0	3,971	3,480	0

Table 3.33A: Distribution of Female headed Renting Households by Age of Head of Household and Amount of Rent Paid per Month Rural

Age Groups	Female Headed Rural								
	Total	< 5,000	5,000-9,999	10,000-14,999	15,000-19,999	20,000-24,999	25,000-29,999	30,000-49,999	50,000 and above
Total	1,638,205	1,569,867	13,532	28,035	9,670	6,012	1,359	4,062	5,669
< 10	0	0	0	0	0	0	0	0	0
10 - 14	0	0	0	0	0	0	0	0	0
15 - 19	10,903	10,903	0	0	0	0	0	0	0
20 - 24	51,891	47,104	1,541	1,324	870	1,053	0	0	0
25 - 29	99,569	82,472	1,941	6,536	3,118	781	578	272	3,871
30 - 34	133,329	120,591	1,079	7,480	0	3,398	781	0	0
35 - 39	171,255	161,207	4,140	3,265	1,773	0	0	0	870
40 - 44	125,833	116,024	2,290	1,451	2,278	0	0	3,791	0
45 - 49	153,783	149,820	1,773	2,190	0	0	0	0	0
50 - 54	193,914	191,370	0	1,492	272	781	0	0	0
55 - 59	112,523	106,434	768	3,035	1,359	0	0	0	928
60 - 64	151,633	150,370	0	1,263	0	0	0	0	0
65+	433,572	433,572	0	0	0	0	0	0	0

Table 3.33B: Distribution of Female headed Renting Households by Age of Head of Household and Amount of Rent Paid per month Urban

Age Groups	Female Headed Urban								
	Total	< 5,000	5,000-9,999	10,000-14,999	15,000-19,999	20,000-24,999	25,000-29,999	30,000-49,999	50,000 and above
Total	1,077,923	685,857	5,937	40,692	51,703	55,871	33,868	114,283	89,711
< 10	0	0	0	0	0	0	0	0	0
10 - 14	0	0	0	0	0	0	0	0	0
15 - 19	14,435	9,981	0	755	0	3,700	0	0	0
20 - 24	55,517	15,538	1,712	7,185	10,644	9,488	1,833	5,418	3,700
25 - 29	105,078	25,222	1,156	7,733	8,754	9,595	7,441	29,001	16,175
30 - 34	142,403	49,901	0	5,937	12,968	1,451	6,613	39,103	26,430
35 - 39	123,227	75,563	1,712	2,900	3,257	10,334	9,139	12,454	7,869
40 - 44	126,030	62,731	0	9,131	2,717	5,831	4,871	17,271	23,479
45 - 49	97,100	70,490	678	1,773	8,059	8,552	0	5,191	2,355
50 - 54	83,139	71,167	0	0	2,550	6,055	0	1,063	2,305
55 - 59	68,703	58,586	0	1,226	1,492	0	0	0	7,399
60 - 64	112,132	109,963	0	0	0	866	0	1,302	0
65+	150,160	136,716	678	4,052	1,263	0	3,971	3,480	0

Table 3.41: Distribution of Households Owning Main Dwelling by Age of Head of Household and Assessed Value of Main Dwelling

Age Groups	TOTAL											
	Total	< 5	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50 and above
Total	9,337,841	6,567,093	527,089	495,863	224,228	282,279	102,519	200,816	37,972	90,459	37,700	771,823
< 10	854	0	0	0	0	0	0	0	0	0	0	854
10 - 14	1,143	1,143	0	0	0	0	0	0	0	0	0	0
15 - 19	32,999	23,702	0	0	0	0	0	4,727	0	0	0	4,569
20 - 24	266,913	225,993	18,299	6,970	0	3,612	564	0	1,079	2,486	0	7,910
25 - 29	653,057	547,768	27,236	23,145	8,131	10,239	3,596	2,930	0	1,050	1,028	27,933
30 - 34	918,069	711,230	41,340	46,563	18,418	13,104	11,536	15,839	0	8,018	0	52,020
35 - 39	1,134,694	831,610	64,783	69,192	30,893	42,671	12,718	20,031	2,529	6,311	1,197	52,760
40 - 44	1,132,963	773,887	61,757	65,096	41,830	39,110	9,657	23,117	2,457	4,643	5,372	106,037
45 - 49	1,059,692	692,696	60,424	60,865	20,926	40,952	23,508	32,136	3,965	15,502	14,186	94,531
50 - 54	976,596	645,779	64,475	54,446	20,136	35,096	7,013	26,410	6,582	20,114	0	96,546
55 - 59	696,858	446,915	50,448	37,706	17,515	30,960	2,846	19,167	9,682	10,298	854	70,466
60 - 64	798,476	484,496	41,739	49,606	26,196	16,349	14,284	20,901	2,410	12,312	5,116	125,066
65+	1,665,526	1,181,873	96,587	82,273	40,183	50,186	16,797	35,557	9,269	9,725	9,947	133,129

Table 3.41A: Distribution of Households Owning Main Dwelling by Age of Head of Household and Assessed Value of Main Dwelling Rural

Age Groups	RURAL											
	Total	< 5	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50 and above
Total	7,112,811	5,930,431	388,946	306,364	117,007	103,482	30,069	64,128	13,218	33,997	0	125,169
< 10	854	0	0	0	0	0	0	0	0	0	0	854
10 - 14	1,143	1,143	0	0	0	0	0	0	0	0	0	0
15 - 19	20,486	20,486	0	0	0	0	0	0	0	0	0	0
20 - 24	232,127	208,320	13,080	6,233	0	0	0	0	0	1,731	0	2,764
25 - 29	559,491	515,946	18,540	14,026	2,633	2,066	1,541	1,028	0	0	0	3,710
30 - 34	756,875	668,514	29,049	25,589	9,780	6,989	3,810	3,877	0	4,793	0	4,473
35 - 39	882,068	743,537	47,605	41,871	16,272	11,230	3,537	3,413	1,964	1,143	0	11,496
40 - 44	840,975	698,760	39,809	43,741	19,607	17,982	3,048	4,686	0	849	0	12,492
45 - 49	784,740	638,465	49,028	36,865	11,603	12,560	4,863	10,621	0	6,402	0	14,332
50 - 54	734,746	584,228	51,576	32,091	11,353	17,546	4,060	8,069	2,392	6,158	0	17,273
55 - 59	488,895	387,789	38,510	24,670	8,837	10,424	1,796	3,616	2,458	4,535	0	6,259
60 - 64	531,752	417,974	26,494	29,659	15,265	9,175	2,680	10,833	1,504	1,271	0	16,897
65+	1,278,659	1,045,270	75,256	51,619	21,655	15,511	4,732	17,984	4,899	7,115	0	34,618

Table 3.41B: Distribution of Households Owning Main Dwelling by Age of Head of Household and Assessed Value of Main Dwelling_Urban

Age Groups	URBAN											
	Total	< 5	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50 and above
Total	2,225,030	636,661	138,143	189,499	107,221	178,797	72,451	136,688	24,754	56,461	37,700	646,653
< 10	0	0	0	0	0	0	0	0	0	0	0	0
10 - 14	0	0	0	0	0	0	0	0	0	0	0	0
15 - 19	12,513	3,216	0	0	0	0	0	4,727	0	0	0	4,569
20 - 24	34,786	17,673	5,219	737	0	3,612	564	0	1,079	755	0	5,146
25 - 29	93,567	31,822	8,696	9,119	5,498	8,173	2,055	1,903	0	1,050	1,028	24,224
30 - 34	161,194	42,716	12,291	20,975	8,638	6,115	7,726	11,962	0	3,225	0	47,546
35 - 39	252,626	88,073	17,179	27,321	14,620	31,441	9,181	16,618	564	5,168	1,197	41,264
40 - 44	291,988	75,128	21,948	21,355	22,223	21,128	6,608	18,430	2,457	3,794	5,372	93,546
45 - 49	274,952	54,231	11,396	24,000	9,323	28,393	18,645	21,515	3,965	9,100	14,186	80,199
50 - 54	241,850	61,551	12,899	22,355	8,783	17,550	2,953	18,341	4,190	13,956	0	79,272
55 - 59	207,963	59,126	11,938	13,036	8,678	20,536	1,050	15,551	7,223	5,763	854	64,207
60 - 64	266,725	66,523	15,245	19,948	10,931	7,175	11,604	10,067	906	11,040	5,116	108,169
65+	386,867	136,603	21,331	30,654	18,528	34,675	12,064	17,574	4,370	2,610	9,947	98,511

Table 3.42: Distribution of Male headed Households Owning Main Dwelling by Age of Head of Household and Assessed Value of Main Dwelling

Age Groups	Male Headed											
	Total	< 5	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50 and above
Total	7,239,748	5,076,023	427,327	398,511	182,718	219,262	73,893	160,883	28,730	70,559	29,757	572,084
< 10	854	0	0	0	0	0	0	0	0	0	0	854
10 - 14	1,143	1,143	0	0	0	0	0	0	0	0	0	0
15 - 19	17,353	16,325	0	0	0	0	0	1,028	0	0	0	0
20 - 24	217,241	182,960	16,167	6,970	0	3,612	564	0	0	1,731	0	5,236
25 - 29	570,638	485,549	26,468	20,473	4,523	8,442	2,055	2,930	0	1,050	1,028	18,120
30 - 34	768,922	606,258	36,734	41,486	14,117	8,072	7,837	12,906	0	7,440	0	34,073
35 - 39	915,992	677,226	57,999	51,505	28,157	28,785	6,961	16,826	1,761	6,311	1,197	39,265
40 - 44	970,231	657,989	58,831	55,518	38,590	35,593	7,676	20,350	2,457	2,870	3,083	87,275
45 - 49	854,713	548,912	52,238	51,965	19,755	33,832	16,922	27,362	265	14,199	13,160	76,105
50 - 54	726,259	480,707	49,725	44,156	16,118	21,273	5,787	20,193	5,116	14,286	0	68,898
55 - 59	536,477	337,472	38,579	28,105	14,900	28,158	2,846	15,420	9,682	8,996	854	51,465
60 - 64	547,196	328,251	24,009	36,482	18,817	16,349	9,830	14,506	2,410	5,254	5,116	86,171
65+	1,112,728	753,231	66,578	61,852	27,742	35,146	13,415	29,362	7,039	8,422	5,320	104,621

Table 3.42A: Distribution of Male headed Households Owning Main Dwelling by Age of Head of Household and Assessed Value of Main Dwelling Rural

Age Groups	Male Headed Rural											
	Total	< 5	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50 and above
Total	5,648,346	4,653,560	325,561	255,477	105,314	83,353	25,684	57,561	10,260	27,739	0	103,836
< 10	854	0	0	0	0	0	0	0	0	0	0	854
10 - 14	1,143	1,143	0	0	0	0	0	0	0	0	0	0
15 - 19	14,821	14,821	0	0	0	0	0	0	0	0	0	0
20 - 24	196,282	175,476	10,948	6,233	0	0	0	0	0	1,731	0	1,894
25 - 29	496,653	459,923	17,772	14,026	737	1,197	0	1,028	0	0	0	1,970
30 - 34	649,785	571,065	28,199	21,386	9,025	5,656	3,810	2,825	0	4,215	0	3,604
35 - 39	730,977	611,840	42,477	32,822	16,272	8,952	2,234	2,543	1,197	1,143	0	11,496
40 - 44	731,024	601,913	38,782	38,129	17,896	16,299	3,048	4,686	0	849	0	9,421
45 - 49	643,201	514,599	42,553	35,092	11,603	8,979	3,322	8,490	0	5,099	0	13,463
50 - 54	553,048	435,499	40,682	26,022	10,300	12,713	4,060	6,426	1,504	3,083	0	12,757
55 - 59	387,101	301,866	30,806	16,503	8,837	10,424	1,796	3,616	2,458	4,535	0	6,259
60 - 64	386,377	291,678	19,024	22,353	11,831	9,175	2,680	9,963	1,504	1,271	0	16,897
65+	857,080	673,736	54,317	42,910	18,812	9,960	4,732	17,984	3,596	5,812	0	25,221

Table 3.42B: Distribution of Male headed Households Owning Main Dwelling by Age of Head of Household and Assessed Value of Main Dwelling_Urban

Age Groups	Male Headed Urban											
	Total	< 5	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50 and above
Total	1,591,402	422,464	101,766	143,034	77,404	135,908	48,209	103,322	18,470	42,820	29,757	468,247
< 10	0	0	0	0	0	0	0	0	0	0	0	0
10 - 14	0	0	0	0	0	0	0	0	0	0	0	0
15 - 19	2,532	1,504	0	0	0	0	0	1,028	0	0	0	0
20 - 24	20,959	7,485	5,219	737	0	3,612	564	0	0	0	0	3,342
25 - 29	73,985	25,625	8,696	6,446	3,786	7,245	2,055	1,903	0	1,050	1,028	16,150
30 - 34	119,137	35,193	8,534	20,100	5,091	2,416	4,026	10,081	0	3,225	0	30,470
35 - 39	185,015	65,386	15,521	18,684	11,884	19,834	4,726	14,283	564	5,168	1,197	27,769
40 - 44	239,207	56,076	20,048	17,388	20,695	19,294	4,628	15,664	2,457	2,021	3,083	77,854
45 - 49	211,512	34,313	9,685	16,872	8,152	24,853	13,599	18,872	265	9,100	13,160	62,642
50 - 54	173,211	45,207	9,043	18,134	5,818	8,560	1,727	13,767	3,612	11,203	0	56,141
55 - 59	149,377	35,605	7,773	11,602	6,063	17,735	1,050	11,804	7,223	4,461	854	45,205
60 - 64	160,819	36,573	4,985	14,129	6,986	7,175	7,150	4,543	906	3,982	5,116	69,274
65+	255,647	79,495	12,261	18,942	8,930	25,186	8,683	11,378	3,443	2,610	5,320	79,400

Table3.43: Distribution of Female Households Owning Main Dwelling by Age of Head of Household and Assessed Value of Main Dwelling

Age Groups	Female Headed											
	Total	< 5	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50 and above
Total	2,098,093	1,491,069	99,762	97,352	41,510	63,018	28,626	39,933	9,242	19,900	7,943	199,739
< 10	0	0	0	0	0	0	0	0	0	0	0	0
10 - 14	0	0	0	0	0	0	0	0	0	0	0	0
15 - 19	15,646	7,377	0	0	0	0	0	3,700	0	0	0	4,569
20 - 24	49,672	43,032	2,132	0	0	0	0	0	1,079	755	0	2,674
25 - 29	82,419	62,219	768	2,673	3,608	1,798	1,541	0	0	0	0	9,813
30 - 34	149,148	104,972	4,607	5,078	4,301	5,033	3,700	2,933	0	578	0	17,946
35 - 39	218,702	154,383	6,784	17,687	2,736	13,886	5,757	3,205	768	0	0	13,495
40 - 44	162,732	115,898	2,926	9,578	3,240	3,517	1,981	2,767	0	1,773	2,289	18,763
45 - 49	204,979	143,785	8,186	8,900	1,171	7,121	6,586	4,774	3,700	1,302	1,026	18,427
50 - 54	250,337	165,072	14,750	10,290	4,018	13,823	1,226	6,217	1,466	5,828	0	27,648
55 - 59	160,380	109,443	11,870	9,601	2,615	2,802	0	3,747	0	1,302	0	19,002
60 - 64	251,281	156,246	17,730	13,124	7,379	0	4,455	6,395	0	7,058	0	38,895
65+	552,799	428,642	30,010	20,422	12,441	15,040	3,381	6,196	2,230	1,302	4,627	28,508

Table3.43A: Distribution of Female Households Owning Main Dwelling by Age of Head of Household and Assessed Value of Main Dwelling Rural

Age Groups	Female Headed Rural											
	Total	< 5	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50 and above
Total	1,464,465	1,276,871	63,384	50,887	11,693	20,129	4,385	6,567	2,957	6,258	0	21,333
< 10	0	0	0	0	0	0	0	0	0	0	0	0
10 - 14	0	0	0	0	0	0	0	0	0	0	0	0
15 - 19	5,665	5,665	0	0	0	0	0	0	0	0	0	0
20 - 24	35,845	32,844	2,132	0	0	0	0	0	0	0	0	870
25 - 29	62,837	56,023	768	0	1,896	870	1,541	0	0	0	0	1,740
30 - 34	107,090	97,449	850	4,203	755	1,333	0	1,053	0	578	0	870
35 - 39	151,091	131,696	5,127	9,049	0	2,278	1,302	870	768	0	0	0
40 - 44	109,951	96,847	1,026	5,612	1,712	1,683	0	0	0	0	0	3,070
45 - 49	141,539	123,866	6,474	1,773	0	3,581	1,541	2,132	0	1,302	0	870
50 - 54	181,698	148,729	10,894	6,069	1,053	4,832	0	1,643	887	3,075	0	4,516
55 - 59	101,794	85,922	7,705	8,167	0	0	0	0	0	0	0	0
60 - 64	145,375	126,296	7,470	7,305	3,434	0	0	870	0	0	0	0
65+	421,579	371,534	20,939	8,710	2,843	5,551	0	0	1,302	1,302	0	9,397

Table3.43B: Distribution of Female Households Owning Main Dwelling by Age of Head of Household and Assessed Value of Main Dwelling_Urban

Age Groups	Female Headed Urban											
	Total	< 5	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50 and above
Total	633,628	214,198	36,377	46,464	29,817	42,889	24,242	33,367	6,285	13,641	7,943	178,406
< 10	0	0	0	0	0	0	0	0	0	0	0	0
10 - 14	0	0	0	0	0	0	0	0	0	0	0	0
15 - 19	9,981	1,712	0	0	0	0	0	3,700	0	0	0	4,569
20 - 24	13,826	10,188	0	0	0	0	0	0	1,079	755	0	1,804
25 - 29	19,582	6,196	0	2,673	1,712	928	0	0	0	0	0	8,073
30 - 34	42,057	7,523	3,757	875	3,546	3,700	3,700	1,881	0	0	0	17,076
35 - 39	67,611	22,687	1,657	8,638	2,736	11,607	4,455	2,336	0	0	0	13,495
40 - 44	52,781	19,051	1,900	3,966	1,528	1,834	1,981	2,767	0	1,773	2,289	15,692
45 - 49	63,440	19,919	1,712	7,127	1,171	3,540	5,045	2,643	3,700	0	1,026	17,557
50 - 54	68,639	16,343	3,856	4,221	2,965	8,990	1,226	4,575	578	2,753	0	23,132
55 - 59	58,586	23,521	4,165	1,434	2,615	2,802	0	3,747	0	1,302	0	19,002
60 - 64	105,906	29,950	10,260	5,819	3,945	0	4,455	5,525	0	7,058	0	38,895
65+	131,220	57,108	9,071	11,712	9,598	9,489	3,381	6,196	928	0	4,627	19,111

Table 3.51: Distribution of Households by Age of Head of Household and Number of Rooms for Sleeping

Age Groups	TOTAL							
	Total	1	2	3	4	5	6	7+
Total	11,454,818	2,598,990	3,660,959	3,228,146	1,192,910	417,298	212,134	144,381
< 10	854	0	0	0	0	854	0	0
10 - 14	1,143	1,143	0	0	0	0	0	0
15 - 19	55,192	33,138	14,006	8,048	0	0	0	0
20 - 24	451,528	278,440	111,784	42,936	13,523	1,002	849	2,994
25 - 29	1,083,374	521,715	343,317	156,340	39,219	10,352	8,862	3,569
30 - 34	1,377,119	439,603	550,743	289,944	59,358	20,964	9,967	6,541
35 - 39	1,465,468	333,871	543,833	389,249	134,333	44,636	7,020	12,524
40 - 44	1,389,951	219,145	449,111	490,630	152,578	41,506	23,537	13,444
45 - 49	1,216,022	147,804	370,529	456,862	155,874	55,843	15,398	13,713
50 - 54	1,074,217	141,469	307,247	361,458	149,929	65,543	30,169	18,402
55 - 59	753,387	102,214	182,171	255,997	132,909	49,155	24,567	6,373
60 - 64	846,824	96,505	228,408	298,784	122,729	38,975	31,211	30,212
65+	1,739,740	283,942	559,810	477,899	232,458	88,469	60,553	36,610

Table 3.51A: Distribution of Households by Age of Head of Household and Number of Rooms for Sleeping Rural

Age Groups	RURAL							
	Total	1	2	3	4	5	6	7+
Total	7,701,218	1,457,378	2,746,632	2,238,258	797,767	252,798	116,140	92,246
< 10	854	0	0	0	0	854	0	0
10 - 14	1,143	1,143	0	0	0	0	0	0
15 - 19	32,979	19,467	10,875	2,637	0	0	0	0
20 - 24	287,938	156,387	90,879	29,688	6,988	1,002	0	2,994
25 - 29	694,426	252,297	271,338	126,606	32,740	5,556	3,348	2,541
30 - 34	864,280	199,575	385,228	217,106	41,133	13,846	4,552	2,841
35 - 39	957,110	174,601	376,501	281,018	85,573	26,797	4,939	7,682
40 - 44	907,492	107,600	328,845	331,022	95,114	26,945	8,686	9,281
45 - 49	827,536	78,113	282,778	300,641	112,330	32,471	12,188	9,015
50 - 54	767,580	98,687	253,908	246,880	101,721	31,333	18,833	16,217
55 - 59	510,910	70,479	139,201	167,185	81,342	32,676	15,562	4,465
60 - 64	545,647	66,875	172,605	181,311	77,438	22,994	10,156	14,267
65+	1,303,321	232,154	434,474	354,164	163,388	58,324	37,875	22,943

Table 3.51B: Distribution of Households by Age of Head of Household and Number of Rooms for Sleeping Urban

Age Groups	URBAN							
	Total	1	2	3	4	5	6	7+
Total	3,753,600	1,141,612	914,327	989,888	395,143	164,500	95,994	52,136
< 10	0	0	0	0	0	0	0	0
10 - 14	0	0	0	0	0	0	0	0
15 - 19	22,213	13,672	3,130	5,411	0	0	0	0
20 - 24	163,590	122,052	20,905	13,248	6,534	0	849	0
25 - 29	388,948	269,418	71,979	29,734	6,480	4,797	5,514	1,028
30 - 34	512,839	240,028	165,514	72,838	18,225	7,118	5,415	3,700
35 - 39	508,357	159,271	167,332	108,231	48,760	17,839	2,081	4,843
40 - 44	482,459	111,545	120,266	159,608	57,464	14,561	14,851	4,163
45 - 49	388,485	69,691	87,750	156,221	43,543	23,372	3,210	4,698
50 - 54	306,637	42,782	53,339	114,578	48,208	34,210	11,335	2,185
55 - 59	242,476	31,735	42,970	88,812	51,567	16,479	9,005	1,908
60 - 64	301,177	29,630	55,804	117,472	45,291	15,980	21,055	15,945
65+	436,420	51,788	125,337	123,735	69,070	30,145	22,678	13,667

Tables 3.52: Distribution of Male headed Households by Age of Head of Household and Number of Rooms for Sleeping

Age Groups	Male Headed							
	Total	1	2	3	4	5	6	7+
Total	8,738,690	1,821,650	2,744,143	2,546,940	998,798	346,164	163,566	117,429
< 10	854	0	0	0	0	854	0	0
10 - 14	1,143	1,143	0	0	0	0	0	0
15 - 19	29,854	17,974	9,244	2,637	0	0	0	0
20 - 24	344,119	208,898	85,226	34,927	11,485	1,002	849	1,731
25 - 29	878,727	397,103	290,565	137,772	34,096	7,631	8,862	2,699
30 - 34	1,101,387	333,754	455,740	237,869	43,951	20,964	6,267	2,841
35 - 39	1,170,986	250,974	426,906	324,979	114,590	38,229	5,759	9,549
40 - 44	1,138,087	149,694	367,533	411,573	137,421	38,314	22,667	10,884
45 - 49	965,139	99,266	280,013	376,563	138,748	46,756	13,686	10,107
50 - 54	797,164	96,813	205,882	282,553	120,359	50,622	24,638	16,297
55 - 59	572,161	68,971	124,291	202,169	107,944	44,074	21,700	3,011
60 - 64	583,060	57,921	144,283	207,097	98,696	31,254	15,545	28,264
65+	1,156,008	139,139	354,461	328,800	191,508	66,462	43,591	32,046

Tables 3.52A: Distribution of Male headed Households by Age of Head of Household and Number of Rooms for Sleeping Rural

Age Groups	Male Headed Rural							
	Total	1	2	3	4	5	6	7+
Total	6,063,013	1,039,610	2,109,626	1,833,900	682,206	216,679	100,343	80,649
< 10	854	0	0	0	0	854	0	0
10 - 14	1,143	1,143	0	0	0	0	0	0
15 - 19	22,076	12,456	6,983	2,637	0	0	0	0
20 - 24	236,047	128,995	71,602	27,187	5,529	1,002	0	1,731
25 - 29	594,857	208,568	234,090	114,090	30,256	2,834	3,348	1,671
30 - 34	730,951	154,413	337,494	185,443	32,362	13,846	4,552	2,841
35 - 39	785,856	128,416	301,938	243,258	75,908	25,847	3,678	6,812
40 - 44	781,659	82,965	283,758	285,443	87,975	25,682	7,816	8,019
45 - 49	673,754	56,756	212,027	252,096	100,858	31,596	12,188	8,234
50 - 54	573,666	64,381	176,440	193,106	83,907	22,888	18,833	14,112
55 - 59	398,388	49,278	94,461	137,901	70,791	30,063	13,920	1,973
60 - 64	394,015	38,320	116,574	139,497	61,016	18,772	6,647	13,188
65+	869,748	113,919	274,258	253,244	133,605	43,294	29,360	22,068

Tables 3.52B: Distribution of Male headed Households by Age of Head of Household and Number of Rooms for Sleeping Urban

Age Groups	Male Headed Urban							
	Total	1	2	3	4	5	6	7+
Total	2,675,677	782,040	634,517	713,040	316,592	129,485	63,224	36,779
< 10	0	0	0	0	0	0	0	0
10 - 14	0	0	0	0	0	0	0	0
15 - 19	7,778	5,517	2,260	0	0	0	0	0
20 - 24	108,073	79,903	13,624	7,740	5,956	0	849	0
25 - 29	283,870	188,535	56,475	23,682	3,840	4,797	5,514	1,028
30 - 34	370,436	179,341	118,246	52,427	11,589	7,118	1,716	0
35 - 39	385,130	122,558	124,968	81,722	38,682	12,382	2,081	2,737
40 - 44	356,428	66,729	83,774	126,130	49,446	12,632	14,851	2,865
45 - 49	291,385	42,510	67,985	124,468	37,891	15,161	1,498	1,873
50 - 54	223,498	32,433	29,443	89,447	36,452	27,734	5,805	2,185
55 - 59	173,774	19,693	29,830	64,268	37,153	14,012	7,780	1,038
60 - 64	189,045	19,600	27,709	67,600	37,680	12,482	8,898	15,075
65+	286,260	25,220	80,202	75,556	57,903	23,168	14,231	9,979

Table 3.53: Distribution of Female Households by Age of Head of Household and Number of Rooms for Sleeping

Age Groups	Female Headed							
	Total	1	2	3	4	5	6	7+
Total	2,716,128	777,339	916,816	681,207	194,111	71,135	48,567	26,953
< 10	0	0	0	0	0	0	0	0
10 - 14	0	0	0	0	0	0	0	0
15 - 19	25,338	15,165	4,762	5,411	0	0	0	0
20 - 24	107,408	69,542	26,558	8,009	2,037	0	0	1,263
25 - 29	204,646	124,612	52,752	18,568	5,123	2,722	0	870
30 - 34	275,732	105,849	95,002	52,074	15,408	0	3,700	3,700
35 - 39	294,482	82,897	116,928	64,270	19,743	6,407	1,262	2,975
40 - 44	251,863	69,451	81,578	79,057	15,156	3,191	870	2,560
45 - 49	250,882	48,538	90,516	80,299	17,126	9,086	1,712	3,606
50 - 54	277,053	44,656	101,365	78,905	29,571	14,920	5,530	2,105
55 - 59	181,225	33,243	57,880	53,828	24,965	5,081	2,867	3,362
60 - 64	263,764	38,585	84,125	91,687	24,032	7,721	15,666	1,949
65+	583,732	144,802	205,350	149,099	40,950	22,007	16,961	4,563

Table 3.53A: Distribution of Female Households by Age of Head of Household and Number of Rooms for Sleeping Rural

Age Groups	Female Headed Rural							
	Total	1	2	3	4	5	6	7+
Total	1,638,205	417,768	637,006	404,358	115,560	36,119	15,797	11,596
< 10	0	0	0	0	0	0	0	0
10 - 14	0	0	0	0	0	0	0	0
15 - 19	10,903	7,011	3,892	0	0	0	0	0
20 - 24	51,891	27,392	19,277	2,501	1,459	0	0	1,263
25 - 29	99,569	43,729	37,248	12,516	2,483	2,722	0	870
30 - 34	133,329	45,162	47,734	31,663	8,771	0	0	0
35 - 39	171,255	46,185	74,563	37,760	9,665	950	1,262	870
40 - 44	125,833	24,635	45,087	45,579	7,138	1,263	870	1,262
45 - 49	153,783	21,357	70,751	48,545	11,473	875	0	781
50 - 54	193,914	34,307	77,469	53,774	17,815	8,444	0	2,105
55 - 59	112,523	21,200	44,740	29,284	10,552	2,614	1,641	2,492
60 - 64	151,633	28,555	56,031	41,815	16,422	4,222	3,509	1,079
65+	433,572	118,235	160,215	100,920	29,783	15,030	8,515	875

Table 3.53B: Distribution of Female Households by Age of Head of Household and Number of Rooms for Sleeping Urban

Age Groups	Female Headed Urban								
	Total	1	2	3	4	5	6	7+	
Total	1,077,923	359,572	279,810	276,849	78,551	35,015	32,770	15,356	
< 10	0	0	0	0	0	0	0	0	
10 - 14	0	0	0	0	0	0	0	0	
15 - 19	14,435	8,154	870	5,411	0	0	0	0	
20 - 24	55,517	42,149	7,281	5,508	578	0	0	0	
25 - 29	105,078	80,882	15,504	6,052	2,640	0	0	0	
30 - 34	142,403	60,687	47,268	20,411	6,637	0	3,700	3,700	
35 - 39	123,227	36,713	42,365	26,510	10,078	5,457	0	2,105	
40 - 44	126,030	44,816	36,492	33,477	8,018	1,929	0	1,298	
45 - 49	97,100	27,181	19,765	31,753	5,653	8,211	1,712	2,826	
50 - 54	83,139	10,349	23,896	25,131	11,756	6,476	5,530	0	
55 - 59	68,703	12,043	13,140	24,544	14,414	2,467	1,226	870	
60 - 64	112,132	10,029	28,095	49,872	7,611	3,499	12,156	870	
65+	150,160	26,568	45,134	48,179	11,168	6,977	8,447	3,688	

Table 3.6: Distribution of Households by Number of Persons Living in the Dwelling and Number of Rooms for Sleeping

Number of Persons	Number of Rooms								
	Total	1	2	3	4	5	6	7+	
Total	11,454,818	2,598,990	3,660,959	3,228,146	1,192,910	417,298	212,134	144,381	
1	928,220	586,219	204,215	91,976	29,520	13,236	2,790	265	
2	1,542,754	596,879	552,626	269,752	74,862	22,586	14,741	11,308	
3	2,221,076	671,943	840,815	508,731	114,747	50,381	21,572	12,887	
4	2,079,189	335,867	737,640	721,838	198,740	53,170	21,757	10,177	
5 - 6	2,952,513	289,370	947,033	1,093,705	421,175	110,204	53,485	37,541	
7 - 9	1,334,880	82,192	320,249	462,345	267,232	110,870	59,454	32,539	
10+	396,187	36,520	58,382	79,799	86,634	56,852	38,336	39,665	

Table 3.7: Distribution of Households by Region and Main Wall Materials used to build the Main Dwelling

Region Name	TOTAL								
	Total	Stones	Cement bricks	Mud + wood	Mud + cement	Wood only	Baked bricks	Grass	Other (specify)
Total	11,454,818	111,119	2,834,566	2,059,303	526,637	65,623	4,615,200	21,826	1,220,544
Dodoma	590,106	0	86,303	181,706	58,967	0	190,477	1,504	71,149
Arusha	469,204	2,393	195,877	98,522	39,660	9,747	94,027	0	28,978
Kilimanjaro	499,128	26,856	198,442	119,053	24,344	42,268	63,884	0	24,282
Tanga	572,083	20,601	91,214	239,120	46,816	0	109,899	0	64,433
Morogoro	655,833	1,671	69,084	77,236	33,706	1,712	438,880	0	33,544
Pwani	333,150	0	140,115	118,720	19,656	0	5,116	9,424	40,119
Dar es salaam	1,417,251	7,223	1,388,270	7,223	10,923	0	0	0	3,612
Lindi	293,907	768	24,859	97,171	9,012	0	125,192	768	36,138
Mtwara	448,463	4,657	99,001	116,291	27,637	0	158,292	0	42,584
Ruvuma	392,519	2,004	16,153	5,059	1,026	0	368,277	0	0
Iringa	289,324	0	13,342	40,854	8,901	0	143,889	0	82,338
Mbeya	412,915	11,613	17,008	15,929	22,198	2,132	295,171	1,053	47,812
Singida	334,525	5,147	35,176	78,083	28,320	0	115,676	0	72,123
Tabora	483,265	14,871	43,381	49,510	24,785	4,957	137,595	0	208,165
Rukwa	259,632	662	2,665	16,073	2,003	0	232,929	1,325	3,974
Kigoma	483,363	3,728	19,843	84,394	16,175	0	343,108	0	16,115
Shinyanga	339,428	1,754	48,788	146,091	51,345	0	47,922	0	43,527
Kagera	678,574	3,462	6,966	221,041	8,696	0	349,799	1,731	86,880
Mwanza	630,094	0	166,412	101,847	27,559	3,215	208,320	0	122,742
Mara	403,837	1,028	56,946	100,408	5,138	1,028	220,766	3,108	15,415
Manyara	354,642	906	45,578	82,673	37,249	0	147,318	1,812	39,105
Njombe	221,565	564	18,199	564	578	564	189,160	564	11,371
Katavi	103,890	265	537	4,257	1,598	0	91,372	537	5,324
Simiyu	298,960	762	41,315	43,731	19,979	0	80,659	0	112,515
Geita	76,553	184	1,665	11,640	367	0	54,396	0	8,300
Songwe	412,608	0	7,425	2,107	0	0	403,076	0	0

Table 3.7A: Distribution of Households by Region and Main Wall Materials used to build the Main Dwelling Rural

Region Name:	RURAL								
	Total	Stones	Cement bricks	Mud + wood	Mud + cement	Wood only	Baked bricks	Grass	Other (specify)
Total	7,701,218	43,646	573,093	1,868,112	400,244	56,760	3,595,901	20,898	1,142,565
Dodoma	499,290	0	22,713	178,697	46,821	0	178,405	1,504	71,149
Arusha	306,509	2,393	83,902	88,833	25,243	7,296	69,864	0	28,978
Kilimanjaro	383,952	11,505	122,929	110,059	24,344	42,268	48,564	0	24,282
Tanga	439,666	5,861	29,375	217,133	43,903	0	87,770	0	55,624
Morogoro	453,798	0	11,698	70,552	22,009	1,712	314,284	0	33,544
Pwani	216,087	0	61,555	93,017	14,519	0	3,417	9,424	34,154
Dar es salaam	0	0	0	0	0	0	0	0	0
Lindi	237,279	0	18,078	84,321	6,014	0	94,977	768	33,122
Mtwara	337,833	4,657	36,784	97,719	25,350	0	133,026	0	40,298
Ruvuma	286,460	2,004	8,064	5,059	0	0	271,333	0	0
Iringa	211,231	0	3,686	37,132	4,441	0	94,782	0	71,189
Mbeya	254,064	0	2,107	14,850	6,371	1,053	194,666	1,053	33,964
Singida	295,744	1,709	17,963	70,331	26,569	0	111,363	0	67,809
Tabora	408,880	4,927	13,609	45,815	23,523	1,232	115,303	0	204,470
Rukwa	199,587	0	2,665	11,356	1,325	0	179,604	662	3,974
Kigoma	391,543	2,495	0	71,917	8,719	0	293,530	0	14,882
Shinyanga	260,910	1,754	15,657	126,060	41,773	0	35,646	0	40,020
Kagera	600,054	3,462	1,773	221,041	8,696	0	276,471	1,731	86,880
Mwanza	387,434	0	30,578	84,088	9,722	1,607	151,673	0	109,766
Mara	325,812	1,028	34,163	96,247	5,138	1,028	169,686	3,108	15,415
Manyara	299,895	906	13,632	82,673	34,532	0	127,236	1,812	39,105
Njombe	161,848	0	5,699	564	578	564	144,778	564	9,099
Katavi	75,873	0	0	3,720	1,067	0	65,491	272	5,324
Simiyu	287,419	762	33,621	43,731	19,217	0	77,574	0	112,515
Geita	62,706	184	734	11,089	367	0	43,329	0	7,002
Songwe	317,343	0	2,107	2,107	0	0	313,130	0	0

Table 3.7B: Distribution of Households by Region and Main Wall Materials used to build the Main Dwelling_Urban

Region Name:	URBAN								
	Total	Stones	Cement bricks	Mud + wood	Mud + cement	Wood only	Baked bricks	Grass	Other (specify)
Total	3,753,600	67,473	2,261,474	191,191	126,393	8,863	1,019,299	928	77,979
Dodoma	90,817	0	63,590	3,009	12,145	0	12,072	0	0
Arusha	162,694	0	111,975	9,689	14,416	2,451	24,163	0	0
Kilimanjaro	115,176	15,351	75,513	8,993	0	0	15,320	0	0
Tanga	132,417	14,741	61,839	21,987	2,913	0	22,129	0	8,809
Morogoro	202,036	1,671	57,386	6,684	11,698	0	124,596	0	0
Pwani	117,063	0	78,560	25,703	5,137	0	1,698	0	5,965
Dar es salaam	1,417,251	7,223	1,388,270	7,223	10,923	0	0	0	3,612
Lindi	56,628	768	6,781	12,850	2,998	0	30,215	0	3,016
Mtwara	110,630	0	62,217	18,573	2,287	0	25,266	0	2,287
Ruvuma	106,059	0	8,089	0	1,026	0	96,944	0	0
Iringa	78,094	0	9,656	3,722	4,459	0	49,107	0	11,149
Mbeya	158,851	11,613	14,901	1,079	15,826	1,079	100,506	0	13,848
Singida	38,780	3,438	17,213	7,752	1,750	0	4,314	0	4,314
Tabora	74,385	9,944	29,772	3,695	1,262	3,725	22,292	0	3,695
Rukwa	60,045	662	0	4,717	678	0	53,325	662	0
Kigoma	91,820	1,233	19,843	12,477	7,456	0	49,578	0	1,233
Shinyanga	78,517	0	33,131	20,031	9,572	0	12,276	0	3,507
Kagera	78,520	0	5,193	0	0	0	73,328	0	0
Mwanza	242,659	0	135,835	17,759	17,837	1,607	56,647	0	12,976
Mara	78,024	0	22,783	4,161	0	0	51,080	0	0
Manyara	54,747	0	31,947	0	2,718	0	20,083	0	0
Njombe	59,717	564	12,500	0	0	0	44,382	0	2,271
Katavi	28,016	265	537	537	530	0	25,882	265	0
Simiyu	11,541	0	7,694	0	762	0	3,085	0	0
Geita	13,847	0	931	551	0	0	11,067	0	1,298
Songwe	95,264	0	5,318	0	0	0	89,946	0	0

Table 3.8: Distribution of Households by Region and Main Material used for Flooring

Region Name:	TOTAL					
	Total	Cement	Tiles	Wood	Earth/sand	Dung
Total	11,454,818	5,247,025	395,943	16,405	5,713,000	82,445
Dodoma	590,106	158,737	24,181	0	407,188	0
Arusha	469,204	295,973	27,578	1,197	113,288	31,168
Kilimanjaro	499,128	285,460	20,468	7,629	185,572	0
Tanga	572,083	165,913	8,773	0	397,397	0
Morogoro	655,833	322,842	18,463	0	314,527	0
Pwani	333,150	134,068	15,430	0	183,652	0
Dar es salaam	1,417,251	1,209,892	167,543	0	39,816	0
Lindi	293,907	63,264	0	0	229,894	749
Mtwara	448,463	148,224	6,916	0	292,180	1,143
Ruvuma	392,519	208,356	4,057	1,002	178,102	1,002
Iringa	289,324	139,430	2,230	0	147,665	0
Mbeya	412,915	271,920	5,292	2,107	105,001	28,595
Singida	334,525	90,107	4,272	0	240,146	0
Tabora	483,265	147,239	6,189	0	328,605	1,232
Rukwa	259,632	88,526	1,341	0	169,103	662
Kigoma	483,363	121,465	7,426	1,233	353,240	0
Shinyanga	339,428	101,866	1,775	0	235,787	0
Kagera	678,574	170,509	8,654	0	494,218	5,193
Mwanza	630,094	331,061	21,012	1,607	274,766	1,646
Mara	403,837	162,467	20,728	1,053	212,345	7,244
Manyara	354,642	108,345	5,457	0	239,028	1,812
Njombe	221,565	128,810	2,850	578	89,328	0
Katavi	103,890	41,795	1,604	0	60,490	0
Simiyu	298,960	55,142	3,067	0	239,989	762
Geita	76,553	32,274	1,106	0	42,989	184
Songwe	412,608	263,340	9,532	0	138,683	1,053

Table 3.8A: Distribution of Households by Region and Main Material used for Flooring Rural

Region Name:	RURAL					
	Total	Cement	Tiles	Wood	Earth/sand	Dung
Total	7,701,218	2,349,144	69,335	15,352	5,188,514	78,873
Dodoma	499,290	110,301	1,504	0	387,484	0
Arusha	306,509	168,269	7,179	1,197	99,893	29,971
Kilimanjaro	383,952	186,905	11,536	7,629	177,881	0
Tanga	439,666	81,910	1,456	0	356,300	0
Morogoro	453,798	186,467	5,013	0	262,317	0
Pwani	216,087	68,390	4,287	0	143,409	0
Dar es salaam	0	0	0	0	0	0
Lindi	237,279	43,650	0	0	192,880	749
Mtwara	337,833	74,572	1,143	0	262,117	0
Ruvuma	286,460	127,639	1,002	1,002	155,816	1,002
Iringa	211,231	78,490	0	0	132,741	0
Mbeya	254,064	132,184	0	2,107	91,179	28,595
Singida	295,744	57,369	1,709	0	236,666	0
Tabora	408,880	96,407	2,493	0	309,979	0
Rukwa	199,587	54,505	1,341	0	143,079	662
Kigoma	391,543	52,073	3,728	1,233	334,509	0
Shinyanga	260,910	53,923	0	0	206,987	0
Kagera	600,054	97,223	5,193	0	492,446	5,193
Mwanza	387,434	141,873	3,215	1,607	239,093	1,646
Mara	325,812	118,831	8,246	0	191,492	7,244
Manyara	299,895	63,629	1,812	0	232,643	1,812
Njombe	161,848	81,055	1,143	578	79,072	0
Katavi	75,873	20,209	265	0	55,399	0
Simiyu	287,419	44,363	2,305	0	239,989	762
Geita	62,706	21,740	551	0	40,231	184
Songwe	317,343	187,164	4,213	0	124,913	1,053

Table 3.8B: Distribution of Households by Region and Main Material used for Flooring Urban

Region Name:	URBAN					
	Total	Cement	Tiles	Wood	Earth/sand	Dung
Total	3,753,600	2,897,881	326,609	1,053	524,486	3,572
Dodoma	90,817	48,435	22,677	0	19,704	0
Arusha	162,694	127,704	20,399	0	13,394	1,197
Kilimanjaro	115,176	98,554	8,931	0	7,691	0
Tanga	132,417	84,003	7,317	0	41,096	0
Morogoro	202,036	136,375	13,450	0	52,210	0
Pwani	117,063	65,678	11,143	0	40,243	0
Dar es salaam	1,417,251	1,209,892	167,543	0	39,816	0
Lindi	56,628	19,613	0	0	37,015	0
Mtwara	110,630	73,651	5,773	0	30,062	1,143
Ruvuma	106,059	80,717	3,055	0	22,287	0
Iringa	78,094	60,939	2,230	0	14,924	0
Mbeya	158,851	139,737	5,292	0	13,822	0
Singida	38,780	32,737	2,563	0	3,480	0
Tabora	74,385	50,832	3,695	0	18,626	1,232
Rukwa	60,045	34,021	0	0	26,024	0
Kigoma	91,820	69,391	3,698	0	18,730	0
Shinyanga	78,517	47,943	1,775	0	28,800	0
Kagera	78,520	73,286	3,462	0	1,773	0
Mwanza	242,659	189,188	17,798	0	35,673	0
Mara	78,024	43,637	12,482	1,053	20,853	0
Manyara	54,747	44,716	3,645	0	6,385	0
Njombe	59,717	47,754	1,707	0	10,256	0
Katavi	28,016	21,586	1,339	0	5,091	0
Simiyu	11,541	10,779	762	0	0	0
Geita	13,847	10,534	555	0	2,758	0
Songwe	95,264	76,176	5,318	0	13,771	0

Table 3.9: Distribution of Households by Region and Main Material used for Roofing

Region Name:	TOTAL						
	Total	Iron sheet	Tiles	Concrete	Asbestos sheet	Grass/leaves	Mud
Total	11,454,818	9,299,254	43,889	16,804	19,475	1,861,542	213,854
Dodoma	590,106	411,299	0	0	0	77,203	101,604
Arusha	469,204	401,762	4,815	0	1,226	61,401	0
Kilimanjaro	499,128	470,877	5,148	0	0	21,832	1,271
Tanga	572,083	487,084	4,369	0	0	80,630	0
Morogoro	655,833	527,936	3,342	0	1,671	121,213	1,671
Pwani	333,150	234,872	1,698	0	0	96,579	0
Dar es salaam	1,417,251	1,384,571	10,923	14,535	7,223	0	0
Lindi	293,907	179,317	0	0	0	114,591	0
Mtwara	448,463	300,183	0	0	0	148,279	0
Ruvuma	392,519	315,003	1,002	0	0	76,514	0
Iringa	289,324	230,758	0	0	3,704	54,862	0
Mbeya	412,915	389,536	2,132	0	0	21,247	0
Singida	334,525	220,432	0	0	0	18,880	95,212
Tabora	483,265	270,143	1,232	0	3,695	205,672	2,523
Rukwa	259,632	191,671	0	662	0	67,299	0
Kigoma	483,363	368,122	3,698	0	0	111,543	0
Shinyanga	339,428	232,342	0	0	0	107,085	0
Kagera	678,574	607,356	0	0	0	71,218	0
Mwanza	630,094	528,013	1,607	1,607	0	97,259	1,607
Mara	403,837	308,667	0	0	1,028	94,142	0
Manyara	354,642	254,669	0	0	928	89,080	9,964
Njombe	221,565	210,718	0	0	0	10,848	0
Katavi	103,890	75,653	265	0	0	27,971	0
Simiyu	298,960	245,286	1,524	0	0	52,150	0
Geita	76,553	65,862	0	0	0	10,691	0
Songwe	412,608	387,122	2,132	0	0	23,353	0

Table 3.9A: Distribution of Households by Region and Main Material used for Roofing Rural

Region Name:	RURAL						
	Total	Iron sheet	Tiles	Concrete	Asbestos sheet	Grass/leaves	Mud
Total	7,701,218	5,703,970	16,599	662	4,632	1,767,592	207,763
Dodoma	499,290	328,078	0	0	0	75,699	95,513
Arusha	306,509	245,109	0	0	0	61,401	0
Kilimanjaro	383,952	356,972	3,876	0	0	21,832	1,271
Tanga	439,666	372,214	0	0	0	67,452	0
Morogoro	453,798	337,638	1,671	0	0	112,817	1,671
Pwani	216,087	129,781	849	0	0	85,457	0
Dar es salaam	0	0	0	0	0	0	0
Lindi	237,279	138,555	0	0	0	98,725	0
Mtwara	337,833	197,669	0	0	0	140,164	0
Ruvuma	286,460	215,029	1,002	0	0	70,430	0
Iringa	211,231	154,876	0	0	3,704	52,650	0
Mbeya	254,064	231,764	1,053	0	0	21,247	0
Singida	295,744	181,652	0	0	0	18,880	95,212
Tabora	408,880	199,453	1,232	0	0	205,672	2,523
Rukwa	199,587	136,278	0	662	0	62,646	0
Kigoma	391,543	281,263	2,465	0	0	107,815	0
Shinyanga	260,910	166,080	0	0	0	94,830	0
Kagera	600,054	528,836	0	0	0	71,218	0
Mwanza	387,434	290,175	1,607	0	0	94,045	1,607
Mara	325,812	233,776	0	0	0	92,037	0
Manyara	299,895	199,923	0	0	928	89,080	9,964
Njombe	161,848	151,001	0	0	0	10,848	0
Katavi	75,873	48,969	265	0	0	26,639	0
Simiyu	287,419	233,745	1,524	0	0	52,150	0
Geita	62,706	52,198	0	0	0	10,507	0
Songwe	317,343	292,936	1,053	0	0	23,353	0

Table 3.9B: Distribution of Households by Region and Main Material used for Roofing Urban

Region Name:	URBAN						
	Total	Iron sheet	Tiles	Concrete	Asbestos sheet	Grass/leaves	Mud
Total	3,753,600	3,595,284	27,290	16,142	14,843	93,950	6,091
Dodoma	90,817	83,221	0	0	0	1,504	6,091
Arusha	162,694	156,653	4,815	0	1,226	0	0
Kilimanjaro	115,176	113,905	1,271	0	0	0	0
Tanga	132,417	114,870	4,369	0	0	13,178	0
Morogoro	202,036	190,297	1,671	0	1,671	8,396	0
Pwani	117,063	105,092	849	0	0	11,122	0
Dar es salaam	1,417,251	1,384,571	10,923	14,535	7,223	0	0
Lindi	56,628	40,762	0	0	0	15,866	0
Mtwara	110,630	102,515	0	0	0	8,115	0
Ruvuma	106,059	99,974	0	0	0	6,085	0
Iringa	78,094	75,882	0	0	0	2,212	0
Mbeya	158,851	157,772	1,079	0	0	0	0
Singida	38,780	38,780	0	0	0	0	0
Tabora	74,385	70,690	0	0	3,695	0	0
Rukwa	60,045	55,393	0	0	0	4,652	0
Kigoma	91,820	86,859	1,233	0	0	3,728	0
Shinyanga	78,517	66,262	0	0	0	12,255	0
Kagera	78,520	78,520	0	0	0	0	0
Mwanza	242,659	237,837	0	1,607	0	3,215	0
Mara	78,024	74,891	0	0	1,028	2,105	0
Manyara	54,747	54,747	0	0	0	0	0
Njombe	59,717	59,717	0	0	0	0	0
Katavi	28,016	26,684	0	0	0	1,333	0
Simiyu	11,541	11,541	0	0	0	0	0
Geita	13,847	13,663	0	0	0	184	0
Songwe	95,264	94,185	1,079	0	0	0	0

Table 3.10: Distribution of Households by Region and Main Source of Drinking Water

Region Name:	TOTAL												
	Total	Piped into dwelling	Piped to yard/plot	Public tap/stand pipe	Bore hole	Protected well	Unprotected well	Protected Spring	Unprotected spring	Rainwater	Tanker truck/vendor	Bottled water	Tap/stand pipe to neighbor
Total	11,454,818	876,099	1,281,297	2,112,026	329,272	1,208,876	2,057,437	359,459	1,768,525	50,730	267,891	24,067	1,119,141
Dodoma	590,106	36,253	34,859	180,129	71,185	19,631	210,291	4,513	19,631	0	6,054	0	7,559
Arusha	469,204	60,175	80,632	198,415	1,197	28,920	7,179	6,012	26,440	0	4,815	0	55,418
Kilimanjaro	499,128	15,382	167,833	128,915	0	5,086	3,876	17,986	46,176	0	28,066	0	85,808
Tanga	572,083	60,418	70,365	98,142	4,404	23,479	148,153	8,738	136,219	1,492	2,948	0	17,724
Morogoro	655,833	50,539	75,606	107,844	10,067	151,415	82,290	8,396	115,794	0	1,712	1,671	50,499
Pwani	333,150	19,614	47,906	39,352	849	54,597	53,727	2,548	11,951	1,698	47,016	849	53,043
Dar es salaam	1,417,251	261,973	327,686	123,412	58,138	57,963	18,058	3,612	7,223	3,612	61,486	10,835	483,252
Lindi	293,907	2,285	40,817	51,218	3,765	35,461	112,964	6,800	12,759	6,745	9,779	1,499	9,816
Mtwara	448,463	34,608	21,920	71,225	3,458	78,225	93,173	5,717	87,066	2,287	13,860	0	36,923
Ruvuma	392,519	11,095	62,414	85,557	3,055	66,324	43,231	12,048	75,439	0	1,002	0	32,355
Iringa	289,324	21,560	51,913	49,791	1,475	38,535	50,403	3,704	58,548	0	2,248	2,230	8,919
Mbeya	412,915	67,723	44,421	76,278	21,170	56,239	69,753	10,585	15,903	0	2,107	0	48,737
Singida	334,525	11,149	5,168	101,318	3,418	14,525	112,259	11,149	70,331	0	875	854	3,480
Tabora	483,265	13,699	14,811	71,802	8,712	65,553	214,414	12,348	59,484	1,232	18,686	0	2,523
Rukwa	259,632	7,318	7,334	80,610	23,989	17,301	52,502	9,337	55,199	1,325	662	0	4,055
Kigoma	483,363	25,977	19,843	86,889	6,164	40,919	55,712	57,004	135,054	0	8,629	2,465	44,707
Shinyanga	339,428	13,100	14,854	90,520	43,401	35,667	75,750	3,465	31,293	8,684	6,994	0	15,699
Kagera	678,574	13,973	22,712	41,667	1,731	26,005	12,116	88,737	447,190	1,731	12,242	0	10,469
Mwanza	630,094	80,913	56,607	72,641	0	100,083	214,710	11,290	29,049	4,861	6,468	0	53,471
Mara	403,837	19,775	28,974	15,515	16,642	53,788	142,942	8,246	79,480	9,349	8,396	1,028	19,700
Manyara	354,642	30,069	21,054	114,532	7,313	48,075	79,028	6,363	19,067	4,529	3,623	928	20,061
Njombe	221,565	9,099	19,878	74,447	9,099	25,550	20,401	10,201	29,019	0	0	0	23,870
Katavi	103,890	2,400	5,861	35,171	265	10,124	25,558	537	15,719	0	3,461	0	4,793
Simiyu	298,960	1,524	32,189	65,141	11,449	48,266	66,665	1,543	56,814	0	9,999	1,524	3,847
Geita	76,553	184	372	6,098	367	15,119	32,883	922	15,608	0	4,629	184	188
Songwe	412,608	5,292	5,267	45,397	17,959	92,028	59,399	47,658	112,067	3,186	2,132	0	22,223

Table 3.10A: Distribution of Households by Region and Main Source of Drinking Water Rural

Region Name:	RURAL												
	Total	Piped into dwelling	Piped to yard/plot	Public tap/stand pipe	Bore hole	Protected well	Unprotected well	Protected Spring	Unprotected spring	Rainwater	Tanker truck/vendor	Bottled water	Tap/stand pipe to neighbour
Total	7,701,218	77,999	429,467	1,684,658	225,513	913,420	1,924,821	297,023	1,697,004	44,333	116,185	9,467	281,329
Dodoma	499,290	0	6,054	163,470	71,185	19,631	210,291	4,513	19,631	0	4,513	0	0
Arusha	306,509	9,572	36,041	174,310	1,197	26,498	7,179	6,012	26,440	0	0	0	19,261
Kilimanjaro	383,952	5,117	102,492	113,596	0	3,814	3,876	17,986	46,176	0	12,777	0	78,118
Tanga	439,666	5,896	32,181	80,524	4,404	23,479	142,293	8,738	134,763	1,492	2,948	0	2,948
Morogoro	453,798	8,396	23,517	67,250	6,725	127,979	78,948	6,725	115,794	0	0	1,671	16,792
Pwani	216,087	7,705	18,806	33,325	849	41,797	45,235	2,548	11,951	1,698	33,325	0	18,848
Dar es salaam	0	0	0	0	0	0	0	0	0	0	0	0	0
Lindi	237,279	1,517	30,197	43,705	2,267	27,930	98,633	4,515	10,511	6,745	6,763	1,499	2,998
Mtwara	337,833	2,342	13,804	60,824	1,171	62,106	87,428	3,430	77,891	2,287	5,773	0	20,776
Ruvuma	286,460	3,006	42,155	57,282	3,055	40,200	40,225	10,020	70,381	0	1,002	0	19,135
Iringa	211,231	755	34,022	46,087	737	23,664	45,188	2,967	52,596	0	1,492	1,475	2,248
Mbeya	254,064	1,053	12,640	64,614	19,063	42,468	69,753	9,506	15,903	0	1,053	0	18,010
Singida	295,744	854	854	80,625	3,418	14,525	112,259	10,294	70,331	0	0	854	1,730
Tabora	408,880	0	1,232	48,368	2,464	61,858	214,414	11,086	59,484	1,232	7,480	0	1,262
Rukwa	199,587	1,987	3,312	69,932	21,970	6,656	43,891	7,318	41,856	1,325	662	0	678
Kigoma	391,543	11,124	3,698	81,898	2,465	20,986	54,479	47,113	132,589	0	7,396	1,233	28,562
Shinyanga	260,910	1,733	4,374	72,264	36,449	26,962	69,580	1,733	31,293	6,952	2,620	0	6,952
Kagera	600,054	1,773	5,193	39,894	0	26,005	12,116	64,379	440,225	1,731	7,008	0	1,731
Mwanza	387,434	0	0	59,705	0	87,146	192,129	9,683	29,049	4,861	4,861	0	0
Mara	325,812	3,133	11,304	12,432	16,642	46,495	136,651	8,246	75,344	9,349	2,080	1,028	3,108
Manyara	299,895	3,645	5,501	110,908	7,313	48,075	79,028	6,363	19,067	4,529	3,623	0	11,842
Njombe	161,848	3,414	9,044	69,353	5,107	9,058	15,281	8,507	23,347	0	0	0	18,736
Katavi	75,873	0	272	27,952	0	6,644	23,158	537	15,182	0	2,128	0	0
Simiyu	287,419	762	30,665	63,598	11,449	45,943	66,665	1,543	56,814	0	6,152	1,524	2,305
Geita	62,706	0	0	3,689	184	11,072	30,493	922	14,690	0	1,473	184	0
Songwe	317,343	4,213	2,107	39,052	7,399	62,431	45,628	42,340	105,696	2,132	1,053	0	5,292

Table 3.10B: Distribution of Households by Region and Main Source of Drinking Water Urban

Region Name:	URBAN												
	Total	Piped into dwelling	Piped to yard/plot	Public tap/stand pipe	Bore hole	Protected well	Unprotected well	Protected Spring	Unprotected spring	Rainwater	Tanker truck/vendor	Bottled water	Tap/stand pipe to neighbor
Total	3,753,600	798,099	851,830	427,368	103,759	295,456	132,616	62,436	71,521	6,398	151,706	14,600	837,811
Dodoma	90,817	36,253	28,804	16,659	0	0	0	0	0	0	1,541	0	7,559
Arusha	162,694	50,603	44,591	24,105	0	2,422	0	0	0	0	4,815	0	36,157
Kilimanjaro	115,176	10,265	65,341	15,320	0	1,271	0	0	0	0	15,289	0	7,691
Tanga	132,417	54,522	38,184	17,618	0	0	5,861	0	1,456	0	0	0	14,776
Morogoro	202,036	42,143	52,089	40,594	3,342	23,436	3,342	1,671	0	0	1,712	0	33,706
Pwani	117,063	11,909	29,100	6,027	0	12,800	8,492	0	0	0	13,690	849	34,195
Dar es salaam	1,417,251	261,973	327,686	123,412	58,138	57,963	18,058	3,612	7,223	3,612	61,486	10,835	483,252
Lindi	56,628	768	10,620	7,513	1,499	7,531	14,331	2,285	2,248	0	3,016	0	6,818
Mtwara	110,630	32,266	8,115	10,402	2,287	16,119	5,745	2,287	9,175	0	8,087	0	16,147
Ruvuma	106,059	8,089	20,258	28,274	0	26,124	3,006	2,028	5,059	0	0	0	13,220
Iringa	78,094	20,805	17,891	3,704	737	14,871	5,215	737	5,952	0	755	755	6,671
Mbeya	158,851	66,670	31,780	11,664	2,107	13,771	0	1,079	0	0	1,053	0	30,727
Singida	38,780	10,294	4,314	20,693	0	0	0	854	0	0	875	0	1,750
Tabora	74,385	13,699	13,579	23,434	6,249	3,695	0	1,262	0	0	11,206	0	1,262
Rukwa	60,045	5,331	4,022	10,678	2,019	10,646	8,610	2,019	13,343	0	0	0	3,376
Kigoma	91,820	14,852	16,145	4,991	3,698	19,933	1,233	9,892	2,465	0	1,233	1,233	16,145
Shinyanga	78,517	11,368	10,480	18,256	6,952	8,705	6,170	1,733	0	1,733	4,374	0	8,748
Kagera	78,520	12,200	17,519	1,773	1,731	0	0	24,358	6,966	0	5,235	0	8,739
Mwanza	242,659	80,913	56,607	12,937	0	12,937	22,580	1,607	0	0	1,607	0	53,471
Mara	78,024	16,642	17,670	3,083	0	7,294	6,291	0	4,136	0	6,316	0	16,593
Manyara	54,747	26,423	15,553	3,623	0	0	0	0	0	0	0	928	8,219
Njombe	59,717	5,685	10,834	5,094	3,992	16,492	5,121	1,693	5,672	0	0	0	5,135
Katavi	28,016	2,400	5,589	7,219	265	3,480	2,400	0	537	0	1,333	0	4,793
Simiyu	11,541	762	1,524	1,543	0	2,323	0	0	0	0	3,847	0	1,543
Geita	13,847	184	372	2,409	184	4,047	2,391	0	918	0	3,156	0	188
Songwe	95,264	1,079	3,160	6,346	10,559	29,597	13,771	5,318	6,371	1,053	1,079	0	16,931

Table 3.11: Distribution of Households by Region and Type of Toilet Facility

Region Name:	TOTAL						
	Total	Flush toilet	VIP latrine	Covered pit latrine	Uncovered pit latrine	Bucket	Bush/No toilet
Total	11,454,818	1,414,338	1,067,302	2,502,199	6,187,265	56,767	226,947
Dodoma	590,106	42,381	33,208	71,112	402,565	0	40,840
Arusha	469,204	49,407	87,695	156,479	145,477	0	30,146
Kilimanjaro	499,128	66,520	35,849	225,236	168,919	0	2,605
Tanga	572,083	51,503	19,110	98,213	400,274	0	2,984
Morogoro	655,833	40,594	58,610	186,549	361,643	3,383	5,054
Pwani	333,150	16,217	58,117	66,568	178,577	0	13,670
Dar es salaam	1,417,251	610,452	436,476	330,156	40,168	0	0
Lindi	293,907	8,372	2,285	110,825	171,658	0	768
Mtwara	448,463	39,154	16,091	49,362	295,638	45,903	2,315
Ruvuma	392,519	16,153	26,222	160,043	189,100	1,002	0
Iringa	289,324	38,660	20,769	52,614	176,526	0	755
Mbeya	412,915	63,484	29,597	96,267	222,514	1,053	0
Singida	334,525	30,008	9,481	57,473	234,999	854	1,709
Tabora	483,265	42,060	6,189	38,335	353,211	0	43,471
Rukwa	259,632	2,003	6,672	57,283	191,009	662	2,003
Kigoma	483,363	28,472	17,348	49,608	376,781	0	11,154
Shinyanga	339,428	23,602	17,390	58,234	236,737	866	2,599
Kagera	678,574	33,097	19,082	66,236	549,690	0	10,469
Mwanza	630,094	63,076	58,137	119,605	386,061	0	3,215
Mara	403,837	61,207	16,642	75,594	231,720	0	18,673
Manyara	354,642	32,874	22,756	75,427	196,321	0	27,263
Njombe	221,565	16,451	19,865	62,457	122,229	564	0
Katawi	103,890	8,778	6,663	20,241	65,795	0	2,413
Simiyu	298,960	5,334	12,285	29,197	249,858	0	2,286
Geita	76,553	7,575	6,460	16,696	43,973	372	1,477
Songwe	412,608	16,905	24,304	172,391	195,821	2,107	1,079

Table 3.11A: Distribution of Households by Region and Type of Toilet Facility Rural

Region Name:	RURAL						
	Total	Flush toilet	VIP latrine	Covered pit latrine	Uncovered pit latrine	Bucket	Bush/No toilet
Total	7,701,218	204,998	210,294	1,436,394	5,579,795	49,824	219,914
Dodoma	499,290	1,504	12,109	57,426	387,411	0	40,840
Arusha	306,509	3,590	27,578	111,742	133,454	0	30,146
Kilimanjaro	383,952	40,904	14,141	162,531	163,771	0	2,605
Tanga	439,666	16,126	10,301	52,570	357,686	0	2,984
Morogoro	453,798	3,383	18,423	131,077	292,478	3,383	5,054
Pwani	216,087	5,986	17,957	36,763	144,300	0	11,081
Dar es salaam	0	0	0	0	0	0	0
Lindi	237,279	3,034	749	89,000	143,728	0	768
Mtwara	337,833	6,888	2,287	27,525	259,858	38,960	2,315
Ruvuma	286,460	5,059	8,064	115,567	156,769	1,002	0
Iringa	211,231	9,638	5,934	36,287	158,616	0	755
Mbeya	254,064	2,107	1,053	58,115	191,736	1,053	0
Singida	295,744	8,544	5,126	45,366	234,144	854	1,709
Tabora	408,880	11,086	6,189	19,798	329,567	0	42,240
Rukwa	199,587	2,003	2,665	29,256	163,660	662	1,341
Kigoma	391,543	2,465	4,961	23,541	350,654	0	9,922
Shinyanga	260,910	4,374	6,931	38,245	207,896	866	2,599
Kagera	600,054	6,923	10,427	36,432	535,801	0	10,469
Mwanza	387,434	12,937	8,037	25,756	337,490	0	3,215
Mara	325,812	29,024	9,299	60,982	208,887	0	17,620
Manyara	299,895	6,385	10,936	62,635	192,676	0	27,263
Njombe	161,848	7,365	7,365	35,751	110,803	564	0
Katavi	75,873	2,652	1,863	11,172	58,039	0	2,148
Simiyu	287,419	3,810	8,419	24,588	248,316	0	2,286
Geita	62,706	4,996	3,134	13,190	39,536	372	1,477
Songwe	317,343	4,213	6,346	131,079	172,519	2,107	1,079

Table 3.11B: Distribution of Households by Region and Type of Toilet Facility Urban

Region Name:	URBAN						
	Total	Flush toilet	VIP latrine	Covered pit latrine	Uncovered pit latrine	Bucket	Bush/No toilet
Total	3,753,600	1,209,341	857,007	1,065,805	607,469	6,944	7,034
Dodoma	90,817	40,877	21,099	13,687	15,154	0	0
Arusha	162,694	45,817	60,117	44,737	12,023	0	0
Kilimanjaro	115,176	25,615	21,708	62,705	5,148	0	0
Tanga	132,417	35,377	8,809	45,643	42,588	0	0
Morogoro	202,036	37,211	40,188	55,471	69,165	0	0
Pwani	117,063	10,232	40,160	29,805	34,278	0	2,589
Dar es salaam	1,417,251	610,452	436,476	330,156	40,168	0	0
Lindi	56,628	5,337	1,535	21,825	27,930	0	0
Mtwara	110,630	32,266	13,804	21,836	35,780	6,944	0
Ruvuma	106,059	11,095	18,157	44,476	32,331	0	0
Iringa	78,094	29,022	14,835	16,327	17,909	0	0
Mbeya	158,851	61,377	28,543	38,152	30,778	0	0
Singida	38,780	21,464	4,355	12,107	854	0	0
Tabora	74,385	30,974	0	18,536	23,643	0	1,232
Rukwa	60,045	0	4,006	28,028	27,349	0	662
Kigoma	91,820	26,007	12,387	26,067	26,127	0	1,233
Shinyanga	78,517	19,228	10,459	19,989	28,842	0	0
Kagera	78,520	26,173	8,654	29,804	13,889	0	0
Mwanza	242,659	50,139	50,100	93,849	48,571	0	0
Mara	78,024	32,182	7,344	14,612	22,833	0	1,053
Manyara	54,747	26,490	11,820	12,792	3,645	0	0
Njombe	59,717	9,086	12,500	26,706	11,426	0	0
Katavi	28,016	6,126	4,800	9,069	7,756	0	265
Simiyu	11,541	1,524	3,866	4,609	1,543	0	0
Geita	13,847	2,579	3,326	3,505	4,437	0	0
Songwe	95,264	12,692	17,959	41,312	23,302	0	0

Table 5.1: Distribution of Households by Region and Whether Dwelling has Electricity Connection

Region Name:	Total								
	Total			Male Headed			Female Headed		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	11,454,818	3,753,615	7,701,203	8,738,690	2,876,428	5,862,262	2,716,128	877,187	1,838,941
Dodoma	590,106	138,813	451,293	448,330	121,861	326,468	141,776	16,952	124,825
Arusha	469,204	186,479	282,724	361,349	143,582	217,767	107,854	42,897	64,958
Kilimanjaro	499,128	212,552	286,577	362,375	150,036	212,339	136,753	62,516	74,237
Tanga	572,083	174,757	397,326	399,039	113,595	285,444	173,044	61,162	111,882
Morogoro	655,833	159,648	496,185	482,948	121,990	360,958	172,885	37,658	135,227
Pwani	333,150	109,131	224,019	250,514	90,864	159,650	82,636	18,267	64,369
Dar es salaam	1,417,251	1,065,162	352,090	1,051,000	772,900	278,100	366,251	292,261	73,990
Lindi	293,907	58,676	235,232	225,584	49,464	176,121	68,323	9,212	59,111
Mtwara	448,463	148,196	300,267	341,882	118,915	222,966	106,581	29,281	77,301
Ruvuma	392,519	124,901	267,618	318,624	97,190	221,433	73,895	27,711	46,185
Iringa	289,324	114,273	175,051	213,806	83,310	130,495	75,519	30,963	44,556
Mbeya	412,915	140,739	272,176	324,438	113,764	210,674	88,477	26,975	61,502
Singida	334,525	74,561	259,963	279,388	64,934	214,454	55,136	9,627	45,509
Tabora	483,265	105,210	378,056	362,140	83,760	278,380	121,125	21,449	99,676
Rukwa	259,632	22,632	237,000	204,000	17,883	186,117	55,632	4,749	50,883
Kigoma	483,363	78,110	405,253	373,510	59,170	314,340	109,853	18,940	90,913
Shinyanga	339,428	43,569	295,858	273,760	32,921	240,840	65,667	10,649	55,019
Kagera	678,574	166,711	511,864	529,646	143,662	385,984	148,929	23,048	125,880
Mwanza	630,094	206,673	423,420	493,443	167,160	326,283	136,650	39,513	97,137
Mara	403,837	85,896	317,941	275,413	60,632	214,781	128,423	25,264	103,160
Manyara	354,642	72,907	281,734	297,114	54,350	242,764	57,528	18,557	38,970
Njombe	221,565	111,781	109,784	160,860	86,921	73,939	60,705	24,860	35,845
Katavi	103,890	41,524	62,366	84,872	35,275	49,597	19,017	6,249	12,769
Simiyu	298,960	34,457	264,503	224,029	27,432	196,597	74,931	7,025	67,906
Geita	76,553	10,718	65,835	63,547	9,026	54,521	13,006	1,692	11,313
Songwe	412,608	65,540	347,068	337,079	55,829	281,250	75,529	9,711	65,818

Table 5.1.1: Distribution of Households by Region and Whether Dwelling has Electricity Connection-Rural

Region Name:	RURAL								
	Total			Male Headed			Female Headed		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	7,701,218	1,301,749	6,399,469	6,063,013	1,109,401	4,953,612	1,638,205	192,348	1,445,857
Dodoma	499,290	84,360	414,930	380,629	79,737	300,893	118,661	4,623	114,037
Arusha	306,509	76,810	229,699	247,680	67,005	180,675	58,830	9,805	49,025
Kilimanjaro	383,952	124,231	259,721	278,457	86,461	191,995	105,495	37,770	67,725
Tanga	439,666	84,928	354,738	323,309	65,536	257,773	116,357	19,393	96,964
Morogoro	453,798	53,760	400,038	344,247	41,777	302,469	109,551	11,982	97,569
Pwani	216,087	48,549	167,538	163,896	42,460	121,436	52,191	6,089	46,102
Dar es salaam	0	0	0	0	0	0	0	0	0
Lindi	237,279	42,828	194,451	186,613	38,222	148,391	50,666	4,606	46,060
Mtwara	337,833	81,433	256,400	267,560	70,892	196,668	70,273	10,541	59,732
Ruvuma	286,460	66,324	220,136	248,486	58,114	190,373	37,974	8,211	29,763
Iringa	211,231	62,217	149,014	164,409	50,134	114,275	46,822	12,083	34,739
Mbeya	254,064	32,731	221,333	201,194	29,494	171,699	52,870	3,237	49,633
Singida	295,744	44,470	251,274	254,611	42,720	211,891	41,133	1,750	39,383
Tabora	408,880	56,841	352,039	307,942	49,271	258,671	100,938	7,570	93,367
Rukwa	199,587	6,672	192,915	162,272	4,636	157,636	37,314	2,035	35,279
Kigoma	391,543	26,067	365,477	306,944	18,491	288,453	84,600	7,576	77,024
Shinyanga	260,910	18,298	242,612	218,315	13,861	204,454	42,595	4,437	38,158
Kagera	600,054	97,055	502,999	477,720	91,736	385,984	122,334	5,319	117,015
Mwanza	387,434	69,231	318,203	316,639	64,292	252,347	70,795	4,939	65,856
Mara	325,812	46,370	279,443	237,390	41,106	196,283	88,423	5,263	83,159
Manyara	299,895	28,147	271,748	259,069	25,363	233,706	40,826	2,784	38,042
Njombe	161,848	74,282	87,566	120,222	59,829	60,393	41,626	14,454	27,173
Katavi	75,873	23,928	51,945	63,919	21,483	42,436	11,954	2,445	9,509
Simiyu	287,419	26,781	260,638	217,171	22,098	195,073	70,248	4,683	65,565
Geita	62,706	6,474	56,232	53,084	5,722	47,363	9,621	752	8,869
Songwe	317,343	18,961	298,383	261,236	18,961	242,275	56,107	0	56,107

Table 5.1.2: Distribution of Households by Region and Whether Dwelling has Electricity Connection-Urban

Region Name:	URBAN								
	Total			Male Headed			Female Headed		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	3,753,600	2,451,866	1,301,734	2,675,677	1,767,027	908,650	1,077,923	684,839	393,084
Dodoma	90,817	54,453	36,363	67,701	42,125	25,576	23,116	12,328	10,787
Arusha	162,694	109,669	53,025	113,669	76,577	37,092	49,025	33,092	15,933
Kilimanjaro	115,176	88,320	26,856	83,918	63,575	20,344	31,258	24,746	6,512
Tanga	132,417	89,829	42,588	75,730	48,059	27,671	56,687	41,769	14,918
Morogoro	202,036	105,889	96,147	138,701	80,213	58,488	63,334	25,676	37,658
Pwani	117,063	60,582	56,481	86,618	48,404	38,214	30,445	12,178	18,267
Dar es salaam	1,417,251	1,065,162	352,090	1,051,000	772,900	278,100	366,251	292,261	73,990
Lindi	56,628	15,848	40,780	38,971	11,242	27,730	17,656	4,606	13,050
Mtwara	110,630	66,763	43,867	74,322	48,024	26,299	36,308	18,740	17,568
Ruvuma	106,059	58,577	47,482	70,137	39,076	31,061	35,921	19,500	16,421
Iringa	78,094	52,056	26,037	49,396	33,177	16,220	28,697	18,880	9,817
Mbeya	158,851	108,007	50,844	123,244	84,270	38,975	35,607	23,738	11,869
Singida	38,780	30,091	8,689	24,778	22,214	2,563	14,003	7,877	6,126
Tabora	74,385	48,368	26,017	54,198	34,490	19,708	20,188	13,879	6,309
Rukwa	60,045	15,960	44,085	41,727	13,247	28,480	18,318	2,714	15,604
Kigoma	91,820	52,043	39,776	66,566	40,679	25,887	25,254	11,364	13,889
Shinyanga	78,517	25,271	53,246	55,445	19,059	36,386	23,072	6,212	16,861
Kagera	78,520	69,656	8,865	51,926	51,926	0	26,594	17,730	8,865
Mwanza	242,659	137,442	105,218	176,804	102,868	73,936	65,856	34,574	31,281
Mara	78,024	39,526	38,498	38,023	19,526	18,498	40,001	20,000	20,000
Manyara	54,747	44,760	9,986	38,045	28,987	9,058	16,702	15,774	928
Njombe	59,717	37,499	22,218	40,638	27,092	13,546	19,079	10,407	8,672
Katavi	28,016	17,595	10,421	20,953	13,792	7,161	7,064	3,803	3,260
Simiyu	11,541	7,676	3,866	6,858	5,334	1,524	4,683	2,342	2,342
Geita	13,847	4,244	9,603	10,463	3,304	7,159	3,384	940	2,444
Songwe	95,264	46,579	48,686	75,843	36,868	38,975	19,422	9,711	9,711

Table 5.2: Distribution of Households by Region and Whether Village/Mtaa has Electricity Connection

Region Name:	Total								
	Total			Male Headed			Female Headed		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	7,701,203	3,023,021	4,678,183	5,862,262	2,228,734	3,633,528	1,838,941	794,287	1,044,655
Dodoma	451,293	170,919	280,374	326,468	132,393	194,076	124,825	38,526	86,299
Arusha	282,724	137,189	145,536	217,767	104,097	113,669	64,958	33,092	31,866
Kilimanjaro	286,577	140,606	145,970	212,339	109,348	102,991	74,237	31,258	42,980
Tanga	397,326	222,781	174,545	285,444	163,111	122,333	111,882	59,670	52,212
Morogoro	496,185	168,370	327,815	360,958	115,306	245,652	135,227	53,064	82,163
Pwani	224,019	79,698	144,320	159,650	49,254	110,396	64,369	30,445	33,924
Dar es salaam	352,090	344,779	7,311	278,100	274,488	3,612	73,990	70,291	3,700
Lindi	235,232	96,531	138,701	176,121	71,198	104,923	59,111	25,333	33,778
Mtwara	300,267	135,869	164,398	222,966	96,047	126,919	77,301	39,822	37,479
Ruvuma	267,618	43,401	224,217	221,433	30,059	191,375	46,185	13,342	32,842
Iringa	175,051	71,405	103,647	130,495	44,973	85,522	44,556	26,432	18,125
Mbeya	272,176	84,731	187,446	210,674	65,309	145,365	61,502	19,422	42,080
Singida	259,963	58,452	201,511	214,454	43,574	170,880	45,509	14,878	30,631
Tabora	378,056	129,002	249,053	278,380	91,151	187,229	99,676	37,852	61,824
Rukwa	237,000	56,637	180,363	186,117	42,390	143,727	50,883	14,247	36,636
Kigoma	405,253	81,958	323,295	314,340	56,704	257,636	90,913	25,254	65,659
Shinyanga	295,858	62,692	233,167	240,840	49,381	191,459	55,019	13,311	41,708
Kagera	511,864	247,257	264,607	385,984	185,203	200,781	125,880	62,054	63,827
Mwanza	423,420	208,554	214,866	326,283	157,516	168,767	97,137	51,038	46,099
Mara	317,941	131,737	186,203	214,781	80,158	134,624	103,160	51,580	51,580
Manyara	281,734	51,897	229,837	242,764	40,763	202,001	38,970	11,134	27,836
Njombe	109,784	76,732	33,052	73,939	54,184	19,755	35,845	22,548	13,297
Katavi	62,366	15,745	46,621	49,597	11,670	37,927	12,769	4,075	8,694
Simiyu	264,503	111,901	152,602	196,597	84,582	112,014	67,906	27,319	40,588
Geita	65,835	20,083	45,751	54,521	16,887	37,634	11,313	3,196	8,117
Songwe	347,068	74,095	272,974	281,250	58,989	222,261	65,818	15,106	50,712

Table 5.2.1: Distribution of Households by Region and Whether Village/Mtaa has Electricity Connection-Rural

Region Name:	RURAL								
	Total			Male Headed			Female Headed		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	6,399,469	1,935,872	4,463,598	4,953,612	1,463,803	3,489,809	1,445,857	472,069	973,789
Dodoma	414,930	143,729	271,201	300,893	109,826	191,067	114,037	33,903	80,134
Arusha	229,699	92,598	137,102	180,675	72,988	107,687	49,025	19,610	29,415
Kilimanjaro	259,721	117,627	142,094	191,995	90,276	101,719	67,725	27,351	40,375
Tanga	354,738	184,633	170,105	257,773	136,897	120,877	96,964	47,736	49,228
Morogoro	400,038	87,425	312,613	302,469	65,173	237,296	97,569	22,253	75,316
Pwani	167,538	33,449	134,088	121,436	19,532	101,904	46,102	13,918	32,184
Dar es salaam	0	0	0	0	0	0	0	0	0
Lindi	194,451	67,120	127,331	148,391	49,464	98,927	46,060	17,656	28,404
Mtwara	256,400	95,460	160,940	196,668	72,035	124,632	59,732	23,424	36,308
Ruvuma	220,136	19,086	201,050	190,373	17,033	173,339	29,763	2,053	27,711
Iringa	149,014	49,809	99,205	114,275	32,439	81,836	34,739	17,369	17,369
Mbeya	221,333	39,180	182,153	171,699	30,548	141,152	49,633	8,632	41,001
Singida	251,274	51,513	199,761	211,891	41,011	170,880	39,383	10,502	28,881
Tabora	352,039	112,900	239,139	258,671	78,833	179,838	93,367	34,066	59,301
Rukwa	192,915	27,252	165,663	157,636	23,182	134,454	35,279	4,071	31,208
Kigoma	365,477	52,073	313,403	288,453	39,447	249,007	77,024	12,627	64,397
Shinyanga	242,612	36,470	206,142	204,454	32,921	171,533	38,158	3,550	34,608
Kagera	502,999	238,392	264,607	385,984	185,203	200,781	117,015	53,189	63,827
Mwanza	318,203	108,198	210,005	252,347	86,795	165,553	65,856	21,403	44,453
Mara	279,443	99,455	179,988	196,283	65,770	130,513	83,159	33,685	49,475
Manyara	271,748	41,911	229,837	233,706	31,704	202,001	38,042	10,206	27,836
Njombe	87,566	55,092	32,474	60,393	40,638	19,755	27,173	14,454	12,719
Katawi	51,945	7,193	44,751	42,436	5,835	36,601	9,509	1,358	8,150
Simiyu	260,638	108,035	152,602	195,073	83,058	112,014	65,565	24,977	40,588
Geita	56,232	13,243	42,989	47,363	12,115	35,248	8,869	1,128	7,741
Songwe	298,383	54,029	244,353	242,275	41,081	201,194	56,107	12,948	43,159

Table 5.2.1: Distribution of Households by Region and Whether Village /Mtaa has Electricity Connection-Urban

Region Name:	URBAN								
	Total			Male Headed			Female Headed		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	1,301,734	1,087,149	214,585	908,650	764,931	143,719	393,084	322,218	70,866
Dodoma	36,363	27,190	9,173	25,576	22,567	3,009	10,787	4,623	6,164
Arusha	53,025	44,591	8,434	37,092	31,110	5,983	15,933	13,482	2,451
Kilimanjaro	26,856	22,980	3,876	20,344	19,072	1,271	6,512	3,907	2,605
Tanga	42,588	38,148	4,440	27,671	26,214	1,456	14,918	11,934	2,984
Morogoro	96,147	80,944	15,202	58,488	50,133	8,355	37,658	30,811	6,847
Pwani	56,481	46,249	10,232	38,214	29,722	8,492	18,267	16,527	1,740
Dar es salaam	352,090	344,779	7,311	278,100	274,488	3,612	73,990	70,291	3,700
Lindi	40,780	29,411	11,369	27,730	21,734	5,996	13,050	7,677	5,374
Mtwara	43,867	40,409	3,458	26,299	24,012	2,287	17,568	16,397	1,171
Ruvuma	47,482	24,315	23,167	31,061	13,025	18,035	16,421	11,290	5,132
Iringa	26,037	21,596	4,441	16,220	12,533	3,686	9,817	9,062	755
Mbeya	50,844	45,551	5,292	38,975	34,761	4,213	11,869	10,790	1,079
Singida	8,689	6,939	1,750	2,563	2,563	0	6,126	4,376	1,750
Tabora	26,017	16,103	9,914	19,708	12,318	7,391	6,309	3,785	2,523
Rukwa	44,085	29,384	14,700	28,480	19,208	9,273	15,604	10,177	5,428
Kigoma	39,776	29,885	9,892	25,887	17,258	8,629	13,889	12,627	1,263
Shinyanga	53,246	26,222	27,025	36,386	16,460	19,926	16,861	9,761	7,099
Kagera	8,865	8,865	0	0	0	0	8,865	8,865	0
Mwanza	105,218	100,357	4,861	73,936	70,721	3,215	31,281	29,635	1,646
Mara	38,498	32,282	6,216	18,498	14,387	4,111	20,000	17,895	2,105
Manyara	9,986	9,986	0	9,058	9,058	0	928	928	0
Njombe	22,218	21,640	578	13,546	13,546	0	8,672	8,094	578
Katavi	10,421	8,552	1,869	7,161	5,835	1,326	3,260	2,717	543
Simiyu	3,866	3,866	0	1,524	1,524	0	2,342	2,342	0
Geita	9,603	6,841	2,762	7,159	4,772	2,386	2,444	2,068	376
Songwe	48,686	20,065	28,620	38,975	17,907	21,067	9,711	2,158	7,553

Table 5.3: Distribution of Households by Region and Impact on Increased Crop Productivity Using Electric Irrigation Water Pump

Region Name:	Total								
	Total			Male Headed			Female Headed		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	6,776,636	1,631,291	5,145,345	5,105,162	1,233,495	3,871,668	1,671,473	397,796	1,273,677
Dodoma	309,732	83,075	226,657	254,254	69,205	185,049	55,478	13,869	41,608
Arusha	323,668	147,754	175,914	247,680	123,242	124,438	75,988	24,512	51,476
Kilimanjaro	353,158	52,502	300,656	259,384	36,873	222,511	93,774	15,629	78,145
Tanga	397,539	79,209	318,329	276,706	55,341	221,365	120,833	23,868	96,964
Morogoro	328,018	60,485	267,533	237,296	46,791	190,505	90,722	13,694	77,028
Pwani	188,830	17,067	171,763	140,118	13,587	126,531	48,712	3,479	45,232
Dar es salaam	1,409,940	461,582	948,358	1,047,388	339,498	707,890	362,552	122,084	240,468
Lindi	155,207	61,801	93,406	120,661	47,215	73,446	34,545	14,586	19,960
Mtwara	284,064	86,285	197,780	214,962	64,031	150,931	69,102	22,253	46,849
Ruvuma	168,302	46,529	121,773	127,249	28,055	99,194	41,053	18,474	22,579
Iringa	185,678	2,949	182,729	128,283	2,949	125,334	57,394	0	57,394
Mbeya	225,469	66,798	158,672	179,073	48,455	130,618	46,396	18,343	28,054
Singida	133,014	24,861	108,153	108,509	21,360	87,149	24,505	3,501	21,004
Tabora	234,212	51,944	182,268	174,911	43,112	131,799	59,301	8,832	50,469
Rukwa	79,269	19,337	59,932	60,273	13,909	46,364	18,996	5,428	13,569
Kigoma	160,068	4,991	155,077	115,874	2,465	113,409	44,194	2,525	41,668
Shinyanga	106,261	14,812	91,449	82,301	11,262	71,039	23,960	3,550	20,410
Kagera	413,967	48,717	365,250	328,865	38,079	290,786	85,102	10,638	74,464
Mwanza	415,227	143,793	271,435	324,676	112,511	212,164	90,552	31,281	59,270
Mara	217,633	18,748	198,885	140,790	8,221	132,568	76,843	10,527	66,317
Manyara	124,804	30,135	94,670	95,113	19,928	75,184	29,692	10,206	19,485
Njombe	188,513	48,237	140,277	141,105	37,252	103,853	47,408	10,985	36,423
Katavi	57,269	14,367	42,901	46,945	12,466	34,479	10,324	1,902	8,422
Simiyu	146,358	7,639	138,719	112,014	6,858	105,156	34,343	781	33,563
Geita	30,801	2,762	28,039	25,913	2,386	23,527	4,889	376	4,512
Songwe	139,634	34,915	104,719	114,817	28,441	86,376	24,817	6,474	18,343

Table 5.3.1: Distribution of Households by Region and Impact on Increased Crop Productivity Using Electric Irrigation Water Pump-Rural

Region Name:	RURAL								
	Total			Male Headed			Female Headed		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	3,237,621	538,926	2,698,694	2,573,205	452,203	2,121,001	664,416	86,723	577,693
Dodoma	228,088	54,307	173,781	189,562	48,143	141,420	38,526	6,164	32,362
Arusha	169,408	72,024	97,384	139,993	62,219	77,774	29,415	9,805	19,610
Kilimanjaro	241,858	29,461	212,397	176,737	20,344	156,394	65,121	9,117	56,004
Tanga	269,561	42,411	227,150	202,432	34,952	167,480	67,129	7,459	59,670
Morogoro	141,185	20,134	121,051	106,950	16,711	90,239	34,235	3,423	30,811
Pwani	81,998	5,095	76,903	61,992	5,095	56,896	20,007	0	20,007
Dar es salaam	0	0	0	0	0	0	0	0	0
Lindi	109,948	45,917	64,031	87,686	37,472	50,213	22,263	8,444	13,818
Mtwara	176,892	41,302	135,590	142,927	35,446	107,481	33,965	5,856	28,109
Ruvuma	85,410	18,157	67,253	75,147	13,025	62,122	10,263	5,132	5,132
Iringa	112,026	0	112,026	82,573	0	82,573	29,452	0	29,452
Mbeya	71,911	13,796	58,115	60,042	9,480	50,562	11,869	4,316	7,553
Singida	95,984	12,816	83,168	83,731	12,816	70,915	12,252	0	12,252
Tabora	169,741	34,639	135,101	128,104	28,331	99,773	41,637	6,309	35,328
Rukwa	33,924	8,675	25,249	27,818	5,961	21,857	6,106	2,714	3,392
Kigoma	78,140	1,263	76,877	57,937	0	57,937	20,203	1,263	18,940
Shinyanga	54,768	6,106	48,662	46,782	4,332	42,450	7,987	1,775	6,212
Kagera	335,447	26,047	309,399	276,939	22,501	254,438	58,508	3,546	54,962
Mwanza	177,429	35,400	142,029	151,087	33,753	117,333	26,342	1,646	24,696
Mara	145,825	6,216	139,609	106,877	4,111	102,766	38,948	2,105	36,843
Manyara	70,058	8,175	61,883	57,068	7,247	49,821	12,990	928	12,062
Njombe	129,374	26,059	103,315	100,467	22,012	78,454	28,907	4,047	24,860
Katavi	31,122	10,098	21,024	27,318	9,283	18,035	3,803	815	2,988
Simiyu	134,817	6,877	127,940	105,156	6,096	99,060	29,660	781	28,880
Geita	19,717	1,285	18,432	17,836	1,285	16,552	1,880	0	1,880
Songwe	72990	12666	60324	60042	11587	48455	12948	1079	11869

Table 5.3.2: Distribution of Households by Region and Impact on Increased Crop Productivity Using Electric Irrigation Water Pump-Urban

Region Name:	URBAN								
	Total			Male Headed			Female Headed		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	3,539,015	1,092,364	2,446,651	2,531,958	781,292	1,750,666	1,007,057	311,073	695,984
Dodoma	81,643	28,768	52,876	64,692	21,062	43,629	16,952	7,705	9,246
Arusha	154,260	75,730	78,530	107,687	61,023	46,664	46,573	14,707	31,866
Kilimanjaro	111,300	23,041	88,259	82,647	16,529	66,118	28,653	6,512	22,141
Tanga	127,977	36,798	91,179	74,274	20,389	53,885	53,703	16,409	37,294
Morogoro	186,833	40,350	146,483	130,346	30,080	100,266	56,487	10,270	46,217
Pwani	106,831	11,971	94,860	78,126	8,492	69,634	28,705	3,479	25,226
Dar es salaam	1,409,940	461,582	948,358	1,047,388	339,498	707,890	362,552	122,084	240,468
Lindi	45,259	15,884	29,374	32,976	9,743	23,233	12,283	6,141	6,141
Mtwara	107,172	44,983	62,189	72,035	28,585	43,450	35,137	16,397	18,740
Ruvuma	82,892	28,372	54,520	52,102	15,029	37,073	30,790	13,342	17,448
Iringa	73,652	2,949	70,703	45,710	2,949	42,761	27,942	0	27,942
Mbeya	153,558	53,002	100,557	119,031	38,975	80,056	34,528	14,027	20,501
Singida	37,030	12,045	24,985	24,778	8,544	16,234	12,252	3,501	8,752
Tabora	64,471	17,305	47,167	46,807	14,781	32,026	17,664	2,523	15,141
Rukwa	45,345	10,662	34,683	32,454	7,948	24,506	12,890	2,714	10,177
Kigoma	81,928	3,728	78,200	57,937	2,465	55,472	23,991	1,263	22,728
Shinyanga	51,493	8,705	42,787	35,520	6,931	28,589	15,973	1,775	14,198
Kagera	78,520	22,670	55,851	51,926	15,578	36,348	26,594	7,092	19,503
Mwanza	237,798	108,393	129,405	173,589	78,758	94,831	64,209	29,635	34,574
Mara	71,808	12,532	59,276	33,913	4,111	29,802	37,895	8,421	29,474
Manyara	54,747	21,960	32,786	38,045	12,682	25,363	16,702	9,279	7,423
Njombe	59,139	22,177	36,962	40,638	15,239	25,399	18,501	6,938	11,563
Katavi	26,147	4,269	21,878	19,627	3,183	16,444	6,520	1,087	5,434
Simiyu	11,541	762	10,779	6,858	762	6,096	4,683	0	4,683
Geita	11,085	1,477	9,607	8,076	1,101	6,975	3,008	376	2,632
Songwe	66644	22249	44395	54775	16854	37921	11869	5395	6474

Table 5.4: Distribution of Households by Region and Effect of Availability of Electricity on Distance Travelled by Household Members To/From Grain Grinding/Milling Machines

Region Name:	Total								
	Total			Male Headed			Female Headed		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	6,776,636	4,799,362	1,977,274	5,105,162	3,560,213	1,544,949	1,671,473	1,239,149	432,324
Dodoma	309,732	247,829	61,902	254,254	201,598	52,656	55,478	46,231	9,246
Arusha	323,668	268,250	55,418	247,680	208,195	39,485	75,988	60,055	15,933
Kilimanjaro	353,158	248,494	104,664	259,384	171,651	87,733	93,774	76,842	16,931
Tanga	397,539	311,012	86,526	276,706	215,539	61,167	120,833	95,473	25,360
Morogoro	328,018	225,634	102,384	237,296	153,741	83,555	90,722	71,893	18,829
Pwani	188,830	107,805	81,025	140,118	73,880	66,238	48,712	33,924	14,787
Dar es salaam	1,409,940	959,281	450,659	1,047,388	715,113	332,275	362,552	244,168	118,384
Lindi	155,207	124,388	30,819	120,661	93,681	26,980	34,545	30,707	3,838
Mtwara	284,064	175,916	108,148	214,962	134,923	80,039	69,102	40,993	28,109
Ruvuma	168,302	93,986	74,316	127,249	60,118	67,131	41,053	33,869	7,184
Iringa	185,678	95,158	90,519	128,283	61,930	66,353	57,394	33,228	24,166
Mbeya	225,469	181,177	44,293	179,073	136,938	42,135	46,396	44,238	2,158
Singida	133,014	82,417	50,597	108,509	65,789	42,720	24,505	16,628	7,877
Tabora	234,212	136,303	97,909	174,911	102,237	72,674	59,301	34,066	25,234
Rukwa	79,269	52,647	26,622	60,273	39,078	21,195	18,996	13,569	5,428
Kigoma	160,068	107,845	52,223	115,874	82,591	33,283	44,194	25,254	18,940
Shinyanga	106,261	61,022	45,239	82,301	45,049	37,252	23,960	15,973	7,987
Kagera	413,967	267,985	145,982	328,865	207,704	121,161	85,102	60,281	24,821
Mwanza	415,227	361,874	53,354	324,676	284,493	40,183	90,552	77,380	13,171
Mara	217,633	163,017	54,616	140,790	92,489	48,300	76,843	70,528	6,316
Manyara	124,804	86,627	38,177	95,113	62,503	32,610	29,692	24,124	5,567
Njombe	188,513	123,771	64,742	141,105	93,129	47,976	47,408	30,642	16,766
Katavi	57,269	45,541	11,728	46,945	37,662	9,283	10,324	7,879	2,445
Simiyu	146,358	124,093	22,265	112,014	96,774	15,240	34,343	27,319	7,025
Geita	30,801	22,506	8,296	25,913	19,121	6,792	4,889	3,384	1,504
Songwe	139,634	124,784	14,850	114,817	104,284	10,534	24,817	20,501	4,316

Table 5.4.1: Distribution of Households by Region and Effect of Availability of Electricity on Distance Travelled by Household Members To/From Grain Grinding/Milling Machines -Rural

Region Name:	RURAL								
	Total			Male Headed			Female Headed		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	3,237,621	2,037,531	1,200,089	2,573,205	1,590,517	982,687	664,416	447,014	217,402
Dodoma	228,088	178,258	49,830	189,562	147,437	42,125	38,526	30,821	7,705
Arusha	169,408	120,059	49,348	139,993	102,901	37,092	29,415	17,159	12,256
Kilimanjaro	241,858	148,699	93,159	176,737	97,905	78,832	65,121	50,794	14,327
Tanga	269,561	202,251	67,311	202,432	148,547	53,885	67,129	53,703	13,426
Morogoro	141,185	87,385	53,800	106,950	66,844	40,106	34,235	20,541	13,694
Pwani	81,998	30,840	51,159	61,992	19,532	42,460	20,007	11,308	8,698
Dar es salaam	0	0	0	0	0	0	0	0	0
Lindi	109,948	86,679	23,269	87,686	65,952	21,734	22,263	20,727	1,535
Mtwara	176,892	89,520	87,372	142,927	75,466	67,462	33,965	14,055	19,911
Ruvuma	85,410	27,175	58,236	75,147	22,043	53,104	10,263	5,132	5,132
Iringa	112,026	40,872	71,154	82,573	27,279	55,295	29,452	13,593	15,859
Mbeya	71,911	40,284	31,627	60,042	29,494	30,548	11,869	10,790	1,079
Singida	95,984	53,181	42,803	83,731	44,429	39,302	12,252	8,752	3,501
Tabora	169,741	94,124	75,617	128,104	72,674	55,430	41,637	21,449	20,188
Rukwa	33,924	17,317	16,607	27,818	13,247	14,571	6,106	4,071	2,035
Kigoma	78,140	48,315	29,825	57,937	38,214	19,723	20,203	10,101	10,101
Shinyanga	54,768	19,144	35,625	46,782	15,594	31,188	7,987	3,550	4,437
Kagera	335,447	201,707	133,740	276,939	162,702	114,237	58,508	39,005	19,503
Mwanza	177,429	138,619	38,810	151,087	122,155	28,932	26,342	16,464	9,878
Mara	145,825	98,452	47,372	106,877	63,715	43,162	38,948	34,737	4,211
Manyara	70,058	32,786	37,271	57,068	25,363	31,704	12,990	7,423	5,567
Njombe	129,374	72,079	57,295	100,467	55,313	45,154	28,907	16,766	12,141
Katavi	31,122	20,196	10,926	27,318	18,566	8,752	3,803	1,630	2,173
Simiyu	134,817	113,332	21,484	105,156	89,916	15,240	29,660	23,416	6,244
Geita	19,717	14,931	4,786	17,836	13,615	4,222	1,880	1,316	564
Songwe	72,990	61,326	11,664	60,042	51,615	8,427	12,948	9,711	3,237

Table 5.4.2: Distribution of Households by Region and Effect of Availability of Electricity on Distance Travelled by Household Members To/From Grain Grinding/Milling Machines -Urban

Region Name:	URBAN								
	Total			Male Headed			Female Headed		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	3,539,015	2,761,830	777,185	2,531,958	1,969,696	562,262	1,007,057	792,135	214,922
Dodoma	81,643	69,571	12,072	64,692	54,161	10,531	16,952	15,410	1,541
Arusha	154,260	148,190	6,070	107,687	105,294	2,393	46,573	42,897	3,677
Kilimanjaro	111,300	99,795	11,505	82,647	73,747	8,900	28,653	26,048	2,605
Tanga	127,977	108,761	19,216	74,274	66,992	7,282	53,703	41,769	11,934
Morogoro	186,833	138,249	48,584	130,346	86,897	43,449	56,487	51,352	5,135
Pwani	106,831	76,965	29,867	78,126	54,349	23,778	28,705	22,616	6,089
Dar es salaam	1,409,940	959,281	450,659	1,047,388	715,113	332,275	362,552	244,168	118,384
Lindi	45,259	37,709	7,549	32,976	27,730	5,246	12,283	9,980	2,303
Mtwara	107,172	86,396	20,776	72,035	59,458	12,578	35,137	26,938	8,199
Ruvuma	82,892	66,812	16,080	52,102	38,075	14,027	30,790	28,737	2,053
Iringa	73,652	54,286	19,366	45,710	34,651	11,059	27,942	19,635	8,307
Mbeya	153,558	140,892	12,666	119,031	107,444	11,587	34,528	33,449	1,079
Singida	37,030	29,237	7,793	24,778	21,360	3,418	12,252	7,877	4,376
Tabora	64,471	42,180	22,292	46,807	29,562	17,245	17,664	12,617	5,047
Rukwa	45,345	35,329	10,016	32,454	25,831	6,623	12,890	9,498	3,392
Kigoma	81,928	59,530	22,399	57,937	44,377	13,560	23,991	15,152	8,839
Shinyanga	51,493	41,879	9,614	35,520	29,455	6,064	15,973	12,424	3,550
Kagera	78,520	66,278	12,242	51,926	45,003	6,923	26,594	21,276	5,319
Mwanza	237,798	223,254	14,544	173,589	162,338	11,251	64,209	60,916	3,293
Mara	71,808	64,565	7,244	33,913	28,775	5,138	37,895	35,790	2,105
Manyara	54,747	53,841	906	38,045	37,139	906	16,702	16,702	0
Njombe	59,139	51,692	7,447	40,638	37,816	2,822	18,501	13,875	4,625
Katavi	26,147	25,345	802	19,627	19,096	530	6,520	6,249	272
Simiyu	11,541	10,761	781	6,858	6,858	0	4,683	3,903	781
Geita	11,085	7,575	3,510	8,076	5,507	2,570	3,008	2,068	940
Songwe	66,644	63,458	3,186	54,775	52,669	2,107	11,869	10,790	1,079

Table 5.5: Distribution of Households by Region and Impact of Availability of Electricity on Increased Establishment of Small-Scale Industries

Region Name:	Total								
	Total			Male Headed			Female Headed		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	6,776,636	3,907,756	2,868,879	5,105,162	2,885,179	2,219,983	1,671,473	1,022,577	648,896
Dodoma	309,732	217,704	92,028	254,254	173,013	81,241	55,478	44,690	10,787
Arusha	323,668	235,827	87,841	247,680	180,675	67,005	75,988	55,153	20,835
Kilimanjaro	353,158	169,074	184,084	259,384	116,977	142,407	93,774	52,096	41,677
Tanga	397,539	208,572	188,967	276,706	133,984	142,722	120,833	74,588	46,245
Morogoro	328,018	205,378	122,640	237,296	142,043	95,253	90,722	63,334	27,388
Pwani	188,830	116,359	72,471	140,118	79,825	60,293	48,712	36,534	12,178
Dar es salaam	1,409,940	944,746	465,194	1,047,388	704,278	343,110	362,552	240,468	122,084
Lindi	155,207	100,278	54,929	120,661	74,945	45,716	34,545	25,333	9,212
Mtwara	284,064	166,796	117,268	214,962	124,632	90,330	69,102	42,164	26,938
Ruvuma	168,302	67,838	100,464	127,249	38,075	89,175	41,053	29,763	11,290
Iringa	185,678	56,426	129,251	128,283	39,812	88,471	57,394	16,614	40,780
Mbeya	225,469	149,371	76,099	179,073	113,764	65,309	46,396	35,607	10,790
Singida	133,014	83,292	49,721	108,509	65,789	42,720	24,505	17,504	7,001
Tabora	234,212	90,428	143,784	174,911	68,979	105,932	59,301	21,449	37,852
Rukwa	79,269	41,290	37,979	60,273	31,792	28,480	18,996	9,498	9,498
Kigoma	160,068	79,403	80,665	115,874	57,937	57,937	44,194	21,466	22,728
Shinyanga	106,261	50,584	55,677	82,301	36,386	45,915	23,960	14,198	9,761
Kagera	413,967	180,936	233,031	328,865	141,931	186,934	85,102	39,005	46,097
Mwanza	415,227	269,905	145,322	324,676	207,343	117,333	90,552	62,563	27,989
Mara	217,633	94,417	123,216	140,790	56,521	84,268	76,843	37,895	38,948
Manyara	124,804	52,891	71,913	95,113	38,045	57,068	29,692	14,846	14,846
Njombe	188,513	89,700	98,813	141,105	67,730	73,375	47,408	21,970	25,438
Katavi	57,269	39,421	17,848	46,945	32,358	14,587	10,324	7,064	3,260
Simiyu	146,358	103,463	42,895	112,014	78,486	33,528	34,343	24,977	9,366
Geita	30,801	18,611	12,191	25,913	15,602	10,311	4,889	3,008	1,880
Songwe	139,634	75,045	64,589	114,817	64,256	50,562	24,817	10,790	14,027

Table 5.5.1: Distribution of Households by Region and Impact of Availability of Electricity on Increased Establishment of Small-Scale Industries -Rural

Region Name:	RURAL								
	Total			Male Headed			Female Headed		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	3,237,621	1,376,911	1,860,710	2,573,205	1,085,884	1,487,320	664,416	291,026	373,390
Dodoma	228,088	155,728	72,361	189,562	123,366	66,196	38,526	32,362	6,164
Arusha	169,408	97,267	72,140	139,993	82,560	57,433	29,415	14,707	14,707
Kilimanjaro	241,858	80,691	161,166	176,737	55,946	120,792	65,121	24,746	40,375
Tanga	269,561	131,957	137,605	202,432	94,663	107,770	67,129	37,294	29,835
Morogoro	141,185	68,881	72,304	106,950	53,475	53,475	34,235	15,406	18,829
Pwani	81,998	31,668	50,330	61,992	21,230	40,762	20,007	10,438	9,568
Dar es salaam	0	0	0	0	0	0	0	0	0
Lindi	109,948	66,334	43,614	87,686	50,213	37,472	22,263	16,121	6,141
Mtwara	176,892	71,198	105,695	142,927	58,314	84,613	33,965	12,883	21,082
Ruvuma	85,410	19,135	66,276	75,147	15,029	60,118	10,263	4,105	6,158
Iringa	112,026	20,769	91,257	82,573	15,482	67,091	29,452	5,286	24,166
Mbeya	71,911	25,486	46,425	60,042	16,854	43,188	11,869	8,632	3,237
Singida	95,984	50,597	45,387	83,731	42,720	41,011	12,252	7,877	4,376
Tabora	169,741	60,716	109,025	128,104	45,575	82,528	41,637	15,141	26,496
Rukwa	33,924	10,646	23,278	27,818	8,610	19,208	6,106	2,035	4,071
Kigoma	78,140	33,463	44,677	57,937	25,887	32,050	20,203	7,576	12,627
Shinyanga	54,768	15,657	39,111	46,782	12,995	33,787	7,987	2,662	5,324
Kagera	335,447	123,397	212,050	276,939	102,121	174,818	58,508	21,276	37,232
Mwanza	177,429	78,993	98,437	151,087	69,114	81,973	26,342	9,878	16,464
Mara	145,825	44,439	101,385	106,877	33,913	72,964	38,948	10,527	28,422
Manyara	70,058	7,269	62,789	57,068	6,341	50,727	12,990	928	12,062
Njombe	129,374	41,395	87,979	100,467	33,301	67,166	28,907	8,094	20,813
Katawi	31,122	17,013	14,109	27,318	15,383	11,935	3,803	1,630	2,173
Simiyu	134,817	91,922	42,895	105,156	71,628	33,528	29,660	20,294	9,366
Geita	19,717	11,224	8,493	17,836	10,096	7,741	1,880	1,128	752
Songwe	72,990	21,067	51,923	60,042	21,067	38,975	12,948	0	12,948

Table 5.5.2: Distribution of Households by Region and Impact of Availability of Electricity on Increased Establishment of Small-Scale Industries -Urban

Region Name:	URBAN								
	Total			Male Headed			Female Headed		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	3,539,015	2,530,846	1,008,169	2,531,958	1,799,295	732,663	1,007,057	731,551	275,506
Dodoma	81,643	61,976	19,668	64,692	49,647	15,045	16,952	12,328	4,623
Arusha	154,260	138,560	15,700	107,687	98,115	9,572	46,573	40,445	6,128
Kilimanjaro	111,300	88,382	22,918	82,647	61,032	21,615	28,653	27,351	1,302
Tanga	127,977	76,615	51,362	74,274	39,321	34,952	53,703	37,294	16,409
Morogoro	186,833	136,497	50,336	130,346	88,568	41,777	56,487	47,929	8,559
Pwani	106,831	84,690	22,141	78,126	58,595	19,532	28,705	26,095	2,610
Dar es salaam	1,409,940	944,746	465,194	1,047,388	704,278	343,110	362,552	240,468	122,084
Lindi	45,259	33,944	11,315	32,976	24,732	8,244	12,283	9,212	3,071
Mtwara	107,172	95,599	11,573	72,035	66,318	5,717	35,137	29,281	5,856
Ruvuma	82,892	48,703	34,188	52,102	23,045	29,057	30,790	25,658	5,132
Iringa	73,652	35,657	37,995	45,710	24,330	21,381	27,942	11,328	16,614
Mbeya	153,558	123,885	29,674	119,031	96,910	22,121	34,528	26,975	7,553
Singida	37,030	32,696	4,334	24,778	23,069	1,709	12,252	9,627	2,626
Tabora	64,471	29,712	34,759	46,807	23,404	23,404	17,664	6,309	11,355
Rukwa	45,345	30,645	14,700	32,454	23,182	9,273	12,890	7,463	5,428
Kigoma	81,928	45,940	35,988	57,937	32,050	25,887	23,991	13,889	10,101
Shinyanga	51,493	34,927	16,566	35,520	23,391	12,129	15,973	11,536	4,437
Kagera	78,520	57,540	20,981	51,926	39,810	12,116	26,594	17,730	8,865
Mwanza	237,798	190,913	46,885	173,589	138,228	35,361	64,209	52,685	11,525
Mara	71,808	49,977	21,831	33,913	22,609	11,304	37,895	27,369	10,527
Manyara	54,747	45,622	9,124	38,045	31,704	6,341	16,702	13,918	2,784
Njombe	59,139	48,305	10,834	40,638	34,430	6,209	18,501	13,875	4,625
Katawi	26,147	22,408	3,739	19,627	16,974	2,652	6,520	5,434	1,087
Simiyu	11,541	11,541	0	6,858	6,858	0	4,683	4,683	0
Geita	11,085	7,387	3,698	8,076	5,507	2,570	3,008	1,880	1,128
Songwe	66,644	53,978	12,666	54,775	43,188	11,587	11,869	10,790	1,079

Table 5.6: Distribution of Households by Region and Impact of Availability of Electricity on Increased Establishment of Business Activities/Increased Business Operating Hours

Region Name:	Total								
	Total			Male Headed			Female Headed		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	6,776,636	4,767,319	2,009,316	5,105,162	3,547,758	1,557,405	1,671,473	1,219,561	451,912
Dodoma	309,732	209,998	99,734	254,254	173,013	81,241	55,478	36,985	18,493
Arusha	323,668	259,961	63,707	247,680	196,229	51,450	75,988	63,732	12,256
Kilimanjaro	353,158	255,999	97,159	259,384	184,366	75,018	93,774	71,633	22,141
Tanga	397,539	319,821	77,718	276,706	221,365	55,341	120,833	98,456	22,376
Morogoro	328,018	234,030	93,988	237,296	160,426	76,871	90,722	73,605	17,117
Pwani	188,830	151,362	37,468	140,118	106,999	33,119	48,712	44,362	4,349
Dar es salaam	1,409,940	1,024,467	385,473	1,047,388	772,900	274,488	362,552	251,567	110,985
Lindi	155,207	119,033	36,174	120,661	92,932	27,730	34,545	26,101	8,444
Mtwara	284,064	179,541	104,524	214,962	130,350	84,613	69,102	49,191	19,911
Ruvuma	168,302	99,998	68,304	127,249	66,129	61,120	41,053	33,869	7,184
Iringa	185,678	83,344	102,334	128,283	50,871	77,412	57,394	32,473	24,921
Mbeya	225,469	186,444	39,026	179,073	142,205	36,868	46,396	44,238	2,158
Singida	133,014	74,665	58,348	108,509	60,662	47,846	24,505	14,003	10,502
Tabora	234,212	136,273	97,939	174,911	103,469	71,443	59,301	32,805	26,496
Rukwa	79,269	49,981	29,288	60,273	37,091	23,182	18,996	12,890	6,106
Kigoma	160,068	112,866	47,203	115,874	83,824	32,050	44,194	29,042	15,152
Shinyanga	106,261	61,043	45,218	82,301	44,183	38,119	23,960	16,861	7,099
Kagera	413,967	248,693	165,274	328,865	199,050	129,815	85,102	49,643	35,459
Mwanza	415,227	353,876	61,351	324,676	274,849	49,827	90,552	79,027	11,525
Mara	217,633	135,923	81,710	140,790	81,185	59,604	76,843	54,738	22,106
Manyara	124,804	71,118	53,687	95,113	51,633	43,480	29,692	19,485	10,206
Njombe	188,513	112,992	75,521	141,105	84,663	56,442	47,408	28,329	19,079
Katavi	57,269	47,953	9,315	46,945	38,988	7,957	10,324	8,965	1,358
Simiyu	146,358	117,217	29,141	112,014	90,678	21,336	34,343	26,538	7,805
Geita	30,801	23,401	7,400	25,913	19,641	6,272	4,889	3,760	1,128
Songwe	139,634	97,320	42,314	114,817	80,056	34,761	24,817	17,264	7,553

Table 5.6.1: Distribution of Households by Region and Impact of Availability of Electricity on Increased Establishment of Business Activities/Increased Business Operating Hours-Rural

Region Name:	RURAL								
	Total			Male Headed			Female Headed		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	3,237,621	1,896,984	1,340,637	2,573,205	1,494,987	1,078,218	664,416	401,997	262,419
Dodoma	228,088	137,418	90,670	189,562	115,844	73,719	38,526	21,575	16,952
Arusha	169,408	112,938	56,469	139,993	93,329	46,664	29,415	19,610	9,805
Kilimanjaro	241,858	152,328	89,530	176,737	109,348	67,389	65,121	42,980	22,141
Tanga	269,561	200,653	68,909	202,432	152,916	49,516	67,129	47,736	19,393
Morogoro	141,185	92,439	48,746	106,950	70,186	36,764	34,235	22,253	11,982
Pwani	81,998	58,138	23,860	61,992	41,611	20,381	20,007	16,527	3,479
Dar es salaam	0	0	0	0	0	0	0	0	0
Lindi	109,948	80,556	29,393	87,686	65,202	22,483	22,263	15,353	6,909
Mtwara	176,892	83,886	93,006	142,927	66,318	76,609	33,965	17,568	16,397
Ruvuma	85,410	29,179	56,232	75,147	24,047	51,100	10,263	5,132	5,132
Iringa	112,026	30,497	81,529	82,573	19,169	63,404	29,452	11,328	18,125
Mbeya	71,911	40,284	31,627	60,042	29,494	30,548	11,869	10,790	1,079
Singida	95,984	48,033	47,950	83,731	40,157	43,574	12,252	7,877	4,376
Tabora	169,741	91,690	78,051	128,104	68,979	59,125	41,637	22,711	18,926
Rukwa	33,924	15,977	17,948	27,818	12,584	15,234	6,106	3,392	2,714
Kigoma	78,140	50,871	27,269	57,937	36,981	20,956	20,203	13,889	6,313
Shinyanga	54,768	20,010	34,759	46,782	16,460	30,322	7,987	3,550	4,437
Kagera	335,447	180,684	154,763	276,939	152,316	124,623	58,508	28,367	30,140
Mwanza	177,429	132,268	45,161	151,087	112,511	38,575	26,342	19,757	6,586
Mara	145,825	76,597	69,228	106,877	53,438	53,438	38,948	23,158	15,790
Manyara	70,058	19,111	50,947	57,068	15,399	41,668	12,990	3,711	9,279
Njombe	129,374	61,824	67,550	100,467	49,105	51,362	28,907	12,719	16,188
Katavi	31,122	24,213	6,909	27,318	20,953	6,365	3,803	3,260	543
Simiyu	134,817	105,675	29,141	105,156	83,820	21,336	29,660	21,855	7,805
Geita	19,717	14,720	4,996	17,836	13,216	4,620	1,880	1,504	376
Songwe	72,990	36,996	35,994	60,042	31,601	28,441	12,948	5,395	7,553

Table 5.6.2: Distribution of Households by Region and Impact of Availability of Electricity on Increased Establishment of Business Activities/Increased Business Operating Hours-Urban

Region Name:	URBAN								
	Total			Male Headed			Female Headed		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	3,539,015	2,870,335	668,680	2,531,958	2,052,771	479,187	1,007,057	817,564	189,493
Dodoma	81,643	72,580	9,063	64,692	57,170	7,522	16,952	15,410	1,541
Arusha	154,260	147,023	7,237	107,687	102,901	4,786	46,573	44,122	2,451
Kilimanjaro	111,300	103,671	7,629	82,647	75,018	7,629	28,653	28,653	0
Tanga	127,977	119,168	8,809	74,274	68,448	5,825	53,703	50,720	2,984
Morogoro	186,833	141,591	45,242	130,346	90,239	40,106	56,487	51,352	5,135
Pwani	106,831	93,224	13,608	78,126	65,388	12,738	28,705	27,835	870
Dar es salaam	1,409,940	1,024,467	385,473	1,047,388	772,900	274,488	362,552	251,567	110,985
Lindi	45,259	38,477	6,781	32,976	27,730	5,246	12,283	10,747	1,535
Mtwara	107,172	95,654	11,518	72,035	64,031	8,004	35,137	31,623	3,514
Ruvuma	82,892	70,819	12,072	52,102	42,082	10,020	30,790	28,737	2,053
Iringa	73,652	52,847	20,805	45,710	31,702	14,008	27,942	21,145	6,797
Mbeya	153,558	146,159	7,399	119,031	112,711	6,320	34,528	33,449	1,079
Singida	37,030	26,632	10,398	24,778	20,506	4,272	12,252	6,126	6,126
Tabora	64,471	44,583	19,888	46,807	34,490	12,318	17,664	10,094	7,570
Rukwa	45,345	34,005	11,340	32,454	24,506	7,948	12,890	9,498	3,392
Kigoma	81,928	61,995	19,933	57,937	46,843	11,094	23,991	15,152	8,839
Shinyanga	51,493	41,034	10,459	35,520	27,723	7,797	15,973	13,311	2,662
Kagera	78,520	68,009	10,511	51,926	46,733	5,193	26,594	21,276	5,319
Mwanza	237,798	221,608	16,190	173,589	162,338	11,251	64,209	59,270	4,939
Mara	71,808	59,326	12,482	33,913	27,747	6,166	37,895	31,580	6,316
Manyara	54,747	52,007	2,740	38,045	36,233	1,812	16,702	15,774	928
Njombe	59,139	51,168	7,971	40,638	35,558	5,080	18,501	15,610	2,891
Katavi	26,147	23,741	2,406	19,627	18,035	1,591	6,520	5,705	815
Simiyu	11,541	11,541	0	6,858	6,858	0	4,683	4,683	0
Geita	11,085	8,681	2,404	8,076	6,424	1,652	3,008	2,256	752
Songwe	66,644	60,324	6,320	54,775	48,455	6,320	11,869	11,869	0

Table 5.7: Distribution of Households by Region and impact of Availability of Electricity on Increased Access to Mass Media through TV and Radio

Region Name:	Total								
	Total			Male Headed			Female Headed		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	6,776,636	5,146,352	1,630,284	5,105,162	3,875,635	1,229,527	1,671,473	1,270,717	400,756
Dodoma	309,732	219,135	90,597	254,254	177,527	76,728	55,478	41,608	13,869
Arusha	323,668	263,522	60,146	247,680	201,015	46,664	75,988	62,506	13,482
Kilimanjaro	353,158	232,772	120,386	259,384	175,466	83,918	93,774	57,306	36,467
Tanga	397,539	334,420	63,119	276,706	234,472	42,234	120,833	99,948	20,885
Morogoro	328,018	221,926	106,092	237,296	165,439	71,857	90,722	56,487	34,235
Pwani	188,830	158,052	30,778	140,118	118,039	22,079	48,712	40,013	8,698
Dar es salaam	1,409,940	1,213,768	196,173	1,047,388	899,309	148,079	362,552	314,458	48,094
Lindi	155,207	103,312	51,894	120,661	76,444	44,218	34,545	26,869	7,677
Mtwara	284,064	231,161	52,903	214,962	174,943	40,020	69,102	56,219	12,883
Ruvuma	168,302	118,082	50,220	127,249	82,161	45,088	41,053	35,921	5,132
Iringa	185,678	120,351	65,327	128,283	81,836	46,447	57,394	38,515	18,880
Mbeya	225,469	195,924	29,546	179,073	151,685	27,388	46,396	44,238	2,158
Singida	133,014	95,275	37,739	108,509	76,896	31,613	24,505	18,379	6,126
Tabora	234,212	146,127	88,085	174,911	113,323	61,588	59,301	32,805	26,496
Rukwa	79,269	48,624	30,645	60,273	37,091	23,182	18,996	11,534	7,463
Kigoma	160,068	121,465	38,604	115,874	93,686	22,189	44,194	27,779	16,415
Shinyanga	106,261	72,285	33,976	82,301	56,311	25,990	23,960	15,973	7,987
Kagera	413,967	288,755	125,212	328,865	228,475	100,390	85,102	60,281	24,821
Mwanza	415,227	332,942	82,285	324,676	255,562	69,114	90,552	77,380	13,171
Mara	217,633	137,903	79,730	140,790	86,324	54,466	76,843	51,580	25,264
Manyara	124,804	76,509	48,296	95,113	58,879	36,233	29,692	17,629	12,062
Njombe	188,513	124,349	64,164	141,105	93,129	47,976	47,408	31,220	16,188
Katavi	57,269	51,427	5,841	46,945	41,375	5,570	10,324	10,052	272
Simiyu	146,358	105,694	40,664	112,014	83,058	28,956	34,343	22,635	11,708
Geita	30,801	21,583	9,218	25,913	18,387	7,526	4,889	3,196	1,692
Songwe	139,634	110,988	28,646	114,817	94,803	20,014	24,817	16,185	8,632

Table 5.7.1: Distribution of Households by Region and impact of Availability of Electricity on Increased Access to Mass Media through TV and Radio-Rural

Region Name:	RURAL								
	Total			Male Headed			Female Headed		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	3,237,621	2,074,447	1,163,173	2,573,205	1,672,572	900,633	664,416	401,876	262,540
Dodoma	228,088	142,005	86,084	189,562	117,348	72,214	38,526	24,657	13,869
Arusha	169,408	122,511	46,897	139,993	102,901	37,092	29,415	19,610	9,805
Kilimanjaro	241,858	138,156	103,702	176,737	102,991	73,747	65,121	35,165	29,955
Tanga	269,561	222,640	46,922	202,432	168,936	33,496	67,129	53,703	13,426
Morogoro	141,185	83,880	57,305	106,950	70,186	36,764	34,235	13,694	20,541
Pwani	81,998	63,192	18,806	61,992	48,404	13,587	20,007	14,787	5,219
Dar es salaam	0	0	0	0	0	0	0	0	0
Lindi	109,948	67,833	42,115	87,686	51,712	35,974	22,263	16,121	6,141
Mtwara	176,892	130,961	45,931	142,927	105,194	37,733	33,965	25,767	8,199
Ruvuma	85,410	39,223	46,188	75,147	33,065	42,082	10,263	6,158	4,105
Iringa	112,026	60,113	51,913	82,573	43,498	39,075	29,452	16,614	12,838
Mbeya	71,911	45,525	26,386	60,042	35,815	24,228	11,869	9,711	2,158
Singida	95,984	62,600	33,384	83,731	52,973	30,758	12,252	9,627	2,626
Tabora	169,741	97,759	71,982	128,104	78,833	49,271	41,637	18,926	22,711
Rukwa	33,924	16,639	17,285	27,818	13,247	14,571	6,106	3,392	2,714
Kigoma	78,140	49,578	28,562	57,937	38,214	19,723	20,203	11,364	8,839
Shinyanga	54,768	33,026	21,743	46,782	28,589	18,193	7,987	4,437	3,550
Kagera	335,447	215,470	119,977	276,939	180,010	96,929	58,508	35,459	23,048
Mwanza	177,429	119,332	58,098	151,087	102,868	48,219	26,342	16,464	9,878
Mara	145,825	79,630	66,195	106,877	58,577	48,300	38,948	21,053	17,895
Manyara	70,058	24,502	45,556	57,068	22,646	34,422	12,990	1,856	11,134
Njombe	129,374	74,860	54,514	100,467	59,829	40,638	28,907	15,032	13,875
Katavi	31,122	26,348	4,774	27,318	22,544	4,774	3,803	3,803	0
Simiyu	134,817	94,153	40,664	105,156	76,200	28,956	29,660	17,952	11,708
Geita	19,717	13,825	5,892	17,836	12,697	5,140	1,880	1,128	752
Songwe	72,990	50,690	22,300	60,042	45,295	14,747	12,948	5,395	7,553

Table 5.7.2: Distribution of Households by Region and impact of Availability of Electricity on Increased Access to Mass Media through TV and Radio-Urban

Region Name:	URBAN								
	Total			Male Headed			Female Headed		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	3,539,015	3,071,904	467,111	2,531,958	2,203,063	328,895	1,007,057	868,841	138,216
Dodoma	81,643	77,130	4,513	64,692	60,179	4,513	16,952	16,952	0
Arusha	154,260	141,011	13,249	107,687	98,115	9,572	46,573	42,897	3,677
Kilimanjaro	111,300	94,616	16,684	82,647	72,475	10,172	28,653	22,141	6,512
Tanga	127,977	111,780	16,197	74,274	65,536	8,738	53,703	46,245	7,459
Morogoro	186,833	138,046	48,787	130,346	95,253	35,093	56,487	42,793	13,694
Pwani	106,831	94,860	11,971	78,126	69,634	8,492	28,705	25,226	3,479
Dar es salaam	1,409,940	1,213,768	196,173	1,047,388	899,309	148,079	362,552	314,458	48,094
Lindi	45,259	35,479	9,779	32,976	24,732	8,244	12,283	10,747	1,535
Mtwara	107,172	100,200	6,972	72,035	69,748	2,287	35,137	30,452	4,685
Ruvuma	82,892	78,860	4,032	52,102	49,096	3,006	30,790	29,763	1,026
Iringa	73,652	60,238	13,414	45,710	38,338	7,373	27,942	21,900	6,042
Mbeya	153,558	150,398	3,160	119,031	115,871	3,160	34,528	34,528	0
Singida	37,030	32,675	4,355	24,778	23,923	854	12,252	8,752	3,501
Tabora	64,471	48,368	16,103	46,807	34,490	12,318	17,664	13,879	3,785
Rukwa	45,345	31,985	13,359	32,454	23,844	8,610	12,890	8,141	4,749
Kigoma	81,928	71,887	10,041	57,937	55,472	2,465	23,991	16,415	7,576
Shinyanga	51,493	39,259	12,234	35,520	27,723	7,797	15,973	11,536	4,437
Kagera	78,520	73,286	5,235	51,926	48,464	3,462	26,594	24,821	1,773
Mwanza	237,798	213,611	24,188	173,589	152,694	20,895	64,209	60,916	3,293
Mara	71,808	58,274	13,535	33,913	27,747	6,166	37,895	30,527	7,369
Manyara	54,747	52,007	2,740	38,045	36,233	1,812	16,702	15,774	928
Njombe	59,139	49,489	9,650	40,638	33,301	7,337	18,501	16,188	2,313
Katawi	26,147	25,080	1,067	19,627	18,831	796	6,520	6,249	272
Simiyu	11,541	11,541	0	6,858	6,858	0	4,683	4,683	0
Geita	11,085	7,758	3,326	8,076	5,690	2,386	3,008	2,068	940
Songwe	66,644	60,298	6,346	54,775	49,508	5,267	11,869	10,790	1,079

Table 5.8: Distribution of Households by Region and impact of Availability of Electricity on Increased Accessibility of Clean Water form Electric Water pumps

Region Name:	Total								
	Total			Male Headed			Female Headed		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	6,776,636	2,821,936	3,954,699	5,105,162	2,054,572	3,050,590	1,671,473	767,364	904,109
Dodoma	309,732	125,383	184,349	254,254	103,808	150,446	55,478	21,575	33,903
Arusha	323,668	191,352	132,316	247,680	144,779	102,901	75,988	46,573	29,415
Kilimanjaro	353,158	116,479	236,679	259,384	83,918	175,466	93,774	32,560	61,213
Tanga	397,539	91,179	306,360	276,706	53,885	222,821	120,833	37,294	83,539
Morogoro	328,018	79,029	248,989	237,296	58,488	178,808	90,722	20,541	70,181
Pwani	188,830	44,406	144,423	140,118	33,968	106,150	48,712	10,438	38,273
Dar es salaam	1,409,940	1,137,834	272,106	1,047,388	827,076	220,313	362,552	310,759	51,793
Lindi	155,207	78,362	76,845	120,661	60,705	59,956	34,545	17,656	16,889
Mtwara	284,064	100,145	183,920	214,962	72,035	142,927	69,102	28,109	40,993
Ruvuma	168,302	59,700	108,602	127,249	35,069	92,180	41,053	24,632	16,421
Iringa	185,678	20,049	165,628	128,283	14,008	114,275	57,394	6,042	51,353
Mbeya	225,469	87,916	137,553	179,073	67,416	111,657	46,396	20,501	25,896
Singida	133,014	41,240	91,774	108,509	31,613	76,896	24,505	9,627	14,878
Tabora	234,212	45,905	188,307	174,911	32,026	142,885	59,301	13,879	45,422
Rukwa	79,269	32,066	47,203	60,273	20,532	39,740	18,996	11,534	7,463
Kigoma	160,068	18,640	141,428	115,874	12,327	103,547	44,194	6,313	37,880
Shinyanga	106,261	37,505	68,756	82,301	26,856	55,445	23,960	10,649	13,311
Kagera	413,967	68,009	345,958	328,865	46,733	282,132	85,102	21,276	63,827
Mwanza	415,227	194,088	221,139	324,676	143,050	181,626	90,552	51,038	39,513
Mara	217,633	48,825	168,808	140,790	26,719	114,070	76,843	22,106	54,738
Manyara	124,804	58,370	66,434	95,113	41,668	53,444	29,692	16,702	12,990
Njombe	188,513	51,059	137,454	141,105	40,074	101,031	47,408	10,985	36,423
Katavi	57,269	22,906	34,362	46,945	18,831	28,114	10,324	4,075	6,249
Simiyu	146,358	26,800	119,558	112,014	21,336	90,678	34,343	5,464	28,880
Geita	30,801	2,400	28,402	25,913	1,836	24,077	4,889	564	4,324
Songwe	139,634	42,289	97,346	114,817	35,815	79,003	24,817	6,474	18,343

Table 5.8.1: Distribution of Households by Region and impact of Availability of Electricity on Increased Accessibility of Clean Water form Electric Water pumps-Rural

Region Name:	RURAL								
	Total			Male Headed			Female Headed		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	3,237,621	671,661	2,565,960	2,573,205	540,300	2,032,904	664,416	131,360	533,056
Dodoma	228,088	67,884	160,205	189,562	60,179	129,384	38,526	7,705	30,821
Arusha	169,408	79,290	90,117	139,993	65,809	74,184	29,415	13,482	15,933
Kilimanjaro	241,858	66,581	175,277	176,737	47,045	129,692	65,121	19,536	45,584
Tanga	269,561	40,990	228,571	202,432	32,040	170,393	67,129	8,951	58,179
Morogoro	141,185	25,229	115,956	106,950	18,382	88,568	34,235	6,847	27,388
Pwani	81,998	15,389	66,609	61,992	11,040	50,952	20,007	4,349	15,657
Dar es salaam	0	0	0	0	0	0	0	0	0
Lindi	109,948	53,430	56,519	87,686	44,218	43,468	22,263	9,212	13,050
Mtwara	176,892	45,903	130,989	142,927	38,876	104,051	33,965	7,027	26,938
Ruvuma	85,410	18,181	67,229	75,147	12,024	63,124	10,263	6,158	4,105
Iringa	112,026	2,967	109,059	82,573	2,212	80,361	29,452	755	28,697
Mbeya	71,911	16,956	54,955	60,042	12,640	47,402	11,869	4,316	7,553
Singida	95,984	17,150	78,833	83,731	14,525	69,206	12,252	2,626	9,627
Tabora	169,741	32,236	137,505	128,104	23,404	104,700	41,637	8,832	32,805
Rukwa	33,924	8,012	25,912	27,818	5,299	22,519	6,106	2,714	3,392
Kigoma	78,140	2,495	75,645	57,937	1,233	56,704	20,203	1,263	18,940
Shinyanga	54,768	6,128	48,641	46,782	3,465	43,317	7,987	2,662	5,324
Kagera	335,447	33,013	302,434	276,939	27,694	249,245	58,508	5,319	53,189
Mwanza	177,429	33,793	143,637	151,087	32,146	118,941	26,342	1,646	24,696
Mara	145,825	16,593	129,232	106,877	10,277	96,600	38,948	6,316	32,632
Manyara	70,058	18,183	51,875	57,068	15,399	41,668	12,990	2,784	10,206
Njombe	129,374	28,331	101,043	100,467	23,706	76,761	28,907	4,625	24,282
Katavi	31,122	11,689	19,432	27,318	10,874	16,444	3,803	815	2,988
Simiyu	134,817	20,630	114,187	105,156	18,288	86,868	29,660	2,342	27,319
Geita	19,717	1,101	18,615	17,836	1,101	16,735	1,880	0	1,880
Songwe	72,990	9,506	63,484	60,042	8,427	51,615	12,948	1,079	11,869

Table 5.8.2: Distribution of Households by Region and impact of Availability of Electricity on Increased Accessibility of Clean Water form Electric Water pumps-Urban

Region Name:	URBAN								
	Total			Male Headed			Female Headed		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	3,539,015	2,150,276	1,388,739	2,531,958	1,514,272	1,017,686	1,007,057	636,004	371,053
Dodoma	81,643	57,499	24,145	64,692	43,629	21,062	16,952	13,869	3,082
Arusha	154,260	112,062	42,198	107,687	78,970	28,716	46,573	33,092	13,482
Kilimanjaro	111,300	49,897	61,403	82,647	36,873	45,774	28,653	13,024	15,629
Tanga	127,977	50,189	77,788	74,274	21,845	52,428	53,703	28,343	25,360
Morogoro	186,833	53,800	133,033	130,346	40,106	90,239	56,487	13,694	42,793
Pwani	106,831	29,017	77,814	78,126	22,928	55,198	28,705	6,089	22,616
Dar es salaam	1,409,940	1,137,834	272,106	1,047,388	827,076	220,313	362,552	310,759	51,793
Lindi	45,259	24,932	20,326	32,976	16,488	16,488	12,283	8,444	3,838
Mtwara	107,172	54,241	52,931	72,035	33,159	38,876	35,137	21,082	14,055
Ruvuma	82,892	41,519	41,373	52,102	23,045	29,057	30,790	18,474	12,316
Iringa	73,652	17,082	56,570	45,710	11,796	33,914	27,942	5,286	22,656
Mbeya	153,558	70,960	82,598	119,031	54,775	64,256	34,528	16,185	18,343
Singida	37,030	24,089	12,941	24,778	17,088	7,690	12,252	7,001	5,251
Tabora	64,471	13,669	50,802	46,807	8,622	38,185	17,664	5,047	12,617
Rukwa	45,345	24,053	21,291	32,454	15,234	17,221	12,890	8,820	4,071
Kigoma	81,928	16,145	65,783	57,937	11,094	46,843	23,991	5,051	18,940
Shinyanga	51,493	31,377	20,115	35,520	23,391	12,129	15,973	7,987	7,987
Kagera	78,520	34,996	43,524	51,926	19,040	32,887	26,594	15,957	10,638
Mwanza	237,798	160,296	77,502	173,589	110,904	62,685	64,209	49,392	14,818
Mara	71,808	32,232	39,576	33,913	16,443	17,470	37,895	15,790	22,106
Manyara	54,747	40,187	14,559	38,045	26,269	11,776	16,702	13,918	2,784
Njombe	59,139	22,728	36,411	40,638	16,368	24,270	18,501	6,360	12,141
Katavi	26,147	11,217	14,930	19,627	7,957	11,670	6,520	3,260	3,260
Simiyu	11,541	6,170	5,371	6,858	3,048	3,810	4,683	3,122	1,561
Geita	11,085	1,298	9,786	8,076	734	7,342	3,008	564	2,444
Songwe	66,644	32,783	33,862	54,775	27,388	27,388	11,869	5,395	6,474

Table 5.9: Distribution of Households by Region and Impact of Availability of Electricity has Made Students Spend More Time Studying Comfortably

Region Name:	Total								
	Total			Male Headed			Female Headed		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	6,776,636	4,885,968	1,890,668	5,105,162	3,645,386	1,459,777	1,671,473	1,240,582	430,891
Dodoma	309,732	193,486	116,246	254,254	154,960	99,295	55,478	38,526	16,952
Arusha	323,668	265,944	57,724	247,680	202,212	45,468	75,988	63,732	12,256
Kilimanjaro	353,158	232,772	120,386	259,384	175,466	83,918	93,774	57,306	36,467
Tanga	397,539	300,747	96,792	276,706	208,258	68,448	120,833	92,489	28,343
Morogoro	328,018	200,121	127,898	237,296	147,057	90,239	90,722	53,064	37,658
Pwani	188,830	120,522	68,308	140,118	87,468	52,650	48,712	33,054	15,657
Dar es salaam	1,409,940	1,242,924	167,016	1,047,388	917,368	130,021	362,552	325,557	36,995
Lindi	155,207	113,037	42,170	120,661	86,936	33,725	34,545	26,101	8,444
Mtwara	284,064	163,311	120,754	214,962	123,489	91,473	69,102	39,822	29,281
Ruvuma	168,302	99,974	68,328	127,249	67,131	60,118	41,053	32,842	8,211
Iringa	185,678	101,056	84,621	128,283	67,828	60,455	57,394	33,228	24,166
Mbeya	225,469	180,046	45,423	179,073	139,045	40,028	46,396	41,001	5,395
Singida	133,014	77,249	55,764	108,509	62,371	46,138	24,505	14,878	9,627
Tabora	234,212	120,230	113,982	174,911	88,687	86,224	59,301	31,543	27,758
Rukwa	79,269	47,300	31,969	60,273	35,766	24,506	18,996	11,534	7,463
Kigoma	160,068	126,485	33,583	115,874	94,918	20,956	44,194	31,567	12,627
Shinyanga	106,261	64,530	41,731	82,301	46,782	35,520	23,960	17,748	6,212
Kagera	413,967	323,583	90,384	328,865	254,438	74,427	85,102	69,145	15,957
Mwanza	415,227	352,308	62,919	324,676	271,635	53,041	90,552	80,673	9,878
Mara	217,633	120,383	97,250	140,790	70,909	69,881	76,843	49,475	27,369
Manyara	124,804	68,422	56,382	95,113	48,009	47,103	29,692	20,413	9,279
Njombe	188,513	111,891	76,622	141,105	82,405	58,700	47,408	29,485	17,923
Katavi	57,269	45,288	11,980	46,945	36,866	10,079	10,324	8,422	1,902
Simiyu	146,358	96,439	49,919	112,014	78,486	33,528	34,343	17,952	16,391
Geita	30,801	19,546	11,255	25,913	15,786	10,127	4,889	3,760	1,128
Songwe	139,634	98,373	41,261	114,817	81,110	33,708	24,817	17,264	7,553

Table 5.9.1: Distribution of Households by Region and Impact of Availability of Electricity has Made Students Spend More Time Studying Comfortably-Rural

Region Name:	RURAL								
	Total			Male Headed			Female Headed		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	3,237,621	1,838,390	1,399,231	2,573,205	1,466,730	1,106,475	664,416	371,660	292,756
Dodoma	228,088	116,356	111,733	189,562	94,781	94,781	38,526	21,575	16,952
Arusha	169,408	121,343	48,065	139,993	100,508	39,485	29,415	20,835	8,579
Kilimanjaro	241,858	135,582	106,276	176,737	101,719	75,018	65,121	33,863	31,258
Tanga	269,561	184,456	85,106	202,432	144,178	58,254	67,129	40,278	26,852
Morogoro	141,185	65,539	75,646	106,950	50,133	56,817	34,235	15,406	18,829
Pwani	81,998	39,332	42,667	61,992	28,024	33,968	20,007	11,308	8,698
Dar es salaam	0	0	0	0	0	0	0	0	0
Lindi	109,948	77,576	32,372	87,686	61,455	26,231	22,263	16,121	6,141
Mtwara	176,892	72,258	104,635	142,927	62,888	80,039	33,965	9,370	24,596
Ruvuma	85,410	25,171	60,239	75,147	20,039	55,108	10,263	5,132	5,132
Iringa	112,026	45,314	66,712	82,573	30,965	51,608	29,452	14,349	15,104
Mbeya	71,911	42,365	29,546	60,042	32,655	27,388	11,869	9,711	2,158
Singida	95,984	45,449	50,534	83,731	38,448	45,283	12,252	7,001	5,251
Tabora	169,741	78,111	91,630	128,104	56,661	71,443	41,637	21,449	20,188
Rukwa	33,924	13,973	19,951	27,818	11,260	16,558	6,106	2,714	3,392
Kigoma	78,140	55,772	22,369	57,937	43,145	14,792	20,203	12,627	7,576
Shinyanga	54,768	26,095	28,673	46,782	21,658	25,124	7,987	4,437	3,550
Kagera	335,447	250,339	85,107	276,939	204,243	72,697	58,508	46,097	12,411
Mwanza	177,429	132,229	45,200	151,087	114,119	36,968	26,342	18,110	8,232
Mara	145,825	63,137	82,688	106,877	44,189	62,687	38,948	18,948	20,000
Manyara	70,058	20,016	50,041	57,068	16,305	40,763	12,990	3,711	9,279
Njombe	129,374	66,958	62,416	100,467	51,927	48,540	28,907	15,032	13,875
Katavi	31,122	22,609	8,513	27,318	19,892	7,426	3,803	2,717	1,087
Simiyu	134,817	84,897	49,919	105,156	71,628	33,528	29,660	13,269	16,391
Geita	19,717	11,224	8,493	17,836	10,096	7,741	1,880	1,128	752
Songwe	72,990	42,289	30,701	60,042	35,815	24,228	12,948	6,474	6,474

Table 5.9.2: Distribution of Households by Region and Impact of Availability of Electricity has Made Students Spend More Time Studying Comfortably-Urban

Region Name:	URBAN								
	Total			Male Headed			Female Headed		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	3,539,015	3,047,578	491,437	2,531,958	2,178,656	353,302	1,007,057	868,922	138,135
Dodoma	81,643	77,130	4,513	64,692	60,179	4,513	16,952	16,952	0
Arusha	154,260	144,601	9,659	107,687	101,704	5,983	46,573	42,897	3,677
Kilimanjaro	111,300	97,190	14,110	82,647	73,747	8,900	28,653	23,443	5,210
Tanga	127,977	116,291	11,686	74,274	64,079	10,194	53,703	52,212	1,492
Morogoro	186,833	134,582	52,251	130,346	96,924	33,422	56,487	37,658	18,829
Pwani	106,831	81,190	25,641	78,126	59,444	18,682	28,705	21,746	6,959
Dar es salaam	1,409,940	1,242,924	167,016	1,047,388	917,368	130,021	362,552	325,557	36,995
Lindi	45,259	35,461	9,798	32,976	25,481	7,494	12,283	9,980	2,303
Mtwara	107,172	91,053	16,119	72,035	60,601	11,434	35,137	30,452	4,685
Ruvuma	82,892	74,803	8,089	52,102	47,092	5,010	30,790	27,711	3,079
Iringa	73,652	55,743	17,909	45,710	36,863	8,847	27,942	18,880	9,062
Mbeya	153,558	137,681	15,877	119,031	106,390	12,640	34,528	31,291	3,237
Singida	37,030	31,800	5,230	24,778	23,923	854	12,252	7,877	4,376
Tabora	64,471	42,120	22,352	46,807	32,026	14,781	17,664	10,094	7,570
Rukwa	45,345	33,326	12,019	32,454	24,506	7,948	12,890	8,820	4,071
Kigoma	81,928	70,714	11,214	57,937	51,774	6,164	23,991	18,940	5,051
Shinyanga	51,493	38,435	13,058	35,520	25,124	10,396	15,973	13,311	2,662
Kagera	78,520	73,244	5,277	51,926	50,195	1,731	26,594	23,048	3,546
Mwanza	237,798	220,079	17,719	173,589	157,516	16,073	64,209	62,563	1,646
Mara	71,808	57,246	14,562	33,913	26,719	7,194	37,895	30,527	7,369
Manyara	54,747	48,406	6,341	38,045	31,704	6,341	16,702	16,702	0
Njombe	59,139	44,932	14,207	40,638	30,479	10,160	18,501	14,454	4,047
Katavi	26,147	22,680	3,467	19,627	16,974	2,652	6,520	5,705	815
Simiyu	11,541	11,541	0	6,858	6,858	0	4,683	4,683	0
Geita	11,085	8,323	2,762	8,076	5,690	2,386	3,008	2,632	376
Songwe	66,644	56,085	10,559	54,775	45,295	9,480	11,869	10,790	1,079

Table 5.10: Distribution of Households by Region and impact of Availability of Electricity has Contributed to Income Growth of Household Members

Region Name:	Total								
	Total			Male Headed			Female Headed		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	6,776,636	3,319,765	3,456,870	5,105,162	2,495,648	2,609,515	1,671,473	824,118	847,356
Dodoma	309,732	173,855	135,877	254,254	138,411	115,844	55,478	35,444	20,034
Arusha	323,668	229,816	93,852	247,680	175,889	71,791	75,988	53,927	22,061
Kilimanjaro	353,158	126,774	226,384	259,384	89,004	170,380	93,774	37,770	56,004
Tanga	397,539	205,482	192,056	276,706	138,353	138,353	120,833	67,129	53,703
Morogoro	328,018	166,414	161,604	237,296	125,332	111,964	90,722	41,082	49,640
Pwani	188,830	83,013	105,817	140,118	56,047	84,071	48,712	26,965	21,746
Dar es salaam	1,409,940	755,270	654,670	1,047,388	585,093	462,296	362,552	170,177	192,374
Lindi	155,207	99,419	55,787	120,661	78,692	41,969	34,545	20,727	13,818
Mtwara	284,064	127,559	156,506	214,962	100,621	114,342	69,102	26,938	42,164
Ruvuma	168,302	71,846	96,456	127,249	42,082	85,167	41,053	29,763	11,290
Iringa	185,678	41,627	144,050	128,283	27,279	101,005	57,394	14,349	43,046
Mbeya	225,469	115,432	110,037	179,073	89,537	89,537	46,396	25,896	20,501
Singida	133,014	60,953	72,060	108,509	48,701	59,808	24,505	12,252	12,252
Tabora	234,212	74,355	159,857	174,911	55,430	119,482	59,301	18,926	40,375
Rukwa	79,269	38,689	40,580	60,273	27,156	33,117	18,996	11,534	7,463
Kigoma	160,068	61,905	98,163	115,874	50,541	65,333	44,194	11,364	32,830
Shinyanga	106,261	41,012	65,249	82,301	28,589	53,712	23,960	12,424	11,536
Kagera	413,967	186,087	227,880	328,865	148,855	180,010	85,102	37,232	47,870
Mwanza	415,227	273,237	141,990	324,676	205,735	118,941	90,552	67,502	23,049
Mara	217,633	88,176	129,457	140,790	53,438	87,351	76,843	34,737	42,106
Manyara	124,804	51,963	72,841	95,113	38,045	57,068	29,692	13,918	15,774
Njombe	188,513	76,085	112,428	141,105	57,006	84,099	47,408	19,079	28,329
Katavi	57,269	41,575	15,693	46,945	33,153	13,792	10,324	8,422	1,902
Simiyu	146,358	59,026	87,332	112,014	44,196	67,818	34,343	14,830	19,513
Geita	30,801	13,055	17,747	25,913	12,115	13,798	4,889	940	3,948
Songwe	139,634	57,138	82,496	114,817	46,348	68,469	24,817	10,790	14,027

Table 5.10.1: Distribution of Households by Region and impact of Availability of Electricity has Contributed to Income Growth of Household Members-Rural

Region Name:	RURAL								
	Total			Male Headed			Female Headed		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	3,237,621	1,208,619	2,029,002	2,573,205	959,635	1,613,569	664,416	248,984	415,432
Dodoma	228,088	113,347	114,742	189,562	91,772	97,790	38,526	21,575	16,952
Arusha	169,408	105,672	63,736	139,993	89,739	50,254	29,415	15,933	13,482
Kilimanjaro	241,858	60,224	181,634	176,737	40,688	136,050	65,121	19,536	45,584
Tanga	269,561	127,410	142,151	202,432	97,575	104,857	67,129	29,835	37,294
Morogoro	141,185	55,390	85,795	106,950	45,120	61,831	34,235	10,270	23,964
Pwani	81,998	23,984	58,014	61,992	15,286	46,706	20,007	8,698	11,308
Dar es salaam	0	0	0	0	0	0	0	0	0
Lindi	109,948	66,974	42,974	87,686	55,459	32,226	22,263	11,515	10,747
Mtwara	176,892	60,796	116,097	142,927	52,597	90,330	33,965	8,199	25,767
Ruvuma	85,410	19,159	66,251	75,147	14,027	61,120	10,263	5,132	5,132
Iringa	112,026	14,133	97,892	82,573	8,847	73,726	29,452	5,286	24,166
Mbeya	71,911	24,381	47,530	60,042	17,907	42,135	11,869	6,474	5,395
Singida	95,984	36,009	59,974	83,731	30,758	52,973	12,252	5,251	7,001
Tabora	169,741	47,107	122,634	128,104	34,490	93,614	41,637	12,617	29,020
Rukwa	33,924	12,003	21,922	27,818	8,610	19,208	6,106	3,392	2,714
Kigoma	78,140	29,705	48,435	57,937	24,654	33,283	20,203	5,051	15,152
Shinyanga	54,768	15,678	39,090	46,782	12,129	34,653	7,987	3,550	4,437
Kagera	335,447	126,859	208,588	276,939	105,583	171,356	58,508	21,276	37,232
Mwanza	177,429	74,210	103,219	151,087	62,685	88,402	26,342	11,525	14,818
Mara	145,825	47,672	98,153	106,877	30,830	76,047	38,948	16,842	22,106
Manyara	70,058	12,726	57,332	57,068	10,870	46,198	12,990	1,856	11,134
Njombe	129,374	38,586	90,788	100,467	29,914	70,553	28,907	8,672	20,235
Katavi	31,122	20,746	10,376	27,318	18,301	9,018	3,803	2,445	1,358
Simiyu	134,817	49,808	85,009	105,156	38,100	67,056	29,660	11,708	17,952
Geita	19,717	8,081	11,636	17,836	7,893	9,944	1,880	188	1,692
Songwe	72,990	17,959	55,031	60,042	15,801	44,242	12,948	2,158	10,790

Table 5.10.2: Distribution of Households by Region and impact of Availability of Electricity has contributed to Income Growth of Household Members-Urban

Region Name:	URBAN								
	Total			Male Headed			Female Headed		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	3,539,015	2,111,146	1,427,869	2,531,958	1,536,013	995,945	1,007,057	575,134	431,923
Dodoma	81,643	60,508	21,136	64,692	46,638	18,054	16,952	13,869	3,082
Arusha	154,260	124,144	30,117	107,687	86,149	21,537	46,573	37,994	8,579
Kilimanjaro	111,300	66,550	44,750	82,647	48,317	34,330	28,653	18,234	10,419
Tanga	127,977	78,072	49,905	74,274	40,778	33,496	53,703	37,294	16,409
Morogoro	186,833	111,024	75,809	130,346	80,213	50,133	56,487	30,811	25,676
Pwani	106,831	59,028	47,803	78,126	40,762	37,365	28,705	18,267	10,438
Dar es salaam	1,409,940	755,270	654,670	1,047,388	585,093	462,296	362,552	170,177	192,374
Lindi	45,259	32,445	12,814	32,976	23,233	9,743	12,283	9,212	3,071
Mtwara	107,172	66,763	40,409	72,035	48,024	24,012	35,137	18,740	16,397
Ruvuma	82,892	52,687	30,205	52,102	28,055	24,047	30,790	24,632	6,158
Iringa	73,652	27,494	46,158	45,710	18,432	27,279	27,942	9,062	18,880
Mbeya	153,558	91,051	62,508	119,031	71,629	47,402	34,528	19,422	15,106
Singida	37,030	24,944	12,086	24,778	17,942	6,835	12,252	7,001	5,251
Tabora	64,471	27,249	37,223	46,807	20,940	25,867	17,664	6,309	11,355
Rukwa	45,345	26,687	18,658	32,454	18,545	13,909	12,890	8,141	4,749
Kigoma	81,928	32,200	49,728	57,937	25,887	32,050	23,991	6,313	17,678
Shinyanga	51,493	25,334	26,158	35,520	16,460	19,059	15,973	8,874	7,099
Kagera	78,520	59,228	19,292	51,926	43,272	8,654	26,594	15,957	10,638
Mwanza	237,798	199,028	38,771	173,589	143,050	30,539	64,209	55,977	8,232
Mara	71,808	40,504	31,305	33,913	22,609	11,304	37,895	17,895	20,000
Manyara	54,747	39,237	15,509	38,045	27,175	10,870	16,702	12,062	4,639
Njombe	59,139	37,499	21,640	40,638	27,092	13,546	18,501	10,407	8,094
Katawi	26,147	20,830	5,317	19,627	14,853	4,774	6,520	5,977	543
Simiyu	11,541	9,218	2,323	6,858	6,096	762	4,683	3,122	1,561
Geita	11,085	4,974	6,111	8,076	4,222	3,855	3,008	752	2,256
Songwe	66,644	39,180	27,464	54,775	30,548	24,228	11,869	8,632	3,237

Table 5.11: Distribution of Households by Region and Effect of Availability of Electricity has possibly decreased risk of household members being infected with diseases related to drinking unsafe water

Region Name:	Total								
	Total			Male Headed			Female Headed		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	6,776,636	3,329,730	3,446,906	5,105,162	2,466,161	2,639,002	1,671,473	863,569	807,904
Dodoma	309,732	158,591	151,141	254,254	132,393	121,861	55,478	26,198	29,280
Arusha	323,668	196,080	127,588	247,680	151,958	95,722	75,988	44,122	31,866
Kilimanjaro	353,158	148,482	204,675	259,384	106,805	152,579	93,774	41,677	52,096
Tanga	397,539	148,189	249,350	276,706	101,944	174,762	120,833	46,245	74,588
Morogoro	328,018	99,123	228,895	237,296	76,871	160,426	90,722	22,253	68,469
Pwani	188,830	43,536	145,293	140,118	33,968	106,150	48,712	9,568	39,143
Dar es salaam	1,409,940	1,199,496	210,444	1,047,388	877,639	169,749	362,552	321,857	40,695
Lindi	155,207	87,446	67,760	120,661	65,952	54,710	34,545	21,495	13,050
Mtwara	284,064	140,359	143,706	214,962	104,051	110,911	69,102	36,308	32,794
Ruvuma	168,302	98,923	69,379	127,249	68,133	59,116	41,053	30,790	10,263
Iringa	185,678	35,729	149,949	128,283	21,381	106,903	57,394	14,349	43,046
Mbeya	225,469	101,687	123,782	179,073	77,949	101,124	46,396	23,738	22,659
Singida	133,014	51,513	81,500	108,509	41,011	67,498	24,505	10,502	14,003
Tabora	234,212	54,527	179,685	174,911	40,648	134,263	59,301	13,879	45,422
Rukwa	79,269	38,657	40,612	60,273	28,480	31,792	18,996	10,177	8,820
Kigoma	160,068	42,182	117,886	115,874	30,818	85,057	44,194	11,364	32,830
Shinyanga	106,261	38,413	67,848	82,301	25,990	56,311	23,960	12,424	11,536
Kagera	413,967	130,657	283,310	328,865	95,198	233,667	85,102	35,459	49,643
Mwanza	415,227	224,784	190,444	324,676	167,160	157,516	90,552	57,624	32,928
Mara	217,633	56,093	161,540	140,790	30,830	109,960	76,843	25,264	51,580
Manyara	124,804	60,160	64,645	95,113	44,386	50,727	29,692	15,774	13,918
Njombe	188,513	51,596	136,917	141,105	41,767	99,338	47,408	9,828	37,579
Katavi	57,269	27,169	30,100	46,945	22,279	24,666	10,324	4,890	5,434
Simiyu	146,358	29,866	116,492	112,014	23,622	88,392	34,343	6,244	28,099
Geita	30,801	8,278	22,524	25,913	7,526	18,387	4,889	752	4,136
Songwe	139,634	58,192	81,443	114,817	47,402	67,416	24,817	10,790	14,027

Table 5.11.1: Distribution of Households by Region and Effect of Availability of Electricity has possibly decreased risk of household members being infected with diseases related to drinking unsafe water- Rural

Region Name:	RURAL								
	Total			Male Headed			Female Headed		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	3,237,621	916,795	2,320,825	2,573,205	737,560	1,835,644	664,416	179,235	485,181
Dodoma	228,088	83,002	145,087	189,562	72,214	117,348	38,526	10,787	27,739
Arusha	169,408	81,625	87,782	139,993	70,595	69,398	29,415	11,031	18,384
Kilimanjaro	241,858	84,506	157,352	176,737	59,760	116,977	65,121	24,746	40,375
Tanga	269,561	81,980	187,581	202,432	64,079	138,353	67,129	17,901	49,228
Morogoro	141,185	26,900	114,285	106,950	20,053	86,897	34,235	6,847	27,388
Pwani	81,998	14,519	67,479	61,992	11,040	50,952	20,007	3,479	16,527
Dar es salaam	0	0	0	0	0	0	0	0	0
Lindi	109,948	60,248	49,701	87,686	47,965	39,721	22,263	12,283	9,980
Mtwara	176,892	64,282	112,611	142,927	53,741	89,187	33,965	10,541	23,424
Ruvuma	85,410	34,213	51,197	75,147	28,055	47,092	10,263	6,158	4,105
Iringa	112,026	8,937	103,089	82,573	5,161	77,412	29,452	3,776	25,676
Mbeya	71,911	23,328	48,583	60,042	16,854	43,188	11,869	6,474	5,395
Singida	95,984	24,840	71,144	83,731	22,214	61,517	12,252	2,626	9,627
Tabora	169,741	37,103	132,638	128,104	30,794	97,310	41,637	6,309	35,328
Rukwa	33,924	12,649	21,275	27,818	9,935	17,883	6,106	2,714	3,392
Kigoma	78,140	11,214	66,926	57,937	6,164	51,774	20,203	5,051	15,152
Shinyanga	54,768	9,614	45,154	46,782	6,064	40,718	7,987	3,550	4,437
Kagera	335,447	83,461	251,986	276,939	67,504	209,435	58,508	15,957	42,551
Mwanza	177,429	41,907	135,522	151,087	36,968	114,119	26,342	4,939	21,403
Mara	145,825	21,756	124,069	106,877	14,387	92,489	38,948	7,369	31,580
Manyara	70,058	19,089	50,969	57,068	16,305	40,763	12,990	2,784	10,206
Njombe	129,374	32,860	96,514	100,467	27,657	72,810	28,907	5,203	23,704
Katawi	31,122	12,757	18,365	27,318	11,670	15,648	3,803	1,087	2,717
Simiyu	134,817	24,458	110,358	105,156	21,336	83,820	29,660	3,122	26,538
Geita	19,717	4,593	15,123	17,836	4,405	13,431	1,880	188	1,692
Songwe	72,990	16,956	56,034	60,042	12,640	47,402	12,948	4,316	8,632

Table 5.11.2: Distribution of Households by Region and Effect of Availability of Electricity has possibly decreased risk of household members being infected with diseases related to drinking unsafe water- Urban

Region Name:	URBAN								
	Total			Male Headed			Female Headed		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	3,539,015	2,412,934	1,126,081	2,531,958	1,728,600	803,357	1,007,057	684,334	322,723
Dodoma	81,643	75,589	6,054	64,692	60,179	4,513	16,952	15,410	1,541
Arusha	154,260	114,455	39,805	107,687	81,363	26,323	46,573	33,092	13,482
Kilimanjaro	111,300	63,977	47,323	82,647	47,045	35,602	28,653	16,931	11,722
Tanga	127,977	66,208	61,769	74,274	37,865	36,409	53,703	28,343	25,360
Morogoro	186,833	72,223	114,610	130,346	56,817	73,528	56,487	15,406	41,082
Pwani	106,831	29,017	77,814	78,126	22,928	55,198	28,705	6,089	22,616
Dar es salaam	1,409,940	1,199,496	210,444	1,047,388	877,639	169,749	362,552	321,857	40,695
Lindi	45,259	27,199	18,060	32,976	17,987	14,989	12,283	9,212	3,071
Mtwara	107,172	76,077	31,095	72,035	50,310	21,725	35,137	25,767	9,370
Ruvuma	82,892	64,710	18,181	52,102	40,078	12,024	30,790	24,632	6,158
Iringa	73,652	26,792	46,860	45,710	16,220	29,490	27,942	10,573	17,369
Mbeya	153,558	78,359	75,199	119,031	61,096	57,935	34,528	17,264	17,264
Singida	37,030	26,673	10,357	24,778	18,797	5,981	12,252	7,877	4,376
Tabora	64,471	17,424	47,047	46,807	9,854	36,953	17,664	7,570	10,094
Rukwa	45,345	26,008	19,337	32,454	18,545	13,909	12,890	7,463	5,428
Kigoma	81,928	30,968	50,961	57,937	24,654	33,283	23,991	6,313	17,678
Shinyanga	51,493	28,800	22,693	35,520	19,926	15,594	15,973	8,874	7,099
Kagera	78,520	47,196	31,324	51,926	27,694	24,232	26,594	19,503	7,092
Mwanza	237,798	182,876	54,922	173,589	130,192	43,397	64,209	52,685	11,525
Mara	71,808	34,338	37,471	33,913	16,443	17,470	37,895	17,895	20,000
Manyara	54,747	41,071	13,676	38,045	28,081	9,964	16,702	12,990	3,711
Njombe	59,139	18,736	40,403	40,638	14,111	26,528	18,501	4,625	13,875
Katavi	26,147	14,412	11,734	19,627	10,609	9,018	6,520	3,803	2,717
Simiyu	11,541	5,408	6,133	6,858	2,286	4,572	4,683	3,122	1,561
Geita	11,085	3,685	7,400	8,076	3,120	4,956	3,008	564	2,444
Songwe	66,644	41,235	25,409	54,775	34,761	20,014	11,869	6,474	5,395

Table 5.12: Distribution of Households by Region and Effect of Availability of Electricity has possibly improved students performance

Region Name:	Total								
	Total			Male Headed			Female Headed		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	6,776,636	4,602,081	2,174,555	5,105,162	3,464,777	1,640,385	1,671,473	1,137,304	534,170
Dodoma	309,732	189,009	120,723	254,254	148,942	105,312	55,478	40,067	15,410
Arusha	323,668	262,325	61,343	247,680	199,819	47,861	75,988	62,506	13,482
Kilimanjaro	353,158	223,872	129,286	259,384	166,565	92,819	93,774	57,306	36,467
Tanga	397,539	311,083	86,456	276,706	212,627	64,079	120,833	98,456	22,376
Morogoro	328,018	136,050	191,968	237,296	106,950	130,346	90,722	29,100	61,622
Pwani	188,830	120,522	68,308	140,118	87,468	52,650	48,712	33,054	15,657
Dar es salaam	1,409,940	1,075,382	334,558	1,047,388	809,017	238,371	362,552	266,365	96,187
Lindi	155,207	100,955	54,252	120,661	78,692	41,969	34,545	22,263	12,283
Mtwara	284,064	170,143	113,921	214,962	131,493	83,469	69,102	38,650	30,452
Ruvuma	168,302	110,971	57,331	127,249	79,155	48,094	41,053	31,816	9,237
Iringa	185,678	86,257	99,420	128,283	55,295	72,989	57,394	30,963	26,432
Mbeya	225,469	173,675	51,794	179,073	134,832	44,242	46,396	38,843	7,553
Singida	133,014	66,121	66,892	108,509	52,118	56,390	24,505	14,003	10,502
Tabora	234,212	122,724	111,488	174,911	89,919	84,992	59,301	32,805	26,496
Rukwa	79,269	46,653	32,616	60,273	34,441	25,831	18,996	12,212	6,784
Kigoma	160,068	121,495	38,574	115,874	92,453	23,421	44,194	29,042	15,152
Shinyanga	106,261	54,113	52,148	82,301	37,252	45,049	23,960	16,861	7,099
Kagera	413,967	300,871	113,096	328,865	240,591	88,274	85,102	60,281	24,821
Mwanza	415,227	357,052	58,176	324,676	279,671	45,005	90,552	77,380	13,171
Mara	217,633	126,474	91,159	140,790	80,158	60,632	76,843	46,317	30,527
Manyara	124,804	68,400	56,404	95,113	48,915	46,198	29,692	19,485	10,206
Njombe	188,513	118,691	69,822	141,105	88,050	53,056	47,408	30,642	16,766
Katavi	57,269	45,295	11,974	46,945	36,601	10,344	10,324	8,694	1,630
Simiyu	146,358	94,915	51,443	112,014	76,962	35,052	34,343	17,952	16,391
Geita	30,801	19,555	11,246	25,913	16,735	9,178	4,889	2,820	2,068
Songwe	139,634	99,478	40,156	114,817	80,056	34,761	24,817	19,422	5,395

Table 5.12.1: Distribution of Households by Region and Effect of Availability of Electricity has possibly improved students' performance-Rural

Region Name:	RURAL								
	Total			Male Headed			Female Headed		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	3,237,621	1,804,558	1,433,063	2,573,205	1,437,251	1,135,954	664,416	367,307	297,109
Dodoma	228,088	114,888	113,201	189,562	91,772	97,790	38,526	23,116	15,410
Arusha	169,408	120,147	49,261	139,993	99,311	40,682	29,415	20,835	8,579
Kilimanjaro	241,858	130,527	111,331	176,737	95,362	81,375	65,121	35,165	29,955
Tanga	269,561	199,196	70,365	202,432	151,460	50,972	67,129	47,736	19,393
Morogoro	141,185	41,899	99,286	106,950	36,764	70,186	34,235	5,135	29,100
Pwani	81,998	40,181	41,817	61,992	28,873	33,119	20,007	11,308	8,698
Dar es salaam	0	0	0	0	0	0	0	0	0
Lindi	109,948	67,760	42,188	87,686	54,710	32,976	22,263	13,050	9,212
Mtwara	176,892	84,919	91,974	142,927	72,035	70,892	33,965	12,883	21,082
Ruvuma	85,410	35,190	50,220	75,147	30,059	45,088	10,263	5,132	5,132
Iringa	112,026	37,150	74,876	82,573	25,067	57,506	29,452	12,083	17,369
Mbeya	71,911	38,126	33,785	60,042	29,494	30,548	11,869	8,632	3,237
Singida	95,984	36,905	59,078	83,731	29,904	53,827	12,252	7,001	5,251
Tabora	169,741	78,141	91,600	128,104	55,430	72,674	41,637	22,711	18,926
Rukwa	33,924	15,977	17,948	27,818	12,584	15,234	6,106	3,392	2,714
Kigoma	78,140	53,306	24,834	57,937	40,679	17,258	20,203	12,627	7,576
Shinyanga	54,768	16,566	38,203	46,782	12,129	34,653	7,987	4,437	3,550
Kagera	335,447	231,132	104,315	276,939	192,126	84,813	58,508	39,005	19,503
Mwanza	177,429	133,797	43,632	151,087	117,333	33,753	26,342	16,464	9,878
Mara	145,825	71,333	74,491	106,877	53,438	53,438	38,948	17,895	21,053
Manyara	70,058	20,944	49,113	57,068	16,305	40,763	12,990	4,639	8,351
Njombe	129,374	73,222	56,152	100,467	55,878	44,589	28,907	17,344	11,563
Katavi	31,122	22,609	8,513	27,318	19,892	7,426	3,803	2,717	1,087
Simiyu	134,817	84,154	50,663	105,156	70,104	35,052	29,660	14,050	15,611
Geita	19,717	13,095	6,621	17,836	11,779	6,057	1,880	1,316	564
Songwe	72,990	43,393	29,597	60,042	34,761	25,281	12,948	8,632	4,316

Table 5.12.1: Distribution of Households by Region and Effect of Availability of Electricity has possibly improved students' performance-urban

Region Name:	URBAN								
	Total			Male Headed			Female Headed		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	3,539,015	2,797,523	741,492	2,531,958	2,027,527	504,431	1,007,057	769,997	237,060
Dodoma	81,643	74,121	7,522	64,692	57,170	7,522	16,952	16,952	0
Arusha	154,260	142,179	12,082	107,687	100,508	7,179	46,573	41,671	4,902
Kilimanjaro	111,300	93,345	17,955	82,647	71,204	11,443	28,653	22,141	6,512
Tanga	127,977	111,886	16,091	74,274	61,167	13,107	53,703	50,720	2,984
Morogoro	186,833	94,150	92,683	130,346	70,186	60,160	56,487	23,964	32,523
Pwani	106,831	80,341	26,490	78,126	58,595	19,532	28,705	21,746	6,959
Dar es salaam	1,409,940	1,075,382	334,558	1,047,388	809,017	238,371	362,552	266,365	96,187
Lindi	45,259	33,194	12,064	32,976	23,982	8,993	12,283	9,212	3,071
Mtwara	107,172	85,225	21,947	72,035	59,458	12,578	35,137	25,767	9,370
Ruvuma	82,892	75,781	7,111	52,102	49,096	3,006	30,790	26,684	4,105
Iringa	73,652	49,107	24,545	45,710	30,228	15,482	27,942	18,880	9,062
Mbeya	153,558	135,549	18,010	119,031	105,337	13,694	34,528	30,212	4,316
Singida	37,030	29,216	7,814	24,778	22,214	2,563	12,252	7,001	5,251
Tabora	64,471	44,583	19,888	46,807	34,490	12,318	17,664	10,094	7,570
Rukwa	45,345	30,677	14,668	32,454	21,857	10,597	12,890	8,820	4,071
Kigoma	81,928	68,188	13,740	57,937	51,774	6,164	23,991	16,415	7,576
Shinyanga	51,493	37,547	13,946	35,520	25,124	10,396	15,973	12,424	3,550
Kagera	78,520	69,740	8,781	51,926	48,464	3,462	26,594	21,276	5,319
Mwanza	237,798	223,254	14,544	173,589	162,338	11,251	64,209	60,916	3,293
Mara	71,808	55,141	16,667	33,913	26,719	7,194	37,895	28,422	9,474
Manyara	54,747	47,456	7,291	38,045	32,610	5,435	16,702	14,846	1,856
Njombe	59,139	45,469	13,670	40,638	32,172	8,466	18,501	13,297	5,203
Katavi	26,147	22,686	3,461	19,627	16,709	2,917	6,520	5,977	543
Simiyu	11,541	10,761	781	6,858	6,858	0	4,683	3,903	781
Geita	11,085	6,460	4,625	8,076	4,956	3,120	3,008	1,504	1,504
Songwe	66,644	56,085	10,559	54,775	45,295	9,480	11,869	10,790	1,079

Table 7.1: Distribution of Households by Region and Main Source of Income

Region Name:	TOTAL																
	Total	Selling food crops	Selling livestock	Selling livestock products	Selling cash crops	Selling charcoal	Selling woods	Selling firewoods	Selling other forest products like honey/beewax, bark, etc.	Income from business	Salary/wage labor (Only cash)	Payment in kind	Other sources of income	Financial support	Fishing/selling fish	Selling local brews	Other (Specify)
Total	11,454,818	4,652,818	246,570	85,747	1,091,353	74,430	41,477	39,469	68,680	1,374,955	1,161,357	406,878	844,150	337,664	138,633	107,028	783,608
Dodoma	590,106	196,824	6,018	6,018	93,716	4,587	1,541	4,587	3,046	111,879	37,794	1,541	60,435	31,886	4,513	12,182	13,540
Arusha	469,204	99,835	76,956	6,012	46,723	0	2,393	0	19,261	102,403	67,267	0	11,994	6,099	0	0	30,262
Kilimanjaro	499,128	170,067	14,110	3,845	66,458	2,574	2,543	1,271	1,302	56,131	28,251	0	69,093	22,017	0	1,271	60,193
Tanga	572,083	320,959	2,948	5,896	33,638	2,913	0	0	2,913	58,962	42,482	29,162	13,249	8,880	2,948	2,948	44,186
Morogoro	655,833	359,566	8,396	5,054	45,242	6,725	0	1,712	0	33,706	31,954	11,779	57,264	23,761	5,013	10,189	55,471
Pwani	333,150	49,481	4,267	849	24,647	17,936	1,698	0	0	84,670	49,439	1,698	29,949	22,513	17,833	2,548	25,621
Dar es salaam	1,417,251	14,535	0	3,612	36,292	0	0	3,612	10,923	359,664	424,587	254,311	109,317	55,054	3,612	3,700	138,034
Lindi	293,907	233,514	1,517	0	20,363	0	749	0	0	17,365	7,513	3,784	0	6,087	749	0	2,267
Mtwara	448,463	137,989	0	0	144,488	0	0	3,486	1,171	46,126	30,983	3,430	10,374	17,457	11,490	2,342	39,126
Ruvuma	392,519	178,054	10,044	11,070	83,382	0	2,004	0	0	30,351	23,167	4,008	35,312	7,111	0	1,002	7,014
Iringa	289,324	91,779	10,322	2,967	8,146	737	2,967	2,248	3,704	35,622	40,729	8,128	28,267	9,026	1,475	27,583	15,626
Mbeya	412,915	179,970	0	8,478	68,700	0	0	1,053	0	40,310	33,810	14,773	19,063	27,669	1,079	3,211	14,798
Singida	334,525	164,626	8,586	2,563	47,137	3,501	854	2,584	2,584	30,029	15,421	6,856	16,254	1,730	875	2,605	28,320
Tabora	483,265	215,436	3,695	1,232	90,249	2,523	1,232	2,493	1,232	33,497	38,394	9,854	9,944	20,098	0	11,326	42,060
Rukwa	259,632	156,454	662	662	2,649	1,357	1,325	2,003	1,325	15,298	13,990	1,325	13,408	3,360	12,584	7,302	25,928
Kigoma	483,363	260,067	3,728	3,698	23,511	2,495	4,991	5,021	2,525	23,511	43,205	7,456	37,251	26,187	12,387	2,465	24,864
Shinyanga	339,428	193,042	4,374	3,465	32,223	4,353	0	887	1,754	14,009	25,229	2,599	49,613	1,733	866	0	5,282
Kagera	678,574	448,963	3,504	0	24,316	3,504	3,462	1,731	1,731	69,571	46,944	32,887	3,504	7,050	1,731	7,050	22,628
Mwanza	630,094	246,973	6,429	1,607	50,100	8,076	4,861	0	8,115	80,913	57,980	0	75,973	8,154	41,907	1,646	37,359
Mara	403,837	229,640	8,296	3,108	15,540	7,294	1,028	1,053	2,080	27,044	27,922	2,080	12,432	20,903	17,495	0	27,922
Manyara	354,642	96,261	54,504	9,124	30,842	928	1,812	0	2,740	21,806	20,944	906	65,595	906	0	928	47,346
Njombe	221,565	137,868	3,978	564	8,562	0	5,672	1,156	0	12,472	17,125	3,400	8,549	2,299	564	1,143	18,212
Katavi	103,890	56,687	530	265	9,846	809	530	0	272	10,674	10,900	530	3,739	4,321	1,326	809	2,652
Simiyu	298,960	149,536	12,285	2,286	41,352	3,067	762	4,572	762	15,351	6,895	1,524	13,028	1,543	0	4,591	41,408
Geita	76,553	49,964	367	184	918	0	0	0	188	8,676	3,685	1,661	3,680	743	184	188	6,116
Songwe	412,608	214,731	1,053	3,186	42,314	1,053	1,053	0	1,053	34,915	14,747	3,186	86,863	1,079	0	0	7,374

Table 7.1A: Distribution of Households by Region and Main Source of Income Rural

Region Name:	RURAL																
	Total	Selling food crops	Selling livestock	Selling livestock products	Selling cash crops	Selling charcoal	Selling woods	Selling firewood	Selling other forest products like honey/beeswax, bush	Income from business	Salaried/wage labor(Only cash)	Payment in kind	Other sources of income	Financial support	Fishing/selling fish	Selling local brews	Other(Specify)
Total	7,701,218	4,149,539	218,423	63,648	945,748	43,122	37,196	28,844	45,813	513,557	292,570	85,745	483,792	184,145	102,619	87,547	418,909
Dodoma	499,290	184,642	6,018	3,009	87,698	1,541	1,541	1,541	3,046	89,166	19,704	0	57,353	22,823	4,513	12,182	4,513
Arusha	306,509	89,008	60,117	3,590	44,329	0	2,393	0	15,642	38,463	27,607	0	3,590	4,873	0	0	16,897
Kilimanjaro	383,952	152,235	12,808	1,271	62,643	1,271	2,543	0	0	29,306	7,691	0	47,416	19,412	0	1,271	46,083
Tanga	439,666	285,758	2,948	4,404	30,654	2,913	0	0	2,913	32,323	20,531	21,845	4,404	4,475	2,948	2,948	20,601
Morogoro	453,798	288,933	8,396	3,383	36,845	5,054	0	1,712	0	8,396	13,450	5,013	37,130	11,779	0	6,847	26,860
Pwani	216,087	40,098	3,397	849	19,552	15,368	1,698	0	0	53,084	18,744	0	18,827	13,814	16,135	1,698	12,821
Dar es salaam	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lindi	237,279	196,572	1,517	0	18,096	0	749	0	0	8,299	4,515	2,248	0	3,784	749	0	749
Mtwara	337,833	119,555	0	0	128,480	0	0	3,486	0	23,007	13,721	0	1,143	9,342	9,203	2,342	27,553
Ruvuma	286,460	145,674	8,040	11,070	71,334	0	2,004	0	0	9,066	9,042	0	20,112	6,109	0	1,002	3,006
Iringa	211,231	84,352	10,322	2,212	7,391	737	2,967	1,492	2,212	18,539	14,026	4,424	22,297	5,268	1,475	21,614	11,904
Mbeya	254,064	145,029	0	6,371	54,955	0	0	0	0	6,346	1,053	4,213	12,717	17,008	1,079	2,132	3,160
Singida	295,744	158,562	8,586	2,563	45,429	0	854	2,584	2,584	19,693	8,565	5,126	12,816	1,730	875	2,605	23,173
Tabora	408,880	205,582	3,695	1,232	84,060	0	0	2,493	1,232	23,613	11,146	4,927	9,944	15,051	0	11,326	34,579
Rukwa	199,587	131,125	662	662	1,987	0	1,325	2,003	0	9,289	8,675	1,325	4,685	1,357	11,260	5,977	19,256
Kigoma	391,543	240,194	2,465	2,465	21,046	0	4,991	5,021	2,525	17,348	18,521	4,961	26,037	18,670	8,659	2,465	16,175
Shinyanga	260,910	166,038	4,374	1,733	27,870	4,353	0	0	1,754	3,507	11,283	866	35,625	866	866	0	1,775
Kagera	600,054	441,956	3,504	0	20,813	1,731	1,731	1,731	1,731	41,709	22,543	25,963	1,731	5,277	1,731	7,050	20,855
Mwanza	387,434	224,315	4,822	1,607	38,810	1,607	4,861	0	6,468	19,405	19,366	0	25,795	1,646	25,795	0	12,937
Mara	325,812	217,183	7,244	3,108	15,540	5,188	1,028	1,053	2,080	10,352	13,410	0	4,136	11,504	15,440	0	18,548
Manyara	299,895	90,782	54,504	8,197	29,937	0	1,812	0	1,812	10,892	5,479	0	56,470	906	0	928	38,177
Njombe	161,848	115,126	2,271	0	7,406	0	5,672	1,156	0	2,822	7,434	1,129	2,850	2,299	564	1,143	11,976
Katavi	75,873	48,963	265	265	7,711	0	265	0	0	6,391	2,924	0	2,672	2,969	1,326	0	2,122
Simiyu	287,419	147,993	12,285	2,286	41,352	2,305	762	4,572	762	11,504	6,895	1,524	11,486	1,543	0	3,829	38,323
Geita	62,706	44,807	184	184	551	0	0	0	0	6,263	2,033	1,101	3,129	560	0	188	3,707
Songwe	317,343	185,057	0	3,186	41,261	1,053	0	0	1,053	14,773	4,213	1,079	61,429	1,079	0	0	3,160

Table 7.1B: Distribution of Households by Region and Main Source of Income Urban

Region Name:	URBAN																
	Total	Selling food crops	Selling livestock	Selling livestock products	Selling cash crops	Selling charcoal	Selling woods	Selling fire woods	Selling other forest products like honey/beewax, bush fruits	Income from business	Salaried/wage labor(Only cash)	Payment in kind	Other sources of income	Financial support	Fishing/selling fish	Selling local brews	Other(Specify)
Total	3,753,600	503,279	28,147	22,099	145,605	31,309	4,281	10,625	22,866	861,399	868,787	321,133	360,358	153,520	36,014	19,481	364,699
Dodoma	90,817	12,182	0	3,009	6,018	3,046	0	3,046	0	22,713	18,090	1,541	3,082	9,063	0	0	9,027
Arusha	162,694	10,827	16,839	2,422	2,393	0	0	0	3,619	63,939	39,660	0	8,405	1,226	0	0	13,365
Kilimanjaro	115,176	17,832	1,302	2,574	3,814	1,302	0	1,271	1,302	26,825	20,560	0	21,677	2,605	0	0	14,110
Tanga	132,417	35,200	0	1,492	2,984	0	0	0	0	26,639	21,951	7,317	8,844	4,404	0	0	23,585
Morogoro	202,036	70,633	0	1,671	8,396	1,671	0	0	0	25,310	18,504	6,766	20,134	11,982	5,013	3,342	28,612
Pwani	117,063	9,383	870	0	5,095	2,568	0	0	0	31,586	30,695	1,698	11,122	8,698	1,698	849	12,800
Dar es salaam	1,417,251	14,535	0	3,612	36,292	0	0	3,612	10,923	359,664	424,587	254,311	109,317	55,054	3,612	3,700	138,034
Lindi	56,628	36,942	0	0	2,267	0	0	0	0	9,066	2,998	1,535	0	2,303	0	0	1,517
Mtwara	110,630	18,434	0	0	16,008	0	0	0	1,171	23,119	17,262	3,430	9,231	8,115	2,287	0	11,573
Ruvuma	106,059	32,379	2,004	0	12,048	0	0	0	0	21,285	14,125	4,008	15,200	1,002	0	0	4,008
Iringa	78,094	7,426	0	755	755	0	0	755	1,492	17,082	26,703	3,704	5,970	3,758	0	5,970	3,722
Mbeya	158,851	34,941	0	2,107	13,745	0	0	1,053	0	33,964	32,757	10,559	6,346	10,662	0	1,079	11,638
Singida	38,780	6,064	0	0	1,709	3,501	0	0	0	10,336	6,856	1,730	3,438	0	0	0	5,147
Tabora	74,385	9,854	0	0	6,189	2,523	1,232	0	0	9,884	27,249	4,927	0	5,047	0	0	7,480
Rukwa	60,045	25,330	0	0	662	1,357	0	0	1,325	6,009	5,315	0	8,723	2,003	1,325	1,325	6,672
Kigoma	91,820	19,873	1,263	1,233	2,465	2,495	0	0	0	6,164	24,684	2,495	11,214	7,516	3,728	0	8,689
Shinyanga	78,517	27,004	0	1,733	4,353	0	0	887	0	10,501	13,946	1,733	13,988	866	0	0	3,507
Kagera	78,520	7,008	0	0	3,504	1,773	1,731	0	0	27,862	24,401	6,923	1,773	1,773	0	0	1,773
Mwanza	242,659	22,659	1,607	0	11,290	6,468	0	0	1,646	61,508	38,614	0	50,178	6,507	16,112	1,646	24,422
Mara	78,024	12,457	1,053	0	0	2,105	0	0	0	16,692	14,512	2,080	8,296	9,399	2,055	0	9,374
Manyara	54,747	5,479	0	928	906	928	0	0	928	10,914	15,465	906	9,124	0	0	0	9,168
Njombe	59,717	22,742	1,707	564	1,156	0	0	0	0	9,650	9,691	2,271	5,699	0	0	0	6,236
Katavi	28,016	7,724	265	0	2,135	809	265	0	272	4,282	7,976	530	1,067	1,352	0	809	530
Simiyu	11,541	1,543	0	0	0	762	0	0	0	3,847	0	0	1,543	0	0	762	3,085
Geita	13,847	5,157	184	0	367	0	0	0	188	2,413	1,652	560	551	184	184	0	2,409
Songwe	95,264	29,674	1,053	0	1,053	0	1,053	0	0	20,142	10,534	2,107	25,435	0	0	0	4,213

Table 7.1C: Distribution of Households by Region and Main Source of Income_Maleheaded

Region Name:	Male Headed																
	Total	Selling food crops	Selling livestock	Selling livestock products	Selling cash crops	Selling charcoal	Selling woods	Selling fire woods	Selling other forest products like honey/bee wax, bush fruits	Income from business	Salaried/wage labor(Only cash)	Payment in kind	Other sources of income	Financial support	Fishing/selling fish	Selling local brews	Other(Specify)
Total	8,738,690	3,664,008	198,287	68,643	918,685	44,572	33,853	21,123	45,287	1,002,992	938,475	327,674	609,186	122,455	124,327	48,982	570,142
Dodoma	448,330	144,428	6,018	6,018	75,223	1,504	0	1,504	1,504	88,763	30,089	0	49,647	19,558	4,513	6,018	13,540
Arusha	361,349	77,774	61,023	4,786	44,271	0	2,393	0	14,358	72,988	56,236	0	10,769	1,197	0	0	15,555
Kilimanjaro	362,375	129,692	8,900	2,543	52,131	1,271	2,543	1,271	0	48,317	16,529	0	50,860	5,086	0	1,271	41,959
Tanga	399,039	235,928	1,456	2,913	27,671	2,913	0	0	2,913	29,127	32,040	27,671	7,282	2,913	1,456	1,456	23,302
Morogoro	482,948	277,403	6,684	3,342	40,106	5,013	0	0	0	21,724	23,395	8,355	38,435	8,355	5,013	3,342	41,777
Pwani	250,514	39,912	3,397	849	23,778	13,587	1,698	0	0	59,444	41,611	1,698	20,381	4,246	17,833	2,548	19,532
Dar es salaam	1,051,000	10,835	0	3,612	28,893	0	0	3,612	7,223	270,876	339,498	191,419	68,622	18,058	3,612	0	104,739
Lindi	225,584	183,615	749	0	14,989	0	749	0	0	11,991	6,745	2,248	0	2,248	749	0	1,499
Mtwara	341,882	105,194	0	0	126,919	0	0	1,143	0	29,729	26,299	3,430	6,861	4,574	9,147	0	28,585
Ruvuma	318,624	148,290	9,018	9,018	74,145	0	2,004	0	0	18,035	18,035	4,008	25,049	3,006	0	1,002	7,014
Iringa	213,806	76,675	10,322	2,212	6,635	737	2,212	737	2,949	25,804	33,177	7,373	17,694	1,475	1,475	14,745	9,584
Mbeya	324,438	142,205	0	6,320	58,989	0	0	1,053	0	28,441	29,494	13,694	14,747	15,801	0	1,053	12,640
Singida	279,388	140,121	6,835	2,563	41,011	0	854	1,709	1,709	24,778	13,670	5,981	15,379	854	0	854	23,069
Tabora	362,140	168,752	3,695	1,232	76,370	0	1,232	1,232	1,232	23,404	29,562	9,854	6,159	3,695	0	1,232	34,490
Rukwa	204,000	122,532	662	662	2,649	0	1,325	1,325	1,325	12,584	10,597	1,325	6,623	1,325	12,584	6,623	21,857
Kigoma	373,510	209,560	2,465	3,698	19,723	1,233	2,465	1,233	0	19,723	40,679	4,931	25,887	13,560	9,862	2,465	16,025
Shinyanga	273,760	162,870	2,599	3,465	25,124	3,465	0	0	866	7,797	20,792	2,599	39,851	1,733	866	0	1,733
Kagera	529,646	347,905	1,731	0	20,770	1,731	3,462	1,731	1,731	55,388	38,079	32,887	1,731	1,731	1,731	1,731	17,309
Mwanza	493,443	202,521	6,429	1,607	38,575	6,429	3,215	0	4,822	57,863	53,041	0	57,863	3,215	36,968	0	20,895
Mara	275,413	166,481	5,138	2,055	10,277	3,083	1,028	0	1,028	13,360	20,553	1,028	8,221	6,166	16,443	0	20,553
Manyara	297,114	86,054	48,009	6,341	28,987	0	1,812	0	1,812	19,023	16,305	906	49,821	906	0	0	37,139
Njombe	160,860	107,804	2,822	564	4,515	0	4,515	0	0	10,160	9,031	2,822	5,080	564	564	564	11,853
Katavi	84,872	48,536	530	265	8,487	265	530	0	0	7,957	9,813	530	2,652	1,061	1,326	265	2,652
Simiyu	224,029	109,728	8,382	2,286	32,766	2,286	762	4,572	762	10,668	5,334	1,524	9,906	762	0	3,810	30,480
Geita	63,547	42,223	367	184	918	0	0	0	0	6,608	3,120	1,285	3,304	367	184	0	4,987
Songwe	337,079	176,966	1,053	2,107	34,761	1,053	1,053	0	1,053	28,441	14,747	2,107	66,362	0	0	0	7,374

Table 7.1D: Distribution of Households by Region and Main Source of Income_Femaleheaded

Region Name:	Female Headed																		
	Total	Selling food crops	Selling livestock	Selling livestock products	Selling cash crops	Selling charcoal	Selling woods	Selling firewood	Selling other forest products like honey/bee wax, bush fruits	Income from business	Salaried/wage labor(Only cash)	Payment in kind	Other sources of income	Financial support	Fishing/selling fish	Selling local brews	Other(Specific)		
Total	2,716,128	988,810	48,283	17,104	172,668	29,858	7,624	18,346	23,393	371,963	222,882	79,204	234,964	215,210	14,306	58,047	213,466		
Dodoma	141,776	52,396	0	0	18,493	3,082	1,541	3,082	1,541	23,116	7,705	1,541	10,787	12,328	0	6,164	0		
Arusha	107,854	22,061	15,933	1,226	2,451	0	0	0	4,902	29,415	11,031	0	1,226	4,902	0	0	14,707		
Kilimanjaro	136,753	40,375	5,210	1,302	14,327	1,302	0	0	1,302	7,814	11,722	0	18,234	16,931	0	0	18,234		
Tanga	173,044	85,030	1,492	2,984	5,967	0	0	0	0	29,835	10,442	1,492	5,967	5,967	1,492	1,492	20,885		
Morogoro	172,885	82,163	1,712	1,712	5,135	1,712	0	1,712	0	11,982	8,559	3,423	18,829	15,406	0	6,847	13,694		
Pwani	82,636	9,568	870	0	870	4,349	0	0	0	25,226	7,829	0	9,568	18,267	0	0	6,089		
Dar es salaam	366,251	3,700	0	0	7,399	0	0	0	3,700	88,788	85,089	62,892	40,695	36,995	0	3,700	33,296		
Lindi	68,323	49,899	768	0	5,374	0	0	0	0	5,374	768	1,535	0	3,838	0	0	768		
Mtwara	106,581	32,794	0	0	17,568	0	0	2,342	1,171	16,397	4,685	0	3,514	12,883	2,342	2,342	10,541		
Ruvuma	73,895	29,763	1,026	2,053	9,237	0	0	0	0	12,316	5,132	0	10,263	4,105	0	0	0		
Iringa	75,519	15,104	0	755	1,510	0	755	1,510	755	9,817	7,552	755	10,573	7,552	0	12,838	6,042		
Mbeya	88,477	37,765	0	2,158	9,711	0	0	0	0	11,869	4,316	1,079	4,316	11,869	1,079	2,158	2,158		
Singida	55,136	24,505	1,750	0	6,126	3,501	0	875	875	5,251	1,750	875	875	875	875	1,750	5,251		
Tabora	121,125	46,684	0	0	13,879	2,523	0	1,262	0	10,094	8,832	0	3,785	16,402	0	10,094	7,570		
Rukwa	55,632	33,922	0	0	0	1,357	0	678	0	2,714	3,392	0	6,784	2,035	0	678	4,071		
Kigoma	109,853	50,507	1,263	0	3,788	1,263	2,525	3,788	2,525	3,788	2,525	2,525	11,364	12,627	2,525	0	8,839		
Shinyanga	65,667	30,171	1,775	0	7,099	887	0	887	887	6,212	4,437	0	9,761	0	0	0	3,550		
Kagera	148,929	101,059	1,773	0	3,546	1,773	0	0	0	14,184	8,865	0	1,773	5,319	0	5,319	5,319		
Mwanza	136,650	44,453	0	0	11,525	1,646	1,646	0	3,293	23,049	4,939	0	18,110	4,939	4,939	1,646	16,464		
Mara	128,423	63,159	3,158	1,053	5,263	4,211	0	1,053	1,053	13,684	7,369	1,053	4,211	14,737	1,053	0	7,369		
Manyara	57,528	10,206	6,495	2,784	1,856	928	0	0	928	2,784	4,639	0	15,774	0	0	928	10,206		
Njombe	60,705	30,064	1,156	0	4,047	0	1,156	1,156	0	2,313	8,094	578	3,469	1,734	0	578	6,360		
Katavi	19,017	8,150	0	0	1,358	543	0	0	272	2,717	1,087	0	1,087	3,260	0	543	0		
Simiyu	74,931	39,807	3,903	0	8,586	781	0	0	0	4,683	1,561	0	3,122	781	0	781	10,927		
Geita	13,006	7,741	0	0	0	0	0	0	188	2,068	564	376	376	376	0	188	1,128		
Songwe	75,529	37,765	0	1,079	7,553	0	0	0	0	6,474	0	1,079	20,501	1,079	0	0	0		

Table 7.2: Distribution of Households by Region and Amount of Money spent on Purchasing Food Consumed in last 7 Days

Region Name:	TOTAL								
	Total	<1,000	1,000-1999	2,000-4999	5,000-9,999	10,000-14,999	15,000-19,999	20,000-29,999	30,000+
Total	11,454,818	163,188	41,448	534,903	1,393,834	1,850,226	919,937	2,106,868	4,444,413
Dodoma	590,106	12,145	3,046	36,510	84,835	161,856	40,767	87,515	163,433
Arusha	469,204	2,422	0	3,648	42,169	83,171	52,909	99,631	185,253
Kilimanjaro	499,128	0	0	7,660	30,794	39,695	38,423	122,929	259,628
Tanga	572,083	0	0	8,844	58,679	64,610	55,731	109,757	274,462
Morogoro	655,833	43,896	0	54,085	84,002	90,727	57,224	136,253	189,647
Pwani	333,150	0	2,548	3,438	11,992	21,437	12,841	62,405	218,490
Dar es salaam	1,417,251	18,146	7,223	7,311	65,537	149,484	18,234	148,606	1,002,709
Lindi	293,907	1,517	0	43,632	44,527	38,441	32,409	59,498	73,883
Mtwara	448,463	11,573	2,315	10,291	37,983	82,799	23,007	97,580	182,915
Ruvuma	392,519	2,004	2,004	43,255	59,481	70,357	34,237	67,399	113,782
Iringa	289,324	4,477	2,230	8,865	48,281	71,297	29,652	56,372	68,151
Mbeya	412,915	1,053	1,053	27,669	47,607	58,217	29,571	82,778	164,966
Singida	334,525	4,355	0	14,629	54,869	44,637	16,296	68,643	131,097
Tabora	483,265	11,236	3,755	36,021	51,012	102,956	44,463	112,540	121,282
Rukwa	259,632	4,701	662	19,983	64,665	52,566	20,677	43,197	53,180
Kigoma	483,363	3,698	7,426	37,221	83,131	91,670	52,013	83,101	125,103
Shinyanga	339,428	2,599	0	8,748	81,032	65,333	30,364	58,255	93,098
Kagera	678,574	5,235	1,731	13,931	64,421	109,929	78,310	173,929	231,089
Mwanza	630,094	6,507	3,215	38,888	69,700	69,349	54,883	106,590	280,961
Mara	403,837	6,241	0	13,460	55,968	76,672	55,869	89,981	105,646
Manyara	354,642	7,357	906	10,052	32,698	61,795	30,909	52,605	158,320
Njombe	221,565	10,765	1,129	26,761	43,294	40,266	18,185	33,493	47,672
Katavi	103,890	272	0	6,139	12,025	25,552	9,043	23,437	27,421
Simiyu	298,960	1,543	781	13,028	55,198	100,397	25,257	43,694	59,063
Geita	76,553	367	372	4,790	10,378	11,452	5,713	15,952	27,529
Songwe	412,608	1,079	1,053	36,045	99,555	65,565	52,950	70,730	85,630

Table 7.2A: Distribution of Households by Region and Amount of Money spent on Purchasing Food Consumed in last 7 Days Rural

Region Name:	RURAL								
	Total	<1,000	1,000 - 1999	2,000 - 4999	5,000 - 9,999	10,000 - 14,999	15,000 - 19,999	20,000 - 29,999	30,000+
Total	7,701,218	130,285	31,524	469,395	1,175,427	1,457,517	748,773	1,525,091	2,163,207
Dodoma	499,290	10,641	3,046	36,510	83,331	154,297	37,758	76,947	96,761
Arusha	306,509	1,226	0	1,197	34,961	67,442	33,590	67,122	100,973
Kilimanjaro	383,952	0	0	6,357	26,949	32,035	30,732	99,918	187,961
Tanga	439,666	0	0	5,896	54,274	52,853	52,818	90,648	183,177
Morogoro	453,798	37,130	0	40,513	67,128	63,827	45,445	95,822	103,933
Pwani	216,087	0	849	2,589	11,122	16,259	11,971	42,687	130,609
Dar es salaam	0	0	0	0	0	0	0	0	0
Lindi	237,279	1,517	0	39,885	36,942	31,659	28,643	44,400	54,234
Mtwara	337,833	9,259	2,315	9,147	34,525	68,966	16,119	75,688	121,814
Ruvuma	286,460	2,004	1,002	38,221	47,311	61,241	29,179	48,216	59,286
Iringa	211,231	4,477	2,230	8,128	38,606	50,403	26,685	39,991	40,711
Mbeya	254,064	1,053	1,053	26,590	41,286	48,634	16,880	42,417	76,150
Singida	295,744	4,355	0	13,774	54,869	40,302	14,587	61,704	106,153
Tabora	408,880	11,236	3,755	34,759	47,316	90,518	37,043	96,407	87,845
Rukwa	199,587	4,022	662	17,980	56,653	39,191	14,684	31,226	35,168
Kigoma	391,543	3,698	7,426	33,493	80,635	83,011	47,053	65,633	70,594
Shinyanga	260,910	866	0	5,240	71,376	58,339	24,278	43,464	57,346
Kagera	600,054	5,235	1,731	12,200	60,959	101,148	71,302	166,963	180,515
Mwanza	387,434	6,507	3,215	35,634	60,018	54,844	49,983	69,271	107,963
Mara	325,812	6,241	0	11,354	43,437	63,137	44,439	76,497	80,707
Manyara	299,895	7,357	906	10,052	32,698	60,889	26,357	44,452	117,183
Njombe	161,848	10,201	1,129	22,191	33,052	32,282	14,193	23,278	25,522
Katavi	75,873	272	0	5,608	9,089	22,085	7,168	15,428	16,224
Simiyu	287,419	1,543	781	13,028	53,674	98,854	24,477	39,847	55,216
Geita	62,706	367	372	4,056	9,456	10,346	4,235	13,190	20,684
Songwe	317,343	1,079	1,053	34,992	85,759	54,955	39,154	53,876	46,476

Table 7.2B: Distribution of Households by Region and Amount of Money spent on Purchasing Food Consumed in last 7 Days Urban

Region Name:	URBAN								
	Total	<1,000	1,000 - 1999	2,000 - 4999	5,000 - 9,999	10,000 - 14,999	15,000 - 19,999	20,000 - 29,999	30,000+
Total	3,753,600	32,903	9,924	65,508	218,408	392,710	171,164	581,778	2,281,206
Dodoma	90,817	1,504	0	0	1,504	7,559	3,009	10,568	66,672
Arusha	162,694	1,197	0	2,451	7,208	15,729	19,319	32,510	84,280
Kilimanjaro	115,176	0	0	1,302	3,845	7,660	7,691	23,011	71,667
Tanga	132,417	0	0	2,948	4,404	11,757	2,913	19,110	91,285
Morogoro	202,036	6,766	0	13,572	16,874	26,900	11,779	40,431	85,714
Pwani	117,063	0	1,698	849	870	5,178	870	19,717	87,881
Dar es salaam	1,417,251	18,146	7,223	7,311	65,537	149,484	18,234	148,606	1,002,709
Lindi	56,628	0	0	3,747	7,586	6,781	3,765	15,098	19,650
Mtwara	110,630	2,315	0	1,143	3,458	13,832	6,888	21,892	61,102
Ruvuma	106,059	0	1,002	5,034	12,170	9,115	5,059	19,183	54,496
Iringa	78,094	0	0	737	9,674	20,894	2,967	16,381	27,440
Mbeya	158,851	0	0	1,079	6,320	9,583	12,692	40,361	88,816
Singida	38,780	0	0	854	0	4,334	1,709	6,939	24,944
Tabora	74,385	0	0	1,262	3,695	12,437	7,421	16,133	33,437
Rukwa	60,045	678	0	2,003	8,012	13,376	5,993	11,970	18,012
Kigoma	91,820	0	0	3,728	2,495	8,659	4,961	17,468	54,509
Shinyanga	78,517	1,733	0	3,507	9,656	6,994	6,085	14,791	35,751
Kagera	78,520	0	0	1,731	3,462	8,781	7,008	6,966	50,574
Mwanza	242,659	0	0	3,254	9,683	14,505	4,900	37,320	172,998
Mara	78,024	0	0	2,105	12,532	13,535	11,429	13,485	24,939
Manyara	54,747	0	0	0	0	906	4,551	8,153	41,137
Njombe	59,717	564	0	4,570	10,242	7,984	3,992	10,214	22,150
Katavi	28,016	0	0	530	2,937	3,467	1,876	8,008	11,198
Simiyu	11,541	0	0	0	1,524	1,543	781	3,847	3,847
Geita	13,847	0	0	734	922	1,106	1,477	2,762	6,845
Songwe	95,264	0	0	1,053	13,796	10,611	13,796	16,854	39,154

Table 7.2C: Distribution of Households by Region and Amount of Money spent on Purchasing Food Consumed in last 7 Days_ Maleheaded

Region Name:	Male Headed								
	Total	<1,000	1,000 - 1999	2,000 - 4999	5,000 - 9,999	10,000 - 14,999	15,000 - 19,999	20,000 - 29,999	30,000+
Total	8,738,690	96,670	33,225	366,814	1,005,490	1,379,255	717,521	1,683,546	3,456,168
Dodoma	448,330	7,522	1,504	19,558	60,179	124,870	34,603	76,728	123,366
Arusha	361,349	1,197	0	1,197	29,913	57,433	41,878	86,149	143,582
Kilimanjaro	362,375	0	0	6,357	19,072	27,973	26,701	86,461	195,810
Tanga	399,039	0	0	4,369	40,778	42,234	39,321	87,381	184,956
Morogoro	482,948	25,066	0	28,409	65,173	70,186	40,106	98,595	155,412
Pwani	250,514	0	2,548	1,698	7,643	12,738	8,492	45,008	172,388
Dar es salaam	1,051,000	14,447	7,223	3,612	43,340	90,292	10,835	126,409	754,842
Lindi	225,584	749	0	36,723	31,477	29,229	24,732	47,215	55,459
Mtwara	341,882	5,717	1,143	10,291	27,442	62,888	17,151	81,183	136,067
Ruvuma	318,624	2,004	2,004	36,071	44,086	61,120	27,053	56,110	90,176
Iringa	213,806	2,212	1,475	8,110	33,177	49,396	22,855	42,024	54,557
Mbeya	324,438	1,053	1,053	15,801	38,975	46,348	26,334	56,882	137,992
Singida	279,388	854	0	10,253	46,992	35,885	13,670	56,390	115,344
Tabora	362,140	4,927	1,232	23,404	29,562	72,674	39,417	93,614	97,310
Rukwa	204,000	1,987	662	15,234	47,026	42,390	14,571	37,091	45,039
Kigoma	373,510	3,698	6,164	27,120	60,403	72,730	41,912	61,635	99,849
Shinyanga	273,760	2,599	0	5,198	61,509	50,247	28,589	49,381	76,237
Kagera	529,646	3,462	1,731	10,385	48,464	72,697	60,580	138,470	193,857
Mwanza	493,443	3,215	3,215	25,717	45,005	59,470	45,005	85,187	226,630
Mara	275,413	3,083	0	9,249	35,968	50,355	40,079	65,770	70,909
Manyara	297,114	2,718	906	6,341	28,987	53,444	26,269	49,821	128,629
Njombe	160,860	9,031	1,129	16,933	26,528	32,172	12,982	25,399	36,687
Katawi	84,872	0	0	4,509	8,222	21,749	7,957	19,361	23,075
Simiyu	224,029	762	0	9,906	41,148	76,200	20,574	32,766	42,672
Geita	63,547	367	184	4,038	7,526	9,760	4,772	14,260	22,640
Songwe	337,079	0	1,053	26,334	76,896	54,775	41,081	64,256	72,683

Table 7.2D: Distribution of Households by Region and Amount of Money spent on Purchasing Food Consumed in last 7 Days_ Femaleheaded

Region Name:	Female Headed								
	Total	<1,000	1,000 - 1999	2,000 - 4999	5,000 - 9,999	10,000 - 14,999	15,000 - 19,999	20,000 - 29,999	30,000+
Total	2,716,128	66,518	8,222	168,089	388,344	470,971	202,416	423,322	988,245
Dodoma	141,776	4,623	1,541	16,952	24,657	36,985	6,164	10,787	40,067
Arusha	107,854	1,226	0	2,451	12,256	25,738	11,031	13,482	41,671
Kilimanjaro	136,753	0	0	1,302	11,722	11,722	11,722	36,467	63,818
Tanga	173,044	0	0	4,475	17,901	22,376	16,409	22,376	89,506
Morogoro	172,885	18,829	0	25,676	18,829	20,541	17,117	37,658	34,235
Pwani	82,636	0	0	1,740	4,349	8,698	4,349	17,397	46,102
Dar es salaam	366,251	3,700	0	3,700	22,197	59,192	7,399	22,197	247,867
Lindi	68,323	768	0	6,909	13,050	9,212	7,677	12,283	18,424
Mtwara	106,581	5,856	1,171	0	10,541	19,911	5,856	16,397	46,849
Ruvuma	73,895	0	0	7,184	15,395	9,237	7,184	11,290	23,605
Iringa	75,519	2,266	755	755	15,104	21,900	6,797	14,349	13,593
Mbeya	88,477	0	0	11,869	8,632	11,869	3,237	25,896	26,975
Singida	55,136	3,501	0	4,376	7,877	8,752	2,626	12,252	15,753
Tabora	121,125	6,309	2,523	12,617	21,449	30,281	5,047	18,926	23,973
Rukwa	55,632	2,714	0	4,749	17,640	10,177	6,106	6,106	8,141
Kigoma	109,853	0	1,263	10,101	22,728	18,940	10,101	21,466	25,254
Shinyanga	65,667	0	0	3,550	19,523	15,086	1,775	8,874	16,861
Kagera	148,929	1,773	0	3,546	15,957	37,232	17,730	35,459	37,232
Mwanza	136,650	3,293	0	13,171	24,696	9,878	9,878	21,403	54,331
Mara	128,423	3,158	0	4,211	20,000	26,316	15,790	24,211	34,737
Manyara	57,528	4,639	0	3,711	3,711	8,351	4,639	2,784	29,692
Njombe	60,705	1,734	0	9,828	16,766	8,094	5,203	8,094	10,985
Katavi	19,017	272	0	1,630	3,803	3,803	1,087	4,075	4,347
Simiyu	74,931	781	781	3,122	14,050	24,197	4,683	10,927	16,391
Geita	13,006	0	188	752	2,853	1,692	940	1,692	4,889
Songwe	75,529	1,079	0	9,711	22,659	10,790	11,869	6,474	12,948

Table 7.3: Distribution of Households by Region and Value of Food Consumed in the Household in last 7 Days from own grown production

Region Name:	TOTAL								
	Total	<22,000	22,000 - 49,999	50,000 - 79,999	80,000 - 109,999	110,000 - 129,999	130,000 - 159,999	160,000 - 179,999	180,000+
Total	11,454,818	9,556,968	1,278,795	373,885	141,226	29,705	33,422	39,586	1,232
Dodoma	590,106	528,204	48,362	12,036	0	0	1,504	0	0
Arusha	469,204	454,816	8,376	4,815	1,197	0	0	0	0
Kilimanjaro	499,128	404,605	49,897	35,725	7,629	0	1,271	0	0
Tanga	572,083	525,232	36,657	4,369	1,456	0	1,456	2,913	0
Morogoro	655,833	571,791	60,525	11,698	8,477	0	3,342	0	0
Pwani	333,150	322,959	7,643	2,548	0	0	0	0	0
Dar es salaam	1,417,251	1,307,935	28,981	36,468	29,333	7,311	0	7,223	0
Lindi	293,907	188,419	91,194	11,296	2,248	749	0	0	0
Mtwara	448,463	418,678	24,067	4,574	0	1,143	0	0	0
Ruvuma	392,519	336,336	22,116	14,027	6,012	1,002	5,010	8,016	0
Iringa	289,324	238,185	46,716	4,424	0	0	0	0	0
Mbeya	412,915	298,716	48,558	44,549	15,826	3,160	1,053	1,053	0
Singida	334,525	257,400	36,885	27,424	10,253	0	0	2,563	0
Tabora	483,265	364,416	58,253	28,480	4,927	14,841	6,189	4,927	1,232
Rukwa	259,632	232,315	18,642	8,675	0	0	0	0	0
Kigoma	483,363	358,290	107,785	12,357	1,233	1,233	1,233	1,233	0
Shinyanga	339,428	263,022	67,721	7,818	0	0	0	866	0
Kagera	678,574	532,761	102,416	15,620	19,124	0	5,193	3,462	0
Mwanza	630,094	497,904	112,824	11,329	3,215	0	1,607	3,215	0
Mara	403,837	333,506	48,575	11,404	5,163	0	3,108	2,080	0
Manyara	354,642	262,954	70,831	13,610	6,341	0	0	906	0
Njombe	221,565	189,215	22,136	2,836	4,557	0	1,693	1,129	0
Katavi	103,890	91,650	9,839	1,339	796	265	0	0	0
Simiyu	298,960	239,153	35,981	16,132	6,932	0	762	0	0
Geita	76,553	55,667	18,857	1,840	188	0	0	0	0
Songwe	412,608	282,838	94,957	28,492	6,320	0	0	0	0

Table 7.3A: Distribution of Households by Region and Value of Food Consumed in the Household in last 7 Days from Own Grown Production-Rural

Region Name:	RURAL								
	Total	<22,000	22,000 - 49,999	50,000 - 79,999	80,000 - 109,999	110,000 - 129,999	130,000 - 159,999	160,000 - 179,999	180,000+
Total	7,701,218	6,105,967	1,140,271	287,257	94,136	18,877	25,218	28,259	1,232
Dodoma	499,290	438,892	46,858	12,036	0	0	1,504	0	0
Arusha	306,509	298,134	4,786	2,393	1,197	0	0	0	0
Kilimanjaro	383,952	294,546	49,897	31,880	6,357	0	1,271	0	0
Tanga	439,666	397,220	32,252	4,369	1,456	0	1,456	2,913	0
Morogoro	453,798	394,984	45,404	6,684	5,054	0	1,671	0	0
Pwani	216,087	207,595	5,944	2,548	0	0	0	0	0
Dar es salaam	0	0	0	0	0	0	0	0	0
Lindi	237,279	149,138	77,612	7,531	2,248	749	0	0	0
Mtwara	337,833	314,937	18,322	3,430	0	1,143	0	0	0
Ruvuma	286,460	245,307	21,114	7,014	4,008	1,002	2,004	6,012	0
Iringa	211,231	170,502	39,254	1,475	0	0	0	0	0
Mbeya	254,064	164,195	39,052	37,099	9,506	2,107	1,053	1,053	0
Singida	295,744	218,620	36,885	27,424	10,253	0	0	2,563	0
Tabora	408,880	296,220	56,991	27,249	4,927	12,378	4,957	4,927	1,232
Rukwa	199,587	174,951	15,960	8,675	0	0	0	0	0
Kigoma	391,543	272,664	106,552	8,629	1,233	1,233	1,233	0	0
Shinyanga	260,910	192,323	62,502	6,085	0	0	0	0	0
Kagera	600,054	459,433	100,685	13,889	19,124	0	3,462	3,462	0
Mwanza	387,434	269,749	101,534	9,722	1,607	0	1,607	3,215	0
Mara	325,812	259,617	45,467	10,377	5,163	0	3,108	2,080	0
Manyara	299,895	212,737	66,302	13,610	6,341	0	0	906	0
Njombe	161,848	133,476	19,865	2,271	3,978	0	1,129	1,129	0
Katavi	75,873	65,769	8,772	802	265	265	0	0	0
Simiyu	287,419	229,155	35,219	16,132	6,152	0	762	0	0
Geita	62,706	43,486	17,563	1,656	0	0	0	0	0
Songwe	317,343	202,321	85,477	24,279	5,267	0	0	0	0

Table 7.3B: Distribution of Households by Region and Value of Food Consumed in the Household in last 7 Days from Own Grown Production-URBAN

Region Name:	URBAN								
	Total	<22,000	22,000 - 49,999	50,000 - 79,999	80,000 - 109,999	110,000 - 129,999	130,000 - 159,999	160,000 - 179,999	180,000+
Total	3,753,600	3,451,000	138,524	86,628	47,090	10,828	8,204	11,326	0
Dodoma	90,817	89,312	1,504	0	0	0	0	0	0
Arusha	162,694	156,682	3,590	2,422	0	0	0	0	0
Kilimanjaro	115,176	110,059	0	3,845	1,271	0	0	0	0
Tanga	132,417	128,012	4,404	0	0	0	0	0	0
Morogoro	202,036	176,806	15,121	5,013	3,423	0	1,671	0	0
Pwani	117,063	115,365	1,698	0	0	0	0	0	0
Dar es salaam	1,417,251	1,307,935	28,981	36,468	29,333	7,311	0	7,223	0
Lindi	56,628	39,281	13,581	3,765	0	0	0	0	0
Mtwara	110,630	103,742	5,745	1,143	0	0	0	0	0
Ruvuma	106,059	91,029	1,002	7,014	2,004	0	3,006	2,004	0
Iringa	78,094	67,682	7,462	2,949	0	0	0	0	0
Mbeya	158,851	134,521	9,506	7,450	6,320	1,053	0	0	0
Singida	38,780	38,780	0	0	0	0	0	0	0
Tabora	74,385	68,197	1,262	1,232	0	2,464	1,232	0	0
Rukwa	60,045	57,364	2,682	0	0	0	0	0	0
Kigoma	91,820	85,626	1,233	3,728	0	0	0	1,233	0
Shinyanga	78,517	70,699	5,219	1,733	0	0	0	866	0
Kagera	78,520	73,328	1,731	1,731	0	0	1,731	0	0
Mwanza	242,659	228,155	11,290	1,607	1,607	0	0	0	0
Mara	78,024	73,889	3,108	1,028	0	0	0	0	0
Manyara	54,747	50,217	4,529	0	0	0	0	0	0
Njombe	59,717	55,739	2,271	564	578	0	564	0	0
Katawi	28,016	25,882	1,067	537	530	0	0	0	0
Simiyu	11,541	9,999	762	0	781	0	0	0	0
Geita	13,847	12,182	1,294	184	188	0	0	0	0
Songwe	95,264	80,517	9,480	4,213	1,053	0	0	0	0

Table 7.3C: Distribution of Households by Region and Value of Food Consumed in the Household in last 7 Days from Own Grown Production-Male Headed

Region Name:	Male Headed								
	Total	<22,000	22,000 - 49,999	50,000 - 79,999	80,000 - 109,999	110,000 - 129,999	130,000 - 159,999	160,000 - 179,999	180,000+
Total	8,738,690	7,169,798	1,064,074	303,592	106,871	23,482	31,108	38,533	1,232
Dodoma	448,330	395,674	39,116	12,036	0	0	1,504	0	0
Arusha	361,349	348,188	8,376	3,590	1,197	0	0	0	0
Kilimanjaro	362,375	286,086	36,873	30,516	7,629	0	1,271	0	0
Tanga	399,039	362,630	26,214	4,369	1,456	0	1,456	2,913	0
Morogoro	482,948	419,446	45,120	11,698	3,342	0	3,342	0	0
Pwani	250,514	240,324	7,643	2,548	0	0	0	0	0
Dar es salaam	1,051,000	982,378	25,282	21,670	10,835	3,612	0	7,223	0
Lindi	225,584	143,894	69,699	8,993	2,248	749	0	0	0
Mtwara	341,882	314,440	21,725	4,574	0	1,143	0	0	0
Ruvuma	318,624	265,520	19,037	14,027	6,012	1,002	5,010	8,016	0
Iringa	213,806	173,994	35,389	4,424	0	0	0	0	0
Mbeya	324,438	228,582	44,242	31,601	14,747	3,160	1,053	1,053	0
Singida	279,388	211,891	30,758	23,923	10,253	0	0	2,563	0
Tabora	362,140	268,526	43,112	22,172	4,927	12,318	4,927	4,927	1,232
Rukwa	204,000	183,467	14,571	5,961	0	0	0	0	0
Kigoma	373,510	272,428	85,057	11,094	1,233	1,233	1,233	1,233	0
Shinyanga	273,760	204,454	61,509	6,931	0	0	0	866	0
Kagera	529,646	401,562	90,005	13,847	15,578	0	5,193	3,462	0
Mwanza	493,443	377,717	99,653	8,037	3,215	0	1,607	3,215	0
Mara	275,413	224,030	36,996	7,194	4,111	0	2,055	1,028	0
Manyara	297,114	213,777	63,409	12,682	6,341	0	0	906	0
Njombe	160,860	136,025	16,933	2,258	2,822	0	1,693	1,129	0
Katavi	84,872	74,263	8,752	796	796	265	0	0	0
Simiyu	224,029	179,833	28,956	10,668	3,810	0	762	0	0
Geita	63,547	44,730	17,165	1,652	0	0	0	0	0
Songwe	337,079	215,941	88,483	26,334	6,320	0	0	0	0

Table 7.3D: Distribution of Households by Region and Value of Food Consumed in the Household in last 7 Days from Own Grown Production_FemaleHeaded

Region Name:	Female Headed								
	Total	<22,000	22,000 - 49,999	50,000 - 79,999	80,000 - 109,999	110,000 - 129,999	130,000 - 159,999	160,000 - 179,999	180,000+
Total	2,716,128	2,387,170	214,720	70,293	34,355	6,223	2,314	1,053	0
Dodoma	141,776	132,530	9,246	0	0	0	0	0	0
Arusha	107,854	106,629	0	1,226	0	0	0	0	0
Kilimanjaro	136,753	118,519	13,024	5,210	0	0	0	0	0
Tanga	173,044	162,602	10,442	0	0	0	0	0	0
Morogoro	172,885	152,344	15,406	0	5,135	0	0	0	0
Pwani	82,636	82,636	0	0	0	0	0	0	0
Dar es salaam	366,251	325,557	3,700	14,798	18,498	3,700	0	0	0
Lindi	68,323	44,525	21,495	2,303	0	0	0	0	0
Mtwara	106,581	104,239	2,342	0	0	0	0	0	0
Ruvuma	73,895	70,816	3,079	0	0	0	0	0	0
Iringa	75,519	64,191	11,328	0	0	0	0	0	0
Mbeya	88,477	70,134	4,316	12,948	1,079	0	0	0	0
Singida	55,136	45,509	6,126	3,501	0	0	0	0	0
Tabora	121,125	95,891	15,141	6,309	0	2,523	1,262	0	0
Rukwa	55,632	48,848	4,071	2,714	0	0	0	0	0
Kigoma	109,853	85,862	22,728	1,263	0	0	0	0	0
Shinyanga	65,667	58,568	6,212	887	0	0	0	0	0
Kagera	148,929	131,199	12,411	1,773	3,546	0	0	0	0
Mwanza	136,650	120,187	13,171	3,293	0	0	0	0	0
Mara	128,423	109,476	11,579	4,211	1,053	0	1,053	1,053	0
Manyara	57,528	49,177	7,423	928	0	0	0	0	0
Njombe	60,705	53,189	5,203	578	1,734	0	0	0	0
Katavi	19,017	17,387	1,087	543	0	0	0	0	0
Simiyu	74,931	59,320	7,025	5,464	3,122	0	0	0	0
Geita	13,006	10,937	1,692	188	188	0	0	0	0
Songwe	75,529	66,897	6,474	2,158	0	0	0	0	0

Table 7.4: Distribution of Households by Region and Value of Food Consumed in the Household in last 7 Days from Gift/Other Way

Region Name:	TOTAL								
	Total	<1,000	1,000 - 1999	2,000 - 4999	5,000 - 9,999	10,000 - 14,999	15,000 - 19,999	20,000 - 29,999	30,000+
Total	11,454,818	1,971,129	8,978	2,469,383	6,509,650	137,711	56,677	107,389	193,902
Dodoma	590,106	15,045	0	100,026	449,313	6,018	4,513	7,595	7,595
Arusha	469,204	49,290	2,393	122,656	287,569	3,648	1,197	2,451	0
Kilimanjaro	499,128	15,320	0	136,792	313,587	2,543	1,271	7,722	21,894
Tanga	572,083	96,686	0	190,600	244,874	7,353	1,492	8,915	22,164
Morogoro	655,833	28,531	0	153,005	457,465	8,437	1,712	1,671	5,013
Pwani	333,150	57,870	0	115,344	146,142	1,719	4,329	5,157	2,589
Dar es salaam	1,417,251	585,960	0	203,396	536,725	10,923	14,622	7,311	58,314
Lindi	293,907	7,531	0	55,787	196,572	3,034	3,784	12,832	14,367
Mtwara	448,463	10,319	0	159,769	265,631	4,601	0	5,828	2,315
Ruvuma	392,519	0	0	108,772	272,701	9,018	1,026	1,002	0
Iringa	289,324	0	737	71,962	212,147	3,003	737	737	0
Mbeya	412,915	10,559	2,107	97,320	275,260	7,450	3,211	5,318	11,690
Singida	334,525	70,331	0	75,520	183,527	2,563	854	0	1,730
Tabora	483,265	2,464	2,464	114,974	324,730	18,596	1,262	12,527	6,249
Rukwa	259,632	7,302	0	57,849	184,498	2,665	662	2,003	4,652
Kigoma	483,363	173,568	0	79,253	201,890	4,991	6,253	6,223	11,184
Shinyanga	339,428	70,468	0	61,783	201,916	866	0	1,754	2,641
Kagera	678,574	161,897	0	178,995	327,255	6,923	0	1,731	1,773
Mwanza	630,094	303,659	0	71,073	232,703	9,722	1,646	4,822	6,468
Mara	403,837	150,235	0	39,401	193,397	11,429	3,133	2,080	4,161
Manyara	354,642	48,186	906	70,058	232,753	1,834	0	0	906
Njombe	221,565	60,722	0	30,106	123,330	2,822	1,143	1,143	2,299
Katawi	103,890	265	0	31,419	70,323	809	272	802	0
Simiyu	298,960	3,085	0	50,737	244,358	0	0	781	0
Geita	76,553	41,839	372	8,336	24,149	372	372	560	555
Songwe	412,608	0	0	84,449	306,835	6,371	3,186	6,423	5,344

Table 7.4B: Distribution of Households by Region and Value of Food Consumed in the Household in last 7 Days from Gift/Other Way-Urban

Region Name:	URBAN								
	Total	<1,000	1,000 - 1999	2,000 - 4999	5,000 - 9,999	10,000 - 14,999	15,000 - 19,999	20,000 - 29,999	30,000+
Total	3,753,600	960,874	1,237	878,186	1,729,373	33,305	24,517	30,596	95,513
Dodoma	90,817	1,504	0	27,336	54,417	1,504	1,504	1,504	3,046
Arusha	162,694	28,920	0	39,805	93,969	0	0	0	0
Kilimanjaro	115,176	5,086	0	34,485	73,032	0	0	0	2,574
Tanga	132,417	25,006	0	45,643	51,397	1,492	0	1,492	7,388
Morogoro	202,036	16,792	0	52,170	129,691	3,383	0	0	0
Pwani	117,063	28,914	0	39,394	44,448	0	1,719	870	1,719
Dar es salaam	1,417,251	585,960	0	203,396	536,725	10,923	14,622	7,311	58,314
Lindi	56,628	0	0	15,884	35,406	0	768	1,517	3,052
Mtwara	110,630	1,143	0	42,668	63,333	0	0	3,486	0
Ruvuma	106,059	0	0	50,512	51,539	3,006	0	1,002	0
Iringa	78,094	0	0	26,739	49,107	1,510	737	0	0
Mbeya	158,851	8,453	1,053	58,166	81,622	0	0	1,053	8,504
Singida	38,780	9,481	0	12,941	16,358	0	0	0	0
Tabora	74,385	2,464	0	24,755	40,888	0	0	2,493	3,785
Rukwa	60,045	2,003	0	17,996	38,722	662	0	662	0
Kigoma	91,820	26,007	0	26,097	32,260	1,233	2,495	0	3,728
Shinyanga	78,517	17,411	0	20,052	38,435	866	0	1,754	0
Kagera	78,520	17,393	0	17,435	41,962	0	0	1,731	0
Mwanza	242,659	127,876	0	37,203	67,898	3,254	0	3,215	3,215
Mara	78,024	29,049	0	6,291	38,523	2,080	1,053	1,028	0
Manyara	54,747	6,363	0	17,365	31,019	0	0	0	0
Njombe	59,717	15,886	0	17,070	25,068	564	564	564	0
Katavi	28,016	0	0	9,871	17,071	537	0	537	0
Simiyu	11,541	0	0	4,646	6,895	0	0	0	0
Geita	13,847	5,162	184	3,881	3,873	184	0	376	188
Songwe	95,264	0	0	26,386	65,719	2,107	1,053	0	0

Table 7.4C: Distribution of Households by Region and Value of Food Consumed in the Household in last 7 Days from Gift/Other Way_ Maleheaded

Region Name:	Male Headed								
	Total	<1,000	1,000 - 1999	2,000 - 4999	5,000 - 9,999	10,000 - 14,999	15,000 - 19,999	20,000 - 29,999	30,000+
Total	8,738,690	1,484,208	8,790	1,920,160	5,040,634	95,450	26,957	53,201	109,289
Dodoma	448,330	15,045	0	69,205	344,522	6,018	4,513	4,513	4,513
Arusha	361,349	39,485	2,393	96,918	220,160	1,197	1,197	0	0
Kilimanjaro	362,375	12,715	0	105,534	226,326	2,543	1,271	3,814	10,172
Tanga	399,039	72,817	0	136,897	174,762	4,369	0	1,456	8,738
Morogoro	482,948	23,395	0	113,635	334,220	5,013	0	1,671	5,013
Pwani	250,514	52,650	0	85,769	106,999	849	849	2,548	849
Dar es salaam	1,051,000	397,285	0	155,302	444,237	7,223	7,223	3,612	36,117
Lindi	225,584	5,996	0	41,969	155,886	1,499	2,248	8,993	8,993
Mtwara	341,882	9,147	0	124,632	202,385	3,430	0	1,143	1,143
Ruvuma	318,624	0	0	85,167	223,437	9,018	0	1,002	0
Iringa	213,806	0	737	53,083	157,774	737	737	737	0
Mbeya	324,438	9,480	2,107	80,056	216,994	4,213	1,053	3,160	7,374
Singida	279,388	58,954	0	61,517	154,646	2,563	854	0	854
Tabora	362,140	2,464	2,464	97,310	240,195	13,549	0	3,695	2,464
Rukwa	204,000	6,623	0	48,351	141,078	1,987	662	1,325	3,974
Kigoma	373,510	131,900	0	64,101	161,484	2,465	2,465	3,698	7,396
Shinyanga	273,760	58,044	0	50,247	162,870	866	0	866	866
Kagera	529,646	122,892	0	148,855	249,245	6,923	0	1,731	0
Mwanza	493,443	241,096	0	56,256	180,018	6,429	0	4,822	4,822
Mara	275,413	98,655	0	24,664	141,817	6,166	1,028	1,028	2,055
Manyara	297,114	40,763	906	57,068	196,566	906	0	0	906
Njombe	160,860	46,847	0	22,012	87,485	2,822	564	564	564
Katawi	84,872	265	0	26,257	57,554	265	0	530	0
Simiyu	224,029	1,524	0	32,004	190,501	0	0	0	0
Geita	63,547	36,166	184	6,456	19,824	184	184	184	367
Songwe	337,079	0	0	76,896	249,649	4,213	2,107	2,107	2,107

Table 7.4D: Distribution of Households by Region and Value of Food Consumed in the Household in last 7 Days from Gift/Other Way_ Femaleheaded

Region Name:	Female Headed								
	Total	<1,000	1,000 - 1999	2,000 - 4999	5,000 - 9,999	10,000 - 14,999	15,000 - 19,999	20,000 - 29,999	30,000+
Total	2,716,128	486,921	188	549,222	1,469,015	42,261	29,720	54,188	84,613
Dodoma	141,776	0	0	30,821	104,791	0	0	3,082	3,082
Arusha	107,854	9,805	0	25,738	67,409	2,451	0	2,451	0
Kilimanjaro	136,753	2,605	0	31,258	87,262	0	0	3,907	11,722
Tanga	173,044	23,868	0	53,703	70,113	2,984	1,492	7,459	13,426
Morogoro	172,885	5,135	0	39,370	123,245	3,423	1,712	0	0
Pwani	82,636	5,219	0	29,575	39,143	870	3,479	2,610	1,740
Dar es salaam	366,251	188,675	0	48,094	92,488	3,700	7,399	3,700	22,197
Lindi	68,323	1,535	0	13,818	40,687	1,535	1,535	3,838	5,374
Mtwara	106,581	1,171	0	35,137	63,246	1,171	0	4,685	1,171
Ruvuma	73,895	0	0	23,605	49,264	0	1,026	0	0
Iringa	75,519	0	0	18,880	54,374	2,266	0	0	0
Mbeya	88,477	1,079	0	17,264	58,265	3,237	2,158	2,158	4,316
Singida	55,136	11,377	0	14,003	28,881	0	0	0	875
Tabora	121,125	0	0	17,664	84,535	5,047	1,262	8,832	3,785
Rukwa	55,632	678	0	9,498	43,420	678	0	678	678
Kigoma	109,853	41,668	0	15,152	40,406	2,525	3,788	2,525	3,788
Shinyanga	65,667	12,424	0	11,536	39,045	0	0	887	1,775
Kagera	148,929	39,005	0	30,140	78,010	0	0	0	1,773
Mwanza	136,650	62,563	0	14,818	52,685	3,293	1,646	0	1,646
Mara	128,423	51,580	0	14,737	51,580	5,263	2,105	1,053	2,105
Manyara	57,528	7,423	0	12,990	36,187	928	0	0	0
Njombe	60,705	13,875	0	8,094	35,845	0	578	578	1,734
Katavi	19,017	0	0	5,162	12,769	543	272	272	0
Simiyu	74,931	1,561	0	18,733	53,857	0	0	781	0
Geita	13,006	5,673	188	1,880	4,324	188	188	376	188
Songwe	75,529	0	0	7,553	57,186	2,158	1,079	4,316	3,237

Table 7.5: Distribution of Households by Non Food Items and Amount of Money spent in last 12 Months on Non-Food Items House Rent

Region Name:	House Rent							
	Total	<10,000	10,000 - 14,999	15,000 - 19,999	20,000 - 29,999	30,000 - 49,999	50,000 - 69,999	70,000+
Total	11,454,818	9,923,415	72,640	35,619	62,722	121,261	184,809	1,054,353
Dodoma	590,106	564,201	0	0	0	6,091	6,091	13,723
Arusha	469,204	406,490	1,197	1,226	3,619	9,659	4,815	42,198
Kilimanjaro	499,128	446,564	1,271	1,302	2,574	3,845	3,845	39,725
Tanga	572,083	507,225	1,492	2,984	7,317	8,915	4,369	39,782
Morogoro	655,833	576,723	8,355	3,342	0	5,013	13,409	48,990
Pwani	333,150	286,134	1,719	870	1,719	3,397	7,725	31,586
Dar es salaam	1,417,251	817,547	0	0	14,710	43,428	54,702	486,864
Lindi	293,907	287,162	0	0	749	749	2,248	2,998
Mtwara	448,463	417,285	2,315	1,143	0	1,171	5,745	20,804
Ruvuma	392,519	382,475	2,004	2,004	0	1,002	0	5,034
Iringa	289,324	257,407	2,212	0	1,492	2,212	5,952	20,049
Mbeya	412,915	346,092	1,053	1,079	4,290	4,213	5,292	50,895
Singida	334,525	325,064	3,438	0	0	1,709	1,709	2,605
Tabora	483,265	439,914	7,451	3,695	2,464	2,464	6,189	21,090
Rukwa	259,632	244,948	2,003	0	2,003	662	1,341	8,675
Kigoma	483,363	434,928	4,991	1,263	6,164	4,991	8,689	22,339
Shinyanga	339,428	308,029	2,620	3,486	866	3,486	7,860	13,079
Kagera	678,574	593,088	8,739	3,504	1,731	1,773	19,082	50,658
Mwanza	630,094	557,374	8,076	0	4,900	6,429	8,115	45,200
Mara	403,837	365,313	3,108	4,161	2,080	2,080	5,238	21,856
Manyara	354,642	331,776	928	1,856	0	906	0	19,177
Njombe	221,565	204,578	564	1,129	1,143	564	1,693	11,894
Katavi	103,890	87,659	1,869	1,061	1,067	537	3,985	7,711
Simiyu	298,960	286,638	3,048	781	1,543	1,561	2,286	3,104
Geita	76,553	68,951	2,055	734	184	188	188	4,253
Songwe	412,608	379,851	2,132	0	2,107	4,213	4,239	20,065

Table 7.5: Distribution of Households by Non Food Items and Amount of Money spent in last 12 months on Non-Food Items Land

Region Name:	Amount of Money spent in last 12 months on non-food items Land/building property tax							
	Total	<10,000	10,000 - 14,999	15,000 - 19,999	20,000 - 29,999	30,000 - 49,999	50,000 - 69,999	70,000+
Total	11,454,818	11,007,464	57,247	100,282	87,107	62,060	62,493	78,165
Dodoma	590,106	564,421	0	9,027	1,504	4,513	0	10,641
Arusha	469,204	429,224	0	3,648	8,492	6,041	15,700	6,099
Kilimanjaro	499,128	494,011	0	2,574	0	0	1,271	1,271
Tanga	572,083	554,430	0	8,773	5,896	0	1,492	1,492
Morogoro	655,833	632,275	6,725	6,684	0	3,383	0	6,766
Pwani	333,150	324,616	849	849	0	1,698	870	4,267
Dar es salaam	1,417,251	1,275,605	32,505	54,527	22,021	18,146	0	14,447
Lindi	293,907	293,140	0	0	0	768	0	0
Mtwara	448,463	439,232	0	0	6,944	0	0	2,287
Ruvuma	392,519	384,479	3,006	1,002	1,026	1,002	1,002	1,002
Iringa	289,324	282,671	1,492	1,475	2,949	737	0	0
Mbeya	412,915	382,265	1,079	1,079	0	0	21,119	7,374
Singida	334,525	327,648	3,438	1,730	0	854	854	0
Tabora	483,265	482,033	1,232	0	0	0	0	0
Rukwa	259,632	259,632	0	0	0	0	0	0
Kigoma	483,363	462,257	1,233	1,233	1,233	4,961	8,749	3,698
Shinyanga	339,428	335,054	866	2,641	866	0	0	0
Kagera	678,574	675,071	0	0	1,731	0	0	1,773
Mwanza	630,094	578,269	0	0	27,520	6,468	4,861	12,976
Mara	403,837	390,277	1,028	3,108	3,158	4,161	2,105	0
Manyara	354,642	346,423	0	906	2,740	1,834	1,812	928
Njombe	221,565	211,323	2,285	578	578	6,236	0	564
Katavi	103,890	100,144	272	265	265	1,074	1,604	265
Simiyu	298,960	298,960	0	0	0	0	0	0
Geita	76,553	75,635	184	184	184	184	0	184
Songwe	412,608	408,369	1,053	0	0	0	1,053	2,132

Table 7.5: Distribution of Households by Non Food Items and Amount of Money spent in last 12 months on Non-Food Items Public/Private transport.

Region Name:	Amount of Money spent in last 12 months on non-food items Public/Private transport							
	Total	<10,000	10,000 - 99,999	100,000 - 399,999	400,000 - 899,999	900,000 - 1,499,999	1,500,000 - 1,999,999	2,000,000+
Total	11,454,818	2,193,578	414,906	5,631,562	2,082,985	696,711	302,643	132,433
Dodoma	590,106	189,411	25,759	290,137	59,003	13,650	7,595	4,550
Arusha	469,204	83,055	18,064	225,848	77,247	40,973	16,809	7,208
Kilimanjaro	499,128	79,513	21,832	300,532	61,495	28,096	5,117	2,543
Tanga	572,083	104,215	55,589	293,146	79,422	27,989	11,722	0
Morogoro	655,833	114,244	38,760	310,901	92,601	65,701	25,270	8,355
Pwani	333,150	52,132	11,951	159,688	70,068	25,621	11,143	2,548
Dar es salaam	1,417,251	0	0	316,412	795,701	174,239	80,160	50,739
Lindi	293,907	101,886	4,533	133,894	40,031	6,781	6,032	749
Mtwara	448,463	118,384	21,808	202,270	62,217	27,664	12,661	3,458
Ruvuma	392,519	70,357	38,269	179,838	70,600	24,339	6,109	3,006
Iringa	289,324	12,641	10,393	203,787	33,428	20,139	8,200	737
Mbeya	412,915	112,426	5,267	163,862	96,420	21,170	7,450	6,320
Singida	334,525	71,248	11,170	221,975	18,129	8,544	2,605	854
Tabora	483,265	138,827	19,858	252,659	47,137	18,536	2,493	3,755
Rukwa	259,632	51,209	8,626	141,076	29,336	17,398	7,318	4,669
Kigoma	483,363	209,316	8,749	180,904	49,668	17,318	13,680	3,728
Shinyanga	339,428	65,312	14,791	190,358	50,626	14,854	2,620	866
Kagera	678,574	94,225	22,712	490,083	34,954	22,628	6,966	7,008
Mwanza	630,094	68,132	12,937	330,592	127,993	51,707	30,617	8,115
Mara	403,837	56,946	7,319	264,681	43,687	15,615	11,454	4,136
Manyara	354,642	137,156	7,269	164,595	29,163	11,886	3,667	906
Njombe	221,565	45,015	8,480	120,302	25,619	13,050	6,828	2,271
Katavi	103,890	13,352	6,644	58,284	15,486	6,391	2,406	1,326
Simiyu	298,960	41,426	24,495	222,278	8,456	1,543	762	0
Geita	76,553	21,257	2,207	40,168	8,309	1,840	2,400	372
Songwe	412,608	141,895	7,425	173,291	56,187	19,038	10,559	4,213

Table 7.5: Distribution of Households by Non Food Items and Amount of Money Spent in last 12 Months on Non Food Items Repair Main Dwelling or Other Appliances

Region Name:	Amount of Money spent in last 12 months on non-food items_Repair main dwelling or other appliances							
	Total	<10,000	10,000 - 14,999	15,000 - 19,999	20,000 - 29,999	30,000 - 49,999	50,000 - 69,999	70,000+
Total	11,454,818	9,281,021	10,857	76,349	175,768	183,958	360,444	1,366,421
Dodoma	590,106	496,573	0	1,504	0	4,550	21,099	66,379
Arusha	469,204	341,820	0	1,197	7,237	2,422	22,938	93,590
Kilimanjaro	499,128	449,293	0	1,271	3,845	2,543	6,419	35,756
Tanga	572,083	403,931	2,913	1,456	27,741	23,408	23,372	89,262
Morogoro	655,833	548,476	0	13,491	8,396	3,342	21,806	60,322
Pwani	333,150	267,452	0	2,568	5,986	11,060	8,492	37,592
Dar es salaam	1,417,251	1,279,393	0	0	0	0	25,370	112,489
Lindi	293,907	245,815	0	3,747	8,244	2,998	13,508	19,595
Mtwara	448,463	414,077	0	0	0	6,861	3,458	24,067
Ruvuma	392,519	252,832	1,002	2,004	6,036	9,066	31,231	90,347
Iringa	289,324	233,024	0	1,492	2,212	2,949	8,110	41,538
Mbeya	412,915	363,279	1,053	1,053	0	3,186	3,160	41,184
Singida	334,525	240,291	0	1,709	11,128	5,981	8,565	66,851
Tabora	483,265	397,824	0	3,695	9,944	6,219	9,914	55,669
Rukwa	259,632	229,084	0	6,639	2,665	2,665	7,286	11,292
Kigoma	483,363	379,156	0	13,650	9,892	9,952	22,339	48,375
Shinyanga	339,428	275,193	0	866	7,818	9,551	14,770	31,230
Kagera	678,574	513,553	0	8,654	12,116	22,543	31,282	90,426
Mwanza	630,094	510,645	1,607	3,215	8,037	12,898	17,798	75,895
Mara	403,837	354,084	0	1,028	5,238	7,219	3,083	33,185
Manyara	354,642	276,498	0	0	4,529	1,834	10,008	61,773
Njombe	221,565	173,370	0	0	1,129	2,271	1,693	43,102
Katavi	103,890	78,350	265	1,074	1,598	2,659	3,461	16,483
Simiyu	298,960	153,438	3,829	4,609	27,506	11,541	18,381	79,656
Geita	76,553	57,480	188	372	1,285	1,468	3,891	11,869
Songwe	412,608	346,092	0	1,053	3,186	14,773	19,012	28,492

Table 7.5: Distribution of Households by Non Food Items and Amount of Money spent in last 12 Months on Non Food Items_School fees.

Region Name:	Amount of Money spent in last 12 Monthson non food items_School fees								
	Total	<10,000	10,000 - 299,999	300,000 - 799,999	800,000 - 1,299,999	1,300,000 - 1,699,999	1,700,000 - 1,999,999	2,000,000+	
Total	11,454,818	10,459,982	192,908	423,063	126,258	52,090	95,863	104,653	
Dodoma	590,106	561,412	4,587	13,577	6,018	1,504	0	3,009	
Arusha	469,204	392,073	4,902	31,255	9,630	7,296	10,798	13,249	
Kilimanjaro	499,128	463,403	5,117	22,980	1,271	2,543	1,271	2,543	
Tanga	572,083	545,586	7,353	11,828	2,913	0	1,456	2,948	
Morogoro	655,833	613,893	10,108	21,806	5,013	3,342	1,671	0	
Pwani	333,150	314,426	4,287	10,190	849	0	0	3,397	
Dar es salaam	1,417,251	1,031,954	79,984	156,093	40,080	10,923	50,827	47,391	
Lindi	293,907	290,105	768	2,285	749	0	0	0	
Mtwara	448,463	424,340	9,231	10,319	0	3,430	1,143	0	
Ruvuma	392,519	388,487	1,002	3,030	0	0	0	0	
Iringa	289,324	260,410	4,441	11,868	6,671	2,967	1,492	1,475	
Mbeya	412,915	357,884	11,664	22,198	9,506	3,186	3,186	5,292	
Singida	334,525	322,459	875	5,189	2,584	854	2,563	0	
Tabora	483,265	459,682	8,682	11,206	1,232	0	2,464	0	
Rukwa	259,632	246,321	2,003	7,318	1,987	1,341	0	662	
Kigoma	483,363	449,930	6,223	14,882	4,931	0	2,465	4,931	
Shinyanga	339,428	321,996	5,219	7,860	866	1,754	1,733	0	
Kagera	678,574	655,863	3,546	12,242	3,462	0	1,731	1,731	
Mwanza	630,094	567,213	6,429	16,190	16,073	4,822	6,429	12,937	
Mara	403,837	383,058	4,161	8,296	2,080	4,161	1,028	1,053	
Manyara	354,642	337,321	1,812	6,407	4,551	0	1,834	2,718	
Njombe	221,565	205,638	5,713	4,515	2,850	1,143	1,707	0	
Katavi	103,890	94,814	2,135	4,535	809	530	802	265	
Simiyu	298,960	298,180	0	781	0	0	0	0	
Geita	76,553	74,699	560	922	0	188	184	0	
Songwe	412,608	398,837	2,107	5,292	2,132	2,107	1,079	1,053	

Table 7.5: Distribution of Households by Non Food Items and Amount of Money spent in last 12 Monthson non food items_Remittance Sent to Family Members Or Others

Region Name:	Amount of Money spent in last 12 Monthson non food items_Remittance sent to family members or others							
	Total	<10,000	10,000 - 14,999	15,000 - 19,999	20,000 - 29,999	30,000 - 49,999	50,000 - 69,999	70,000+
Total	11,454,818	7,755,450	19,023	266,978	496,560	538,336	903,695	1,474,777
Dodoma	590,106	393,648	0	7,559	18,163	27,300	57,279	86,157
Arusha	469,204	221,440	0	4,786	24,105	24,018	58,862	135,992
Kilimanjaro	499,128	409,629	2,574	5,117	10,234	10,203	21,739	39,633
Tanga	572,083	409,508	0	4,369	29,410	27,848	33,602	67,346
Morogoro	655,833	449,353	1,671	33,625	35,418	15,040	36,886	83,839
Pwani	333,150	180,565	0	5,137	10,232	19,635	29,017	88,565
Dar es salaam	1,417,251	981,741	0	0	54,527	39,904	156,005	185,074
Lindi	293,907	256,325	749	5,246	2,998	5,283	14,276	9,030
Mtwara	448,463	350,883	1,143	13,804	19,521	9,203	25,266	28,641
Ruvuma	392,519	342,226	0	0	4,008	3,055	25,195	18,035
Iringa	289,324	174,475	0	2,967	7,391	15,608	34,831	54,053
Mbeya	412,915	296,763	1,053	6,371	10,559	21,093	26,360	50,716
Singida	334,525	183,818	854	29,966	23,131	24,006	25,653	47,096
Tabora	483,265	295,467	1,232	23,464	32,176	39,566	19,738	71,622
Rukwa	259,632	228,438	0	7,318	1,987	2,649	8,610	10,630
Kigoma	483,363	333,636	0	8,659	23,511	33,373	43,444	40,739
Shinyanga	339,428	239,463	0	8,663	18,235	22,609	22,651	27,807
Kagera	678,574	468,382	1,731	15,662	39,978	31,198	48,675	72,949
Mwanza	630,094	338,272	4,822	24,110	46,807	43,632	72,563	99,888
Mara	403,837	314,958	0	5,163	12,432	15,490	22,783	33,010
Manyara	354,642	200,077	0	8,219	17,299	24,524	30,887	73,637
Njombe	221,565	157,552	564	3,951	7,365	7,365	15,859	28,909
Katavi	103,890	71,176	530	5,337	5,039	3,720	5,583	12,504
Simiyu	298,960	69,676	1,543	31,427	20,722	60,569	38,285	76,738
Geita	76,553	51,392	555	1,844	6,487	4,074	5,391	6,809
Songwe	412,608	336,586	0	4,213	14,824	7,374	24,253	25,358

Table 7.5: Distribution of Households by Non Food Items and Amount of Money spent in last 12 Monthson Non Food Items_ Purchase or Repair Transport Facilities/Agriculctural Equipment.

Region Name:	Amount of Money spent in last 12 Monthson non food items_ Purchase or repair transport facilities/agriculctural equipment							
	Total	<10,000	10,000 - 14,999	15,000 - 19,999	20,000 - 29,999	30,000 - 49,999	50,000 - 69,999	70,000+
Total	11,454,818	4,979,337	261,642	4,007,283	785,400	329,191	323,287	768,679
Dodoma	590,106	89,385	12,072	331,489	66,745	18,090	16,549	55,775
Arusha	469,204	244,319	0	128,813	34,874	6,012	7,208	47,977
Kilimanjaro	499,128	172,919	31,973	226,507	49,928	1,271	0	16,529
Tanga	572,083	182,322	20,495	212,906	54,097	26,356	29,198	46,709
Morogoro	655,833	326,713	15,121	218,340	38,720	8,355	18,423	30,161
Pwani	333,150	124,830	2,589	135,911	24,771	11,909	5,965	27,174
Dar es salaam	1,417,251	1,355,677	0	0	3,612	3,612	14,535	39,816
Lindi	293,907	144,751	17,420	76,845	35,388	2,998	6,745	9,761
Mtwara	448,463	129,008	3,458	266,719	14,920	12,578	6,916	14,864
Ruvuma	392,519	113,145	9,018	198,117	10,044	16,031	18,084	28,079
Iringa	289,324	76,583	2,967	118,804	28,879	9,638	21,416	31,037
Mbeya	412,915	190,606	5,267	163,167	20,117	3,160	2,107	28,492
Singida	334,525	55,097	16,296	168,961	30,862	7,690	17,130	38,490
Tabora	483,265	137,954	2,464	193,234	32,086	51,944	17,365	48,219
Rukwa	259,632	131,269	0	102,467	15,298	662	3,974	5,961
Kigoma	483,363	218,185	3,788	171,103	49,518	13,590	11,124	16,055
Shinyanga	339,428	101,147	13,946	127,074	23,412	26,074	26,032	21,743
Kagera	678,574	228,343	36,601	257,684	45,171	27,694	27,694	55,388
Mwanza	630,094	270,101	30,617	205,418	54,805	16,073	14,466	38,614
Mara	403,837	98,827	6,216	224,352	43,487	12,382	5,188	13,385
Manyara	354,642	145,683	4,595	100,834	27,263	8,153	11,820	56,294
Njombe	221,565	106,439	564	68,789	9,595	6,222	7,351	22,604
Katavi	103,890	45,857	2,128	31,717	9,037	5,848	3,189	6,113
Simiyu	298,960	47,541	12,248	127,382	26,800	19,849	20,704	44,437
Geita	76,553	22,559	2,243	31,031	10,588	3,519	1,652	4,960
Songwe	412,608	220,075	9,557	119,620	25,383	9,480	8,453	20,040

Table 7.5: Distribution of Households by Non Food Items and Amount of Money spent in last 12 Months on Non Food Items_ Medical expense

Region Name:	Amount of Money spent in last 12 Monthson non food items_ Medical expense							
	Total	<10,000	10,000 - 14,999	15,000 - 19,999	20,000 - 29,999	30,000 - 49,999	50,000 - 69,999	70,000+
Total	11,454,818	2,112,028	79,414	499,434	537,815	821,565	1,136,470	6,268,092
Dodoma	590,106	145,416	21,136	27,336	18,163	34,712	84,726	258,617
Arusha	469,204	63,765	3,590	8,434	24,134	24,018	56,498	288,765
Kilimanjaro	499,128	105,035	0	7,660	17,925	40,811	43,540	284,157
Tanga	572,083	82,087	7,353	30,760	16,161	44,045	104,038	287,640
Morogoro	655,833	122,844	1,671	30,242	31,954	41,940	90,727	336,455
Pwani	333,150	51,303	1,698	9,403	8,575	19,656	36,701	205,814
Dar es salaam	1,417,251	0	0	0	0	0	0	1,417,251
Lindi	293,907	82,291	3,034	26,377	15,830	17,292	30,033	119,051
Mtwara	448,463	119,638	4,574	29,896	25,294	45,876	31,011	192,174
Ruvuma	392,519	116,642	1,002	23,094	17,106	28,104	29,130	177,442
Iringa	289,324	52,650	0	8,128	7,391	22,999	40,764	157,393
Mbeya	412,915	131,207	5,318	10,585	25,435	26,514	19,038	194,819
Singida	334,525	103,068	3,418	16,317	17,984	31,675	34,259	127,804
Tabora	483,265	85,681	1,232	22,352	37,253	53,296	65,583	217,870
Rukwa	259,632	78,430	0	7,286	9,353	24,732	29,288	110,544
Kigoma	483,363	123,840	0	91,610	30,997	37,251	28,502	171,163
Shinyanga	339,428	120,925	3,465	21,806	19,968	32,160	33,047	108,057
Kagera	678,574	83,629	5,193	26,089	59,102	60,959	113,054	330,549
Mwanza	630,094	30,852	4,861	21,090	46,807	79,110	66,095	381,279
Mara	403,837	85,921	0	20,678	32,007	21,656	42,509	201,066
Manyara	354,642	77,348	906	19,994	19,045	36,344	34,576	166,429
Njombe	221,565	63,709	2,271	5,658	10,242	14,234	18,103	107,348
Katavi	103,890	19,154	1,611	3,487	4,813	10,383	16,754	47,688
Simiyu	298,960	29,903	762	10,724	10,761	32,189	50,607	164,014
Geita	76,553	5,533	0	1,289	6,107	7,777	8,341	47,505
Songwe	412,608	131,156	6,320	19,140	25,409	33,836	29,546	167,201

Table 7.5: Distribution of Households by Non Food Items and Amount of Money Spent in Last 12 Months on Non Food Items_Water Bill/Purchased Water.

Region Name:	Amount of Money spent in last 12 Monthson non food items_Water bill/purchased water							
	Total	<10,000	10,000 - 69,999	70,000 - 149,999	150,000 - 199,999	200,000 - 299,999	300,000 - 399,999	400,000+
Total	11,454,818	5,892,939	266,830	2,854,070	329,888	1,537,034	265,258	308,799
Dodoma	590,106	404,033	24,254	90,670	16,622	36,363	7,559	10,604
Arusha	469,204	218,756	8,434	126,275	20,486	69,922	12,082	13,249
Kilimanjaro	499,128	193,479	8,993	216,057	5,179	67,791	2,543	5,086
Tanga	572,083	306,289	26,391	155,577	5,861	66,138	2,984	8,844
Morogoro	655,833	349,499	13,572	173,058	31,913	72,670	6,684	8,437
Pwani	333,150	79,327	5,137	166,647	15,410	41,859	13,690	11,081
Dar es salaam	1,417,251	0	0	377,986	123,588	577,683	159,792	178,202
Lindi	293,907	147,072	12,046	108,358	6,050	17,365	2,267	749
Mtwara	448,463	231,999	9,147	143,845	3,458	47,353	5,800	6,861
Ruvuma	392,519	221,187	12,072	114,735	4,057	39,442	0	1,026
Iringa	289,324	142,253	32,583	80,989	7,408	21,614	2,230	2,248
Mbeya	412,915	237,133	1,053	89,972	16,982	53,002	4,213	10,559
Singida	334,525	246,002	6,898	54,889	2,605	15,504	6,898	1,730
Tabora	483,265	349,425	9,914	78,051	4,957	34,729	1,232	4,957
Rukwa	259,632	187,649	3,312	52,582	3,344	11,405	678	662
Kigoma	483,363	312,291	38,394	64,460	8,719	44,617	7,486	7,396
Shinyanga	339,428	194,732	5,219	101,929	6,085	24,510	3,486	3,465
Kagera	678,574	544,456	1,731	88,779	5,235	33,181	5,193	0
Mwanza	630,094	335,844	8,037	106,512	19,405	132,698	11,447	16,151
Mara	403,837	277,087	5,163	73,739	6,216	39,551	1,028	1,053
Manyara	354,642	137,134	20,922	145,506	2,740	40,143	2,740	5,457
Njombe	221,565	119,297	6,800	80,656	2,836	9,127	1,156	1,693
Katavi	103,890	48,717	2,665	31,963	3,998	12,808	1,611	2,128
Simiyu	298,960	251,419	2,305	36,018	1,543	3,847	1,543	2,286
Geita	76,553	46,862	734	18,615	2,033	4,625	918	2,767
Songwe	412,608	310,997	1,053	76,201	3,160	19,089	0	2,107

Table 7.5: Distribution of Households by Non Food Items and Amount of Money Spent in Last 12 Months on Non Food Items Farming.

Region Name:	Amount of Money spent in last 12 Monthson non food items Farming							
	Total	<10,000	10,000 - 109,999	110,000 - 159,999	160,000 - 299,999	300,000 - 599,999	600,000 - 999,999	1,000,000+
Total	11,454,818	3,153,974	5,132,452	487,070	746,504	1,162,465	660,489	111,864
Dodoma	590,106	75,772	369,064	24,327	40,913	54,417	18,090	7,522
Arusha	469,204	128,988	185,050	27,695	31,168	60,204	33,706	2,393
Kilimanjaro	499,128	101,159	309,649	10,265	20,560	40,935	14,017	2,543
Tanga	572,083	125,029	347,598	13,249	26,285	48,201	8,809	2,913
Morogoro	655,833	111,105	230,607	33,544	85,673	103,974	85,876	5,054
Pwani	333,150	83,800	142,746	14,498	18,765	37,489	30,716	5,137
Dar es salaam	1,417,251	1,388,094	0	0	0	0	25,545	3,612
Lindi	293,907	39,318	175,588	21,039	9,816	25,572	18,809	3,765
Mtwara	448,463	73,874	207,011	21,808	27,581	69,999	44,760	3,430
Ruvuma	392,519	73,898	183,137	13,050	22,043	55,181	40,200	5,010
Iringa	289,324	41,663	69,804	31,810	42,958	57,092	40,081	5,916
Mbeya	412,915	126,094	167,124	9,532	33,913	36,096	36,996	3,160
Singida	334,525	25,027	145,809	22,339	48,013	66,768	20,589	5,981
Tabora	483,265	53,325	288,799	44,613	30,854	40,918	22,292	2,464
Rukwa	259,632	42,712	139,767	15,960	13,973	25,249	18,658	3,312
Kigoma	483,363	71,977	308,532	13,620	17,288	49,638	21,076	1,233
Shinyanga	339,428	58,571	147,971	14,791	30,448	64,235	19,080	4,332
Kagera	678,574	61,085	520,266	12,158	24,232	34,786	19,124	6,923
Mwanza	630,094	220,118	313,146	11,290	19,405	37,163	25,756	3,215
Mara	403,837	70,706	248,288	16,593	25,816	31,005	9,374	2,055
Manyara	354,642	41,115	157,348	27,263	43,546	47,192	24,590	13,588
Njombe	221,565	37,540	70,537	14,165	24,917	42,042	28,413	3,951
Katavi	103,890	18,171	43,425	5,317	8,507	14,115	11,172	3,183
Simiyu	298,960	8,475	157,322	41,315	42,133	39,010	6,877	3,829
Geita	76,553	6,478	23,894	5,735	9,062	18,830	10,525	2,028
Songwe	412,608	69,881	179,970	21,093	48,634	62,354	25,358	5,318

Table 7.5: Distribution of Households by Non Food Items and Amount of Money Spent in Last 12 Months on Non-Food Items Clothing (school uniforms and others).

Region Name:	Amount of Money spent in last 12 months on non-food items_Clothing(school uniforms and others)							
	Total	<10,000	10,000 - 14,999	15,000 - 19,999	20,000 - 29,999	30,000 - 49,999	50,000 - 69,999	70,000+
Total	11,454,818	2,815,260	85,229	219,289	647,641	869,537	2,785,616	4,032,247
Dodoma	590,106	212,161	1,504	12,109	34,859	48,399	101,384	179,690
Arusha	469,204	123,969	1,197	4,815	5,983	26,498	80,545	226,197
Kilimanjaro	499,128	162,685	1,302	2,543	21,770	48,657	113,905	148,266
Tanga	572,083	137,994	2,913	16,055	61,627	90,825	106,986	155,683
Morogoro	655,833	176,481	3,342	21,927	55,431	47,075	148,357	203,219
Pwani	333,150	61,700	3,417	5,116	10,211	25,621	80,362	146,723
Dar es salaam	1,417,251	0	0	0	0	0	828,558	588,694
Lindi	293,907	154,585	5,301	7,494	12,028	18,041	62,514	33,944
Mtwara	448,463	166,963	2,315	14,920	24,095	26,382	80,595	133,192
Ruvuma	392,519	133,675	4,008	7,038	13,074	15,054	92,863	126,807
Iringa	289,324	29,723	0	755	14,098	29,706	50,438	164,604
Mbeya	412,915	147,341	2,107	4,265	14,747	17,959	93,235	133,263
Singida	334,525	48,158	3,418	10,315	27,424	39,469	68,643	137,099
Tabora	483,265	133,989	13,639	8,652	28,510	56,871	74,415	167,187
Rukwa	259,632	145,098	678	7,350	5,977	9,967	55,344	35,217
Kigoma	483,363	170,863	8,659	27,209	40,949	37,161	78,200	120,322
Shinyanga	339,428	60,917	866	13,100	46,126	36,533	87,879	94,006
Kagera	678,574	106,341	3,462	12,200	38,374	73,159	102,711	342,328
Mwanza	630,094	108,198	11,329	19,483	59,666	38,614	129,640	263,164
Mara	403,837	133,618	1,053	6,166	33,060	23,836	79,780	126,324
Manyara	354,642	101,806	1,812	5,457	19,155	33,604	50,019	142,789
Njombe	221,565	48,938	1,693	1,143	19,947	14,193	41,987	93,665
Katavi	103,890	30,125	3,209	1,863	6,656	6,650	23,708	31,678
Simiyu	298,960	40,683	6,895	4,628	20,704	49,028	44,307	132,716
Geita	76,553	26,768	1,110	4,684	6,657	4,441	10,919	21,973
Songwe	412,608	152,479	0	0	26,514	51,794	98,322	83,498

Table 7.5: Distribution of Households by Non Food Items and Amount of Money Spent in last 12 Months on Non-Food Items Religious, Occasions, Marriage and Funerals

Region Name:	Amount of Money spent in last 12 months on non food items Religious, occasions, marriage and funerals							
	Total	<10,000	10,000 - 14,999	15,000 - 19,999	20,000 - 29,999	30,000 - 49,999	50,000 - 69,999	70,000+
Total	11,454,818	3,214,763	674,131	293,856	659,794	776,223	2,191,449	3,644,602
Dodoma	590,106	286,246	19,668	15,045	22,786	42,381	76,984	126,997
Arusha	469,204	64,990	8,463	1,226	23,989	41,995	108,123	220,418
Kilimanjaro	499,128	78,118	21,770	7,753	24,313	38,392	94,771	234,013
Tanga	572,083	184,845	46,922	22,022	48,307	54,168	74,840	140,978
Morogoro	655,833	250,579	67,169	40,431	35,296	20,134	73,894	168,329
Pwani	333,150	99,209	11,143	3,397	23,881	24,751	58,055	112,714
Dar es salaam	1,417,251	0	0	0	0	0	646,744	770,507
Lindi	293,907	109,217	68,656	7,513	9,085	24,805	26,322	48,311
Mtwara	448,463	205,700	25,266	9,231	38,039	20,665	48,218	101,344
Ruvuma	392,519	170,918	55,205	0	4,032	3,055	57,380	101,929
Iringa	289,324	40,890	5,916	6,653	29,688	33,302	58,620	114,255
Mbeya	412,915	131,489	14,798	11,715	16,880	26,360	62,431	149,243
Singida	334,525	117,551	21,443	12,837	32,633	31,654	37,781	80,625
Tabora	483,265	127,891	37,223	27,189	42,150	58,163	66,785	123,866
Rukwa	259,632	105,132	35,233	5,315	13,343	13,327	33,358	53,923
Kigoma	483,363	214,217	11,154	26,067	28,502	33,433	75,825	94,165
Shinyanga	339,428	128,722	29,603	13,882	20,010	20,834	54,916	71,460
Kagera	678,574	120,272	55,851	27,820	71,429	81,772	125,043	196,388
Mwanza	630,094	161,669	38,810	11,329	37,007	50,022	101,886	229,371
Mara	403,837	174,999	23,861	6,166	28,974	20,678	58,952	90,206
Manyara	354,642	81,856	13,632	14,581	30,820	23,640	74,565	115,548
Njombe	221,565	51,760	9,664	2,285	10,806	19,878	36,893	90,278
Katawi	103,890	37,060	9,063	2,659	7,711	7,963	14,115	25,319
Simiyu	298,960	42,913	16,838	13,028	35,237	54,288	54,491	82,164
Geita	76,553	34,984	6,639	4,634	5,735	5,180	4,969	14,411
Songwe	412,608	193,535	20,142	1,079	19,140	25,383	65,488	87,840

Table 9.1: Distribution of Household Members by Region and Ownership of Mobile Phones

Region Name:	Total			Male			Female		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	49,042,052	16,363,963	32,678,090	23,834,102	9,018,814	14,815,289	25,207,950	7,345,149	17,862,801
Dodoma	2,464,696	638,751	1,825,945	1,190,466	380,118	810,349	1,274,230	258,634	1,015,596
Arusha	1,789,656	793,690	995,967	849,566	411,825	437,741	940,091	381,865	558,225
Kilimanjaro	1,947,836	818,471	1,129,365	966,359	399,655	566,704	981,477	418,816	562,661
Tanga	2,361,739	839,359	1,522,380	1,148,482	498,842	649,640	1,213,256	340,517	872,740
Morogoro	2,090,559	789,897	1,300,662	998,582	437,185	561,398	1,091,976	352,712	739,264
Pwani	1,273,629	519,525	754,104	605,633	249,376	356,256	667,997	270,149	397,848
Dar es salaam	6,008,135	3,183,593	2,824,542	2,810,612	1,509,991	1,300,622	3,197,522	1,673,602	1,523,920
Lindi	962,153	288,253	673,900	462,159	171,916	290,243	499,994	116,337	383,656
Mtwara	1,828,940	525,542	1,303,397	867,619	302,805	564,814	961,321	222,737	738,584
Ruvuma	1,192,455	457,413	735,042	579,990	281,075	298,915	612,465	176,338	436,127
Iringa	1,232,933	372,123	860,810	590,959	205,600	385,359	641,974	166,523	475,452
Mbeya	1,545,640	550,678	994,962	761,730	308,327	453,403	783,910	242,351	541,559
Singida	1,945,576	502,993	1,442,583	987,036	313,329	673,706	958,540	189,664	768,876
Tabora	2,762,159	619,908	2,142,250	1,389,841	368,416	1,021,425	1,372,317	251,493	1,120,825
Rukwa	1,062,799	210,024	852,775	534,085	138,044	396,041	528,714	71,979	456,734
Kigoma	2,028,827	598,778	1,430,049	960,321	368,863	591,458	1,068,506	229,915	838,591
Shinyanga	1,675,647	432,397	1,243,250	847,080	286,114	560,966	828,567	146,283	682,284
Kagera	2,654,152	742,780	1,911,372	1,283,327	412,700	870,627	1,370,825	330,081	1,040,744
Mwanza	3,772,827	1,031,716	2,741,111	1,823,047	561,754	1,261,294	1,949,780	469,962	1,479,818
Mara	1,732,354	520,250	1,212,105	828,243	262,840	565,404	904,111	257,410	646,701
Manyara	1,710,557	505,897	1,204,660	888,303	289,872	598,431	822,254	216,025	606,229
Njombe	831,119	280,636	550,483	408,347	159,615	248,732	422,772	121,020	301,751
Katavi	499,557	116,547	383,010	245,049	71,746	173,303	254,508	44,801	209,708
Simiyu	1,532,479	414,706	1,117,773	745,323	246,485	498,838	787,156	168,220	618,935
Geita	454,805	102,686	352,119	229,836	62,596	167,240	224,969	40,090	184,879
Songwe	1,680,825	507,349	1,173,475	832,105	319,724	512,381	848,719	187,625	661,095

Table 9.1A: Distribution of Household Members by Region and Ownership of Mobile Phones by Location

Region Name:	Total			RURAL			URBAN		
	Total	Yes	No	Total	Yes	No	Total	Yes	No
Total	49,042,052	16,363,963	32,678,090	33,970,924	8,972,566	24,998,358	15,071,128	7,391,397	7,679,732
Dodoma	2,464,696	638,751	1,825,945	2,115,078	463,914	1,651,165	349,618	174,838	174,780
Arusha	1,789,656	793,690	995,967	1,194,246	455,629	738,617	595,411	338,061	257,349
Kilimanjaro	1,947,836	818,471	1,129,365	1,518,249	587,440	930,809	429,588	231,032	198,556
Tanga	2,361,739	839,359	1,522,380	1,898,148	606,205	1,291,944	463,591	233,155	230,436
Morogoro	2,090,559	789,897	1,300,662	1,483,613	460,991	1,022,622	606,945	328,906	278,040
Pwani	1,273,629	519,525	754,104	820,761	302,854	517,907	452,868	216,671	236,197
Dar es salaam	6,008,135	3,183,593	2,824,542	0	0	0	6,008,135	3,183,593	2,824,542
Lindi	962,153	288,253	673,900	782,836	222,702	560,134	179,317	65,551	113,766
Mtwara	1,828,940	525,542	1,303,397	1,388,553	343,609	1,044,944	440,387	181,933	258,454
Ruvuma	1,192,455	457,413	735,042	884,745	309,496	575,249	307,710	147,917	159,793
Iringa	1,232,933	372,123	860,810	942,089	241,251	700,838	290,844	130,872	159,972
Mbeya	1,545,640	550,678	994,962	982,765	266,223	716,542	562,875	284,455	278,420
Singida	1,945,576	502,993	1,442,583	1,757,429	406,974	1,350,455	188,147	96,019	92,128
Tabora	2,762,159	619,908	2,142,250	2,402,729	482,964	1,919,765	359,430	136,945	222,485
Rukwa	1,062,799	210,024	852,775	822,789	137,155	685,634	240,010	72,869	167,141
Kigoma	2,028,827	598,778	1,430,049	1,625,961	393,831	1,232,130	402,866	204,947	197,919
Shinyanga	1,675,647	432,397	1,243,250	1,326,094	310,709	1,015,385	349,553	121,688	227,864
Kagera	2,654,152	742,780	1,911,372	2,379,176	603,125	1,776,051	274,976	139,656	135,320
Mwanza	3,772,827	1,031,716	2,741,111	2,534,448	491,257	2,043,191	1,238,379	540,459	697,920
Mara	1,732,354	520,250	1,212,105	1,430,944	405,886	1,025,058	301,411	114,364	187,047
Manyara	1,710,557	505,897	1,204,660	1,503,709	399,585	1,104,124	206,848	106,312	100,536
Njombe	831,119	280,636	550,483	620,739	191,007	429,732	210,379	89,628	120,751
Katavi	499,557	116,547	383,010	376,476	68,722	307,754	123,081	47,824	75,256
Simiyu	1,532,479	414,706	1,117,773	1,488,700	391,337	1,097,363	43,779	23,368	20,410
Geita	454,805	102,686	352,119	382,746	78,943	303,803	72,059	23,743	48,316
Songwe	1,680,825	507,349	1,173,475	1,307,900	350,758	957,142	372,924	156,591	216,333

Table 9.2: Distribution of Household Members by Region and Place where One Charges Mobile Phone

Region Name:	Total					Male					Female				
	Total	At home/ Office	Battery charging station/shop	Neighbor/ friend	Other (Specify)	Total	At home/ Office	Battery charging station/shop	Neighbor/ friend	Other (Specify)	Total	At home/ Office	Battery charging station/shop	Neighbor/ friend	Other (Specify)
Total	16,364,506	9,013,805	5,079,709	2,239,253	31,739	9,021,130	4,664,734	3,073,232	1,262,398	20,765	7,343,376	4,349,070	2,006,477	976,855	10,974
Dodoma	638,751	343,025	196,733	95,888	3,105	380,118	194,730	119,011	66,377	0	258,634	148,295	77,723	29,511	3,105
Arusha	794,904	459,170	224,860	107,190	3,685	413,039	221,057	133,209	57,577	1,197	381,865	238,113	91,652	49,613	2,488
Kilimanjaro	819,762	404,934	208,541	206,286	0	400,946	187,653	109,825	103,468	0	418,816	217,281	98,716	102,819	0
Tanga	839,359	351,219	421,546	66,593	0	498,842	200,634	258,691	39,518	0	340,517	150,586	162,856	27,075	0
Morogoro	791,634	325,024	368,303	94,965	3,342	437,185	167,536	212,706	53,601	3,342	354,449	157,488	155,597	41,364	0
Pwani	520,387	227,005	242,206	49,444	1,732	250,238	109,814	119,979	19,595	849	270,149	117,191	122,227	29,849	883
Dar es salaam	3,187,259	2,693,800	195,009	298,450	0	1,513,657	1,267,195	94,012	152,449	0	1,673,602	1,426,605	100,997	146,001	0
Lindi	288,253	121,042	93,404	73,808	0	171,916	69,800	58,536	43,580	0	116,337	51,242	34,868	30,227	0
Mtwara	525,542	315,031	87,234	117,515	5,762	302,805	187,063	48,109	63,059	4,574	222,737	127,968	39,125	54,456	1,189
Ruvuma	448,186	251,489	69,874	122,751	4,072	274,973	143,581	50,143	79,245	2,004	173,213	107,908	19,731	43,506	2,068
Iringa	372,871	228,342	86,013	57,768	748	206,348	118,349	56,198	31,053	748	166,523	109,993	29,815	26,715	0
Mbeya	550,678	288,610	181,912	80,155	0	308,327	153,181	105,574	49,572	0	242,351	135,429	76,338	30,584	0
Singida	502,993	268,138	149,995	84,860	0	313,329	151,066	103,895	58,368	0	189,664	117,072	46,100	26,492	0
Tabora	621,189	280,762	204,023	136,404	0	368,416	160,684	124,944	82,787	0	252,773	120,078	79,078	53,617	0
Rukwa	210,024	93,537	89,095	26,719	672	138,044	55,785	61,014	20,572	672	71,979	37,752	28,081	6,147	0
Kigoma	598,778	293,763	224,878	80,137	0	368,863	169,787	149,527	49,549	0	229,915	123,976	75,351	30,588	0
Shinyanga	434,156	164,716	202,689	66,750	0	287,873	99,164	144,370	44,339	0	146,283	65,552	58,320	22,411	0
Kagera	742,780	334,678	289,891	118,211	0	412,700	183,888	173,373	55,440	0	330,081	150,790	116,519	62,772	0
Mwanza	1,031,716	621,340	328,337	82,040	0	561,754	322,956	196,815	41,983	0	469,962	298,384	131,522	40,057	0
Mara	522,361	184,637	300,974	36,750	0	263,883	85,635	162,740	15,507	0	258,478	99,002	138,234	21,242	0
Manyara	505,897	195,855	237,194	68,292	4,556	289,872	96,290	152,656	36,369	4,556	216,025	99,564	84,538	31,923	0
Njombe	280,636	199,255	50,339	29,317	1,724	159,615	112,701	32,796	12,982	1,137	121,020	86,554	17,544	16,335	587
Katavi	117,368	68,236	29,519	19,336	276	72,015	39,076	20,197	12,743	0	45,352	29,160	9,323	6,594	276
Simiyu	415,479	117,379	271,751	25,587	762	247,259	63,612	169,123	13,762	762	168,220	53,767	102,628	11,825	0
Geita	102,686	25,231	73,905	2,248	1,302	62,596	14,760	45,992	921	923	40,090	10,471	27,913	1,327	379
Songwe	500,856	157,586	251,483	91,787	0	316,517	88,736	169,798	57,983	0	184,339	68,850	81,685	33,805	0

Table 9.2A: Distribution of Household Members by Region and Place where One Charges Mobile Phone_Location

Region Name:	Total					RURAL					URBAN				
	Total	At home/ Office	Battery charging station/shop	Neighbor/ friend	Other (Specify)	Total	At home/ Office	Battery charging station/shop	Neighbor/ friend	Other (Specify)	Total	At home/ Office	Battery charging station/shop	Neighbor/ friend	Other (Specify)
Total	16,364,506	9,013,805	5,079,709	2,239,253	31,739	8,963,728	3,268,870	4,138,791	1,531,551	24,516	7,400,778	5,744,935	940,918	707,702	7,224
Dodoma	638,751	343,025	196,733	95,888	3,105	463,914	201,886	170,676	88,246	3,105	174,838	141,139	26,057	7,642	0
Arusha	794,904	459,170	224,860	107,190	3,685	456,843	213,749	181,029	59,625	2,441	338,061	245,421	43,831	47,565	1,244
Kilimanjaro	819,762	404,934	208,541	206,286	0	587,440	234,871	186,594	165,975	0	232,322	170,064	21,948	40,311	0
Tanga	839,359	351,219	421,546	66,593	0	606,205	174,323	374,221	57,661	0	233,155	176,897	47,325	8,933	0
Morogoro	791,634	325,024	368,303	94,965	3,342	460,991	122,228	267,662	67,759	3,342	330,643	202,796	100,641	27,206	0
Pwani	520,387	227,005	242,206	49,444	1,732	302,854	98,724	166,851	36,429	849	217,533	128,281	75,355	13,015	883
Dar es salaam	3,187,259	2,693,800	195,009	298,450	0	0	0	0	0	0	3,187,259	2,693,800	195,009	298,450	0
Lindi	288,253	121,042	93,404	73,808	0	222,702	90,587	75,867	56,248	0	65,551	30,455	17,536	17,559	0
Mtwara	525,542	315,031	87,234	117,515	5,762	343,609	174,079	69,619	94,149	5,762	181,933	140,951	17,615	23,367	0
Ruvuma	448,186	251,489	69,874	122,751	4,072	300,269	144,174	52,682	100,342	3,070	147,917	107,315	17,192	22,409	1,002
Iringa	372,871	228,342	86,013	57,768	748	241,999	126,029	71,735	43,487	748	130,872	102,313	14,278	14,281	0
Mbeya	550,678	288,610	181,912	80,155	0	266,223	67,486	152,833	45,905	0	284,455	221,125	29,080	34,250	0
Singida	502,993	268,138	149,995	84,860	0	406,974	186,081	139,514	81,380	0	96,019	82,058	10,481	3,480	0
Tabora	621,189	280,762	204,023	136,404	0	482,964	178,831	182,741	121,391	0	138,225	101,931	21,281	15,013	0
Rukwa	210,024	93,537	89,095	26,719	672	137,155	54,420	63,376	18,686	672	72,869	39,117	25,719	8,033	0
Kigoma	598,778	293,763	224,878	80,137	0	393,831	137,784	192,344	63,703	0	204,947	155,980	32,534	16,434	0
Shinyanga	434,156	164,716	202,689	66,750	0	312,467	93,249	166,595	52,623	0	121,688	71,467	36,094	14,127	0
Kagera	742,780	334,678	289,891	118,211	0	603,125	207,539	282,746	112,839	0	139,656	127,139	7,145	5,372	0
Mwanza	1,031,716	621,340	328,337	82,040	0	491,257	215,378	238,257	37,623	0	540,459	405,962	90,080	44,417	0
Mara	522,361	184,637	300,974	36,750	0	407,997	106,960	276,888	24,149	0	114,364	77,677	24,087	12,601	0
Manyara	505,897	195,855	237,194	68,292	4,556	399,585	106,112	228,019	62,736	2,718	106,312	89,743	9,174	5,556	1,839
Njombe	280,636	199,255	50,339	29,317	1,724	191,007	130,853	38,333	21,235	587	89,628	68,402	12,006	8,082	1,137
Katavi	117,368	68,236	29,519	19,336	276	68,998	31,200	23,857	13,666	276	48,369	37,036	5,663	5,671	0
Simiyu	415,479	117,379	271,751	25,587	762	392,111	101,045	267,070	23,234	762	23,368	16,334	4,681	2,353	0
Geita	102,686	25,231	73,905	2,248	1,302	78,943	16,813	61,575	372	184	23,743	8,418	12,330	1,876	1,119
Songwe	500,856	157,586	251,483	91,787	0	344,265	54,470	207,707	82,089	0	156,591	103,116	43,776	9,698	0

Table 9.3: Distribution of Household Members by Place to charge Battery and Frequency per Week

Charge Batterie	Battery and Frequency per Week Phone							
	Total	<2	2	3	4	5	6	7+
Total	16,364,506	3,382,286	0	2,097,813	844,447	670,206	88,030	9,281,722
At home/Office	9,013,805	3,358,252	0	2,094,946	728,848	424,810	88,030	2,318,918
Battery charging station/shop	5,079,709	14,754	0	2,868	73,034	153,374	0	4,835,680
Neighbor/friend	2,239,253	9,281	0	0	41,646	89,859	0	2,098,467
Other(Specify)	31,739	0	0	0	919	2,163	0	28,657

Table 9.3A: Distribution of Household Members by Place to charge Battery and Frequency per Week_Rural

Charge Batterie	Battery and Frequency per Week Phone							
	Total	<2	2	3	4	5	6	7+
Total	8,963,728	1,799,763	0	805,716	376,580	277,484	25,395	5,678,790
At home/Office	3,268,870	1,778,404	0	804,045	286,178	96,391	25,395	278,456
Battery charging station/shop	4,138,791	13,874	0	1,671	60,062	111,126	0	3,952,058
Neighbor/friend	1,531,551	7,485	0	0	30,339	69,967	0	1,423,760
Other(Specify)	24,516	0	0	0	0	0	0	24,516

Table 9.3B: Distribution of Household Members by Place to charge Battery and Frequency per Week_Urban

Charge Batterie	Battery and Frequency per Week Phone							
	Total	<2	2	3	4	5	6	7+
Total	7,400,778	1,582,523	0	1,292,097	467,868	392,722	62,636	3,602,933
At home/Office	5,744,935	1,579,848	0	1,290,901	442,670	328,419	62,636	2,040,462
Battery charging station/shop	940,918	879	0	1,197	12,971	42,248	0	883,623
Neighbor/friend	707,702	1,796	0	0	11,307	19,892	0	674,707
Other(Specify)	7,224	0	0	0	919	2,163	0	4,141

Table 9.4: Distribution of Household Members by Place where to charge phone Battery and Total Spending in a Week

Charge Batterie	Charge phone Battery and Total Spending in a Week									
	Total	00	100-199	200-499	500-999	1000-1999	2000-2999	3000-3999	4000-4999	5000+
Total	16364506	11253058	58119	1898542	2065032	707104	321889	12810	20280	27674
At home/Office	9013805	9013805	0	0	0	0	0	0	0	0
Battery charging station/shop	5079709	0	53714	1883563	2057826	704373	319470	12810	20280	27674
Neighbor/friend	2239253	2239253	0	0	0	0	0	0	0	0
Other(Specify)	31739	0	4404	14979	7206	2731	2419	0	0	0




Table 9.4A: Distribution of Household Members by Place where to charge phone Battery and Total Spending in a Week Rural

Charge Batterie	Charge phone Battery and Total Spending in a Week									
	Total	00	100-199	200-499	500-999	1000-1999	2000-2999	3000-3999	4000-4999	5000+
Total	8963728	4800421	24125	1586906	1703242	563568	239759	11278	8677	25753
At home/Office	3268870	3268870	0	0	0	0	0	0	0	0
Battery charging station/shop	4138791	0	21741	1572294	1699953	561756	237339	11278	8677	25753
Neighbor/friend	1531551	1531551	0	0	0	0	0	0	0	0
Other(Specify)	24516	0	2384	14612	3289	1812	2419	0	0	0

Table 9.4B: Distribution of Household Members by Place where to charge phone Battery and Total Spending in a Week Urban

Charge Batterie	Charge phone Battery and Total Spending in a Week									
	Total	00	100-199	200-499	500-999	1000-1999	2000-2999	3000-3999	4000-4999	5000+
Total	7400778	6452637	33994	311635	361790	143536	82131	1532	11603	1921
At home/Office	5744935	5744935	0	0	0	0	0	0	0	0
Battery charging station/shop	940918	0	31973	311268	357873	142617	82131	1532	11603	1921
Neighbor/friend	707702	707702	0	0	0	0	0	0	0	0
Other(Specify)	7224	0	2020	367	3917	919	0	0	0	0

ANNEX II: QUESTIONNAIRES

 National Bureau of Statistics	 United Republic of Tanzania	 Rural Energy Agency	
ENERGY ACCESS SITUATION SURVEY, 2016-MAINLAND TANZANIA		CONFIDENTIAL	
<p><i>This information is collected under the Act of the Parliament (Act No. 9 of 2015)</i> THIS INFORMATION IS STRICTLY CONFIDENTIAL AND IS TO BE USED FOR STATISTICAL PURPOSES ONLY.</p>			
<h3>Household Questionnaire</h3>			
SECTION A: HOUSEHOLD IDENTIFICATION			
	CODE	NAME	
1. REGION:	<input type="text"/>		MARK BOX WITH AN 'X' AND NUMBER FORMS BELOW IF YOU USE MORE THAN THIS SINGLE FORM TO COLLECT INFORMATION FROM THIS HOUSEHOLD. IF SO, BE SURE TO MARK IN THE SAME WAY THE OTHER FORMS USED FOR THIS HOUSEHOLD
2. DISTRICT	<input type="text"/>		
3. WARD	<input type="text"/>		
4. VILLAGE/STREET	<input type="text"/>		
5. ENUMERATION AREA:	<input type="text"/>		
6. HOUSEHOLD ID NUMBER AS FROM THE LISTING FORM:	<input type="text"/>	8.GPS, HOUSEHOLD	FORM <input type="text"/> OF <input type="text"/> TOTAL
7. NAME OF HOUSEHOLD HEAD:		S	<input type="text"/>
		E	<input type="text"/>
9. TOTAL NUMBER OF HOUSEHOLD MEMBERS	<input type="text"/>		
10. DATE OF INTERVIEW:	<input type="text"/>		CIRCLE THE CORRECT CODE
11. RESPONDENT NAME IN THE HOUSEHOLD:			11. RESPONDENT MOBILE NO:
12. INTERVIEW RESULT CODE:	Interview complete.....1, Respondent not available.....2, Incomplete...3, Refused...4, No right respondent...5, Other(Specify):.....6		
13. INTERVIEWER FULL NAME:.....	14. SUPERVISORS' FULL NAME:.....		

HOUSEHOLD ID NUMBER																	
SECTION 3: (QUESTION 8 -17): HOUSING, WATER AND SANITATION: RESPONDENT IS HEAD OF HOUSEHOLD OR HIS/HER REPRESENTATIVE. RESPONDENT: 12 YEARS OR ABOVE											RESPONDENT ID NUMBER						
8. What is the tenure of the house that the household is living in? IF CODE IS 1 → Q.10 IF CODE IS 2 or 3 → Q.9,11,..... IF CODE IS 4, 5 or 6 → Q.11,..... CODE		9. If renting or subsidized how much do you pay for rent each month? TZS			10. If owned, what is the estimated current market value of the house? TZS			11. How many rooms are there in the main dwelling? (exclude kitchen, bathrooms, store rooms and garage).		12. How many people are living in the main dwelling?	13. What is the main material of the wall of the main dwelling? CODE		14. What is the main material of the floor of the main dwelling? CODE		15. What is the main material of the roof of the main dwelling? CODE	16. What is the main source of drinking water for household members? CODE	17. What kind of toilet facility does the household have? ANY CODE GO TO SECTION 4

<u>CODE: QUES. 8: Housing Tenure</u>		<u>CODE: Quest 13: Material of outside wall</u>			<u>CODE: Quest. 15: Roof material</u>		<u>CODE: Quest. 16: Main source of Drinking water</u>				
Owned.....1		Stones.....1			Iron sheets.....1		Piped into dwelling.....1				
Rented.....2		Cement bricks.....2			Tiles.....2		Piped to yard/plot.....2				
Employer provided (Subsidized) ...3		Mud and wood.....3			Concrete.....3		Public tap/stand pipe.....3				
Employer provided (Free).....4		Mud and cement.....4			Asbestos sheet.....4		Tap/stand pipe to neighbour...4				
Free.....5		Wood only.....5			Grass/leaves.....5		Bore hole.....5				
Other (Specify).....6		Baked bricks.....6			Mud.....6		Protected well.....6				
		Grass.....7			Other (Specify).....7		Un protected well.....7				
<u>CODE: Quest. 17: Toilet Facility</u>		Other (Specify).....8			<u>CODE: Quest. 14: Floor Material</u>		Protected spring.....8				
Flush toilet.....1					Cement.....1		Un protected spring.....9				
VIP latrine.....2					Tiles.....2		Rain water.....10				
Covered pit latrine.....3					Wood.....3		Tanker truck/Vendor.....11				
Un covered pit latrine.....4					Earth/sand.....4		Bottled water.....12				
Bucket.....5					Dung.....5		River/Lake/Dam.....13				
No toilet/Bush.....6					Other (Specify).....6						
Other (Specify).....7											

QUESTION 33 AND 34 FOR HOUSEHOLD WITH ELECTRICITY									
30. What is the total amount of each energy source(s) circled does your household use each month?	31. How many lights does your household usually use per evening?	32. On an average how many hours of lighting per evening does your household use from these lighting sources?	33. For the passed three months, did it happen for your household unable to pay monthly electricity bill at least a month or more?	34. Who is usually paying monthly electricity bill?	35. Which of the following electricity appliances does your household use?	36. REA/TANES0 provides electricity services which are	37. What do you think on power interruption/cut off at your dwelling?	38. What do you think about electricity connection charges?	39. What do you think about monthly electricity bill?
			YES...1, NO.....2	Fully paid by Household members.....1 Part of monthly bill paid we get support.2 All monthly bill paid we get support.....3	You can select more than one	Very good.....1, Good.....2 Fair.....3, Poor.....4 Very poor.....5 Don't know99	Very low...1, Low.....2 Moderate.....3, High.....4 Very high.....5, Don't know.....99	Very low...1, Low.....2 Moderate.....3, High.....4 Very high.....5, Don't know...99	Very low...1, Low.....2 Moderate.....3, High.....4 Very high.....5, Don't know.....99
			CODE	CODE	CIRCLE THE CORRECT CODE	CODE		CODE	ANY CODE GO TO SECTION 5
Units:.....	Number of electric lights used per evening (i) Inside..... (ii) Outside.....	Number of hours per evening (i) Inside..... (ii) Outside.....			Tube light/bulb.....1.....2				
XXXXXXXXXXXXXXXXXXXXXXXXXXXX	Number of electric lights used per evening (i) Inside..... (ii) Outside.....	Number of hours per evening (i) Inside..... (ii) Outside.....			Electric iron.....1.....2				
Liters of diesel or gasoline/petrol/month.....	Number of electric lights used per evening (i) Inside..... (ii) Outside.....	Number of hours per evening (i) Inside..... (ii) Outside.....			Water heater.....1.....2				
Liters of kerosene/month.....	Number of kerosene lamps used.....	Hours per evening			Radio.....1.....2				
Number of candles in a month.....	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	Hours per evening			TV.....1.....2				
XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX			Fan.....1.....2				
XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXX			Electricity cooker.....1.....2				
IF CHINESE LAMP/TORCH USE BATTERY	Number of rechargeable/battery chinese lamp/torch used in the household....	Hours per evening			Water pump.....1.....2				
Number of battery used in a month is.....					Microwave.....1.....2				
					Fridge.....1.....2				
					Frizer.....1.....2				
					charged battery lamp.....1.....2				
					Air conditioner.....1.....2				
					Power stabilizer.....1.....2				
					OTHER TWO MORE APPLIANCES (IF ANY)				
					(1).....(2).....				

SECTION 5: QUESTION (40 -49): BENEFITS AND IMPACT OF RURAL ELECTRIFICATION			RESPONDENT: HEAD OF HOUSEHOLD OR HIS/HER REPRESENTATIVE			
INTERVIEWER SHOULD READ BENEFITS AND IMPACT OF ELECTRIFICATION. IF RESPONDENT AGREES, CODE (1) OTHERWISE CODE 2			12 OR ABOVE			
BENEFITS: QUESTION (40 - 46)			RESPONDENT ID NUMBER <input type="text"/>			
40. Does households' main dwelling connected to REA /TANESCO electricity or connected to any other electricity source? YES...1 →Q.40b to Q.49 NO...2 →QUEST. 40a	IF CODE IS 2 IN QUESTION 40, ASK THIS QUESTION 40a.Does the village/mtaa where the household is living has electricity? YES...1 →Q.40b to Q.49 NO...2 → SECTION 6	40b. Does crop productivity increased by application of electric irrigation water pumps. YES.....1 NO.....2 CODE	41. Does accessibility of electricity in your area shorten distance travelled by household members to/from grain grinding/milling machines? YES.....1 NO.....2 CODE	42. Does accessibility of electricity in this area increased establishment of small scale industries like welding machines? YES.....1 NO.....2 CODE	43. Does accessibility of electricity in this area increased establishment of business activities including increasing business operating hours in the evening? YES.....1 NO.....2 CODE	44. Does accessibility of electricity in this area increased access of mass media through TV and radio? YES.....1 NO.....2 CODE

RESPONDENT ID NUMBER				
IMPACT QUESTIONS(47 - 49)				
45. Does availability of electricity in this area increased accessibility of clean water from electric powered wells?	46. Does availability of electric lighting in this area made students study more easily and comfortably after dark?	47. Does availability of electricity in this area contributed income growth of household members due to increased crop productivity, establishment of businesses and small scale industries?	48. Do you think accessibility of clean water from electric powered wells in this area decreased risk of household members being infected from water borne diseases?	49. Do you think availability of electric lighting in this area improved students performance due to studying easily and comfortably after dark?
YES.....1 NO.....2 CODE	YES.....1 NO.....2 CODE	YES.....1, NO.....2 CODE	YES.....1 NO.....2 CODE	YES.....1, NO.....2 CODE

HOUSEHOLD ID NUMBER		RESPONDENT: HEAD OF HOUSEHOLD OR HIS/HER REPRESENTATIVE		RESPONDENT ID NO.	
SECTION 6:QUESTION (50 -90): HOUSEHOLD ASSETS(DURABLES)					
50. Does this household own the following assets? IF THE ANSWER IS YES CIRCLE CODE "1" OR IF THE ANSWER IS NO CIRCLE CODE "2" AND GO TO THE NEXT ROW QUESTION.		How many asset does this household own?		If you want to sell this asset/assets today,how much would you receive?	
		Quantity/Number of owned assets		TZS	
		YES			
51. Radio/Radio casset	1	2			
52. Land line telephone	1	2			
53. Mobile phone	1	2			
54. Refrigerator	1	2			
55. Frezer	1	2			
56. TV(Coloured or Black and White)	1	2			
57. CD/DVD/Decoder/Video casset	1	2			
58. Kerosine lamp	1	2			
59. Computer	1	2			
60. Electric iron	1	2			
61. Electric cooker/stove	1	2			
62. Charcoal/firewood cooker/stove	1	2			
63. Water heater	1	2			
64. Water pump	1	2			
65. Washing machine	1	2			
66. Music system	1	2			
67.Solar panel PV system	1	2			
68.Generator	1	2			
69. Invetor	1	2			
70. Sofa/Fumiture	1	2			
71.Hand hoe/thresher	1	2			
72. Animal drawn cart	1	2			
73. Any type of Boat(Motor boat/boat)	1	2			
74. Any type of vehicle	1	2			
75. House/Household dwelling(s)	1	2			
76. Motorcycle	1	2			
77. Bicycle	1	2			
78. Fam/Agriculture land owned by the household	1	2		Acre	
79. Plot for building	1	2			
80. Fan	1	2			
81. Air conditioner	1	2			
82. Animal pulled plow	1	2			
83. Four wheel Tractor	1	2			
84. Two wheel tractor/power tiller	1	2			
85. Oxen	1	2			
86.Fowly (e.g chickens, ducks, turkeys, pigeons)	1	2			
87.Small or large livestock(e.g goats, pigs, sheep)	1	2			
88. Non or Electric sewing machine	1	2			
89.Bottled gas (with or without gas)	1	2			
90.Milling machine(Electric or disel)	1	2			
91. Other (specify)	1	2			

HOUSEHOLD IN NUMBER														
SECTION 7:(QUESTION 92-93) HOUSEHOLD BUSINESS				RESPONDENT IS HOUSEHOLD HEAD HIS/HER REPRESENTATIVE AGED 12 YEARS OR ABOVE				RESPONDENT ID NO.						
INTERVIEWER: ASK IF HOUSEHOLD IS CURRENTLY DOING BUSINESS. IF IS NOT DOING, CODE '998' AND GO TO QUESTION.93														
92. Does this household currently or seasonally doing business? (Specify type of business)							YES.....1							
							NO.....2				GO TO 93			
<i>[SPECIFY TWO TYPES OF BUSINESS]</i>				TASCO CODE OF THE BUSINESS										
(1) _____														
(2) _____														
93. What is the main source of income of this household?				CIRCLE ONLY ONE SOURCE										
Selling food crops.....				01										
Selling livestock.....				02										
Selling livestock products.....				03										
Selling cash crops.....				04										
Selling charcoal.....				05										
Selling woods.....				06										
Selling firewoods.....				07										
Selling other forest products like honey/beewax, bush fruits, etc				08										
Income from business				09										
Salaried/wage labor(Only cash).....				10										
Payment in kind				11										
Other sources of income				12										
Financial support.....				13										
Fishing/selling fish.....				14										
Selling local brews				15										
Other(Specify).....				16										
SECTION 7(i):(SW 94 - 97) HOUSEHOLD EXPENDITURE (i.e NON BUSINESS EXPENDITURES)														
94. What is the amount of money spent on purchasing food consumed in the household for the last 7 days?				IF NO EXPENDITURE DONE In QUESTION 95 & 96, WRITE '00' AND ASK OTHER QUESTION										
				TZS:										
95. What is the value of food consumed in the household for the last 7 days from own production?				TZS:										
96. What is the value of food consumed in the household for the last 7 days from gift or obtained from other way?				TZS:										
97. For the last 12 months how much did your household spend on the following non food items?				If no Expenditure in question 94 write "00" and go to next row question										
g. Purchase or repair transport facilities/agricultural equipment.														
a. House rent.		TZS					h. Medical expense		TZS					
b. Land/building property tax		TZS					i. Water bill/purchased water.		TZS					
c. Public/Private transport.		TZS					j. Farming.		TZS					
d. Repair main dwelling or other appliances		TZS					k. Clothing(school uniforms and others).		TZS					
e. School fees.		TZS					l. Religious, occasions, marriage and funerals		TZS					
f. Remittances.							m. Other(Specify).....		TZS					

HOUSEHOLD ID NUMBER	Data are given in hours.Tables reported in hours(16/1/2016)														
SECTION 8: (QUESTION 98-108) : TIME USAGE. RESPONDENT IS ANY HOUSEHOLD MEMBER AGED 5 YEARS OR ABOVE.															
98. LIST ID NUMBER OF EACH HOUSEHOLD MEMBER AGED 5 YEARS OR ABOVE. START WRITING ID NUMBER OF HEAD OF HOUSEHOLD CIRCLE THE NUMBER OF HH WHO RESPOND ON BEHALF OF OTHERS	99. In the past 7 days, how many hours did (NAME) spend collecting firewood for the household including travel time? IF NOT APPLICABLE (NA) CODE '99' .LESS THAN 60 MINUTES WRITE '00'			100. In the past 7 days, how many hours did (NAME) spend preparing food at the household for immediate consumption? IF NOT APPLICABLE (NA) CODE '99' .LESS THAN 60 MINUTES WRITE '00'			101. In the past 7 days, how many hours did (NAME) spend washing clothes, ironing and cleaning households' dwelling? IF NA CODE '99' LESS THAN 60 MINUTES WRITE '00'			102. In the past 7 days, how many hours did (NAME) spend taking care of children/elders/ sick of household members? IF NA CODE '99' LESS THAN 60 MINUTES WRITE '00'			103. In the past 7 days, how many hours did (NAME) spend on milling and other food processing for the household? IF NA CODE '99' LESS THAN 60 MINUTES WRITE '00'		
	Time in Minutes			Time in Minutes			Time in Minutes			Time in Minutes			Time in Minutes		
				Day time	Night	Both day time and night	Day time	Night	Both day time and night	Day time	Night	Both day time and night	Day time	Night	Both day time and night

					RESPONDENT ID NUMBER		
SECTION 8(i): (QUESTION 109 -114) : WOMEN INVOLVEMENT :RESPONDENT IS FEMALE OR MALE HEAD OF HOUSEHOLD. IF NO ONE IS AROUND, REPRESENTATIVE AGED 12 YEARS OR ABOVE							
109a. Does (NAME) currently doing any income generating activity?		110.What is the nature of the income generating activity which (NAME) currently doing?	111. For how long does (NAME) has been doing this income generating activity?		112.How much does (NAME) earn per month?	113.From income you/she earn, (NAME), who is mainly decide how to spend the money in this household?	114. Who is the owner of the households' assets?
YES, farming/livestock keeping/Forest activities.....1		Employed1	IF RESPONDENT DON'T KNOW CODE '99'			Spouse only1, Women only/Herself....2 Women and spouse jointly3 Other person.....4,	Spouse only.....1
YES, office work/Industrial work/school/institution/community work/Banker/Hospital.....2							Women only.....2
YES, retail/whole business/Mining.....3							Women and spouse jointly....3
YES, repair/sewing/mason/domestic work/community work/taking care of children.....4		Self employed only.....2					Other person...4, don't know..99
YES, other activity(Specify).....5, No, I/she doesn't6		Both, employed and self employed(share holder)...3					
CODE	IF CODE IS 6 ASK QUESTION 114	CODE	Years	Month	TZS	CODE	ANY CODE GO TO SECTION 9

HOUSEHOLD ID NUMBER										RESPONDENT ID NUMBER	
SECTION 10: QUESTION(120-125) HOUSEHOLD PERCEPTION . RESPONDENT IS HEAD OF HOUSEHOLD OR HIS/HER REPRESENTATIVE AGED 12 YEARS OR ABOVE											
Interviewer read each statement and respondent has to say whether he/she strongly disagree, disagree, agree, strongly agree or I don't know											
120. LIST ID NUMBER OF EACH HOUSE HOLD MEMBER AGED 12 YEARS OR ABOVE CIRCLE THE ID NUMBER OF HOUSEHOLDS	121.Electricity helps with domestic tasks and care of the children	122. Using kerosine or other type of fuel energy is hamful for the health	123.Monthly spending for non electric energy sources is/was a financial burden for my family	124.Availability of electricity improved economic activities and businesses and hence increased income of the house hold members	125. Increased provision of electricity in rural areas enhanced social services in healh, education and water. Also, improved income generating activities						
	<i>CODE</i>	<i>CODE</i>	<i>CODE</i>	<i>CODE</i>	<i>CODE</i>						
	Strongly disagree.....1	Strongly disagree.....1	Strongly disagree.....1	Strongly disagree.....1	Strongly disagree.....1						
	Disagree.....2	Disagree.....2	Disagree.....2	Disagree.....2	Disagree.....2						
	Agree.....3	Agree.....3	Agree.....3	Agree.....3	Agree.....3						
	Strongly agree.....4	Strongly agree.....4	Strongly agree.....4	Strongly agree.....4	Strongly agree.....4						
	I don't know.....'99'	I don't know.....'99'	I don't know.....'99'	I don't know.....'99'	I don't know.....'99'						
<i>CODE</i>	<i>CODE</i>	<i>CODE</i>	<i>CODE</i>	<i>FOR ANY CODE GO TO SECTION 11</i>							



National Bureau of Statistics



United Republic of Tanzania



Rural Energy Agency

ENERGY ACCESS SITUATION SURVEY, 2016-MAINLAND TANZANIA

This information is collected under the Act of the Parliament (Act No. 9 of 2015)

THIS INFORMATION IS STRICTLY CONFIDENTIAL AND IS TO BE USED FOR STATISTICAL PURPOSES ONLY.

COMMUNITY QUESTIONNAIRE

CONFIDENTIAL

SECTION A: COMMUNITY IDENTIFICATION

	CODE	NAME	
1. REGION:	<input type="text"/>	<input type="text"/>	MARK BOX WITH AN 'X' AND NUMBER FORMS BELOW IF YOU USE MORE THAN THIS SINGLE FORM TO COLLECT INFORMATION FROM THE COMMUNITY. IF SO, BE SURE TO MARK IN THE SAME WAY THE OTHER FORMS USED FOR THIS HOUSEHOLD
2. DISTRICT	<input type="text"/>	<input type="text"/>	
3. WARD	<input type="text"/>	<input type="text"/>	
4. ENUMERATION AREA	<input type="text"/>	<input type="text"/>	
5. VILLAGE/STREET NAME	<input type="text"/>	<input type="text"/>	
6. NAME OF RESPONDENT IN A VILLAGE/STREET	<input type="text"/>	<input type="text"/>	FORM ____ OF ____ TOTAL
7. DISIGNATION.		8. RESPONDENT MOBILE NUMBER:	9. DATE OF INTERVIEW
10. GPS, VILLAGE/BLOCK OFFICE	S <input type="text"/>	<input type="text"/>	12. INTERVIEWER FULL NAME:
	E <input type="text"/>	<input type="text"/>	13. SUPERVISORS' NAME:.....
11. INTERVIEW RESULT CODE: Interview complete.....1, Respondent not available/office closed.....2, Incomplete.....3, Refused...4, No right person....5, Other(Specify).....6			

SECTION 2: INFRASTRUCTURES/SERVICES AND ELECTRICITY ACCESS										
		1. Is the service available in this village/Mtaa? YES...1, ASK QUES.4 AND 5 NO...2 ASK QUES.2 AND 3 WRITE CODE	2. IF THE SERVICE/INSTITUTION NOT AVAILABLE IN A VILLAGE/STREET ASK; Cost of transport from village/street centre, one way, per person, by public transport? . TSH	3. What is the distance to this service? KM	4. Total number of the service/institution.	5. Does the institution/office/centre providing service connected to REA/TANESCO electricity? Yes, all connected..1, Yes, some connected...2, Not connected..3, No, all not connected....4, Doesn't apply.....'9998' WRITE CODE				
a.	Distance to Regional Headquarters									
b.	Distance to District Headquarters									
c.	Government Pre-primary school or nursery school-the nearest									
d.	Private Pre-primary school or nursery school-the nearest									
e.	Government primary school-the nearest									
f.	Private Primary school-the nearest									
g.	Government Secondary school-the nearest									
h.	Private Secondary school-the nearest									
i.	Government hospital-the nearest									
j.	Private hospital-the nearest									
k.	Government health centre-the nearest									
l.	Private health centre-the nearest									
m.	Government dispensary-the nearest									
n.	Private dispensary-the nearest									
o.	Market (daily)									
p.	Major employer (Production/Manufacturing/Processing Industry, Business, etc)									
q.	Mosques and churches									
r.	Shop (s)									
s.	Grain grinding/milling machine-the nearest									
t.	Bank-the nearest									
u.	ATM									
v.	Mobile Money Agent Point (MPESA, Tigo Pesa, etc)									
w.	SACCOs-the nearest									
x.	Water wells using electricity powered motor pumps									
y.	Hand pumped water wells									
z.	Police station or post-the nearest									
aa.	Court (primary)-the nearest									
ab.	Post office-the nearest									

		1.	2.	3.	4.	5.
		Is the service available in this village/Mtaa? YES...1, ASK QUES.4 AND 5 NO...2 ASK QUES.2 AND 3 WRITE CODE	IF THE SERVICE/INSTITUTION NOT AVAILABLE IN A VILLAGE/STREET ASK; Cost of transport from village/street centre, one way, per person, by public transport? . TSH	What is the distance to this service? KM	Total number of the service/institution.	Does the institution/office/centre providing service connected to REA/TANESCO electricity? Yes, all connected..1, Yes, some connected...2, Not connected..3, No, all not connected....4, Doesn't apply.....'9998' WRITE CODE
ac.	Community/Publicly owned tap water-the nearest					
ad.	Guest house (s)					
ae.	Carpentry workshops					
af.	Welding workshops					
ag.	Barber shop(s)					
ah.	Air dressing salon(s)					
ai.	Recreation places(e.g music hall/restraurant, groceries)					
	Livestock Services:					
aj.	Slaughter slabs/House					
ak.	Veterinary centre/clinic					
al.	Dip tank					
am	Primary market for Livestock					
an	Charcos dam					
ao	Hide and skins bandas					
ap	Milk collection center					
GO TO SECTION 3 → → →						

SECTION 3: INVESTMENT PROJECTS, NGO ACTIVITIES AND EMPLOYMENT OPPORTUNITIES CREATED THROUGH INVESTMENT PROJECTS				
	1. Has this village/mtaa implemented any of the following, in 2015 OR 2016? YES.....1 NO...2 ▶NEXT ROW CODE	2. Did project funds come from any of the following sources in 2015 or 2016? CIRCLE ALL THAT APPLY. IF "1" IS NOT CIRCLED IN A ROW QUESTION OR IS NOT AMONG THE CODES CIRCLED IN A ROW QUESTION; GO TO QUESTION 4. OTHERWISE, ASK QUESTION 3 REA/TANESCO.....1 PEDP.....2 TASAF.....3 PADEP.....4 District/ municipality/ city.....5 Central Government.....6 NGO.....7 International Organization.....8 Other (specify).....9	3. THIS QUESTION WILL ONLY BE ANSWERED IF: '1' IS THE ONLY CODE IN EACH ROW IN QUEST. 2 OR "1" IS AMONG THE CODES IN EACH ROW IN QUESTION. 2; ASK THIS AND THE NEXT QUESTION Did REA/TANESCO projects created employment in this village/street in 2015 OR 2016? Yes, Temporary only.....1 Yes, Permanent only.....2 Yes, both temporary and permanent.....3 No emplotment created by TANESCO/REA.....4 CODE	4. Is there any projects funded by either of the following source(s) created temporary or permanent employment in this village/street in 2015 or 2016? PEDP. TASAF PADEP District/ municipality/ city Central Government NGO International Organization Other (specify) YES.....1 NO.....2 I DON'T KNOW.."9998" WRITE CODE THAT APPLY
a.	Village/Mtaa electrification project			
b.	Village/Mtaa solar power project			
c.	Village/Mtaa biogas project			
d.	Road construction, maintenance & rehabilitation			
e.	Markets: construction, maintenance & rehabilitation			
f.	Water supply: digging well, installing pump, etc.			
g.	School construction: pre-primary			
h.	School maintenance: pre-primary			
i.	School construction: primary			
j.	School maintenance: primary			
k.	School construction: secondary			
l.	School maintenance: secondary			
m.	Health centre or dispensary: construction			
n.	Health centre or dispensary: maintenance			
o.	Irrigation schemes			
p.	Livestock Infrastructure (Vet centre, dip tanks etc).			
q.	Grain storage facilities: community level			
				GO TO SECTION 4 →→

SECTION 4: ECONOMIC ACTIVITIES AND DAILY WAGES			
Mani economic activity		Main source of Daily wage	
1.		2	
Which of the following activities is the MAIN economic activity that majority of people in this village/street?		Which of the following is the MAIN source of daily wage of the majority of people in this village/mtaa?	
CIRCLE ONLY ONE CODE THAT MOST APPLY		CIRCLE ONLY ONE CODE THAT MOST APPLY	
<p><u>Question 1: Main economic activity</u></p> Wage labor (Farm/Livestock).....1 Wage labor (Non farm/Non-Livestock) ..2 Salaried Employee.....3 Self employed (Farm/Livestock)4 Self employed/ Employed enterprise...5 Transport Owner/Business.....6 Self employed (Fishing)7 Wage labor (Fishing)8 Hawker/Vender.....9 Domestic help.....10 Carpentry/Masonry.....11 Electrician/Repair work.....12 Self employed (Forest products)....13 Wage labor (Forest products)14 Self employed (Bodaboda).....15 Wage labor (Bodaboda).....16 Other (Specify)17		<p><u>Question 2: Main source of Daily wage</u></p> Road and building Construction activities.....1 Farming/Livestock activities.....2 Business and industry activities.....3 Transportation and communication activities.....4 Tourism activities.....5 Forest/Environment activities.....6 Mining, oil and gas activities.....7 Energy activities.....8 Health, education and water service provision activities.....9 Other (Specify).....10	
		GO TO SECTION 5 →→	

SECTION 5: MARKET PRICES OF ALTERNATIVE ENERGIES				Note			
INTERVIEWER: COLLECT/ASK THE CURRENT MARKET PRICES OF THE FOLLOWING ALTERNATIVE ENERGIES. THE PRICES HAVE TO BE COLLECTED IN THE VILLAGE/MTAA AND DISTRICT CAPITAL				Respondent in this section is any whole/retail seller of alternative energy sources in a Village/Mtaa AND at District capital			
		Source of prices:		Please record the GPS location of the place where quotes/prices were taken. (For a marketplace or group of shops, one GPS reading for the location is sufficient.)			
		MARKETPLACE.....1 SHOPS/STALLS.....2 OTHER, SPECIFY...3		GPS COORDINATES OF LOCATION			
Source of prices within the village/ mtaa				S	°	'	''
				E	°	'	''
Source of prices in the district capital				S	°	'	''
				E	°	'	''
CODES FOR UNIT		Wherever available, fill in selling prices of alternative energies both at village /mtaa level and at the district capital.					
Kilogram.....1 Litre.....2 Bundle/pieces.....3 Carrier bag.....4							
Ask Local leader before going to whole/retail seller		IN THE VILLAGE / MTA A		IN THE DISTRICT CAPITAL			
Does the following energy sources sold at District capital/Village/Street? Yes..1, ask, No...2 Go next CIRCLE THAT APPLY		UNIT	Quantity/Size/Voltage	PRICE	UNIT	Quantity/Size /Voltage	PRICE
Kerosine: Yes....1 No.....2							
Charcoal: Yes....1 No.....2							
Firewood: Yes....1 No.....2							
Wood dust: Yes....1 No.....2							
Crop residue: Yes....1 No.....2							
Torch Battery (i.e Size A battery): Yes..1 No..2							
Car battery (i.e, 12 volts): Yes....1 No.....2							
Motor cycle/Tricycle battery (12 volts): Yes 1 No...2							
Solar panel Yes...1 No... 2		Price-smallest size panel					
		Price-largest size panel					
Hydropower electricity: Yes....1 No.....2							
Generator Yes...1 No..2		Price-smallest size generator					
		Price-largest size generator					
Wind mill equipment Yes...1 No.....2		Price of smallest equipment					
		Price of largest equipment					
GO TO SECTION 6 →→							

SECTION 6: VILLAGE/STREET LEADER COMMENTS ON ELECTRICITY ISSUES							
--	--	--	--	--	--	--	--

SECTION 6(i) INTERVIEWER COMMENT							
---	--	--	--	--	--	--	--
