# Exploring Kenya's Inequality

Pulling Apart or Pooling Together?



#### **Published by**



Society for International Development – East Africa

P.O. Box 2404-00100 Nairobi, Kenya

Email: sidea@sidint.org | Website: www.sidint.net



P.O. Box 30266-00100 Nairobi, Kenya

Email: info@knbs.or.ke Website: www.knbs.or.ke

© 2013 Kenya National Bureau of Statistics (KNBS) and Society for International Development (SID)

ISBN - 978 - 9966 - 029 - 18 - 8

With funding from DANIDA through Drivers of Accountability Programme



The publication, however, remains the sole responsibility of the Kenya National Bureau of Statistics (KNBS) and the Society for International Development (SID).

Written by: Eston Ngugi

Data and tables generation: Samuel Kipruto

Paul Samoei

Maps generation: George Matheka Kamula

Technical Input and Editing: Katindi Sivi-Njonjo

Jason Lakin

Copy Editing: Ali Nadim Zaidi

Leonard Wanyama

Design, Print and Publishing: Ascent Limited

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form, or by any means electronic, mechanical, photocopying, recording or otherwise, without the prior express and written permission of the publishers. Any part of this publication may be freely reviewed or quoted provided the source is duly acknowledged. It may not be sold or used for commercial purposes or for profit.



# **Table of contents**

Table of contents	iii
Foreword	iv
Acknowledgements	V
Striking features on inter-county inequalities in Kenya	vi
List of Figures	vi
List Annex Tables	ix
Abbreviations	xi
Introduction	2
Nyamira County	9

# **Foreword**

Kenya, like all African countries, focused on poverty alleviation at independence, perhaps due to the level of vulnerability of its populations but also as a result of the 'trickle down' economic discourses of the time, which assumed that poverty rather than distribution mattered – in other words, that it was only necessary to concentrate on economic growth because, as the country grew richer, this wealth would trickle down to benefit the poorest sections of society. Inequality therefore had a very low profile in political, policy and scholarly discourses. In recent years though, social dimensions such as levels of access to education, clean water and sanitation are important in assessing people's quality of life. Being deprived of these essential services deepens poverty and reduces people's well-being. Stark differences in accessing these essential services among different groups make it difficult to reduce poverty even when economies are growing. According to the *Economist* (June 1, 2013), a 1% increase in incomes in the most unequal countries produces a mere 0.6 percent reduction in poverty. In the most equal countries, the same 1% growth yields a 4.3% reduction in poverty. Poverty and inequality are thus part of the same problem, and there is a strong case to be made for both economic growth and redistributive policies. From this perspective, Kenya's quest in vision 2030 to grow by 10% per annum must also ensure that inequality is reduced along the way and all people benefit equitably from development initiatives and resources allocated.

Since 2004, the Society for International Development (SID) and Kenya National Bureau of Statistics (KNBS) have collaborated to spearhead inequality research in Kenya. Through their initial publications such as 'Pulling Apart: Facts and Figures on Inequality in Kenya,' which sought to present simple facts about various manifestations of inequality in Kenya, the understanding of Kenyans of the subject was deepened and a national debate on the dynamics, causes and possible responses started. The report 'Geographic Dimensions of Well-Being in Kenya: Who and Where are the Poor?' elevated the poverty and inequality discourse further while the publication 'Readings on Inequality in Kenya: Sectoral Dynamics and Perspectives' presented the causality, dynamics and other technical aspects of inequality.

KNBS and SID in this publication go further to present monetary measures of inequality such as expenditure patterns of groups and non-money metric measures of inequality in important livelihood parameters like employment, education, energy, housing, water and sanitation to show the levels of vulnerability and patterns of unequal access to essential social services at the national, county, constituency and ward levels.

We envisage that this work will be particularly helpful to county leaders who are tasked with the responsibility of ensuring equitable social and economic development while addressing the needs of marginalized groups and regions. We also hope that it will help in informing public engagement with the devolution process and be instrumental in formulating strategies and actions to overcome exclusion of groups or individuals from the benefits of growth and development in Kenya.

It is therefore our great pleasure to present 'Exploring Kenya's inequality: Pulling apart or pooling together?'

#### Ali Hersi

Society for International Development (SID) Regional Director



# Acknowledgements

Kenya National Bureau of Statistics (KNBS) and Society for International Development (SID) are grateful to all the individuals directly involved in the publication of *'Exploring Kenya's Inequality: Pulling Apart or Pulling Together?'* books. Special mention goes to Zachary Mwangi (KNBS, Ag. Director General) and Ali Hersi (SID, Regional Director) for their institutional leadership; Katindi Sivi-Njonjo (SID, Programme Director) and Paul Samoei (KNBS) for the effective management of the project; Eston Ngugi; Tabitha Wambui Mwangi; Joshua Musyimi; Samuel Kipruto; George Kamula; Jason Lakin; Ali Zaidi; Leonard Wanyama; and Irene Omari for the different roles played in the completion of these publications.

KNBS and SID would like to thank Bernadette Wanjala (KIPPRA), Mwende Mwendwa (KIPPRA), Raphael Munavu (CRA), Moses Sichei (CRA), Calvin Muga (TISA), Chrispine Oduor (IEA), John T. Mukui, Awuor Ponge (IPAR, Kenya), Othieno Nyanjom, Mary Muyonga (SID), Prof. John Oucho (AMADPOC), Ms. Ada Mwangola (Vision 2030 Secretariat), Kilian Nyambu (NCIC), Charles Warria (DAP), Wanjiru Gikonyo (TISA) and Martin Napisa (NTA), for attending the peer review meetings held on 3<sup>rd</sup> October 2012 and Thursday, 28<sup>th</sup> Feb 2013 and for making invaluable comments that went into the initial production and the finalisation of the books. Special mention goes to Arthur Muliro, Wambui Gathathi, Con Omore, Andiwo Obondoh, Peter Gunja, Calleb Okoyo, Dennis Mutabazi, Leah Thuku, Jackson Kitololo, Yvonne Omwodo and Maureen Bwisa for their institutional support and administrative assistance throughout the project. The support of DANIDA through the Drivers of Accountability Project in Kenya is also gratefully acknowledged.

Stefano Prato Managing Director, SID



# Striking Features on Intra-County Inequality in Kenya

Inequalities within counties in all the variables are extreme. In many cases, Kenyans living within a single county have completely different lifestyles and access to services.

#### Income/expenditure inequalities

- 1. The five counties with the worst income inequality (measured as a ratio of the top to the bottom decile) are in Coast. The ratio of expenditure by the wealthiest to the poorest is 20 to one and above in Lamu, Tana River, Kwale, and Kilifi. This means that those in the top decile have 20 times as much expenditure as those in the bottom decile. This is compared to an average for the whole country of nine to one.
- 2. Another way to look at income inequality is to compare the mean expenditure per adult across wards within a county. In 44 of the 47 counties, the mean expenditure in the poorest wards is less than 40 percent the mean expenditure in the wealthiest wards within the county. In both Kilifi and Kwale, the mean expenditure in the poorest wards (Garashi and Ndavaya, respectively) is less than 13 percent of expenditure in the wealthiest ward in the county.
- 3. Of the five poorest counties in terms of mean expenditure, four are in the North (Mandera, Wajir, Turkana and Marsabit) and the last is in Coast (Tana River). However, of the five most unequal counties, only one (Marsabit County) is in the North (looking at ratio of mean expenditure in richest to poorest ward). The other four most unequal counties by this measure are: Kilifi, Kwale, Kajiado and Kitui.
- 4. If we look at Gini coefficients for the whole county, the most unequal counties are also in Coast: Tana River (.631), Kwale (.604), and Kilifi (.570).
- 5. The most equal counties by income measure (ratio of top decile to bottom) are: Narok, West Pokot, Bomet, Nandi and Nairobi. Using the ratio of average income in top to bottom ward, the five most equal counties are: Kirinyaga, Samburu, Siaya, Nyandarua, Narok.

#### **Access to Education**

- 6. Major urban areas in Kenya have high education levels but very large disparities. Mombasa, Nairobi and Kisumu all have gaps between highest and lowest wards of nearly 50 percentage points in share of residents with secondary school education or higher levels.
- 7. In the 5 most rural counties (Baringo, Siaya, Pokot, Narok and Tharaka Nithi), education levels are lower but the gap, while still large, is somewhat lower than that espoused in urban areas. On average, the gap in these 5 counties between wards with highest share of residents with secondary school or higher and those with the lowest share is about 26 percentage points.
- 8. The most extreme difference in secondary school education and above is in Kajiado County where the top ward (Ongata Rongai) has nearly 59 percent of the population with secondary education plus, while the bottom ward (Mosiro) has only 2 percent.
- 9. One way to think about inequality in education is to compare the number of people with no education



to those with some education. A more unequal county is one that has large numbers of both. Isiolo is the most unequal county in Kenya by this measure, with 51 percent of the population having no education, and 49 percent with some. This is followed by West Pokot at 55 percent with no education and 45 percent with some, and Tana River at 56 percent with no education and 44 with some.

# **Access to Improved Sanitation**

- 10. Kajiado County has the highest gap between wards with access to improved sanitation. The best performing ward (Ongata Rongai) has 89 percent of residents with access to improved sanitation while the worst performing ward (Mosiro) has 2 percent of residents with access to improved sanitation, a gap of nearly 87 percentage points.
- 11. There are 9 counties where the gap in access to improved sanitation between the best and worst performing wards is over 80 percentage points. These are Baringo, Garissa, Kajiado, Kericho, Kilifi, Machakos, Marsabit, Nyandarua and West Pokot.

### **Access to Improved Sources of Water**

12. In all of the 47 counties, the highest gap in access to improved water sources between the county with the best access to improved water sources and the least is over 45 percentage points. The most severe gaps are in Mandera, Garissa, Marsabit, (over 99 percentage points), Kilifi (over 98 percentage points) and Wajir (over 97 percentage points).

# **Access to Improved Sources of Lighting**

13. The gaps within counties in access to electricity for lighting are also enormous. In most counties (29 out of 47), the gap between the ward with the most access to electricity and the least access is more than 40 percentage points. The most severe disparities between wards are in Mombasa (95 percentage point gap between highest and lowest ward), Garissa (92 percentage points), and Nakuru (89 percentage points).

# **Access to Improved Housing**

14. The highest extreme in this variable is found in Baringo County where all residents in Silale ward live in grass huts while no one in Ravine ward in the same county lives in grass huts.

# Overall ranking of the variables

15. Overall, the counties with the most income inequalities as measured by the gini coefficient are Tana River, Kwale, Kilifi, Lamu, Migori and Busia. However, the counties that are consistently mentioned among the most deprived hence have the lowest access to essential services compared to others across the following nine variables i.e. poverty, mean household expenditure, education, work for pay, water, sanitation, cooking fuel, access to electricity and improved housing are Mandera (8 variables), Wajir (8 variables), Turkana (7 variables) and Marsabit (7 variables).



# **Abbreviations**

**AMADPOC** African Migration and Development Policy Centre

CRA Commission on Revenue Allocation

**DANIDA** Danish International Development Agency

**DAP** Drivers of Accountability Programme

**EAS** Enumeration Areas

**HDI** Human Development Index

IBP International Budget Partnership

IEA Institute of Economic Affairs

IPAR Institute of Policy Analysis and Research

KIHBS Kenya Intergraded Household Budget Survey

**KIPPRA** Kenya Institute for Public Policy Research and Analysis

**KNBS** Kenya National Bureau of Statistics

**LPG** Liquefied Petroleum Gas

NCIC National Cohesion and Integration Commission

NTA National Taxpayers Association

**PCA** Principal Component Analysis

**SAES** Small Area Estimation

SID Society for International Development

TISA The Institute for Social Accountability

VIP latrine Ventilated-Improved Pit latrine

**VOCs** Volatile Organic Carbons

WDR World Development Report

# Introduction

# **Background**

For more than half a century many people in the development sector in Kenya have worked at alleviating extreme poverty so that the poorest people can access basic goods and services for survival like food, safe drinking water, sanitation, shelter and education. However when the current national averages are disaggregated there are individuals and groups that still lag too behind. As a result, the gap between the rich and the poor, urban and rural areas, among ethnic groups or between genders reveal huge disparities between those who are well endowed and those who are deprived.

According to the world inequality statistics, Kenya was ranked 103 out of 169 countries making it the 66th most unequal country in the world. Kenya's Inequality is rooted in its history, politics, economics and social organization and manifests itself in the lack of access to services, resources, power, voice and agency. Inequality continues to be driven by various factors such as: social norms, behaviours and practices that fuel discrimination and obstruct access at the local level and/ or at the larger societal level; the fact that services are not reaching those who are most in need of them due to intentional or unintentional barriers; the governance, accountability, policy or legislative issues that do not favor equal opportunities for the disadvantaged; and economic forces i.e. the unequal control of productive assets by the different socio-economic groups.

According to the 2005 report on the World Social Situation, sustained poverty reduction cannot be achieved unless equality of opportunity and access to basic services is ensured. Reducing inequality must therefore be explicitly incorporated in policies and programmes aimed at poverty reduction. In addition, specific interventions may be required, such as: affirmative action; targeted public investments in underserved areas and sectors; access to resources that are not conditional; and a conscious effort to ensure that policies and programmes implemented have to provide equitable opportunities for all.

This chapter presents the basic concepts on inequality and poverty, methods used for analysis, justification and choice of variables on inequality. The analysis is based on the 2009 Kenya housing and population census while the 2006 Kenya integrated household budget survey is combined with census to estimate poverty and inequality measures from the national to the ward level. Tabulation of both money metric measures of inequality such as mean expenditure and non-money metric measures of inequality in important livelihood parameters like, employment, education, energy, housing, water and sanitation are presented. These variables were selected from the census data and analyzed in detail and form the core of the inequality reports. Other variables such as migration or health indicators like mortality, fertility etc. are analyzed and presented in several monographs by Kenya National Bureau of Statistics and were therefore left out of this report.

# Methodology

#### Gini-coefficient of inequality

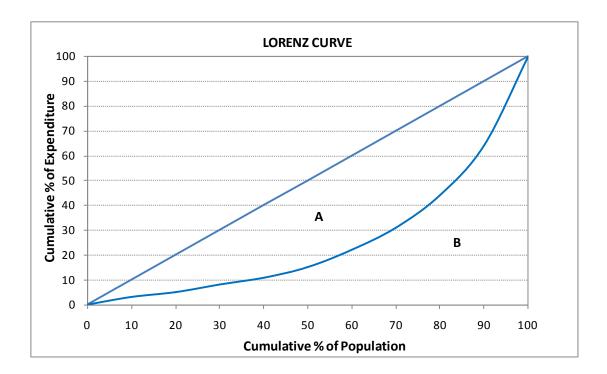
This is the most commonly used measure of inequality. The coefficient varies between '0', which reflects complete equality and '1' which indicates complete inequality. Graphically, the Gini coefficient can be



easily represented by the area between the Lorenz curve and the line of equality. On the figure below, the Lorenz curve maps the cumulative income share on the vertical axis against the distribution of the population on the horizontal axis. The Gini coefficient is calculated as the area (A) divided by the sum of areas (A and B) i.e. A/(A+B). If A=0 the Gini coefficient becomes 0 which means perfect equality, whereas if B=0 the Gini coefficient becomes 1 which means complete inequality. Let xi be a point on the X-axis, and yi a point on the Y-axis, the Gini coefficient formula is:

$$Gini = 1 \prod_{i=1}^{N} (x_i \prod x_{i \square 1}) (y_i + y_{i \square 1}).$$

An Illustration of the Lorenz Curve



#### Small Area Estimation (SAE)

The small area problem essentially concerns obtaining reliable estimates of quantities of interest — totals or means of study variables, for example — for geographical regions, when the regional sample sizes are small in the survey data set. In the context of small area estimation, an area or domain becomes small when its sample size is too small for direct estimation of adequate precision. If the regional estimates are to be obtained by the traditional direct survey estimators, based only on the sample data from the area of interest itself, small sample sizes lead to undesirably large standard errors for them. For instance, due to their low precision the estimates might not satisfy the generally accepted publishing criteria in official statistics. It may even happen that there are no sample members at all from some areas, making the direct estimation impossible. All this gives rise to the need of special small area estimation methodology.

Most of KNBS surveys were designed to provide statistically reliable, design-based estimates only at the national, provincial and district levels such as the Kenya Intergraded Household Budget Survey of 2005/06 (KIHBS). The sheer practical difficulties and cost of implementing and conducting sample surveys that would provide reliable estimates at levels finer than the district were generally prohibitive, both in terms of the increased sample size required and in terms of the added burden on providers of survey data (respondents). However through SAE and using the census and other survey datasets, accurate small area poverty estimates for 2009 for all the counties are obtainable.

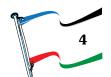
The sample in the 2005/06 KIHBS, which was a representative subset of the population, collected detailed information regarding consumption expenditures. The survey gives poverty estimate of urban and rural poverty at the national level, the provincial level and, albeit with less precision, at the district level. However, the sample sizes of such household surveys preclude estimation of meaningful poverty measures for smaller areas such as divisions, locations or wards. Data collected through censuses are sufficiently large to provide representative measurements below the district level such as divisions, locations and sub-locations. However, this data does not contain the detailed information on consumption expenditures required to estimate poverty indicators. In small area estimation methodology, the first step of the analysis involves exploring the relationship between a set of characteristics of households and the welfare level of the same households, which has detailed information about household expenditure and consumption. A regression equation is then estimated to explain daily per capita consumption and expenditure of a household using a number of socio-economic variables such as household size, education levels, housing characteristics and access to basic services.

While the census does not contain household expenditure data, it does contain these socio-economic variables. Therefore, it will be possible to statistically impute household expenditures for the census households by applying the socio-economic variables from the census data on the estimated relationship based on the survey data. This will give estimates of the welfare level of all households in the census, which in turn allows for estimation of the proportion of households that are poor and other poverty measures for relatively small geographic areas. To determine how many people are poor in each area, the study would then utilize the 2005/06 monetary poverty lines for rural and urban households respectively. In terms of actual process, the following steps were undertaken:

**Cluster Matching:** Matching of the KIHBS clusters, which were created using the 1999 Population and Housing Census Enumeration Areas (EA) to 2009 Population and Housing Census EAs. The purpose was to trace the KIBHS 2005/06 clusters to the 2009 Enumeration Areas.

**Zero Stage:** The first step of the analysis involved finding out comparable variables from the survey (Kenya Integrated Household Budget 2005/06) and the census (Kenya 2009 Population and Housing Census). This required the use of the survey and census questionnaires as well as their manuals.

**First Stage (Consumption Model):** This stage involved the use of regression analysis to explore the relationship between an agreed set of characteristics in the household and the consumption levels of the same households from the survey data. The regression equation was then used to estimate and explain daily per capita consumption and expenditure of households using socio-economic variables



such as household size, education levels, housing characteristics and access to basic services, and other auxiliary variables. While the census did not contain household expenditure data, it did contain these socio-economic variables.

**Second Stage (Simulation):** Analysis at this stage involved statistical imputation of household expenditures for the census households, by applying the socio-economic variables from the census data on the estimated relationship based on the survey data.

#### Identification of poor households Principal Component Analysis (PCA)

In order to attain the objective of the poverty targeting in this study, the household needed to be established. There are three principal indicators of welfare; household income; household consumption expenditures; and household wealth. Household income is the theoretical indicator of choice of welfare/economic status. However, it is extremely difficult to measure accurately due to the fact that many people do not remember all the sources of their income or better still would not want to divulge this information. Measuring consumption expenditures has many drawbacks such as the fact that household consumption expenditures typically are obtained from recall method usually for a period of not more than four weeks. In all cases a well planned and large scale survey is needed, which is time consuming and costly to collect. The estimation of wealth is a difficult concept due to both the quantitative as well as the qualitative aspects of it. It can also be difficult to compute especially when wealth is looked at as both tangible and intangible.

Given that the three main indicators of welfare cannot be determined in a shorter time, an alternative method that is quick is needed. The alternative approach then in measuring welfare is generally through the asset index. In measuring the asset index, multivariate statistical procedures such the factor analysis, discriminate analysis, cluster analysis or the principal component analysis methods are used. Principal components analysis transforms the original set of variables into a smaller set of linear combinations that account for most of the variance in the original set. The purpose of PCA is to determine factors (i.e., principal components) in order to explain as much of the total variation in the data as possible.

In this project the principal component analysis was utilized in order to generate the asset (wealth) index for each household in the study area. The PCA can be used as an exploratory tool to investigate patterns in the data; in identify natural groupings of the population for further analysis and; to reduce several dimensionalities in the number of known dimensions. In generating this index information from the datasets such as the tenure status of main dwelling units; roof, wall, and floor materials of main dwelling; main source of water; means of human waste disposal; cooking and lighting fuels; household items such radio TV, fridge etc was required. The recent available dataset that contains this information for the project area is the Kenya Population and Housing Census 2009.

There are four main approaches to handling multivariate data for the construction of the asset index in surveys and censuses. The first three may be regarded as exploratory techniques leading to index construction. These are graphical procedures and summary measures. The two popular multivariate procedures - cluster analysis and principal component analysis (PCA) - are two of the key procedures that have a useful preliminary role to play in index construction and lastly regression modeling approach.

In the recent past there has been an increasing routine application of PCA to asset data in creating welfare indices (Gwatkin et al. 2000, Filmer and Pritchett 2001 and McKenzie 2003).

#### Concepts and definitions

#### Inequality

Inequality is characterized by the existence of unequal opportunities or life chances and unequal conditions such as incomes, goods and services. Inequality, usually structured and recurrent, results into an unfair or unjust gap between individuals, groups or households relative to others within a population. There are several methods of measuring inequality. In this study, we consider among other methods, the Gini-coefficient, the difference in expenditure shares and access to important basic services.

#### **Equality and Equity**

Although the two terms are sometimes used interchangeably, they are different concepts. Equality requires all to have same/ equal resources, while equity requires all to have the same opportunity to access same resources, survive, develop, and reach their full potential, without discrimination, bias, or favoritism. Equity also accepts differences that are earned fairly.

#### Poverty

The poverty line is a threshold below which people are deemed poor. Statistics summarizing the bottom of the consumption distribution (i.e. those that fall below the poverty line) are therefore provided. In 2005/06, the poverty line was estimated at Ksh1,562 and Ksh2,913 per adult equivalent<sup>1</sup> per month for rural and urban households respectively. Nationally, 45.2 percent of the population lives below the poverty line (2009 estimates) down from 46 percent in 2005/06.

#### **Spatial Dimensions**

The reason poverty can be considered a spatial issue is two-fold. People of a similar socio-economic background tend to live in the same areas because the amount of money a person makes usually, but not always, influences their decision as to where to purchase or rent a home. At the same time, the area in which a person is born or lives can determine the level of access to opportunities like education and employment because income and education can influence settlement patterns and also be influenced by settlement patterns. They can therefore be considered causes and effects of spatial inequality and poverty.

#### **Employment**

Access to jobs is essential for overcoming inequality and reducing poverty. People who cannot access productive work are unable to generate an income sufficient to cover their basic needs and those of their families, or to accumulate savings to protect their households from the vicissitudes of the economy.

<sup>&</sup>lt;sup>1</sup>This is basically the idea that every person needs different levels of consumption because of their age, gender, height, weight, etc. and therefore we take this into account to create an adult equivalent based on the average needs of the different populations



The unemployed are therefore among the most vulnerable in society and are prone to poverty. Levels and patterns of employment and wages are also significant in determining degrees of poverty and inequality. Macroeconomic policy needs to emphasize the need for increasing regular good quality 'work for pay' that is covered by basic labour protection. The population and housing census 2009 included questions on labour and employment for the population aged 15-64.

The census, not being a labour survey, only had few categories of occupation which included work for pay, family business, family agricultural holdings, intern/volunteer, retired/home maker, full time student, incapacitated and no work. The tabulation was nested with education- for none, primary and secondary level.

#### Education

Education is typically seen as a means of improving people's welfare. Studies indicate that inequality declines as the average level of educational attainment increases, with secondary education producing the greatest payoff, especially for women (Cornia and Court, 2001). There is considerable evidence that even in settings where people are deprived of other essential services like sanitation or clean water, children of educated mothers have much better prospects of survival than do the children of uneducated mothers. Education is therefore typically viewed as a powerful factor in leveling the field of opportunity as it provides individuals with the capacity to obtain a higher income and standard of living. By learning to read and write and acquiring technical or professional skills, people increase their chances of obtaining decent, better-paying jobs. Education however can also represent a medium through which the worst forms of social stratification and segmentation are created. Inequalities in quality and access to education often translate into differentials in employment, occupation, income, residence and social class. These disparities are prevalent and tend to be determined by socio-economic and family background. Because such disparities are typically transmitted from generation to generation, access to educational and employment opportunities are to a certain degree inherited, with segments of the population systematically suffering exclusion. The importance of equal access to a well-functioning education system, particularly in relation to reducing inequalities, cannot be overemphasized.

#### Water

According to UNICEF (2008), over 1.1 billion people lack access to an improved water source and over three million people, mostly children, die annually from water-related diseases. Water quality refers to the basic and physical characteristics of water that determines its suitability for life or for human uses. The quality of water has tremendous effects on human health both in the short term and in the long term. As indicated in this report, slightly over half of Kenya's population has access to improved sources of water.

#### Sanitation

Sanitation refers to the principles and practices relating to the collection, removal or disposal of human excreta, household waste, water and refuse as they impact upon people and the environment. Decent sanitation includes appropriate hygiene awareness and behavior as well as acceptable, affordable and

sustainable sanitation services which is crucial for the health and wellbeing of people. Lack of access to safe human waste disposal facilities leads to higher costs to the community through pollution of rivers, ground water and higher incidence of air and water borne diseases. Other costs include reduced incomes as a result of disease and lower educational outcomes.

Nationally, 61 percent of the population has access to improved methods of waste disposal. A sizeable population i.e. 39 percent of the population is disadvantaged. Investments made in the provision of safe water supplies need to be commensurate with investments in safe waste disposal and hygiene promotion to have significant impact.

#### **Housing Conditions (Roof, Wall and Floor)**

Housing conditions are an indicator of the degree to which people live in humane conditions. Materials used in the construction of the floor, roof and wall materials of a dwelling unit are also indicative of the extent to which they protect occupants from the elements and other environmental hazards. Housing conditions have implications for provision of other services such as connections to water supply, electricity, and waste disposal. They also determine the safety, health and well being of the occupants. Low provision of these essential services leads to higher incidence of diseases, fewer opportunities for business services and lack of a conducive environment for learning. It is important to note that availability of materials, costs, weather and cultural conditions have a major influence on the type of materials used.

#### Energy fuel for cooking and lighting

Lack of access to clean sources of energy is a major impediment to development through health related complications such as increased respiratory infections and air pollution. The type of cooking fuel or lighting fuel used by households is related to the socio-economic status of households. High level energy sources are cleaner but cost more and are used by households with higher levels of income compared with primitive sources of fuel like firewood which are mainly used by households with a lower socio-economic profile. Globally about 2.5 billion people rely on biomass such as fuel-wood, charcoal, agricultural waste and animal dung to meet their energy needs for cooking.



# **Nyamira County**



#### NYAMIRA COUNTY

Figure 34.1: Nyamira Population Pyramid

Nyamira

Nale

Female

Female

Female

25 20 15 10 5 0 5 10 15 20

Figure 34.1: Nyamira Population Pyramid

# **Population**

Nyamira County has a child rich population, where 0-14 year olds constitute 44% of the total population. This is due to high fertility rates among women as shown by the highest percentage household size of 4-6 memebers at 48%.

# **Employment**

The 2009 population and housing census covered in brief the labour status as tabulated below. The main variable of interest for inequality discussed in the text is work for pay by level of education. The other variables, notably family business, family agricultural holdings, intern/volunteer, retired/homemaker, fulltime student, incapacitated and no work are tabulated and presented in the annex table 34.4 up to ward level.

Table 34: Overall Employment by Education Levels in Nyamira County

Education Level	Work for pay	Family Business	Family Agricul- tural Holding	Intern/ Volunteer	Retired/ Home- maker	Fulltime Student	Incapacitated	No work	Number of Individuals
Total	15.3	9.6	52.8	0.8	2.0	16.3	0.6	2.6	309,931
None	13.3	10.1	65.4	2.1	2.6	0.7	3.0	2.8	18,467
Primary	14.0	8.9	59.4	0.6	1.8	12.8	0.5	1.9	137,307
Secondary+	16.8	10.2	45.3	0.8	2.1	21.4	0.3	3.2	154,157

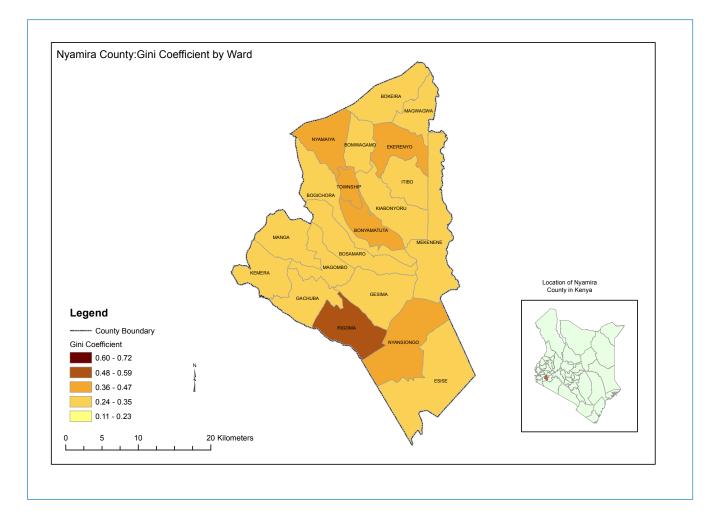
In Nyamira County, 13% of the residents with no formal education 14% of those with primary education and 17% of those with secondary level of education or above are working for pay. Work for pay is highest in Nairobi at 49% and; this is almost thrice the level in Nyamira for those with secondary level of education or above.



#### **Gini Coefficient**

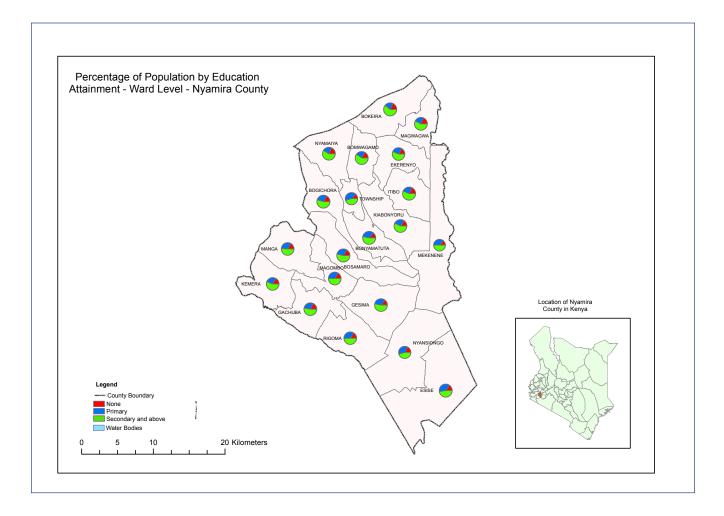
In this report, the Gini index measures the extent to which the distribution of consumption expenditure among individuals or households within an economy deviates from a perfectly equal distribution. A Gini index of '0' represents perfect equality, while an index of '1' implies perfect inequality. Nyamira County's Gini index is 0.394 compared with Turkana County, which has the least inequality nationally (0.283).

Figure 34.2: Nyamira County-Gini Coefficient by Ward



#### **Education**

Figure 34.3: Nyamira County-Percentage of Population by Education Attainment by Ward



A total of 30% of Nyamira county residents have a secondary level of education or above. Borabu constituency has the highest share of residents with a secondary level of education or above at 34%. This is 10 percentage points above North Mugirango constituency, which has the lowest share of residents with a secondary level of education or above. Borabu constituency is 4 percentage points above the county average. Township ward has the highest share of residents with a secondary level of education or above at 42%. This is 21 percentage points above Bokeira ward, which has the lowest share of residents with a secondary level of education or above. Township ward is 12 percentage points above the county average.

A total of 54% of Nyamira County residents have a primary level of education only. North Mugirango constituency has the highest share of residents with a primary level of education only at 58%. This is 7 percentage points above Borabu constituency, which has the lowest share of residents with a primary level of education only. North Mugirango constituency is 4 percentage points above the county average. Bokiera ward has the highest share of residents with a primary level of education only at 61%. This is 15 percentage points above Township ward, which has the lowest share of residents with a primary level of education only. Bokiera ward is 7 percentage points above the county average.

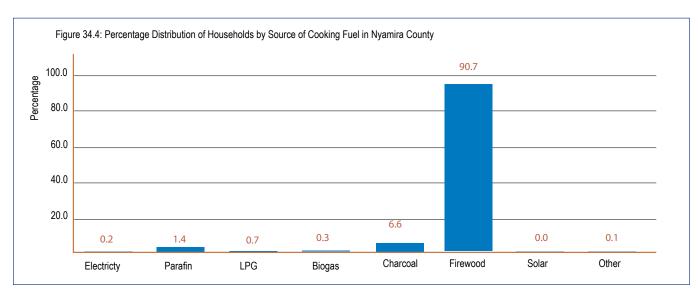
A total of 16% of Nyamira County residents have no formal education. North Mugirango constituency has the highest share of residents with no formal education at 18%. This is 2 percentage points above Borabu constituency, which has the lowest share of residents with no formal education. North Mugirango constituency is 2 percentage points above the county average. Magwagwa ward has the highest percentage of residents with no formal education at 19%. This is 6 percentage points above Township ward, which has the lowest percentage of residents with no formal education. Magwagwa ward is 3 percentage points above the county average.



# **Energy**

#### **Cooking Fuel**

Figure 34.4: Percentage Distribution of Households by Source of Cooking Fuel in Nyamira County



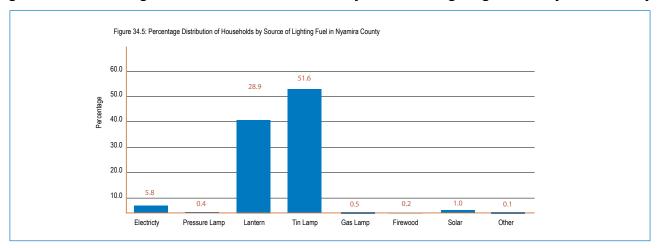
Just 1% of residents in Nyamira County use liquefied petroleum gas (LPG), and 1% use paraffin. 91% use firewood and 7% use charcoal. Firewood is the most common cooking fuel by gender; 90% in male and 92% in female headed households.

North Mugirango constituency has the highest level of firewood use in Nyamira County at 95%. This is 6 percentage points above West Mugirango constituency, which has the lowest share. North Mugirango constituency is 4 percentage points above the county average. Gachuba ward has the highest level of firewood use in Nyamira County at 98%. This is 39 percentage points above Township Town ward, which has the lowest share. Gachuba ward is 7 percentage points above the county average.

Borabu constituency has the highest level of charcoal use in Nyamira County at 8%. This is 4 percentage points above North Mugirango constituency, which has the lowest share. Borabu constituency is 1 percentage points above the county average. Township ward has the highest level of charcoal use in Nyamira County at 28%. This is 14 times Bomwagamo ward, which has the lowest share. Township ward is 21 percentage points above the county average.

#### Lighting

Figure 34.5: Percentage Distribution of Households by Source of Lighting Fuel in Nyamira County



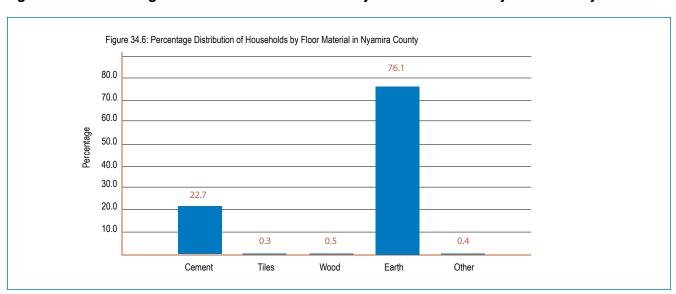
Only 6% of residents in Nyamira County use electricity as their main source of lighting. A further 40% use lanterns, and 52% use tin lamps. Less than 1% use fuel wood. Electricity use is almost equal by gender: 6% in male compared with 5% in female headed households.

Borabu constituency has the highest level of electricity use at 8%. That is 4 percentage points above North Mugirango constituency, which has the lowest level of electricity use. Borabu constituency is 2 percentage points above the county average. Township ward with the highest level of electricity use is 31%. That is 30 percentage points above Gachuba ward, which has the lowest level of electricity use. Township ward is 25 percentage points above the county average.

## Housing

#### **Flooring**

Figure 34.6: Percentage Distribution of Households by Floor Material in Nyamira County



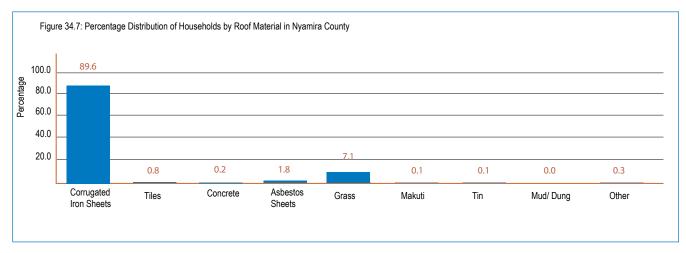
In Nyamira County, 23% of residents have homes with cement floors, while 76% have earth floors. Less than 1% has tile and 1% has wood floors. Borabu constituency has the highest share of cement floors at 35%. That is 21 percentage points above North Mugirango constituency, which has the lowest share of cement floors. Borabu constituency is 12 percentage points above the county average. Mekenene ward has the highest share



of cement floors at 61%. That is seven times Bomwagamo ward, which has the lowest share of cement floors. Mekenene ward is 38 percentage points above the county average.

#### Roofing

Figure 34.7: Percentage Distribution of Households by Roof Material in Nyamira County



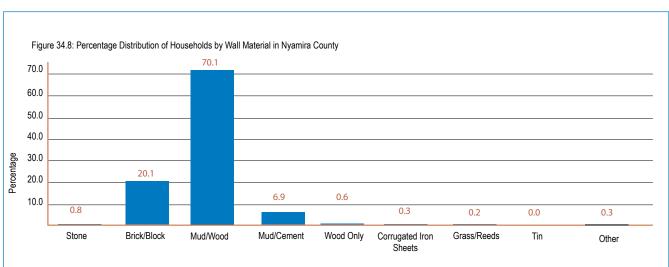
In Nyamira County, less than 1% of residents have homes with concrete roofs, while 90% have corrugated iron roofs. Grass and makuti roofs constitute 7% of homes, and none have mud/dung roofs.

West Mugirango constituency has the highest share of corrugated iron sheet roofs at 92%. That is 5 percentage points above Kitutu Masaba constituency, which has the lowest share of corrugated iron sheet roofs. West Mugirango constituency is 2 percentage points above the county average. Bonyamatuta ward has the highest share of corrugated iron sheet roofs at 95%. That is 12 percentage points above Mekenene ward has the lowest share of corrugated iron sheet roofs. Bonyamatuta ward is 5 percentage points above the county average.

Kitutu Masaba constituency has the highest share of grass/makuti roofs at 10%. That is 5 percentage points above West Mugirango constituency has the lowest share of grass/makuti roofs. Kitutu Masaba constituency is 3 percentage points above the county average. Gachuba ward with the highest share of grass/makuti roofs at 12%. This is 11 percentage points above Township ward, which has the lowest share. Gachuba ward is 5 percentage points above the county average.

#### Walls

Figure 34.8: Percentage Distribution of Households by Wall Material in Nyamira County



In Nyamira County, 21% of homes have either brick or stone walls. 78% of homes have mud/wood or mud/cement walls. 1% has wood walls. Less than 1% has corrugated iron walls. Less than 1% has grass/thatched walls. Less than 1% has tin or other walls.

Borabu constituency has the highest share of brick/stone walls at 33%. That is 22 percentage points above North Mugirango constituency, which has the lowest share of brick/stone walls. Borabu constituency is 12 percentage points above the county average. Mekenene ward has the highest share of brick/stone walls at 60%. That is 12 times Bomwagamo ward has the lowest share of brick/stone walls. Mekenene ward is 39 percentage points above the county average.

North Mugirango constituency has the highest share of mud with wood/cement walls at 88%. That is 24 percentage points above Borabu constituency, which has the lowest share of mud with wood/cement. North Mugirango constituency is 10 percentage points above the county average. Bomwagamo ward has the highest share of mud with wood/cement walls at 95%. That is almost thrice Mekenene ward, which has the lowest share of mud with wood/cement walls. Bomwagamo ward is 17 percentage points above the county average.

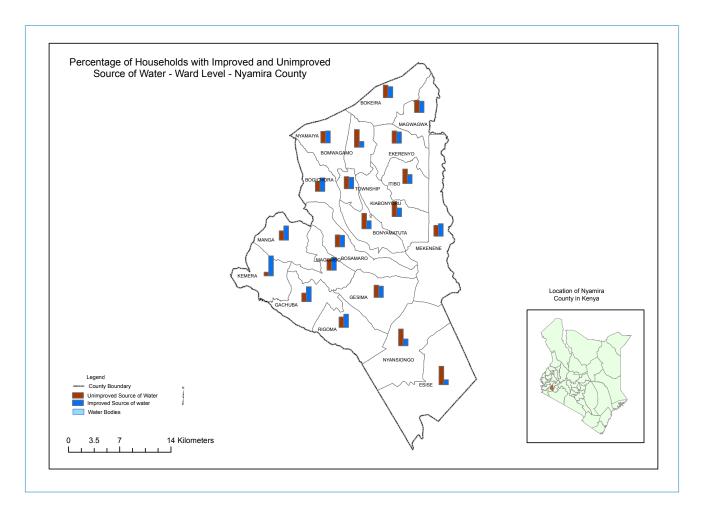
#### Water

Improved sources of water comprise protected spring, protected well, borehole, piped into dwelling, piped and rain water collection while unimproved sources include pond, dam, lake, stream/river, unprotected spring, unprotected well, jabia, water vendor and others.

In Nyamira County, 49% of residents use improved sources of water, with the rest relying on unimproved sources. There is no gender differential in use of improved sources with both male and female headed households at 49% in each.

Kitutu Masaba constituency has the highest share of residents using improved sources of water at 61%. That is almost twice Borabu constituency, which has the lowest share using improved sources of water. Kitutu constituency is 12 percentage points above the county average. Kemera ward has the highest share of residents using improved sources of water at 85%. That is four times Esise ward, which has the lowest share using improved sources of water. Kemera ward is 36 percentage points above the county average.

Figure 34.9: Nyamira County-Percentage of Households with Improved and Unimproved Sources of Water by Ward

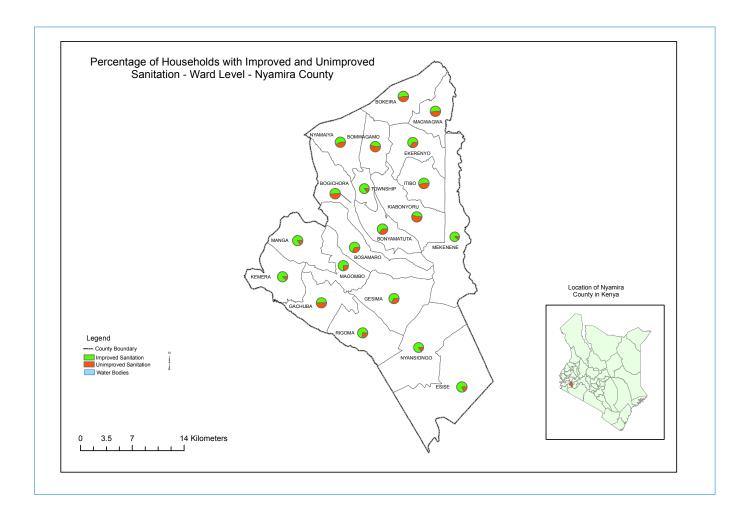


#### **Sanitation**

A total of 67% of residents in Nyamira County use improved sanitation, while the rest use unimproved sanitation. Use of improved sanitation is almost similar by gender with female headed households at 66% as compared with male headed households at 67%.

Kitutu Masaba constituency has the highest share of residents using improved sanitation at 74%. That is 18 percentage points above North Mugirango constituency, which has the lowest share using improved sanitation. Kitutu Masaba constituency is 7 percentage points above the county average. Mekenene ward has the highest share of residents using improved sanitation at 89%. That is twice Kiabonyoru ward, which has the lowest share using improved sanitation. Mekenene ward is 22 percentage points above the county average.

Figure 34.10: Nyamira County –Percentage of Households with Improved and Unimproved Sanitation by Ward



# **Nyamira County Annex Tables**

Table 34.1: Gender, Age group, Demographic Indicators and Households Size by County, Constituency and Wards

	Gender			Age group						Demograi	Demographic indicators	fors		rortion	Prortion of HH Members:	mbers:	
County/Constituency/Wards	Total Pop	Male	Female	0-5 yrs	0-14 yrs	10-18 yrs	15-34 yrs	15-64 yrs	65+ yrs	sex Ratio	Total depen- dancy Ratio	D # T T > 0	aged de- pen- dancy ratio	63	4-6	t.	total
Kenya	37,919,647	18,787,698	19,131,949	7,035,670	16,346,414	8,293,207	13,329,717	20,249,800	1,323,433	0.982	0.873	0.807	0.065	41.5	38.4	20.1	8,493,380
Rural	26,075,195	12,869,034	13,206,161	5,059,515	12,024,773	6,134,730	8,303,007	12,984,788	1,065,634	0.974	1.008	0.926	0.082	33.2	41.3	25.4	5,239,879
Urban	11,844,452	5,918,664	5,925,788	1,976,155	4,321,641	2,158,477	5,026,710	7,265,012	257,799	0.999	0.630	0.595	0.035	54.8	33.7	11.5	3,253,501
Nyamira County	592,249	284,473	307,776	115,609	261,563	133,491	200,161	309,931	20,755	0.924	0.911	0.844	0.067	33.3	47.8	18.9	127,735
Kitutu Masaba Constituency	138,171	93,659	104,512	38,889	87,692	45,076	66,296	103,034	7,445	0.896	0.923	0.851	0.072	32.8	48.4	18.8	42408
Rigoma	43,201	20,577	22,624	8,559	19,380	10,061	14,816	22,438	1,383	0.910	0.925	0.864	0.062	34.8	47.8	17.4	9559
Gachuba	32,290	15,041	17,249	6,256	14,508	7,545	10,421	16,406	1,376	0.872	0.968	0.884	0.084	31.6	47.9	20.5	6721
Kemera	35,264	16,785	18,479	7,071	15,568	7,925	12,008	18,472	1,224	0.908	0.909	0.843	990.0	31.5	47.3	21.2	7275
Magombo	22,222	10,494	11,728	4,451	9,725	5,019	7,466	11,603	894	0.895	0.915	0.838	0.077	31.4	48.4	20.3	4675
Manga	29,533	13,972	15,561	5,664	12,725	6,425	9,737	15,557	1,251	0.898	0.898	0.818	0.080	33.5	50.2	16.3	6555
Gesima	35,661	16,790	18,871	6,888	15,786	8,101	11,848	18,558	1,317	0.890	0.922	0.851	0.071	32.8	49.0	18.2	7623
West Mugirango Constituency	157,470	75,290	82,180	30,555	69,452	35,978	53,586	82,383	5,635	0.916	0.911	0.843	0.068	32.2	49.1	18.7	33897
Nyamaiya	31,992	15,139	16,853	6,537	14,633	7,347	10,224	16,119	1,240	0.898	0.985	0.908	0.077	33.6	47.7	18.7	6963
Bogichora	41,131	19,657	21,474	8,116	18,336	9,575	13,675	21,206	1,589	0.915	0.940	0.865	0.075	30.8	50.4	18.7	8788
Bosamaro	39,642	18,781	20,861	7,788	17,565	8,906	13,426	20,600	1,477	0.900	0.924	0.853	0.072	28.8	51.1	20.0	8219

Bonyamatuta	25,636	12,449	13,187	4,841	11,050	5,766	9,240	13,744	842	0.944	0.865	0.804	0.061	31.0	48.7	20.3	5384
Township	19,069	9,264	9,805	3,273	7,868	4,384	7,021	10,714	487	0.945	0.780	0.734	0.045	40.0	45.8	14.2	4543
North Mugirango Constituency	121,287	58,296	62,991	24,308	54,772	27,575	40,762	62,403	4,112	0.925	0.944	0.878	0.066	30.7	48.6	20.7	25234
Itibo	26,876	12,969	13,907	5,434	12,016	5,958	9,352	14,019	841	0.933	0.917	0.857	090.0	29.9	51.5	18.5	2677
Bomwagamo	17,156	8,106	9,050	3,283	7,724	4,022	5,584	8,801	631	0.896	0.949	0.878	0.072	30.3	49.8	19.9	3637
Bokeira	32,446	15,601	16,845	6,731	15,121	7,544	10,472	16,166	1,159	0.926	1.007	0.935	0.072	27.2	45.9	26.9	6181
Magwagwa	18,280	8,847	9,433	3,681	8,201	4,165	6,173	9,420	629	0.938	0.941	0.871	0.070	32.2	50.0	17.8	3962
Ekerenyo	26,529	12,773	13,756	5,179	11,710	5,886	9,181	13,997	822	0.929	0.895	0.837	0.059	34.4	46.8	18.7	5777
Borabu Constituency	115,321	57,228	58,093	21,857	49,647	24,862	39,517	62,111	3,563	0.985	0.857	0.799	0.057	37.9	44.4	17.7	26196
Mekenene	18,473	9,566	8,907	3,303	7,507	3,695	6,360	10,512	454	1.074	0.757	0.714	0.043	47.5	37.7	14.8	4668
Kiabonyoru	43,332	20,841	22,491	8,551	19,234	9,770	15,003	22,675	1,423	0.927	0.911	0.848	0.063	31.8	49.8	18.4	9347
Nyansiongo	26,857	13,446	13,411	5,041	11,482	5,468	9,123	14,567	808	1.003	0.844	0.788	0.055	43.6	40.9	15.5	9059
Esise	26,659	13,375	13,284	4,962	11,424	5,929	9,031	14,357	878	1.007	0.857	0.796	0.061	33.5	44.8	21.7	5675

Table 34.2: Employment by County, Constituency and Wards

			Family	Intern/	Retired/				Number of
County/Constituency/Wards	Work for pay	Family Business	Agricultural Holding	Volunteer	Home- maker	Fulltime Student	Incapaci- tated	No work	Individ- uals
Kenya	23.7	13.1	32.0	1.1	9.2	12.8	0.5	7.7	20,249,800
Rural	15.6	11.2	43.5	1.0	8.8	13.0	0.5	6.3	12,984,788
Urban	38.1	16.4	11.4	1.3	9.9	12.2	0.3	10.2	7,265,012
Nyamira County	15.3	9.6	52.8	0.8	2.0	16.3	0.6	2.6	309,931
Kitutu Masaba Constituency	12.1	10.0	55.2	0.8	2.4	16.8	0.6	2.2	103,034
Rigoma	15.4	13.9	48.0	0.8	2.8	15.9	0.5	2.8	22,438
Gachuba	8.7	5.4	64.2	1.0	0.9	17.0	0.6	2.3	16,406
Kemera	13.9	11.1	46.3	0.8	5.1	19.7	0.9	2.2	18,472
Magombo	11.9	5.9	59.4	0.5	1.2	19.9	0.7	0.6	11,603
Manga	12.2	7.4	56.6	0.8	3.0	17.5	0.6	2.0	15,557
Gesima	9.2	12.7	61.1	0.9	0.7	12.2	0.6	2.6	18,558
West Mugirango Constituency	13.7	9.2	53.2	1.0	2.0	16.9	0.6	3.5	82,383
Nyamaiya	12.4	7.9	57.5	1.9	1.8	14.5	0.5	3.6	16,119
Bogichora	10.0	7.7	58.6	0.6	1.4	19.2	0.7	1.9	21,206
Bosamaro	12.2	6.9	58.0	0.8	1.3	16.8	0.9	3.1	20,600
Bonyamatuta	13.9	11.4	49.5	0.6	3.7	17.3	0.3	3.3	13,744
Township	25.7	15.4	31.8	1.4	2.7	15.4	0.2	7.5	10,714
North Mugirango Constituency	11.7	8.9	58.3	0.7	1.5	16.0	0.5	2.4	62,403
Itibo	15.4	8.9	53.8	0.7	0.9	17.5	0.4	2.4	14,019
Bomwagamo	7.6	4.5	63.9	0.6	1.8	17.7	0.5	3.3	8,801
Bokeira	8.6	6.1	67.9	0.8	1.2	13.4	0.6	1.6	16,166
Magwagwa	10.5	6.9	63.1	0.6	0.6	16.4	0.6	1.3	9,420
Ekerenyo	15.0	16.5	44.8	0.7	3.1	16.2	0.4	3.4	13,997
Borabu Constituency	26.6	10.3	42.5	0.6	1.9	15.2	0.5	2.3	62,111
Mekenene	43.2	10.9	27.1	0.8	3.1	12.8	0.3	1.9	10,512

Kiabonyoru	17.2	7.2	55.7	0.6	1.4	14.8	0.6	2.6	22,675
Nyansiongo	38.7	13.1	27.4	0.6	2.0	15.3	0.3	2.6	14,567
Esise	17.2	12.1	48.4	0.7	1.7	17.5	0.6	1.9	14,357

Table 34.3: Employment and Education Levels by County, Constituency and Wards

County (constituency/Mardo	Education Totallevel	Work for	Family Business	Family Agricultural Holding	Intern/ Volunteer	Retired/	Fulltime Student	Incapac-	No work	Number of Individuals
County /constituency/Wards	Totallevel	pay	business	nolaing	volunteer	потпетнакег	Student	itated	WOLK	individuais
Kenya	Total	23.7	13.1	32.0	1.1	9.2	12.8	0.5	7.7	20,249,800
Kenya	None	11.1	14.0	44.4	1.7	14.7	0.8	1.2	12.1	3,154,356
Kenya	Primary	20.7	12.6	37.3	0.8	9.6	12.1	0.4	6.5	9,528,270
Kenya	Secondary+	32.7	13.3	20.2	1.2	6.6	18.6	0.2	7.3	7,567,174
Rural	Total	15.6	11.2	43.5	1.0	8.8	13.0	0.5	6.3	12,984,788
Rural	None	8.5	13.6	50.0	1.4	13.9	0.7	1.2	10.7	2,614,951
Rural	Primary	15.5	10.8	45.9	0.8	8.4	13.2	0.5	5.0	6,785,745
Rural	Secondary+	21.0	10.1	34.3	1.0	5.9	21.9	0.3	5.5	3,584,092
Urban	Total	38.1	16.4	11.4	1.3	9.9	12.2	0.3	10.2	7,265,012
Urban	None	23.5	15.8	17.1	3.1	18.7	1.5	1.6	18.8	539,405
Urban	Primary	33.6	16.9	16.0	1.0	12.3	9.5	0.4	10.2	2,742,525
Urban	Secondary+	43.2	16.1	7.5	1.3	7.1	15.6	0.2	9.0	3,983,082
Nyamira	Total	15.3	9.6	52.8	0.8	2.0	16.3	0.6	2.6	309,931
Nyamira	None	13.3	10.1	65.4	2.1	2.6	0.7	3.0	2.8	18,467
Nyamira	Primary	14.0	8.9	59.4	0.6	1.8	12.8	0.5	1.9	137,307
Nyamira	Secondary+	16.8	10.2	45.3	0.8	2.1	21.4	0.3	3.2	154,157
Kitutu Masaba Constituency	Total	12.1	10.0	55.2	0.8	2.4	16.8	0.6	2.2	103,034
Kitutu Masaba Constituency	None	10.2	10.1	69.1	1.7	2.8	0.7	3.8	1.8	6,008
Kitutu Masaba Constituency	Primary	10.1	9.8	62.4	0.6	2.2	12.7	0.6	1.6	42,535
Kitutu Masaba Constituency	Secondary+	13.8	10.1	48.1	0.9	2.5	21.7	0.3	2.7	54,491
Rigoma Wards	Total	15.4	13.9	48.0	0.8	2.8	15.9	0.5	2.8	22,438
Rigoma Wards	None	11.0	14.3	64.0	1.5	3.4	0.4	3.2	2.2	1,243
Rigoma Wards	Primary	12.2	12.6	57.9	0.6	2.2	11.7	0.5	2.2	8,215
Rigoma Wards	Secondary+	17.8	14.7	40.3	0.9	3.0	20.1	0.2	3.2	12,980

Gachuba Wards	Total	8.7	5.4	64.2	1.0	0.9	17.0	0.6	2.3	16,406
Gachuba Wards	None	7.0	5.0	80.6	2.0	0.5	0.5	3.5	1.1	1,112
Gachuba Wards	Primary	7.1	5.5	70.9	0.7	1.0	13.0	0.5	1.5	7,022
Gachuba Wards	Secondary+	10.3	5.4	56.3	1.1	1.0	22.6	0.3	3.2	8,272
Kemera Wards	Total	13.9	11.1	46.3	0.8	5.1	19.7	0.9	2.2	18,472
Kemera Wards	None	10.9	8.9	63.1	1.5	7.0	1.3	6.2	1.3	1,094
Kemera Wards	Primary	12.6	11.6	53.3	0.6	4.7	14.8	0.7	1.7	8,930
Kemera Wards	Secondary+	15.7	11.0	36.8	0.9	5.2	27.2	0.4	2.9	8,448
Magombo Wards	Total	11.9	5.9	59.4	0.5	1.2	19.9	0.7	0.6	11,603
Magombo Wards	None	8.8	5.9	77.1	0.5	1.0	1.0	5.2	0.5	593
Magombo Wards	Primary	11.9	5.7	65.8	0.5	0.8	14.3	0.6	0.4	4,458
Magombo Wards	Secondary+	12.1	6.0	53.4	0.5	1.5	25.4	0.4	0.8	6,552
Manga Wards	Total	12.2	7.4	56.6	0.8	3.0	17.5	0.6	2.0	15,557
Manga Wards	None	9.0	5.9	73.8	1.7	3.2	0.7	3.0	2.7	812
Manga Wards	Primary	9.9	7.1	64.5	0.6	3.1	12.8	0.7	1.4	6,424
Manga Wards	Secondary+	14.3	7.8	48.8	0.9	2.9	22.7	0.2	2.3	8,321
Gesima Wards	Total	9.2	12.7	61.1	0.9	0.7	12.2	0.6	2.6	18,558
Gesima Wards	None	13.2	16.7	61.7	2.3	1.0	0.5	2.0	2.6	1,154
Gesima Wards	Primary	6.6	13.4	66.6	0.7	0.4	9.9	0.5	2.0	7,486
Gesima Wards	Secondary+	10.8	11.8	56.8	0.9	0.8	15.3	0.5	3.1	9,918
West Mugirango Constituency	Total	13.7	9.2	53.2	1.0	2.0	16.9	0.6	3.5	82,383
West Mugirango Constituency	None	11.0	11.1	64.8	2.4	3.0	0.7	2.8	4.1	5,200
West Mugirango Constituency	Primary	10.9	8.3	61.4	0.8	1.7	14.0	0.6	2.3	36,061
West Mugirango Constituency	Secondary+	16.5	9.7	44.6	1.0	2.1	21.5	0.3	4.5	41,122
Nyamaiya Wards	Total	12.4	7.9	57.5	1.9	1.8	14.5	0.5	3.6	16,119
Nyamaiya Wards	None	13.7	11.5	58.0	3.8	4.0	0.4	1.6	7.1	1,516
Nyamaiya Wards	Primary	10.5	6.8	65.1	1.6	1.3	11.8	0.5	2.6	8,389
Nyamaiya Wards	Secondary+	14.6	8.5	47.1	1.9	1.9	21.7	0.2	4.1	6,214
Bogichora Wards	Total	10.0	7.7	58.6	0.6	1.4	19.2	0.7	1.9	21,206
Bogichora Wards	None	6.8	12.9	71.3	0.9	3.3	0.6	3.5	0.8	1,506
Bogichora Wards	Primary	7.9	7.2	64.7	0.6	1.1	16.9	0.6	1.0	9,703

Bogichora Wards	Secondary+	12.4	7.4	50.8	0.6	1.4	24.3	0.3	2.9	9,997
Bosamaro Wards	Total	12.2	6.9	58.0	0.8	1.3	16.8	0.9	3.1	20,600
Bosamaro Wards	None	10.3	8.2	69.2	2.3	1.8	0.3	4.2	3.8	1,215
Bosamaro Wards	Primary	11.1	6.2	64.5	0.5	1.1	13.6	1.0	1.9	8,939
Bosamaro Wards	Secondary+	13.3	7.3	51.1	0.8	1.5	21.5	0.4	4.1	10,446
Bonyamatuta Wards	Total	13.9	11.4	49.5	0.6	3.7	17.3	0.3	3.3	13,744
Bonyamatuta Wards	None	14.7	7.3	67.3	2.7	3.1	1.9	2.1	1.0	483
Bonyamatuta Wards	Primary	13.1	11.5	54.1	0.4	4.0	14.1	0.4	2.5	5,742
Bonyamatuta Wards	Secondary+	14.4	11.6	44.9	0.7	3.4	20.8	0.2	4.0	7,519
Township Wards	Total	25.7	15.4	31.8	1.4	2.7	15.4	0.2	7.5	10,714
Township Wards	None	14.4	15.8	52.7	2.5	2.5	1.5	1.9	8.8	480
Township Wards	Primary	16.4	14.9	46.8	1.3	2.6	11.9	0.2	6.0	3,288
Township Wards	Secondary+	30.8	15.6	23.2	1.3	2.8	18.0	0.1	8.1	6,946
North Mugirango Constituency	Total	11.7	8.9	58.3	0.7	1.5	16.0	0.5	2.4	62,403
North Mugirango Constituency	None	8.7	9.1	73.2	1.7	1.7	0.7	2.6	2.3	4,129
North Mugirango Constituency	Primary	10.7	8.7	63.8	0.6	1.5	12.5	0.4	1.8	33,108
North Mugirango Constituency	Secondary+	13.4	9.3	48.5	0.7	1.6	23.1	0.2	3.2	25,166
Itibo Wards	Total	15.4	8.9	53.8	0.7	0.9	17.5	0.4	2.4	14,019
Itibo Wards	None	14.0	10.9	65.6	1.9	1.2	0.8	2.5	3.1	735
Itibo Wards	Primary	15.6	8.1	59.5	0.6	0.9	13.4	0.4	1.5	7,160
Itibo Wards	Secondary+	15.4	9.6	45.6	0.6	0.8	24.4	0.1	3.4	6,124
Bomwagamo Wards	Total	7.6	4.5	63.9	0.6	1.8	17.7	0.5	3.3	8,801
Bomwagamo Wards	None	4.4	2.6	83.2	1.4	2.8	0.1	1.7	3.7	703
Bomwagamo Wards	Primary	6.5	4.6	68.9	0.5	1.7	14.6	0.5	2.7	4,754
Bomwagamo Wards	Secondary+	9.9	4.9	52.8	0.7	1.6	25.9	0.3	4.0	3,344
Bokeira Wards	Total	8.6	6.1	67.9	0.8	1.2	13.4	0.6	1.6	16,166
Bokeira Wards	None	7.3	6.3	79.2	2.0	1.1	0.5	3.0	0.7	1,108
Bokeira Wards	Primary	6.8	5.7	73.6	0.6	1.0	10.5	0.4	1.5	9,146
Bokeira Wards	Secondary+	11.5	6.6	56.8	0.8	1.5	20.4	0.3	2.1	5,912
Magwagwa Wards	Total	10.5	6.9	63.1	0.6	0.6	16.4	0.6	1.3	9,420
Magwagwa Wards	None	7.8	10.3	74.3	1.1	1.2	0.4	3.7	1.1	728

								1		
Magwagwa Wards	Primary	10.5	6.8	68.3	0.4	0.4	12.3	0.5	0.9	4,990
Magwagwa Wards	Secondary+	10.9	6.5	53.9	0.7	0.8	25.0	0.1	2.0	3,702
Ekerenyo Wards	Total	15.0	16.5	44.8	0.7	3.1	16.2	0.4	3.4	13,997
Ekerenyo Wards	None	10.1	15.7	62.7	2.1	2.5	1.5	2.0	3.5	855
Ekerenyo Wards	Primary	13.9	17.3	48.8	0.5	3.2	13.2	0.4	2.8	7,058
Ekerenyo Wards	Secondary+	16.9	15.6	37.7	0.7	3.0	21.7	0.2	4.2	6,084
Borabu Constituency	Total	26.6	10.3	42.5	0.6	1.9	15.2	0.5	2.3	62,111
Borabu Constituency	None	29.2	9.8	49.2	2.8	2.4	0.8	2.5	3.4	3,130
Borabu Constituency	Primary	29.2	8.7	45.9	0.4	1.9	11.8	0.5	1.7	25,603
Borabu Constituency	Secondary+	24.4	11.6	39.4	0.6	1.8	19.2	0.3	2.7	33,378
Mekenene Wards	Total	43.2	10.9	27.1	0.8	3.1	12.8	0.3	1.9	10,512
Mekenene Wards	None	44.0	12.7	29.2	5.9	3.2	1.1	1.9	2.1	473
Mekenene Wards	Primary	49.6	10.5	23.8	0.5	3.6	10.6	0.2	1.3	4,228
Mekenene Wards	Secondary+	38.5	11.1	29.3	0.6	2.7	15.4	0.1	2.3	5,811
Kiabonyoru Wards	Total	17.2	7.2	55.7	0.6	1.4	14.8	0.6	2.6	22,675
Kiabonyoru Wards	None	14.9	5.9	69.6	1.9	1.5	0.6	2.5	3.1	1,136
Kiabonyoru Wards	Primary	17.5	6.2	60.0	0.4	1.4	11.3	0.7	2.3	11,279
Kiabonyoru Wards	Secondary+	17.2	8.3	49.5	0.5	1.3	20.3	0.3	2.7	10,260
Nyansiongo Wards	Total	38.7	13.1	27.4	0.6	2.0	15.3	0.3	2.6	14,567
Nyansiongo Wards	None	49.6	10.5	30.1	2.4	3.3	0.7	1.8	1.7	724
Nyansiongo Wards	Primary	48.4	10.6	26.5	0.4	1.8	10.9	0.4	1.1	5,089
Nyansiongo Wards	Secondary+	32.1	14.7	27.6	0.6	2.1	19.1	0.2	3.6	8,754
Esise Wards	Total	17.2	12.1	48.4	0.7	1.7	17.5	0.6	1.9	14,357
Esise Wards	None	22.3	12.9	49.2	2.6	2.5	0.9	3.4	6.2	797
Esise Wards	Primary	18.8	10.8	52.3	0.3	1.6	14.7	0.5	1.0	5,007
Esise Wards	Secondary+	15.7	12.7	46.1	0.7	1.7	20.7	0.4	2.0	8,553

Table 34.4: Employment and Education Levels in Male Headed Household by County, Constituency and Wards

			_	Family Agri-		Retired/	_	Inca-		Population
County, Constituency and Wards	Education Level reached	Work for Pay	Family Business	cultural holding	Internal/ Volunteer	Homemaker	Fulltime Student	pacitat- ed	No work	(15-64)
Kenya National	Total	25.5	13.5	31.6	1.1	9.0	11.4	0.4	7.5	14,757,992
Kenya National	None	11.4	14.3	44.2	1.6	13.9	0.9	1.0	12.6	2,183,284
Kenya National	Primary	22.2	12.9	37.3	0.8	9.4	10.6	0.4	6.4	6,939,667
Kenya National	Secondary+	35.0	13.8	19.8	1.1	6.5	16.5	0.2	7.0	5,635,041
Rural Rural	Total	16.8	11.6	43.9	1.0	8.3	11.7	0.5	6.3	9,262,744
Rural Rural	None	8.6	14.1	49.8	1.4	13.0	0.8	1.0	11.4	1,823,487
Rural Rural	Primary	16.5	11.2	46.7	0.8	8.0	11.6	0.4	4.9	4,862,291
Rural Rural	Secondary+	23.1	10.6	34.7	1.0	5.5	19.6	0.2	5.3	2,576,966
Urban Urban	Total	40.2	16.6	10.9	1.3	10.1	10.9	0.3	9.7	5,495,248
Urban Urban	None	25.8	15.5	16.1	3.0	18.2	1.4	1.3	18.7	359,797
Urban Urban	Primary	35.6	16.9	15.4	1.0	12.8	8.1	0.3	9.9	2,077,376
Urban Urban	Secondary+	45.1	16.6	7.3	1.2	7.4	13.8	0.1	8.5	3,058,075
Nyamira	Total	16.6	9.9	52.6	0.8	1.9	15.1	0.5	2.5	228,089
Nyamira	None	14.4	10.5	64.6	2.1	2.3	0.7	2.6	2.9	11,353
Nyamira	Primary	14.9	9.2	59.5	0.6	1.7	11.8	0.5	1.9	102,496
Nyamira	Secondary+	18.4	10.5	45.3	0.8	2.0	19.6	0.2	3.1	114,240
Kitutu Masaba Constituency	Total	13.2	10.5	55.1	0.8	2.2	15.5	0.6	2.2	73,076
Kitutu Masaba Constituency	None	11.5	10.5	67.9	1.8	2.3	0.7	3.4	1.9	3,444
Kitutu Masaba Constituency	Primary	10.8	10.3	62.5	0.6	2.0	11.6	0.6	1.7	30,729
Kitutu Masaba Constituency	Secondary+	15.2	10.7	48.1	0.8	2.4	19.9	0.3	2.7	38,903
Rigoma Ward	Total	16.8	14.7	47.3	0.7	2.5	15.0	0.4	2.7	15,920
Rigoma Ward	None	13.0	16.1	59.3	1.6	3.3	0.6	3.1	3.0	706
Rigoma Ward	Primary	13.0	13.2	58.3	0.4	1.9	10.4	0.5	2.2	5,905
Rigoma Ward	Secondary+	19.4	15.6	39.4	0.8	2.8	18.9	0.2	3.0	9,309
Gachuba Ward	Total	10.0	5.7	64.2	0.8	0.8	15.4	0.6	2.5	11,341
Gachuba Ward	None	7.1	3.9	81.7	2.2	0.3	0.3	3.5	0.9	634
Gachuba Ward	Primary	8.3	5.6	71.0	0.6	0.9	11.6	0.5	1.6	5,018
Gachuba Ward	Secondary+	11.9	6.0	56.3	0.9	0.8	20.4	0.3	3.4	5,689

Kemera Ward	Total	15.1	11.7	46.7	0.8	4.7	18.0	0.8	2.3	13,377
Kemera Ward	None	12.4	8.8	63.1	1.9	5.4	1.4	5.9	1.1	645
Kemera Ward	Primary	13.5	12.2	53.3	0.7	4.2	13.6	0.7	1.8	6,577
Kemera Ward	Secondary+	17.0	11.6	37.9	0.7	5.1	24.4	0.4	3.0	6,155
Magombo Ward	Total	12.5	6.3	59.3	0.5	1.2	18.9	0.6	0.6	8,226
Magombo Ward	None	6.9	6.6	78.2	0.3	0.9	0.9	5.4	0.6	317
Magombo Ward	Primary	12.3	5.9	66.1	0.6	0.8	13.4	0.5	0.4	3,210
Magombo Ward	Secondary+	13.1	6.6	53.4	0.5	1.5	23.8	0.4	0.7	4,699
Manga Ward	Total	13.3	8.1	56.4	0.8	3.0	15.9	0.5	2.0	11,065
Manga Ward	None	11.8	6.0	72.1	1.5	2.1	0.9	2.6	3.0	466
Manga Ward	Primary	10.5	7.7	64.5	0.6	3.0	11.6	0.7	1.4	4,602
Manga Ward	Secondary+	15.5	8.6	48.9	1.0	3.1	20.4	0.2	2.4	5,997
Gesima Ward	Total	10.0	13.0	61.3	0.9	0.6	11.2	0.5	2.5	13,147
Gesima Ward	None	14.9	17.3	60.7	2.5	1.0	0.3	1.0	2.2	676
Gesima Ward	Primary	6.8	13.9	66.6	0.7	0.5	9.2	0.5	1.9	5,417
Gesima Ward	Secondary+	12.1	11.8	57.4	0.8	0.7	13.9	0.5	2.9	7,054
West Mugirango Constituency	Total	14.9	9.5	53.1	1.0	1.9	15.7	0.5	3.4	60,620
West Mugirango Constituency	None	12.0	12.2	63.5	2.3	2.9	0.7	2.2	4.2	3,225
West Mugirango Constituency	Primary	11.8	8.6	61.4	0.8	1.7	12.8	0.6	2.4	26,721
West Mugirango Constituency	Secondary+	18.0	10.0	44.9	1.0	2.0	19.8	0.2	4.2	30,674
Nyamaiya Ward	Total	13.4	8.1	57.4	1.9	1.5	13.7	0.5	3.5	11,447
Nyamaiya Ward	None	14.4	12.0	56.6	3.4	4.4	0.2	1.7	7.2	957
Nyamaiya Ward	Primary	11.2	6.8	65.4	1.6	1.1	10.8	0.4	2.7	6,071
Nyamaiya Ward	Secondary+	16.2	8.9	46.7	2.0	1.5	20.5	0.3	3.8	4,419
Bogichora Ward	Total	11.1	8.3	58.6	0.6	1.3	17.9	0.5	1.7	15,671
Bogichora Ward	None	7.7	15.6	68.9	0.8	2.6	0.8	2.6	0.8	959
Bogichora Ward	Primary	8.7	7.9	64.7	0.6	1.0	15.4	0.6	1.1	7,164
Bogichora Ward	Secondary+	13.8	7.8	51.5	0.5	1.3	22.4	0.2	2.4	7,548
Bosamaro Ward	Total	13.1	7.1	58.3	0.8	1.3	15.7	0.7	3.1	14,972
Bosamaro Ward	None	12.2	7.8	68.6	3.0	1.3	0.1	2.8	4.2	707
Bosamaro Ward	Primary	12.0	6.6	64.6	0.5	1.0	12.5	0.9	1.8	6,592

					,					
Bosamaro Ward	Secondary+	14.2	7.5	51.9	0.8	1.4	19.8	0.4	4.0	7,673
Bonyamatuta Ward	Total	15.0	11.8	49.6	0.5	3.6	16.0	0.3	3.2	10,412
Bonyamatuta Ward	None	15.1	9.9	65.8	1.8	3.5	2.5	0.7	0.7	284
Bonyamatuta Ward	Primary	14.2	11.9	53.8	0.3	4.0	12.8	0.4	2.6	4,394
Bonyamatuta Ward	Secondary+	15.6	11.8	45.6	0.7	3.4	19.0	0.2	3.8	5,734
Township Ward	Total	27.8	15.3	31.6	1.3	2.8	13.8	0.2	7.2	8,118
Township Ward	None	14.5	14.2	54.7	1.9	2.5	1.6	2.2	8.5	318
Township Ward	Primary	17.6	14.8	46.8	1.2	2.7	10.5	0.2	6.3	2,500
Township Ward	Secondary+	33.4	15.6	23.0	1.3	2.8	16.1	0.1	7.6	5,300
North Mugirango Constituency	Total	12.6	9.2	58.3	0.6	1.5	15.0	0.4	2.3	47,853
North Mugirango Constituency	None	9.4	9.3	73.0	1.6	1.7	0.6	2.4	2.1	2,770
North Mugirango Constituency	Primary	11.3	8.8	64.1	0.5	1.4	11.7	0.4	1.8	25,665
North Mugirango Constituency	Secondary+	14.6	9.6	48.7	0.7	1.6	21.5	0.2	3.0	19,418
Itibo Ward	Total	16.4	8.9	54.2	0.6	0.9	16.3	0.4	2.4	10,920
Itibo Ward	None	13.6	9.5	66.8	1.6	1.4	0.8	2.5	3.7	485
Itibo Ward	Primary	16.5	8.2	59.3	0.5	0.8	12.8	0.4	1.6	5,692
Itibo Ward	Secondary+	16.6	9.8	46.7	0.6	0.9	22.1	0.1	3.2	4,743
Bomwagamo Ward	Total	8.5	5.0	63.2	0.7	1.7	17.4	0.4	3.1	6,770
Bomwagamo Ward	None	5.6	3.2	82.3	1.3	3.2	-	1.9	2.4	462
Bomwagamo Ward	Primary	7.5	5.1	69.1	0.5	1.5	13.4	0.5	2.5	3,661
Bomwagamo Ward	Secondary+	10.5	5.2	51.8	0.8	1.7	26.0	0.2	4.0	2,647
Bokeira Ward	Total	9.5	6.3	68.1	0.7	1.1	12.2	0.5	1.7	12,181
Bokeira Ward	None	7.4	6.4	79.4	1.9	0.9	0.4	2.9	0.7	748
Bokeira Ward	Primary	7.3	5.7	74.1	0.6	0.9	9.5	0.4	1.4	6,942
Bokeira Ward	Secondary+	13.1	7.1	56.9	0.8	1.4	18.3	0.3	2.1	4,491
Magwagwa Ward	Total	11.2	7.2	63.8	0.6	0.5	15.0	0.4	1.3	7,313
Magwagwa Ward	None	7.9	11.1	75.4	1.0	0.8	0.2	2.4	1.2	504
Magwagwa Ward	Primary	11.0	7.0	68.9	0.4	0.4	11.1	0.4	0.9	3,927
Magwagwa Ward	Secondary+	12.0	6.8	54.8	0.9	0.8	23.0	0.1	1.7	2,882
Ekerenyo Ward	Total	15.7	16.7	44.7	0.6	3.0	15.5	0.3	3.3	10,669
Ekerenyo Ward	None	12.8	16.1	60.1	2.1	2.5	1.4	2.1	3.0	571

Ekerenyo Ward	Primary	13.9	17.4	49.5	0.5	3.1	12.6	0.3	2.7	5,443
	Filliary							0.5		
Ekerenyo Ward	Secondary+	18.2	16.1	37.2	0.6	3.0	20.7	0.1	4.0	4,655
Borabu Constituency	Total	28.4	10.3	42.3	0.6	1.8	14.0	0.4	2.2	46,540
Borabu Constituency	None	30.7	9.4	48.6	2.9	2.2	0.6	2.0	3.6	1,914
Borabu Constituency	Primary	30.5	8.7	45.8	0.4	1.8	10.7	0.4	1.6	19,381
Borabu Constituency	Secondary+	26.6	11.7	39.2	0.6	1.8	17.5	0.2	2.5	25,245
Mekenene Ward	Total	45.4	10.8	27.2	0.7	3.2	10.9	0.2	1.8	7,916
Mekenene Ward	None	41.3	11.5	32.7	6.7	3.0	1.5	1.1	2.2	269
Mekenene Ward	Primary	51.2	10.3	24.2	0.5	3.8	8.6	0.1	1.1	3,092
Mekenene Ward	Secondary+	41.7	11.0	28.8	0.5	2.7	12.9	0.1	2.2	4,555
Kiabonyoru Ward	Total	18.3	7.5	55.5	0.5	1.2	13.9	0.5	2.5	17,235
Kiabonyoru Ward	None	14.3	6.1	70.5	2.0	1.4	0.1	2.3	3.3	706
Kiabonyoru Ward	Primary	18.2	6.6	60.0	0.4	1.3	10.6	0.6	2.3	8,712
Kiabonyoru Ward	Secondary+	18.8	8.6	49.1	0.5	1.2	18.7	0.2	2.8	7,817
Nyansiongo Ward	Total	41.9	12.5	26.6	0.6	1.9	14.0	0.2	2.4	10,684
Nyansiongo Ward	None	55.6	10.2	25.8	2.2	3.3	0.4	0.9	1.5	453
Nyansiongo Ward	Primary	52.7	9.5	24.8	0.3	1.7	9.7	0.2	1.1	3,791
Nyansiongo Ward	Secondary+	34.6	14.4	27.6	0.6	1.9	17.4	0.1	3.3	6,440
Esise Ward	Total	18.6	12.4	48.1	0.7	1.5	16.4	0.5	1.7	10,705
Esise Ward	None	25.5	12.1	46.9	2.7	1.9	1.0	3.1	6.8	486
Esise Ward	Primary	19.6	11.3	52.0	0.3	1.4	13.8	0.5	1.0	3,786
Esise Ward	Secondary+	17.5	13.1	45.9	0.7	1.6	19.2	0.4	1.7	6,433

Table 34.5: Employment and Education Levels in Female Headed Households by County, Constituency and Wards

County, Constituency and Secondary+ County, Constituency and Secondary+ Cerya National         Education Level More transparents         Work for Pay (1887)         Family Busines           Kenya National         Total         16.74         11.5           Kenya National         Primary         16.74         11.5           Kenya National         Secondary+         25.95         11.5           Rural Rural         None         8.36         12.2           Rural Rural         None         12.83         10.           Rural Rural         None         12.83         10.           Urban Urban         None         19.09         16.           Urban Urban         None         11.7         8           Nyamira         None         11.7         9           Nyamira         None         11.7         9           Kitutu Masaba Constituency         Primary         12.0         9           Kitutu Masaba Constituency         Primary         8.4         9           Kitutu Masaba Constituency         Secondary+         10.3         8           Kitutu Masaba Constituency         Secondary+         10.3         8           Kitutu Masaba Constituency         Secondary+         10.3         8 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Retired/</th> <th></th> <th></th> <th></th> <th>Population</th>							Retired/				Population
ational         Total         11           ational         None         10.34         11           ational         None         16.74         11           ational         Secondary+         25.95         11           ral         None         8.36         12           ral         Primary         13.02         9           ral         Primary         12.83         10           ban         None         19.09         16           ban         Primary         27.49         17           ban         Secondary+         36.81         14           ban         Secondary+         12.0         17.7           ban         Secondary+         12.0         33           saba Constituency         Primary         11.7         12.0           saba Constituency         Primary         14.3         14.3           ward         Primary         14.3         14.3           saba Constituency         Primary         16.3         14.3           ward         Total         14.13         14.13	Constituency and	Education Level reached	Work for Pay	Family Business	Family Agricultural holding	Internal/ Volunteer	Homemaker	Fulltime Student	Incapacitated	No work	(15-64)
ational         None         10.34         13           ational         Primary         16.74         11           ational         Secondary+         25.95         11           ral         Total         31.53         15           ral         None         8.36         12           ban         Primary         12.03         16           ban         Secondary+         27.49         17           ban         Secondary+         36.81         14           ban         Secondary+         11.7         14           ban         Secondary+         12.0         16           ban         Secondary+         12.0         16           saba Constituency         Primary         11.7         12.0           saba Constituency         Primary         8.4         16.3           Ward         Total         11.3         16.3           Ward         Total         11.3         17.3           Ward         Total         11.3         11.3           Ward         Total         11.3         11.3           Man         Total         11.3         11.3         11.3           Man	ational	Total	18.87	11.91	32.74	1.20	9.85	16.66	69:0	8.08	5,518,645
ational         Primary         16.74         11           ral         Secondary+         25.95         11           ral         Total         31.53         15           ral         None         8.36         12           ban         Primary         12.83         10           ban         Primary         27.49         17           ban         Secondary+         36.81         14           ban         Secondary+         36.81         14           ban         Secondary+         11.7         11.7           ban         Secondary+         12.0         8.4           saba Constituency         Total         11.3         8.4           saba Constituency         Primary         11.3         8.4           Ward         Total         10.3         11.3           Ward         Total         10.3         1.1	ational	None	10.34	13.04	44.55	1.90	16.45	0.80	1.76	11.17	974,824
Secondary+	ational	Primary	16.74	11.75	37.10	0.89	9.82	16.23	0.59	6.89	2,589,877
ral         Total         31.53         15           ral         None         8.36         12           ral         Primary         13.02         9           ral         Secondary+         15.97         8           ban         Total         12.83         10           ban         Primary         27.49         17           ban         Secondary+         36.81         14           ban         Secondary+         11.7         11.7           ban         Secondary+         12.0         36.81         14           saba Constituency         Total         9.3         8.4         12.0           saba Constituency         Primary         8.4         8.2         14           saba Constituency         Primary         8.2         14         14           ward         Total         Total         11.9         1	ational	Secondary+	25.95	11.57	21.07	1.27	6.59	25.16	0.28	8.11	1,953,944
ral         None         8.36         12           ral         Primary         13.02         9           ral         Secondary+         15.97         8           ban         Total         12.83         10           ban         Primary         27.49         17           ban         Secondary+         36.81         14           ban         Secondary+         36.81         14           ban         Secondary+         11.7         14           ban         Secondary+         12.0         3.3           saba Constituency         Primary         11.3         8.4           saba Constituency         Primary         8.2         2           saba Constituency         Primary         8.2         3           Varid         Total         10.3         1	ral	Total	31.53	15.66	12.80	1.54	9.33	16.99	0.54	11.60	1,781,078
ral         Primary         13.02         9           ral         Secondary+         15.97         8           ban         Total         12.83         10           ban         Primary         27.49         17           ban         Secondary+         36.81         14           ban         Secondary+         36.81         14.7           ban         Secondary+         11.7         11.7           ban         Secondary+         12.0         23           saba Constituency         Total         9.3         8.4           saba Constituency         Primary         8.2         8.4           saba Constituency         Primary         8.2         8.4           saba Constituency         Primary         10.3         11.9           Vard         Total         Total         11.9         1	ral	None	8.36	12.26	50.31	1.60	15.77	0.59	1.67	9.44	794,993
ral         Secondary+         15.97         8           ban         Total         12.83         10           ban         None         19.09         16           ban         Secondary+         36.81         17           ban         Secondary+         36.81         14           ban         Secondary+         11.7         14           ban         Secondary+         12.0         12.0           saba Constituency         Total         9.3         8.4           saba Constituency         Primary         8.4         8.4           saba Constituency         Primary         8.2         8.4           saba Constituency         Primary         8.2         8.4           ward         Total         10.3         11.9         1	ral	Primary	13.02	9.90	43.79	0.81	9.49	17.03	09:0	5.36	1,924,111
ban         Total         12.83         10           ban         None         19.09         16           ban         Primary         27.49         17           ban         Secondary+         36.81         14           ban         Secondary+         11.7         11.7           ban         Secondary+         11.3         11.3           saba Constituency         Total         9.3         8.4           saba Constituency         Primary         8.4         8.2           saba Constituency         Primary         8.2         8.2           vard         Total         10.3         11.9         1	ral	Secondary+	15.97	8.87	33.03	1.06	6.80	27.95	0.34	5.98	1,018,463
ban         None         19.09         16           ban         Secondary+         36.81         17           ban         Secondary+         36.81         14.7           ban         Total         11.7         11.7           None         11.7         11.3         11.3           saba Constituency         Total         9.3         8.4           saba Constituency         Primary         8.4         8.2           saba Constituency         Primary         8.2         8.3           Varid         Total         Secondary+         10.3	ban	Total	12.83	10.12	42.24	1.04	10.09	16.51	0.76	6.40	3,737,567
ban         Primary         27.49         17           ban         Secondary+         36.81         14           Total         11.7         11.7           None         11.7         11.3           Isaba Constituency         Total         9.3           Isaba Constituency         Primary         8.4           Isaba Constituency         Primary         8.2           Isaba Constituency         Primary         10.3           Vard         Total         11.9	ban ban	None	19.09	16.50	19.04	3.22	19.45	1.70	2.18	18.83	179,831
ban         Secondary+         36.81         14           Total         11.7         11.7           None         11.7         11.3           Primary         11.3         11.3           saba Constituency         Total         9.3           Isaba Constituency         Primary         8.4           Isaba Constituency         Primary         8.2           Isaba Constituency         Primary         8.2           Vard         Total         11.9		Primary	27.49	17.07	17.79	1.13	10.76	13.93	0.55	11.29	665,766
Total         11.7           None         11.7           Primary         11.3           Secondary+         12.0           Isaba Constituency         None         8.4           Isaba Constituency         Primary         8.2           Isaba Constituency         Primary         8.2           Isaba Constituency         Secondary+         10.3           Vard         Total         11.9	ban 'ban	Secondary+	36.81	14.50	8.06	1.51	6.36	22.11	0.22	10.43	935,481
None         11.7           Primary         11.3           Secondary+         12.0           Isaba Constituency         Total         9.3           Isaba Constituency         None         8.4           Isaba Constituency         Primary         8.2           Isaba Constituency         Secondary+         10.3           Vard         Total         11.9		Total	11.7	8.7	52.9	ō.	2.3	19.9	∞.	2.8	82064
Primary         11.3           Secondary+         12.0           Isaba Constituency         Total         9.3           Isaba Constituency         None         8.4           Isaba Constituency         Primary         8.2           Isaba Constituency         Secondary+         10.3           Vard         Total         11.9		None	11.7	9.5	9.99	2.1	2.9	7.	3.7	2.7	7121
Saba ConstituencyTotal9.3saba ConstituencyNone8.4saba ConstituencyPrimary8.2saba ConstituencySecondary+10.3VardTotal11.91		Primary	11.3	8.1	59.2	7.	2.2	16.0	7.	1.8	34822
Total         9.3           None         8.4           Primary         8.2           Secondary+         10.3           Total         11.9		Secondary+	12.0	9.1	45.0	6.	2.3	26.7	ĸ.	3.6	40121
None         8.4           Primary         8.2           Secondary+         10.3           Total         11.9	asaba Constituency	Total	9.3	8.6	55.5	6.	2.7	20.1	8.	2.2	29993
Primary 8.2   Secondary+ 10.3   Total 11.9   1	asaba Constituency	None	8.4	9.2	70.7	1.5	3.4	7.	4.2	1.7	2562
Secondary+ 10.3 Total 11.9 11.9		Primary	8.2	8.4	62.3	2'	2.7	15.6	9.	1.5	11795
Total 11.9	asaba Constituency	Secondary+	10.3	8.6	47.8	1.0	2.7	26.6	e.	2.8	15636
	Nard	Total	11.9	11.9	49.9	1.1	3.5	18.2	9.	2.9	6512
Rigoma Ward None 8.4 11	Nard	None	8.4	11.9	70.2	1.3	3.5	.2	3.4	1.1	537

Rigoma Ward	Primary	10.2	11.0	92.0	1.0	3.1	14.9	9:	2.2	2308
Rigoma Ward	Secondary+	13.4	12.5	42.4	1.1	3.8	23.0	.2	3.6	3667
Gachuba Ward	Total	5.7	4.9	64.0	1.2	1.1	20.5	9.	2.0	2002
Gachuba Ward	None	6.9	6.3	79.1	1.7	9.	9.	3.6	1.3	478
Gachuba Ward	Primary	4.0	5.3	70.5	1.0	1.0	16.5	c.	1.2	2004
Gachuba Ward	Secondary+	6.8	4.3	56.1	1.3	1.3	27.3	.2	2.7	2583
Kemera Ward	Total	11.0	9.5	45.4	8:	0.9	24.3	1.1	1.9	5092
Kemera Ward	None	8.7	8.9	63.0	Q.	9.1	1.1	2.9	1.6	449
Kemera Ward	Primary	10.2	2.6	53.3	3.	6.1	18.3	8.	1.2	2350
Kemera Ward	Secondary+	12.2	9.6	33.8	1.1	5.2	34.9	Е.	2.8	2293
Magombo Ward	Total	10.2	4.7	59.5	4.	1.3	22.2	6.	7.	3371
Magombo Ward	None	10.9	5.1	75.7	Ľ	1.1	1.1	5.1	4.	276
Magombo Ward	Primary	10.8	5.0	65.0	4.	6.	16.6	6.	.5	1248
Magombo Ward	Secondary+	9.6	4.4	53.4	4.	1.7	29.2	£.	6:	1847
Manga Ward	Total	9.4	5.5	56.3	8.	3.0	22.6	Ľ	1.7	4542
Manga Ward	None	4.9	5.8	76.2	2.0	4.7	9.	3.5	2.3	344
Manga Ward	Primary	8.3	5.4	64.6	9.	3.2	15.8	9.	1.4	1816
Manga Ward	Secondary+	10.9	5.6	47.1	∞.	2.5	30.9	ε.	1.9	2382
Gesima Ward	Total	7.3	12.1	60.4	1.0	6.	14.6	œί	2.9	5411
Gesima Ward	None	10.7	15.9	63.2	2.1	89.	8.	3.3	3.1	478
Gesima Ward	Primary	0.9	11.9	66.7	7.	.3	11.9	5.	2.0	2069
Gesima Ward	Secondary+	7.6	11.6	55.5	1.0	1.2	18.9	.5	3.6	2864
West Mugirango Constituency	Total	10.2	8.2	53.5	1.1	2.2	20.3	8.	3.8	21752
West Mugirango Constituency	None	9.5	9.4	66.9	2.6	3.2	.6	3.9	3.9	1974
West Mugirango Constituency	Primary	8.3	7.2	61.6	æ	1.8	17.5	7.	2.1	9333
West Mugirango Constituency	Secondary+	12.0	8.9	43.7	Q.	2.3	26.6	ε.	5.3	10445
Nyamaiya Ward	Total	8.6	7.4	57.8	1.7	2.3	16.7	ιζί	3.9	4657
Nyamaiya Ward	None	12.3	10.6	60.3	4.5	3.2	7.	1.4	7.0	529
Nyamaiya Ward	Primary	8.6	6.7	64.5	1.2	1.8	14.3	9.	2.4	2310
Nyamaiya Ward	Secondary+	10.5	7.4	48.3	1.4	2.7	24.7	T.	4.9	1788
Bogichora Ward	Total	6.7	5.9	58.7	9.	1.7	22.9	1.0	2.5	5532

Bogichora Ward	None	5.1	8.0	75.3	1.1	4.4	.2	5.1	7.	547
Bogichora Ward	Primary	5.8	5.2	64.7	ιτί	1.1	21.1	7.	o;	2537
Bogichora Ward	Secondary+	8.1	0.9	48.8	9:	1.8	29.9	б.	4.5	2448
Bosamaro Ward	Total	9.6	6.5	57.2	89:	1.4	20.0	1.3	3.2	2627
Bosamaro Ward	None	1.7	8.7	70.0	1.4	2.6	4.	6.1	3.2	202
Bosamaro Ward	Primary	9.8	5.4	64.3	9:	1.1	16.6	1.3	2.1	2347
Bosamaro Ward	Secondary+	10.8	7.0	48.9	8.	1.5	26.4	5.	4.1	2773
Bonyamatuta Ward	Total	10.3	10.3	49.1	1.0	3.7	21.6	5.	3.4	3334
Bonyamatuta Ward	None	1.41	3.5	69.3	4.0	2.5	1.0	4.0	1.5	199
Bonyamatuta Ward	Primary	9.6	10.2	54.8	8:	3.9	18.2	4.	2.2	1349
Bonyamatuta Ward	Secondary+	10.6	11.3	42.5	8:	3.7	26.4	.2	4.5	1786
Township Ward	Total	19.2	15.7	32.3	1.6	2.5	20.4	.2	8.1	2602
Township Ward	None	14.2	19.1	48.8	3.7	2.5	1.2	1.2	9.3	162
Township Ward	Primary	12.8	15.3	46.8	1.5	2.2	16.3	0.0	5.1	790
Township Ward	Secondary+	22.7	15.6	23.8	1.5	2.7	24.2	1.	9.5	1650
North Mugirango Constituency	Total	8.8	8.1	57.4	82.	1.7	19.8	7.	2.6	14690
North Mugirango Constituency	None	7.5	8.8	73.1	2.2	1.8	6.	2.9	2.8	1369
North Mugirango Constituency	Primary	8.7	8.1	62.7	7.	1.8	15.6	.6	1.9	7465
North Mugirango Constituency	Secondary+	9.3	8.0	47.0	7.	1.6	29.6	Е.	3.4	5856
Itibo Ward	Total	12.0	8.7	52.2	1.1	o.	22.1	ιζί	2.6	3107
Itibo Ward	None	14.8	13.6	63.2	2.4	<b>ω</b> .	82.	2.4	2.0	250
Itibo Ward	Primary	12.3	7.7	0.09	1.1	1.2	15.9	9:	1.3	1476
Itibo Ward	Secondary+	11.2	8.8	41.9	<b>∞</b> .	ī.	32.5	0.0	4.2	1381
Bomwagamo Ward	Total	4.5	3.2	63.8	ιτί	2.0	21.6	7.	3.7	2117
Bomwagamo Ward	None	2.1	1.2	85.1	1.7	2.1	4.	1.2	6.2	241
Bomwagamo Ward	Primary	3.4	3.2	68.2	ω.	2.5	18.7	ī.	3.3	1099
Bomwagamo Ward	Secondary+	6.8	3.9	51.0	4.	1.3	32.4	9:	3.6	777
Bokeira Ward	Total	5.8	5.5	67.2	<b>б</b> .	1.4	17.1	9:	1.6	3985
Bokeira Ward	None	7.2	6.1	78.6	2.2	1.4	9.	3.1	89.	360
Bokeira Ward	Primary	5.1	5.6	72.2	æ	1.1	13.3	4.	1.5	2204
Bokeira Ward	Secondary+	6.5	5.1	56.5	œί	2.0	27.1	κi	1.8	1421

Magwagwa Ward	Total	8.0	0.9	8.09	5.	6;	21.0	1.2	1.6	2107
Magwagwa Ward	None	7.6	8.5	71.9	1.3	2.2	6:	2.9	6:	224
Magwagwa Ward	Primary	8.8	5.7	0.99	9.	9.	16.6	<b>ω</b> .	∞.	1063
Magwagwa Ward	Secondary+	7.0	5.6	51.0	.2	1.1	32.2	₹.	2.8	820
Ekerenyo Ward	Total	12.8	15.3	44.5	0.1	3.1	18.9	9.	3.8	3374
Ekerenyo Ward	None	6.1	14.6	0.99	3.1	2.4	1.7	1.7	4.4	294
Ekerenyo Ward	Primary	14.0	16.8	46.1	7.	3.5	15.5	9.	2.8	1623
Ekerenyo Ward	Secondary+	12.9	13.8	38.4	6:	2.9	26.1	κ.	4.7	1457
Borabu Constituency	Total	21.2	10.2	43.0	Ľ	2.2	19.2	∞.	2.6	15629
Borabu Constituency	None	26.8	10.4	50.0	2.7	2.8	1.0	3.2	3.0	1216
Borabu Constituency	Primary	25.0	8.8	45.9	4.	2.2	15.0	8.	1.8	6229
Borabu Constituency	Secondary+	17.5	11.3	39.8	7.	2.0	25.1	4.	3.1	8184
Mekenene Ward	Total	36.8	11.2	26.8	6'	2.8	18.7	.5	2.2	2596
Mekenene Ward	None	47.5	14.2	24.5	4.9	3.4	.5	2.9	2.0	204
Mekenene Ward	Primary	45.5	10.7	22.5	.3	3.0	15.8	:S	1.8	1133
Mekenene Ward	Secondary+	27.2	11.2	31.1	6:	2.5	24.3	1.	2.7	1259
Kiabonyoru Ward	Total	13.5	6.2	56.4	9.	1.7	17.9	1.0	2.6	5451
Kiabonyoru Ward	None	15.8	5.6	68.1	1.9	1.6	1.4	2.8	2.8	430
Kiabonyoru Ward	Primary	14.8	5.2	60.1	5.	2.1	13.8	1.0	2.5	2576
Kiabonyoru Ward	Secondary+	11.8	7.3	50.5	5.	1.4	25.2	9:	2.7	2445
Nyansiongo Ward	Total	29.4	14.5	29.2	6:	2.3	20.0	9:	3.1	3929
Nyansiongo Ward	None	39.5	11.1	37.3	2.6	3.3	1.1	3.3	1.8	271
Nyansiongo Ward	Primary	36.0	13.8	31.4	7.	2.0	14.3	7.	1.2	1298
Nyansiongo Ward	Secondary+	24.6	15.3	27.1	8.	2.4	25.3	£.	4.3	2360
Esise Ward	Total	12.9	11.0	49.4	7.	2.2	20.6	8:	2.3	3653
Esise Ward	None	17.4	14.1	52.7	2.6	3.5	9.	3.9	5.1	311
Esise Ward	Primary	16.2	9.1	53.1	.2	2.2	17.5	7.	1.0	1222
Esise Ward	Secondary+	10.4	11.7	46.8	7.	2.0	25.3	ιζί	2.6	2120

Table 34.6: Gini Coefficient by County, Constituency and Ward

County/Constituency/Wards	Pop. Share	Mean	Consump. Share	Gini
Kenya	1	3,440	1	0.445
Rural	0.688	2,270	0.454	0.361
Urban	0.312	6,010	0.546	0.368
Nyamira County	0.016	2,640	0.012	0.394
Kitutu Masaba Constituency	0.005	2,550	0.0039	0.386
Rigoma	0.001	3,690	0.0012	0.477
Gachuba	0.001	2,120	0.0005	0.314
Kemera	0.001	2,270	0.0006	0.346
Magombo	0.001	2,240	0.0004	0.314
Manga	0.001	2,360	0.0005	0.337
Gesima	0.001	2,160	0.0006	0.324
West Mugirango Constituency	0.004	3,160	0.0039	0.425
Nyamaiya	0.001	3,330	0.0008	0.367
Bogichora	0.001	2,200	0.0007	0.315
Bosamaro	0.001	2,020	0.0006	0.305
Bonyamatuta	0.001	3,710	0.0007	0.436
Township	0.001	6,550	0.0010	0.412
North Mugirango Constituency	0.003	2,190	0.0021	0.325
Itibo	0.001	2,050	0.0004	0.306
Bomwagamo	0.000	2,100	0.0003	0.297
Bokeira	0.001	2,040	0.0005	0.329
Magwagwa	0.000	2,320	0.0003	0.308
Ekerenyo	0.001	2,480	0.0005	0.354
Borabu Constituency	0.003	2,550	0.0023	0.393
Mekenene	0.000	2,750	0.0004	0.325
Kiabonyoru	0.001	1,910	0.0006	0.329
Nyansiongo	0.001	3,680	0.0008	0.467
Esise	0.001	2,310	0.0005	0.323

Table 34.7: Education by County, Constituency and Wards

County/Constituency/Wards	None	Primary	Secondary+	Total Pop
Kenya	25.2	52.0	22.8	34,024,396
Rural	29.5	54.7	15.9	23,314,262
Urban	15.8	46.2	38.0	10,710,134
Nyamira County	16.1	53.6	30.3	528,317
Kitutu Masaba Constituency	15.9	52.1	32.0	176,499
Rigoma	15.6	49.2	35.2	38,196
Gachuba	17.1	53.1	29.8	28,817
Kemera	16.7	55.4	27.8	31,420
Magombo	15.7	50.0	34.3	19,824
Manga	16.4	51.2	32.5	26,642
Gesima	14.2	53.3	32.6	31,600
West Mugirango Constituency	15.7	53.8	30.4	140,362
Nyamaiya	18.1	58.8	23.1	28,092



	·			
Bogichora	17.0	54.8	28.3	36,754
Bosamaro	15.7	53.7	30.6	35,346
Bonyamatuta	13.1	52.9	34.0	22,958
Township	12.6	45.5	41.9	17,212
North Mugirango Constituency	17.5	58.4	24.1	108,006
Itibo	17.4	56.2	26.4	23,993
Bomwagamo	16.8	60.5	22.7	15,222
Bokeira	17.9	60.9	21.2	28,852
Magwagwa	18.8	57.5	23.7	16,237
Ekerenyo	16.6	56.9	26.5	23,702
Borabu Constituency	15.5	51.1	33.5	103,450
Mekenene	13.8	50.4	35.9	16,741
Kiabonyoru	15.4	57.1	27.5	38,701
Nyansiongo	16.9	45.5	37.6	24,216
Esise	15.3	47.4	37.3	23,792

Table 34.8: Education for Male and Female Headed Households by County, Constituency and Ward

County/Constituency/Wards	None	Primary	Secondary+	Total Pop	None	Primary	Secondary+	Total Pop
	20.5			-			-	-
Kenya	23.5	51.8	24.7	16,819,031	26.8	52.2	21.0	17,205,365
Rural	27.7	54.9	17.4	11,472,394	31.2	54.4	14.4	11,841,868
Urban	14.4	45.2	40.4	5,346,637	17.2	47.2	35.6	5,363,497
Nyamira County	14.8	53.8	31.3	252,577	17.3	53.4	29.3	275,740
Kitutu Masaba Constituency	14.5	52.6	32.9	82,885	17.2	51.6	31.2	93,614
Rigoma	14.4	49.4	36.3	18,112	16.8	49.0	34.2	20,084
Gachuba	15.2	54.3	30.5	13,338	18.8	52.0	29.2	15,479
Kemera	15.2	56.4	28.5	14,889	18.2	54.6	27.3	16,531
Magombo	14.7	50.8	34.5	9,281	16.6	49.3	34.1	10,543
Manga	15.2	51.4	33.5	12,515	17.4	51.0	31.6	14,127
Gesima	12.6	53.5	33.9	14,750	15.5	53.1	31.4	16,850
West Mugirango Constituency	14.3	54.4	31.3	66,792	17.0	53.3	29.7	73,570
Nyamaiya	16.7	59.5	23.9	13,226	19.4	58.1	22.5	14,866
Bogichora	15.3	55.0	29.7	17,448	18.6	54.5	26.9	19,306
Bosamaro	14.4	54.8	30.7	16,679	16.9	52.6	30.5	18,667
Bonyamatuta	12.0	53.4	34.6	11,122	14.2	52.4	33.5	11,836
Township	11.6	45.4	43.0	8,317	13.6	45.5	40.9	8,895
North Mugirango Constituency	16.4	58.2	25.4	51,711	18.5	58.6	22.9	56,295

16.2	56.1	27.6	11,525		18.5	56.3	25.3	12,468
15.1	60.3	24.6	7,170		18.4	60.7	20.9	8,052
16.9	60.5	22.6	13,836		18.8	61.2	19.9	15,016
17.5	57 4	25 1			19 9	57.6	22.5	8,389
								12,370
14.4	50.8	34.8	51,189		16.5	51.4	32.2	52,261
12.8	48.3	38.9	8,717		14.8	52.6	32.6	8,024
14.2	57.6	28.3	18,511		16.5	56.7	26.8	20,190
15.7	45.4	39.0	12,081		18.0	45.7	36.3	12,135
14.7	47.4	37.9	11.880		15.9	47.3	36.8	11,912
	15.1 16.9 17.5 16.0 14.4 12.8	15.1 60.3 16.9 60.5 17.5 57.4 16.0 56.6 14.4 50.8 12.8 48.3 14.2 57.6 15.7 45.4	15.1     60.3     24.6       16.9     60.5     22.6       17.5     57.4     25.1       16.0     56.6     27.4       14.4     50.8     34.8       12.8     48.3     38.9       14.2     57.6     28.3       15.7     45.4     39.0	15.1     60.3     24.6     7,170       16.9     60.5     22.6     13,836       17.5     57.4     25.1     7,848       16.0     56.6     27.4     11,332       14.4     50.8     34.8     51,189       12.8     48.3     38.9     8,717       14.2     57.6     28.3     18,511       15.7     45.4     39.0     12,081	15.1     60.3     24.6     7,170       16.9     60.5     22.6     13,836       17.5     57.4     25.1     7,848       16.0     56.6     27.4     11,332       14.4     50.8     34.8     51,189       12.8     48.3     38.9     8,717       14.2     57.6     28.3     18,511       15.7     45.4     39.0     12,081	15.1     60.3     24.6     7,170     18.4       16.9     60.5     22.6     13,836     18.8       17.5     57.4     25.1     7,848     19.9       16.0     56.6     27.4     11,332     17.1       14.4     50.8     34.8     51,189     16.5       12.8     48.3     38.9     8,717     14.8       14.2     57.6     28.3     18,511     16.5       15.7     45.4     39.0     12,081     18.0	15.1     60.3     24.6     7,170     18.4     60.7       16.9     60.5     22.6     13,836     18.8     61.2       17.5     57.4     25.1     7,848     19.9     57.6       16.0     56.6     27.4     11,332     17.1     57.2       14.4     50.8     34.8     51,189     16.5     51.4       12.8     48.3     38.9     8,717     14.8     52.6       14.2     57.6     28.3     18,511     16.5     56.7       15.7     45.4     39.0     12,081     18.0     45.7	15.1       60.3       24.6       7,170       18.4       60.7       20.9         16.9       60.5       22.6       13,836       18.8       61.2       19.9         17.5       57.4       25.1       7,848       19.9       57.6       22.5         16.0       56.6       27.4       11,332       17.1       57.2       25.7         14.4       50.8       34.8       51,189       16.5       51.4       32.2         12.8       48.3       38.9       8,717       14.8       52.6       32.6         14.2       57.6       28.3       18,511       16.5       56.7       26.8         15.7       45.4       39.0       12,081       18.0       45.7       36.3

Table 34.9: Cooking Fuel by County, Constituency and Wards

County/Constituency/Wards	Electricity	Paraffin	LPG	Biogas	Firewood	Charcoal	Solar	Other	Households
Kenya	0.8	11.7	5.1	0.7	64.4	17.0	0.1	0.3	8,493,380
Rural	0.2	1.4	0.6	0.3	90.3	7.1	0.1	0.1	5,239,879
Urban	1.8	28.3	12.3	1.4	22.7	32.8	0.0	0.6	3,253,501
Nyamira County	0.2	1.4	0.7	0.3	90.7	6.6	0.0	0.1	127,735
Kitutu Masaba Constituency	0.2	1.3	0.5	0.3	90.9	6.6	0.0	0.1	42,408
Rigoma	0.4	2.4	1.0	0.6	78.9	16.5	0.0	0.1	9,559
Gachuba	-	0.3	0.1	0.1	97.5	1.9	0.1	0.0	6,721
Kemera	0.3	1.4	0.2	0.2	91.8	5.7	0.0	0.3	7,275
Magombo	0.1	0.8	0.4	0.1	95.8	2.6	0.0	0.1	4,675
Manga	0.4	1.6	0.7	0.3	91.6	5.3	0.0	0.1	6,555
Gesima	0.1	0.8	0.1	0.3	95.9	2.8	0.0	0.0	7,623
West Mugirango Constituency	0.2	1.8	1.2	0.3	88.6	7.8	0.0	0.1	33,897
Nyamaiya	0.1	0.5	0.2	0.5	93.2	5.3	0.1	0.1	6,963
Bogichora	0.0	0.3	0.6	0.3	96.7	2.0	0.0	0.0	8,788
Bosamaro	0.0	2.1	0.2	0.2	95.2	2.3	-	0.1	8,219
Bonyamatuta	0.3	2.6	0.7	0.3	84.1	11.9	0.0	0.1	5,384
Township	0.7	5.2	6.1	0.3	59.3	28.2	0.0	0.2	4,543
North Mugirango Constituency	0.1	1.1	0.3	0.4	94.5	3.5	0.1	0.0	25,234

Itibo	0.1	0.5	0.3	0.5	95.9	2.6	0.0	0.0	5,677
Bomwagamo	_	0.1	0.2	0.4	97.5	1.7	0.1	0.0	3,637
Bonwagamo		0.1	0.2	0.7	01.0	1.,	0.1	0.0	0,001
Bokeira	0.2	1.4	0.2	0.3	95.2	2.6	0.0	0.1	6,181
Magwagwa	0.2	0.6	0.1	0.2	96.1	2.9	0.1	0.0	3,962
Ekerenyo	0.1	2.1	0.5	0.5	89.5	7.1	0.1	0.1	5,777
Borabu Constituency	0.3	1.4	0.7	0.2	89.5	7.9	0.0	0.0	26,196
Mekenene	0.2	1.6	0.8	0.3	90.7	6.4	0.0	-	4,668
Kiabonyoru	0.2	1.1	0.4	0.3	93.1	4.9	0.0	-	9,347
Nyansiongo	0.5	2.5	1.5	0.2	79.4	15.8	0.0	0.0	6,506
Esise	0.1	0.5	0.3	0.1	94.0	4.9	0.1	0.0	5,675

Table 34.10: Cooking Fuel for Male Headed Households by County, Constituency and Wards

County/Constituency/Wards	Electricity	Paraffin	LPG	Biogas	Firewood	Charcoal	Solar	Other	Households
Kenya	0.9	13.5	5.3	0.8	61.4	17.7	0.1	0.4	5,762,320
Rural	0.2	1.6	0.6	0.3	89.6	7.5	0.1	0.1	3,413,616
Urban	1.9	30.9	12.0	1.4	20.4	32.5	0.0	0.7	2,348,704
Nyamira County	0.3	1.5	0.8	0.3	90.2	6.8	0.0	0.1	85,702
Kitutu Masaba Constituency	0.3	1.5	0.6	0.3	90.0	7.2	0.0	0.1	27,112
Rigoma	0.6	2.7	1.3	0.7	77.1	17.6	0.0	0.1	6,117
Gachuba	0.0	0.3	0.1	0.1	97.3	2.0	0.1	0.0	4,118
Kemera	0.4	1.5	0.3	0.2	91.0	6.2	0.0	0.3	4,754
Magombo	0.1	1.2	0.4	0.0	95.2	2.9	0.0	0.1	3,010
Manga	0.4	2.0	0.8	0.3	90.6	5.8	0.0	0.1	4,224
Gesima	0.1	1.0	0.1	0.3	95.2	3.1	0.1	0.0	4,889
West Mugirango Constituency	0.2	1.8	1.4	0.3	88.0	8.1	0.0	0.1	22,549
Nyamaiya	0.2	0.5	0.3	0.5	93.0	5.4	0.0	0.1	4,394
Bogichora	0.1	0.4	0.6	0.3	96.5	2.1	0.0	0.0	5,756
Bosamaro	0.0	1.8	0.2	0.2	95.3	2.5	0.0	0.1	5,427
Bonyamatuta	0.4	2.4	0.9	0.3	83.8	11.9	0.0	0.1	3,801
Township	0.6	5.8	6.9	0.3	58.4	27.7	0.1	0.2	3,171
North Mugirango Constituency	0.2	1.2	0.3	0.3	94.3	3.6	0.1	0.1	17,581
Itibo	0.2	0.5	0.4	0.4	95.8	2.7	0.0	0.0	4,080
Bomwagamo	0.0	0.2	0.2	0.4	97.3	1.8	0.1	0.0	2,480
Bokeira	0.2	1.4	0.3	0.2	94.8	2.9	0.0	0.1	4,219
Magwagwa	0.1	0.7	0.1	0.2	95.7	3.1	0.1	0.0	2,805
Ekerenyo	0.2	2.5	0.6	0.3	89.5	6.8	0.1	0.1	3,997
Borabu Constituency	0.3	1.5	0.8	0.2	89.2	7.9	0.0	0.0	18,460
Mekenene	0.2	1.8	0.9	0.3	90.2	6.5	0.0	0.0	3,425
Kiabonyoru	0.2	1.0	0.4	0.4	93.1	4.9	0.0	0.0	6,505
Nyansiongo	0.6	2.9	1.6	0.1	79.1	15.6	0.0	0.1	4,549
Esise	0.2	0.6	0.3	0.1	93.3	5.5	0.1	0.0	3,981

Table 34.11: Cooking Fuel for Female Headed Households by County, Constituency and Wards

County/Constituency/Wards	Electricity	Paraffin	LPG	Biogas	Firewood	Charcoal	Solar	Other	Households
Kenya	0.6	7.9	4.6	0.7	70.6	15.5	0.0	0.1	2,731,060
Rural	0.1	1.0	0.5	0.3	91.5	6.5	0.0	0.1	1,826,263
Urban	1.6	21.7	13.0	1.5	28.5	33.6	0.0	0.3	904,797
Nyamira County	0.1	1.1	0.5	0.3	91.8	6.1	0.0	0.1	42,033
Kitutu Masaba Constituency	0.1	0.9	0.3	0.3	92.7	5.6	0.0	0.1	15,296
Rigoma	0.2	1.9	0.6	0.3	82.2	14.6	0.1	0.1	3,442
Gachuba	-	0.2	-	0.2	97.9	1.6	0.0	0.0	2,603
Kemera	0.0	1.3	0.1	0.2	93.1	4.8	0.0	0.3	2,521
Magombo	-	0.1	0.4	0.4	96.9	2.1	0.1	-	1,665
Manga	0.3	0.9	0.5	0.3	93.5	4.4	0.0	0.2	2,331
Gesima	-	0.5	0.0	0.2	97.1	2.1	-	-	2,734
West Mugirango Constituency	0.1	1.7	0.8	0.4	89.7	7.3	0.0	0.1	11,348
Nyamaiya	0.0	0.5	0.1	0.6	93.5	5.1	0.1	0.0	2,569
Bogichora	-	0.2	0.5	0.3	97.1	1.8	0.0	0.0	3,032
Bosamaro	0.0	2.6	0.1	0.3	94.9	1.9	-	0.0	2,792
Bonyamatuta	-	2.9	0.3	0.3	84.7	11.7	-	0.1	1,583
Township	0.7	3.9	4.4	0.2	61.4	29.3	-	0.1	1,372
North Mugirango Constituency	0.1	0.8	0.2	0.5	94.9	3.4	0.0	0.0	7,653
Itibo	0.1	0.6	0.3	0.6	96.1	2.3	0.1	-	1,597
Bomwagamo	-	0.1	0.3	0.3	97.8	1.5	0.1	-	1,157
Bokeira	0.1	1.4	0.2	0.4	96.1	1.9	-	0.1	1,962
Magwagwa	0.2	0.3	-	0.2	97.1	2.3	-	-	1,157
Ekerenyo	0.1	1.3	0.4	0.8	89.3	8.0	-	0.1	1,780
Borabu Constituency	0.1	1.1	0.7	0.2	90.2	7.7	0.0	0.0	7,736
Mekenene	0.1	0.9	0.6	0.2	91.9	6.4	-	-	1,243
Kiabonyoru	0.2	1.2	0.4	0.2	93.1	4.9	0.0	-	2,842
Nyansiongo	0.2	1.5	1.4	0.2	80.1	16.5	-	-	1,957
Esise	0.1	0.4	0.4	0.1	95.7	3.4	-	0.1	1,694

Table 34.12: Lighting Fuel by County, Constituency and Wards

County/Constituency/Wards	Electricity	Pressure Lamp	Lantern	Tin Lamp	Gas Lamp	Fuelwood	Solar	Other	Households
Kenya	22.9	0.6	30.6	38.5	0.9	4.3	1.6	0.6	5,762,320
Rural	5.2	0.4	34.7	49.0	1.0	6.7	2.2	0.7	3,413,616
Urban	51.4	0.8	23.9	21.6	0.6	0.4	0.7	0.6	2,348,704
Nyamira County	5.8	0.4	40.3	51.6	0.5	0.2	1.0	0.1	85,702
Kitutu Masaba Constituency	4.2	0.5	42.8	50.5	0.6	0.2	1.2	0.1	27,112
Rigoma	9.1	0.6	39.9	48.8	0.4	0.1	1.1	0.2	6,117
Gachuba	1.2	0.4	36.5	59.5	0.6	0.0	1.7	0.0	4,118
Kemera	3.6	0.5	40.2	53.4	0.8	0.3	1.2	0.1	4,754
Magombo	1.9	0.5	49.2	46.5	0.7	0.1	1.0	0.0	3,010
Manga	5.7	0.4	46.3	45.4	0.7	0.2	1.3	0.0	4,224
Gesima	1.7	0.5	47.5	48.5	0.5	0.2	1.1	0.0	4,889
West Mugirango Constituency	7.4	0.5	39.1	51.3	0.6	0.2	0.8	0.1	22,549
Nyamaiya	5.1	0.5	27.1	65.6	0.5	0.4	0.7	0.1	4,394
Bogichora	2.3	0.4	39.1	56.5	1.0	0.3	0.5	0.0	5,756
Bosamaro	1.3	0.3	43.2	53.5	0.5	0.3	0.8	0.0	5,427
Bonyamatuta	7.9	0.5	47.8	42.3	0.4	0.1	0.8	0.1	3,801
Township	31.3	0.8	39.6	26.1	0.4	0.1	1.5	0.1	3,171
North Mugirango Constituency	4.1	0.2	37.9	55.8	0.5	0.5	0.9	0.1	17,581
Itibo	4.5	0.2	44.5	49.1	0.4	0.4	1.1	0.0	4,080
Bomwagamo	1.9	0.1	30.4	64.3	0.7	2.1	0.5	0.0	2,480
Bokeira	3.1	0.2	29.9	65.2	0.4	0.3	0.8	0.1	4,219
Magwagwa	4.3	0.4	43.1	50.9	0.5	0.1	0.6	0.1	2,805
Ekerenyo	6.1	0.3	41.1	50.5	0.6	0.1	1.1	0.1	3,997
Borabu Constituency	7.9	0.5	40.3	49.5	0.4	0.2	1.1	0.1	18,460
Mekenene	3.8	0.5	41.0	53.0	0.5	0.0	1.0	0.0	3,425
Kiabonyoru	5.2	0.3	36.9	56.1	0.5	0.2	0.7	0.1	6,505
Nyansiongo	14.9	0.6	39.0	43.5	0.3	0.2	1.4	0.2	4,549
Esise	7.9	0.7	46.6	42.7	0.3	0.2	1.7	0.0	3,981

Table 34.13: Lighting Fuel for Male Headed Households by County, Constituency and Wards

County/Constituency/Wards	Electricity	Pressure Lamp	Lantern	Tin Lamp	Gas Lamp	Fuelwood	Solar	Other	Households
Kenya	24.6	0.6	30.4	36.8	0.9	4.2	1.7	0.7	5,762,320
								-	., . ,
Rural	5.6	0.5	35.3	47.5	1.1	6.8	2.4	0.7	3,413,616
Urban	52.4	0.9	23.3	21.2	0.6	0.4	0.7	0.7	2,348,704
Nyamira County	6.4	0.5	41.5	49.6	0.5	0.2	1.2	0.1	85,702
Kitutu Masaba Constituency	4.9	0.6	44.1	48.1	0.6	0.2	1.5	0.1	27,112
Rigoma	10.4	0.6	40.7	46.3	0.4	0.1	1.3	0.2	6,117
Gachuba	1.4	0.5	37.3	57.7	0.6	0.0	2.5	0.0	4,118
Kemera	4.1	0.7	41.6	51.1	0.8	0.2	1.4	0.1	4,754
Magombo	2.4	0.6	51.4	43.5	0.8	0.2	1.1	0.0	3,010
Manga	6.3	0.5	47.1	43.5	0.8	0.2	1.6	0.0	4,224
Gesima	2.1	0.6	49.4	46.0	0.5	0.1	1.2	0.0	4,889
West Mugirango Constituency	8.1	0.5	40.9	48.7	0.5	0.2	0.9	0.1	22,549
Nyamaiya	5.4	0.6	28.2	64.0	0.5	0.4	0.8	0.1	4,394
Bogichora	2.6	0.4	41.8	53.5	0.9	0.3	0.6	0.0	5,756
Bosamaro	1.4	0.4	45.2	51.3	0.4	0.2	0.9	0.1	5,427
Bonyamatuta	8.3	0.5	49.3	40.2	0.4	0.1	1.0	0.2	3,801
Township	33.1	0.9	39.3	24.5	0.4	0.1	1.5	0.2	3,171
North Mugirango Constituency	4.5	0.3	39.3	54.0	0.5	0.5	0.9	0.1	17,581
Itibo	4.6	0.2	45.1	48.2	0.4	0.4	1.2	0.0	4,080
Bomwagamo	2.3	0.2	32.1	62.0	0.6	2.3	0.4	0.0	2,480
Bokeira	3.5	0.3	31.2	63.5	0.3	0.3	0.9	0.1	4,219
Magwagwa	4.3	0.5	45.2	48.6	0.4	0.1	0.7	0.1	2,805
Ekerenyo	6.8	0.4	42.0	48.9	0.7	0.1	1.2	0.1	3,997
Borabu Constituency	8.2	0.5	40.7	48.8	0.4	0.2	1.2	0.1	18,460
Mekenene	4.4	0.5	41.1	52.4	0.5	0.0	1.1	0.0	3,425
Kiabonyoru	5.3	0.3	38.6	54.2	0.5	0.2	0.8	0.1	6,505
Nyansiongo	15.1	0.6	37.9	44.3	0.4	0.1	1.3	0.2	4,549
Esise	8.3	0.7	46.8	41.9	0.3	0.2	1.9	0.0	3,981

Table 34.14: Lighting Fuel for Female Headed Households by County, Constituency and Wards

County/Constituency/ Wards	Electricity	Pressure Lamp	Lantern	Tin Lamp	Gas Lamp	Fuelwood	Solar	Other	House- holds
Kenya	19.2	0.5	31.0	42.1	0.8	4.5	1.4	0.5	2,731,060
Rural	4.5	0.4	33.7	51.8	0.8	6.5	1.8	0.5	1,826,263
Urban	48.8	0.8	25.4	22.6	0.7	0.6	0.6	0.5	904,797
							_		
Nyamira County	4.7	0.3	37.9	55.5	0.6	0.3	0.7	0.0	42,033
Kitutu Masaba Constituency	3.1	0.3	40.4	54.7	0.6	0.2	0.8	0.0	15,296
Rigoma	6.7	0.4	38.4	53.1	0.4	0.1	0.8	0.1	3,442
ŭ									,
Gachuba	0.9	0.2	35.2	62.4	0.7	0.0	0.6	-	2,603

									Y
Kemera	2.5	0.2	37.5	57.9	0.7	0.4	0.7	0.0	2,521
Magombo	1.1	0.4	45.2	52.0	0.5	-	0.8	-	1,665
Manga	4.5	0.3	44.7	49.0	0.6	0.2	0.7	0.0	2,331
Gesima	1.1	0.3	44.0	52.9	0.5	0.2	1.0	-	2,734
West Mugirango Constit- uency	6.0	0.3	35.5	56.5	0.7	0.3	0.6	0.0	11,348
Nyamaiya	4.5	0.4	25.2	68.4	0.5	0.4	0.7	-	2,569
Bogichora	1.7	0.3	33.9	62.2	1.2	0.3	0.4	-	3,032
Bosamaro	1.1	0.1	39.4	57.8	0.7	0.4	0.6	-	2,792
Bonyamatuta	6.9	0.4	44.3	47.5	0.2	0.1	0.3	0.1	1,583
Township	27.3	0.6	40.4	29.8	0.4	0.1	1.3	-	1,372
North Mugirango Constituency	3.3	0.1	34.8	60.0	0.5	0.5	0.7	0.1	7,653
Itibo	4.1	0.1	42.8	51.4	0.3	0.3	0.9	0.1	1,597
Bomwagamo	0.9	-	26.7	69.4	0.7	1.6	0.7	-	1,157
Bokeira	2.3	0.1	27.1	69.0	0.5	0.4	0.5	0.1	1,962
Magwagwa	4.1	0.3	38.0	56.4	0.7	-	0.4	0.1	1,157
Ekerenyo	4.7	0.2	39.1	54.2	0.5	0.2	1.0	0.2	1,780
Borabu Constituency	7.3	0.4	39.3	51.3	0.4	0.2	1.0	0.1	7,736
Mekenene	2.2	0.5	40.7	54.9	0.6	0.1	1.0	0.1	1,243
Kiabonyoru	4.9	0.2	33.1	60.4	0.6	0.3	0.5	0.0	2,842
Nyansiongo	14.3	0.4	41.7	41.7	0.2	0.2	1.4	0.1	1,957
Esise	7.0	0.6	46.2	44.5	0.4	0.2	1.1	0.1	1,694

Table 34.15: Main material of the Floor by County, Constituency and Wards

County/Constituency/ wards	Cement	Tiles	Wood	Earth	Other	Households
Kenya	41.2	1.6	0.7	56.0	0.5	8,493,380
Rural	22.1	0.3	0.7	76.5	0.4	5,239,879
Urban	71.8	3.5	0.9	23.0	0.8	3,253,501
Nyamira County	22.7	0.3	0.5	76.1	0.4	127,735
Kitutu Masaba Constituency	20.9	0.3	0.4	78.0	0.5	42,408
Rigoma	33.4	0.5	0.2	65.7	0.1	9,559
Gachuba	14.4	0.2	0.4	84.0	1.0	6,721
Kemera	20.4	0.3	0.5	78.6	0.2	7,275
Magombo	16.0	0.2	0.4	83.3	0.2	4,675
Manga	21.0	0.2	0.4	77.9	0.4	6,555
Gesima	14.1	0.3	0.6	84.1	0.9	7,623
West Mugirango Constituency	21.8	0.4	0.7	77.0	0.1	33,897
Nyamaiya	15.8	0.3	0.9	82.9	0.1	6,963
Bogichora	13.1	0.3	0.4	86.1	0.2	8,788
Bosamaro	11.8	0.1	0.5	87.4	0.2	8,219
Bonyamatuta	29.0	0.4	0.3	70.2	0.1	5,384
Township	56.9	1.1	1.9	39.8	0.3	4,543
North Mugirango Constituency	14.2	0.2	0.4	85.0	0.2	25,234
Itibo	13.7	0.2	0.2	85.1	0.7	5,677
Bomwagamo	8.9	0.1	0.6	90.3	0.1	3,637
Bokeira	10.6	0.1	0.7	88.5	0.0	6,181
Magwagwa	10.7	0.2	0.4	88.6	0.1	3,962
Ekerenyo	24.3	0.2	0.2	75.2	0.1	5,777
Borabu Constituency	34.8	0.6	0.4	63.3	1.0	26,196
Mekenene	60.9	0.6	0.4	36.6	1.4	4,668
Kiabonyoru	19.0	0.2	0.4	80.3	0.1	9,347
Nyansiongo	45.7	1.2	0.5	50.5	2.1	6,506
Esise	26.9	0.4	0.2	71.8	0.8	5,675

Table 34.16: Main Material of the Floor in Male and Female Headed Households by County, Constituency and Ward

County/Constituency/ wards	Cement	Tiles	Wood	Earth	Other	Households	Cement	Tiles	Wood	Earth	Other	Households
Kenya	42.8	1.6	0.8	54.2	0.6	5,762,320	37.7	1.4	0.7	59.8	0.5	2,731,060
Rural	22.1	0.3	0.7	76.4	0.4	3,413,616	22.2	0.3	0.6	76.6	0.3	1,826,263
Urban	72.9	3.5	0.9	21.9	0.8	2,348,704	69.0	3.6	0.9	25.8	0.8	904,797
Nyamira County	23.4	0.4	0.5	75.4	0.4	85,702	21.2	0.3	0.5	77.5	0.5	42,033
Kitutu Masaba Constituency	22.0	0.3	0.4	76.8	0.5	27,112	18.9	0.3	0.4	80.0	0.4	15,296
,												
Rigoma	35.2	0.6	0.2	63.9	0.1	6,117	30.3	0.4	0.2	69.0	0.1	3,442
Gachuba	15.5	0.2	0.3	82.9	1.0	4,118	12.6	0.2	0.4	85.9	0.9	2,603
Kemera	21.1	0.3	0.5	77.9	0.1	4,754	19.2	0.2	0.4	80.0	0.2	2,521

Magombo	17.3	0.1	0.2	82.3	0.1	3,010	13.5	0.3	0.6	85.2	0.4	1,665
Manga	21.9	0.2	0.5	76.9	0.5	4,224	19.4	0.3	0.3	79.9	0.1	2,331
Gesima	14.8	0.2	0.7	83.3	1.0	4,889	12.9	0.3	0.5	85.4	0.8	2,734
West Mugirango Constit- uency	22.6	0.4	0.7	76.2	0.2	22,549	20.1	0.3	0.7	78.6	0.1	11,348
Nyamaiya	16.5	0.2	0.9	82.3	0.1	4,394	14.8	0.4	1.0	83.8	0.1	2,569
Bogichora	13.8	0.3	0.4	85.3	0.1	5,756	11.8	0.2	0.4	87.5	0.2	3,032
Bosamaro	11.6	0.1	0.4	87.8	0.1	5,427	12.2	0.2	0.6	86.7	0.2	2,792
Bonyamatuta	29.3	0.4	0.3	69.9	0.1	3,801	28.2	0.3	0.3	71.1	0.1	1,583
Township	57.6	1.1	1.9	39.0	0.4	3,171	55.4	0.9	1.9	41.8	-	1,372
North Mugirango Constituency	14.4	0.2	0.4	84.8	0.2	17,581	13.9	0.1	0.5	85.2	0.2	7,653
Itibo	13.6	0.3	0.2	85.3	0.6	4,080	14.0	0.1	0.4	84.6	0.9	1,597
Bomwagamo	9.6	0.1	0.6	89.6	0.1	2,480	7.4	-	0.5	92.0	-	1,157
Bokeira	11.4	0.1	0.8	87.7	-	4,219	9.0	0.1	0.7	90.1	0.2	1,962
Magwagwa	11.1	0.1	0.4	88.3	0.1	2,805	9.8	0.3	0.5	89.5	-	1,157
Ekerenyo	23.5	0.3	0.2	76.0	0.1	3,997	26.1	0.2	0.2	73.4	0.1	1,780
Borabu Constituency	34.9	0.6	0.4	63.2	0.9	18,460	34.7	0.6	0.3	63.3	1.2	7,736
Mekenene	61.9	0.7	0.5	35.7	1.2	3,425	58.4	0.5	0.2	39.0	1.9	1,243
Kiabonyoru	18.8	0.2	0.4	80.4	0.1	6,505	19.4	0.2	0.4	79.9	0.1	2,842
Nyansiongo	44.9	1.1	0.6	51.6	1.8	4,549	47.4	1.3	0.5	47.9	2.9	1,957
Esise	26.3	0.3	0.3	72.2	0.9	3,981	28.3	0.4	-	70.9	0.4	1,694

Table 34.17: Main Roofing Material by County Constituency and Wards

O	0(							Mud		
County/Constituency/ Wards	Corrugated Iron Sheets	Tiles	Concrete	Asbestos sheets	Grass	Makuti	Tin	/Dung	Other	Households
Kenya	73.5	2.2	3.6	2.2	13.3	3.2	0.3	0.8	1.0	8,493,380
Rural	70.3	0.7	0.2	1.8	20.2	4.2	0.2	1.2	1.1	5,239,879
Urban	78.5	4.6	9.1	2.9	2.1	1.5	0.3	0.1	0.9	3,253,501
Nyamira County	89.6	0.8	0.2	1.8	7.1	0.1	0.1	0.0	0.3	127,735
Kitutu Masaba Constit- uency	86.7	0.7	0.1	2.0	9.9	0.2	0.2	0.0	0.1	42,408
Rigoma	83.1	0.6	0.4	3.0	11.8	0.0	1.0	0.0	0.0	9,559
Gachuba	84.9	0.7	0.1	1.9	12.0	0.2	0.0	0.0	0.0	6,721
Kemera	85.0	0.7	0.1	3.1	11.0	0.0	0.0	0.0	0.0	7,275
Magombo	91.1	0.4	0.1	1.6	5.5	1.2	0.0	0.0	0.1	4,675
Manga	91.2	1.0	0.0	0.2	6.9	0.3	0.0	0.0	0.3	6,555
Gesima	87.8	0.5	0.0	1.5	10.0	0.1	0.1	0.0	0.0	7,623

West Mugirango Constituency	92.3	0.6	0.4	1.5	4.9	0.1	0.0	0.1	0.1	33,897
Nyamaiya	89.7	0.5	0.2	2.4	7.1	0.1	0.0	0.0	0.0	6,963
Bogichora	93.5	0.4	0.1	0.1	5.8	0.1	0.0	0.0	0.0	8,788
Bosamaro	91.0	0.5	0.0	1.9	6.4	0.0	0.0	0.0	0.1	8,219
Bonyamatuta	94.9	0.6	0.0	2.1	2.1	0.1	0.1	0.0	0.0	5,384
Township	93.4	1.3	2.5	1.7	0.6	0.0	0.0	0.3	0.2	4,543
North Mugirango Constituency	90.8	0.3	0.1	1.1	7.5	0.1	0.0	0.0	0.1	25,234
Itibo	94.0	0.3	0.0	0.2	4.9	0.1	0.0	0.0	0.5	5,677
Bomwagamo	88.4	0.3	0.0	0.1	11.1	0.1	0.0	0.0	0.0	3,637
Bokeira	89.5	0.4	0.0	2.1	8.0	0.0	0.0	0.0	0.0	6,181
Magwagwa	90.4	0.7	0.1	0.2	8.5	0.1	0.0	0.0	0.0	3,962
Ekerenyo	90.7	0.2	0.3	2.1	6.5	0.1	0.0	0.1	0.0	5,777
Borabu Constituency	89.6	1.7	0.2	2.4	5.0	0.1	0.0	0.0	0.9	26,196
Mekenene	83.0	6.1	0.1	5.5	3.8	0.0	0.0	0.0	1.4	4,668
Kiabonyoru	92.7	0.9	0.0	2.7	3.4	0.2	0.0	0.0	0.0	9,347
Nyansiongo	92.9	1.0	0.5	0.4	3.0	0.0	0.1	0.0	2.1	6,506
Esise	85.9	0.5	0.1	1.4	11.1	0.1	0.0	0.1	0.7	5,675

Table 34.18: Main Roofing Material in Male Headed Households by County, Constituency and Wards

County/Constitu-	Corrugated			Asbestos				Mud/		
ency/Wards	Iron Sheets	Tiles	Concrete	sheets	Grass	Makuti	Tin	Dung	Other	Households
Kenya	73.0	2.3	3.9	2.3	13.5	3.2	0.3	0.5	1.0	5,762,320
Rural	69.2	0.8	0.2	1.8	21.5	4.4	0.2	0.9	1.1	3,413,616
Urban	78.5	4.6	9.3	2.9	2.0	1.4	0.3	0.1	0.9	2,348,704
Nyamira County	89.2	0.9	0.2	1.7	7.5	0.1	0.1	0.0	0.3	85,702
Kitutu Masaba Constituency	86.2	0.6	0.2	1.9	10.5	0.2	0.2	0.0	0.1	27,112
Rigoma	82.6	0.6	0.4	3.0	12.4	-	1.0	0.0	-	6,117
Gachuba	84.9	0.6	0.1	1.5	12.7	0.2	-	0.0		4,118
Kemera	84.5	0.6	0.1	3.2	11.5	0.1	-	0.0	0.0	4,754
Magombo	90.9	0.4	0.1	1.5	6.0	1.1	-	1	0.1	3,010
Manga	90.1	1.2	0.0	0.2	7.5	0.4	0.0	,	0.4	4,224
Gesima	87.1	0.5	0.0	1.4	10.8	0.0	0.1		0.0	4,889
West Mugirango Constituency	91.9	0.7	0.4	1.4	5.3	0.1	0.0	0.1	0.1	22,549
Nyamaiya	89.7	0.4	0.2	1.7	7.8	0.1	-	0.1	0.0	4,394
Bogichora	93.1	0.5	0.1	0.1	6.1	0.2	0.0	0.0	0.0	5,756
Bosamaro	90.1	0.5	-	1.9	7.4	0.0	0.0	0.0	0.1	5,427

Bonyamatuta	94.5	0.7	0.0	2.3	2.2	0.2	0.1	-	0.0	3,801
Township	93.1	1.6	2.4	1.7	0.6	-	0.0	0.3	0.3	3,171
North Mugirango Constituency	90.3	0.4	0.1	1.1	8.0	0.1	0.0	0.0	0.1	17,581
Itibo	93.7	0.3	0.0	0.1	5.2	0.1	-	-	0.5	4,080
Bomwagamo	87.9	0.2	0.0	0.1	11.6	0.0	-	-	0.0	2,480
Bokeira	88.5	0.4	0.0	2.2	8.8	0.0	0.0	-	-	4,219
Magwagwa	89.8	0.5	0.1	0.1	9.3	0.1	-	-	-	2,805
Ekerenyo	90.4	0.3	0.3	2.2	6.8	0.1	-	0.1	-	3,997
Borabu Constit- uency	89.4	1.9	0.2	2.4	5.1	0.1	0.1	0.0	0.8	18,460
Mekenene	82.2	6.6	0.1	6.0	3.8	0.0	-	0.0	1.2	3,425
Kiabonyoru	93.0	0.9	0.1	2.6	3.2	0.2	0.0	-	0.0	6,505
Nyansiongo	93.1	1.1	0.4	0.5	3.0	0.0	0.2	-	1.7	4,549
Esise	85.4	0.5	-	1.3	11.8	0.1	-	0.1	0.9	3,981

Table 34.19: Main Roofing Material in Female Headed Households by County, Constituency and Wards

								Mud		
County/Constituency/Wards	Corrugated Iron Sheets	Tiles	Concrete	Asbestos sheets	Grass	Makuti	Tin	/Dung	Other	Households
Kenya	74.5	2.0	3.0	2.2	12.7	3.2	0.3	1.2	1.0	2,731,060
Rural	72.5	0.7	0.1	1.8	17.8	3.9	0.3	1.8	1.1	1,826,263
Urban	78.6	4.5	8.7	2.9	2.3	1.6	0.3	0.1	0.9	904,797
Nyamira County	90.3	0.7	0.2	1.9	6.4	0.1	0.1	0.0	0.3	42,033
Kitutu Masaba Constituency	87.6	0.7	0.1	2.1	8.8	0.2	0.3	0.0	0.0	15,296
Rigoma	84.2	0.6	0.4	3.0	10.7	-	1.1	-	-	3,442
Gachuba	85.0	1.0	-	2.7	10.9	0.3	0.0	0.1	-	2,603
Kemera	86.0	1.0	0.0	2.9	9.9	-	0.1	0.0	-	2,521
Magombo	91.5	0.4	-	1.8	4.6	1.4	0.1	-	0.2	1,665
Manga	93.0	0.7	-	0.2	5.9	0.1	-	-	0.1	2,331
Gesima	89.1	0.6	-	1.7	8.4	0.1	0.0	0.0	-	2,734
West Mugirango Constituency	93.1	0.4	0.4	1.8	4.2	0.0	0.0	0.0	0.0	11,348
Nyamaiya	89.7	0.7	0.1	3.5	6.0	0.1	0.0	-	-	2,569
Bogichora	94.4	0.1	0.1	0.1	5.1	0.1	0.1	-	-	3,032

Bosamaro	92.8	0.4	0.1	2.0	4.6	0.0	_	_	0.1	2,792
Bosamaro	32.0	0.4	0.1	2.0	7.0	0.0			0.1	2,132
Bonyamatuta	96.0	0.4	0.1	1.7	1.8	-	0.1	-	-	1,583
Township	94.1	0.6	2.6	1.7	0.8	-	_	0.2	-	1,372
North Mugirango Constituency	91.9	0.3	0.1	1.1	6.3	0.1	,	0.0	0.2	7,653
Itibo	94.6	0.1	-	0.3	4.1	0.1	-	0.1	0.8	1,597
Bomwagamo	89.4	0.3	-	0.2	9.9	0.2	-	-	-	1,157
Bokeira	91.5	0.4	-	1.9	6.2	-	-	-	-	1,962
Magwagwa	91.9	1.0	-	0.3	6.5	0.3		-	-	1,157
Ekerenyo	91.6	0.1	0.4	2.0	5.8	0.1	_	-	-	1,780
Borabu Constituency	90.1	1.4	0.2	2.2	4.8	0.1	0.0	0.0	1.1	7,736
Mekenene	85.3	4.7	0.2	4.1	3.7	0.1	-	-	1.9	1,243
Kiabonyoru	92.2	0.8	-	3.0	3.9	0.1	-	-	0.0	2,842
Nyansiongo	92.6	0.8	0.6	0.2	3.0	0.1	_	-	2.8	1,957
Esise	87.2	0.6	0.2	1.8	9.4	0.2	0.1	0.1	0.4	1,694

Table 34.20: Main material of the wall by County, Constituency and Wards

		Brick/	Mud/	Mud/	Wood	Corrugat-	Grass/			
County/Constituency/Wards	Stone	Block	Wood	Cement	only	Sheets	Reeds	Tin	Other	Households
Kenya	16.7	16.9	36.5	7.7	11.1	6.7	3.0	0.3	1.2	8,493,380
Rural	5.7	13.8	50.0	7.6	14.4	2.5	4.4	0.3	1.4	5,239,879
Urban	34.5	21.9	14.8	7.8	5.8	13.3	0.8	0.3	0.9	3,253,501
Nyamira County	0.8	20.1	71.0	6.9	0.6	0.3	0.2	0.0	0.3	127,735
Kitutu Masaba Constituency	0.6	18.7	72.0	7.5	0.3	0.4	0.3	0.0	0.1	42,408
Rigoma	0.9	32.3	58.6	6.9	0.3	0.8	0.1	0.0	0.0	9,559
Gachuba	0.5	12.9	74.6	11.5	0.2	0.4	0.0	0.0	0.0	6,721
Kemera	0.4	18.2	73.1	6.0	0.5	0.1	1.7	0.0	0.0	7,275
Magombo	0.7	13.2	82.7	2.7	0.2	0.4	0.0	0.0	0.1	4,675
Manga	0.8	17.3	75.5	5.6	0.3	0.1	0.0	0.0	0.3	6,555
Gesima	0.5	12.1	76.1	10.7	0.3	0.3	0.1	0.0	0.0	7,623
West Mugirango Constituency	1.2	18.9	71.3	7.7	0.5	0.2	0.0	0.0	0.1	33,897
Nyamaiya	1.6	12.3	73.8	11.5	0.5	0.1	0.1	0.0	0.1	6,963
Bogichora	0.4	11.9	78.6	8.4	0.5	0.1	0.0	0.0	0.0	8,788
Bosamaro	0.3	10.6	84.1	4.5	0.2	0.1	0.0	0.0	0.1	8,219
Bonyamatuta	0.8	26.5	64.7	7.0	0.6	0.3	0.0	0.0	0.0	5,384
Township	4.2	48.7	37.9	7.5	0.6	0.6	0.1	0.1	0.4	4,543
North Mugirango Constituency	0.5	10.9	81.5	6.3	0.3	0.2	0.2	0.0	0.1	25,234
Itibo	0.9	10.9	78.2	9.3	0.1	0.1	0.0	0.0	0.5	5,677
Bomwagamo	0.0	5.2	91.8	2.7	0.1	0.0	0.0	0.0	0.0	3,637

Bokeira	0.6	7.5	84.9	6.0	0.4	0.3	0.1	0.0	0.0	6,181
Magwagwa	0.2	9.1	86.8	3.6	0.2	0.1	0.1	0.0	0.0	3,962
Ekerenyo	0.4	19.2	70.8	7.8	0.7	0.4	0.6	0.0	0.0	5,777
Borabu Constituency	0.7	32.5	58.7	5.3	1.3	0.4	0.0	0.1	0.9	26,196
Mekenene	0.9	59.0	32.8	3.1	2.3	0.3	0.1	0.0	1.4	4,668
Kiabonyoru	0.3	16.6	76.5	6.2	0.2	0.2	0.1	0.0	0.0	9,347
Nyansiongo	1.5	42.7	44.1	6.1	2.4	1.0	0.0	0.1	2.1	6,506
Esise	0.5	25.3	67.4	4.6	1.0	0.3	0.0	0.1	0.7	5,675

Table 34.21: Main Material of the Wall in Male Headed Households by County, Constituency and Ward

		Brick/	Mud/	Mud			Grass/			
County/ Constituency/ Wards	Stone	Block	Wood	Cement	Wood only	Corrugated Iron Sheets	Reeds	Tin	Other	Households
Kenya	17.5	16.6	34.7	7.6	11.4	7.4	3.4	0.3	1.2	5,762,320
Rural	5.8	13.1	48.9	7.3	15.4	2.6	5.2	0.3	1.4	3,413,616
Urban	34.6	21.6	14.0	7.9	5.6	14.4	0.7	0.3	0.9	2,348,704
Nyamira County	0.8	20.8	70.2	6.8	0.6	0.4	0.1	0.0	0.3	85,702
Kitutu Masaba Constit- uency	0.6	20.0	70.8	7.4	0.3	0.4	0.3	0.0	0.1	27,112
Rigoma	0.7	34.2	57.1	6.5	0.3	1.0	0.1	0.0	0.0	6,117
Gachuba	0.5	13.9	73.2	11.6	0.2	0.5	-	-	-	4,118
Kemera	0.4	19.1	72.1	6.4	0.5	0.1	1.4	0.1	0.0	4,754
Magombo	0.6	14.7	81.2	2.7	0.2	0.5	-	0.0	0.1	3,010
Manga	0.9	18.3	74.1	5.7	0.4	0.1	0.0	0.0	0.4	4,224
Gesima	0.5	12.9	75.4	10.6	0.3	0.3	0.1	-	-	4,889
West Mugirango Constituency	1.3	19.8	70.3	7.7	0.5	0.2	0.0	0.0	0.1	22,549
Nyamaiya	1.8	12.7	73.9	10.8	0.4	0.1	0.1	-	0.1	4,394
Bogichora	0.5	12.8	77.0	9.0	0.5	0.1	0.0	-	0.0	5,756
Bosamaro	0.3	10.5	84.3	4.4	0.2	0.1	-	-	0.1	5,427
Bonyamatuta	0.8	27.2	64.2	6.7	0.8	0.3	-	-	0.0	3,801
Township	4.3	49.2	36.7	7.7	0.7	0.8	0.1	0.1	0.5	3,171
North Mugirango Constituency	0.5	10.9	81.4	6.3	0.4	0.2	0.2	0.0	0.1	17,581
Itibo	0.7	10.9	78.3	9.4	0.0	0.1	0.0	-	0.4	4,080
Bomwagamo	0.0	5.7	91.3	2.7	0.2	0.0	0.0	-	-	2,480
Bokeira	0.7	8.0	84.4	6.0	0.5	0.4	0.1	0.0	-	4,219
Magwagwa	0.2	9.2	86.9	3.3	0.2	0.1	0.0	0.0	-	2,805

Ekerenyo	0.5	18.4	71.6	7.7	0.8	0.5	0.6	-	-	3,997
Borabu Constituency	0.8	32.6	58.6	5.1	1.5	0.5	0.0	0.0	0.8	18,460
Mekenene	1.0	59.7	31.8	3.2	2.7	0.3	0.1	0.0	1.2	3,425
Kiabonyoru	0.3	16.5	76.9	5.9	0.2	0.2	0.1	-	-	6,505
Nyansiongo	1.5	41.8	44.9	6.0	2.7	1.2	0.0	0.1	1.8	4,549
Esise	0.6	25.2	67.4	4.4	1.1	0.3	0.0	0.1	0.9	3,981

Table 34.22: Main Material of the Wall in Female Headed Households by County, Constituency and Ward

		Brick/	Mud/	Mud		Commente d luca	Grass/			
County/ Constituency	Stone	Block	Wood	Cement	Wood only	Corrugated Iron Sheets	Reeds	Tin	Other	Households
Kenya	15.0	17.5	40.4	7.9	10.5	5.1	2.1	0.3	1.2	2,731,060
Rural	5.4	14.9	52.1	8.0	12.6	2.4	2.8	0.4	1.4	1,826,263
Urban	34.2	22.6	16.9	7.6	6.2	10.5	0.8	0.3	0.9	904,797
Nyamira County	0.7	18.6	72.5	7.1	0.4	0.2	0.2	0.0	0.3	42,033
Kitutu Masaba Constituency	0.7	16.5	74.2	7.6	0.3	0.2	0.4	0.0	0.0	15,296
Rigoma	1.2	28.8	61.3	7.7	0.3	0.5	0.1	0.0	-	3,442
Gachuba	0.3	11.2	76.8	11.2	0.3	0.2	0.1	-	-	2,603
Kemera	0.5	16.7	74.9	5.4	0.3	0.0	2.2	-	0.0	2,521
Magombo	0.9	10.6	85.2	2.7	0.2	0.1	0.1	-	0.2	1,665
Manga	0.7	15.3	78.1	5.4	0.3	0.1	-	0.0	0.1	2,331
Gesima	0.4	10.5	77.3	11.0	0.3	0.3	0.1	0.0	-	2,734
West Mugirango Constituency	1.0	17.3	73.2	7.9	0.4	0.1	0.0	-	0.0	11,348
Nyamaiya	1.2	11.6	73.7	12.8	0.6	0.1	0.1	-	-	2,569
Bogichora	0.4	10.2	81.5	7.4	0.4	0.0	0.0	-	-	3,032
Bosamaro	0.3	10.9	83.8	4.5	0.2	0.1	0.0	-	0.1	2,792
Bonyamatuta	0.6	25.0	66.0	7.8	0.3	0.3	-	-	0.1	1,583
Township	3.9	47.7	40.5	7.1	0.5	0.3	-	-	-	1,372
North Mugirango Constituency	0.5	10.7	81.6	6.4	0.3	0.1	0.3	-	0.2	7,653
Itibo	1.3	10.8	78.0	8.8	0.3	-	-	-	0.8	1,597
Bomwagamo	-	4.1	93.0	2.9	-	-	-	-	-	1,157
Bokeira	0.5	6.6	86.2	6.1	0.3	0.3	0.1	-	-	1,962

Magwagwa	0.1	8.6	86.5	4.2	0.2	0.1	0.3	-	-	1,157
Ekerenyo	0.3	20.9	69.2	8.0	0.7	0.1	0.8	-	-	1,780
Borabu Constituency	0.6	32.3	58.9	5.6	0.9	0.3	0.1	0.1	1.2	7,736
Mekenene	0.6	56.9	35.7	3.0	1.4	0.2	0.1	0.1	1.9	1,243
Kiabonyoru	0.3	16.9	75.5	6.8	0.2	0.2	0.1	-	0.0	2,842
Nyansiongo	1.4	45.0	42.2	6.1	1.8	0.6	0.1	0.1	2.9	1,957
Esise	0.4	25.6	67.4	4.9	0.9	0.2	-	0.1	0.5	1,694

Table 34.23: Source of Water by County, Constituency and Ward

County/Constitu- ency/Wards	Pond	Dam	Lake	Stream/ River	Unprotect- ed Spring	Unpro- tected Well	Jabia	Water	Oth-	Unim- proved Sources	Protected Spring	Protected Well	Borehole	Piped into Dwelling	Piped	Rain Water Collec- tion	Im- proved Sourc- es	Number of Individuals
Kenya	2.7	2.4	1.2	23.2	5.0	6.9	0.3	5.2	0.4	47.4	7.6	7.7	11.6	5.9	19.2	0.7	52.6	37,919,647
Rural	3.6	3.2	1.5	29.6	6.4	8.7	0.4	2.2	0.5	26.0	9.5	8.1	12.0	1.8	12.1	0.8	44.0	26,075,195
Urban	6.0	0.7	0.5	9.2	1.9	2.9	0.2	11.8	0.1	28.3	4.0	8.9	10.7	14.7	34.9	0.5	71.7	11,844,452
Nyamira County	0.2	0.3	0.0	30.3	16.5	3.6	0.4	0.2	0.0	51.4	36.5	5.8	1.8	9.0	2.4	1.4	48.6	592,249
Kitutu Masaba Constituency	0:0	0:0	0.0	26.0	10.3	2.1	0.2	0.1	0.0	38.9	51.2	5.2	2.0	0.4	1.2	<u>+</u>	61.1	198,171
Rigoma	0.0	0.0	0.0	31.5	10.7	1.3	0.2	0.4	0.0	44.2	36.2	8.9	4.1	1.6	3.3	1.7	55.8	43,201
Gachuba	0.0	0.0	0.0	23.8	8.1	4.9	0.0	0.0	0.0	36.8	57.2	4.2	1.1	0.0	0.2	0.4	63.2	32,290
Kemera	0.0	0.1	0.0	9.3	4.7	0.7	0.2	0.1	0.0	15.1	80.0	3.0	0.5	0.1	0.8	0.5	84.9	35,264
Magombo	0.1	0.0	0.0	28.6	14.3	3.3	0:0	0.0	0.0	46.3	41.1	7.7	4.4	0.0	0.0	0.5	53.7	22,222
Manga	0.0	0.1	0.0	29.7	6.7	0.8	0.7	0.2	0.0	39.4	53.8	2.7	0.5	0.1	2.0	1.5	9.09	29,533
Gesima	0.1	0.0	0.1	33.1	16.9	2.3	0.1	0.0	0.0	52.5	39.5	4.6	1.7	0.0	0.1	1.5	47.5	35,661
West Mugirango Constituency	0:0	0.1	0.1	30.3	17.5	2.7	0.1	0.1	0.0	51.0	37.7	4.8	1.6	0.7	2.8	1.4	49.0	157,470
Nyamaiya	0.0	0.1	0.0	31.6	14.9	2.4	0.1	0:0	0.0	49.1	43.0	2.5	2.1	0.3	2.4	9.0	50.9	31,992
Bogichora	0.0	0.0	0.2	15.4	25.2	1.1	0.2	0.0	0.0	1.24	52.8	2.0	1.6	0.3	0.8	9.0	57.9	41,131
Bosamaro	0.0	0.1	0.0	33.7	13.9	2.9	0.1	0.1	0.0	8.03	41.8	5.0	1.3	0.2	0.1	6.0	49.2	39,642
Bonyamatuta	1.0	0.1	0.0	35.1	23.8	6.8	0.2	0.5	0.0	5.99	18.9	12.0	1.1	0.1	0.1	1.3	33.5	25,636
Township	1.0	0.1	0.0	47.1	4.2	1.0	0.1	0.2	0.0	25.8	13.5	4.7	1.8	4.1	17.1	5.9	47.2	19,069
North Mugirango Constituency	0.1	0.0	0.0	33.8	15.8	8.3	0.2	0.0	0.0	58.3	28.7	10.4	1.0	0.2	1.2	0.4	41.7	121,287
Itibo	0.1	0.0	0.0	26.7	29.4	2.0	0.3	0.0	0.0	61.6	25.9	9.3	0.6	0.2	2.1	0.4	38.4	26,876
Bomwagamo	0.0	0.0	0.0	56.9	13.7	5.1	0.5	0.0	0.0	76.2	18.2	3.1	1.8	0.1	0.5	0.1	23.8	17,156
Bokeira	0.1	0.0	0.0	29.7	10.3	13.5	0.0	0.0	0.0	53.7	34.8	9.8	1.1	0.3	0.1	0.3	46.3	32,446
Magwagwa	0.0	0.0	0.0	26.2	13.9	12.5	0.1	0.0	0.0	52.8	26.6	20.1	0.0	0.0	0.0	0.5	47.2	18,280
Ekerenyo	0.0	0.0	0.0	36.4	11.4	4.4	0.2	0.1	0.0	52.6	32.2	10.3	1.3	0.3	2.7	9.0	47.4	26,529
Borabu Constit- uency	7:0	1.5	0.0	33.7	26.3	2.4	1.2	0.7	0.0	6.99	18.0	3.4	2.5	1.2	5.4	2.9	33.5	115,321
Mekenene	0.2	1.8	0.1	36.8	4.2	0.7	0.0	3.7	0.0	5.74	8.0	4.9	3.6	3.9	30.4	1.8	52.5	18,473
Kiabonyoru	0.1	0.1	0.0	19.6	40.5	2.9	0.4	0.1	0.0	63.5	28.8	4.0	2.3	0.2	0.2	0.0	36.5	43,332

Nyansiongo (	0.0	4.1	0.0	43.5	23.9	2.7	0.8	0.1	0.0	72.3	12.7	2.9	3.3	6:0	1.2	6.7	27.7	26,857
Esise	2.9	3.5	0.1	44.8	21.2	2.4	3.7	0.1	0.0	78.8	12.8	2.1	1.4	1.1	9.0	3.2	21.2	26,659

Table 34.24: Source of Water of Male headed Household by County Constituency and Ward

County/Constituency/Wards	Pond	Dam	Lake	Stream/ River	Unprotected	Unprotect- ed Well	Jabia	Water	Other	Unim- proved Sources	Pro- tected Spring	Protect- ed Well	Borehole	Piped into Dwelling	Piped	Rain Water Collection	Improved	Number of Individuals
Kenya	2.7	2.3	1.1	22.4	4.8	6.7	0.4	5.6	0.4	46.4	7.4	7.7	11.7	6.2	19.9	0.7	53.6	26,755,066
Rural	3.7	3.1	1.4	29.1	6.3	9.6	0.4	2.4	0.5	55.6	9.5	8.2	12.1	1.9	12.2	0.8	44.4	18,016,471
Urban	0.8	9.0	0.5	8.5	1.8	2.8	0.2	12.1	0.1	27.5	3.8	6.7	10.8	14.9	35.8	0.5	72.5	8,738,595
Nyamira County	0.2	0.3	0.0	30.0	16.6	3.6	0.4	0.2	0.0	51.5	36.2	5.9	1.8	9.0	2.6	1.5	48.5	420,556
Kitutu Masaba Constituency	0.0	0.0	0.0	25.8	10.2	2.1	0.2	0.1	0.0	38.5	51.3	5.1	2.1	0.5	1.3	1.2	61.5	135,239
Rigoma	0.0	0.0	0.0	31.4	10.4	1.3	0.2	0.4		43.9	36.5	8.1	4.4	1.8	3.4	1.8	56.1	29,511
Gachuba	•	'	0.0	23.7	8.1	4.5	•	0.0	•	36.4	57.6	4.2	1.0	0.1	0.2	0.4	63.6	21,310
Kemera	0.0	0.1	0.1	9.1	4.8	7.0	0.3	0.1	,	15.1	79.8	3.0	0.5	0.1	0.9	0.6	84.9	24,482
Magombo	0.1	ı	0.0	27.8	13.8	3.5	0.0	0.0	0.0	45.3	41.5	8.1	4.5	0.0	0.1	0.5	54.7	15,142
Manga	'	0.1	0.0	29.8	7.7	0.9	0.8	0.3	0.0	39.7	53.2	2.7	9.0	0.1	2.1	1.6	60.3	20,182
Gesima	0.0	0.0	0.1	32.6	16.9	2.3	0.1	0.0	'	52.0	39.9	4.5	1.7	'	0.1	1.8	48.0	24,612
West Mugirango Constituency	0.0	0.1	0.1	30.1	17.6	2.9	0.1	0.1	0.0	51.0	37.5	2.0	1.4	0.8	2.9	1.5	49.0	111,809
Nyamaiya	0.0	0.1	0:0	31.6	14.8	2.4	0.0	0.0	0:0	49.0	43.1	2.5	1.9	0.4	2.4	9.0	51.0	21,682
Bogichora	'	'	0.3	15.2	25.6	1.2	0.2	1	'	42.4	52.5	2.1	1.3	0.3	0.8	9.0	57.6	29,141
Bosamaro	0.0	0.1	0:0	33.8	13.8	3.0	0.1	0.1	0.1	50.9	41.6	5.2	1.1	0.2	0.1	0.9	49.1	27,953
Bonyamatuta	0.1	0.1	0.0	33.7	24.4	7.0	0.2	0.5	•	62.9	19.5	12.0	1.1	0.1	0.1	1.2	34.1	19,115

Township	0.1	0.1	1	46.2	4.0	1.1	0.1	0.2	0.0	51.6	13.4	4.9	1.8	4.4	17.6	6.2	48.4	13,918
North Mugirango Constituency	0.1	0.0	0.0	33.4	15.9	8.2	0.2	0.0	0.0	57.9	28.9	10.4	1.0	0.2	1.2	0.4	42.1	89,657
Itibo	0.1	'	0.0	26.4	29.6	5.2	0.3	0.0	,	61.8	25.7	9.2	0.5	0.2	2.2	0.4	38.2	20,324
Bomwagamo	0.0	'	0.0	55.8	14.2	5.2	0.4		1	75.5	19.0	3.2	7:	0.1	0.5	0.1	24.5	12,641
Bokeira	0.1	0.0	'	30.0	10.2	13.0				53.3	34.9	10.0	1.1	0.3	0:0	0.3	46.7	23,531
Magwagwa	0.0	-	-	26.0	13.8	12.1	0.1	-	-	52.1	27.7	19.7	-	1	-	0.5	47.9	13,724
Ekerenyo	0.0		0.1	35.7	11.2	4.7	0.3	0.2	0.0	52.2	32.4	10.1	1.5	0.3	2.9	0.7	47.8	19,437
Borabu Constituency	0.8	1.3	0.0	33.3	26.4	2.4	1.1	7.0	1	0.99	18.0	3.6	2.6	1.2	5.6	3.0	34.0	83,851
Mekenene	0.2	1.3	0.0	36.3	3.8	0.8	0.1	3.9	•	46.3	7.3	5.6	3.7	4.0	31.1	2.0	53.7	13,465
Kiabonyoru	0:0	0.1	1	19.4	40.8	2.9	0.3	0.1	1	63.6	28.8	3.9	2.3	0.2	0.3	6:0	36.4	32,067
Nyansiongo	0.1	1.3	,	43.0	23.5	2.6	0.7	0.0	•	71.2	12.9	3.0	3.5	8.0	1.5	7.1	28.8	18,963
Esise	3.2	3.4	0.1	44.8	21.1	2.4	3.6	0.1	1	78.7	12.6	2.1	1.4	1.2	0.7	3.4	21.3	19,356

Table 34.25: Source of Water of Female headed Household by County, Constituency and Ward

County/Constituency/				Stream	Unprotect-	Unprotect-		Water		Unimproved	Protected	Protect-		Piped into		Rain	Improved	Number of
Wards	Pond	Dam	Lake	River		ed Spring ed Well	Jabia	vendor	Other	Sources	Spring	ed Well	Borehole	Dwelling	Piped	Collection	Sources	Individuals
Kenya	2.8	2.7	1.3	25.2	5.3	7.4	0.3	4.4	0.3	49.7	8.1	7.7	11.3	5.1	17.5	0.7	50.3	11,164,581
Rural	3.4	3.5	1.6	30.6	6.5	8.9	0.3	1.8	0.4	57.0	9.5	8.0	11.5	1.6	11.7	0.8	43.0	8,058,724
Urban	1.0	8:0	9.0	11.1	2.3	3.4	0.2	1.1	0.1	30.5	4.7	7.0	10.5	14.2	32.5	9.0	69.5	3,105,857
Nyamira County	0.1	0.4	0.0	30.8	16.1	3.4	0.4	0.2	0.0	51.4	37.3	5.6	1.8	0.5	2.1	1.2	48.6	171,693
Kitutu Masaba Constit- uency	0:0	0.0	0.0	26.5	10.6	2.2	0.1	0.1	0:0	39.6	50.8	5.5	1.9	0.3	1.1	0.8	60.4	62,932

Rigoma	0.1	•	1.0	31.8	11.3	1.3	0.1	0.4		45.1	35.4	10.5	3.4	1.2	2.9	1.6	54.9	13,690
Gachuba	,	0.0	,	23.8	8.2	5.5			,	37.5	56.5	4.1	1.3	1	0.2	0.3	62.5	10,980
Kemera	0.0	0.1		9.6	4.4	0.8	0.2	0.0	•	15.1	80.3	3.1	0.5	0.0	9.0	0.4	84.9	10,782
Magombo		0.1	0.1	30.3	15.3	2.8	-	0.0	-	48.5	40.1	6.7	4.1	'	-	0.5	51.5	7,080
Manga		•		29.2	8.4	0.4	9:0	0.1	0.0	38.8	55.1	2.7	0.4	,	1.7	1.2	61.2	9,351
Gesima	0.1	1	1.0	34.2	16.9	2.4	0:0	0.0	-	53.7	38.7	4.7	1.7	0.1	0.2	8:0	46.3	11,049
West Mugirango Constituency	0.0	0.1	0.0	31.1	17.2	2.4	0.2	0.1	•	51.0	38.4	4.3	2.0	0.5	2.5	1.3	49.0	45,661
Nyamaiya	1	,	0.1	31.5	15.2	2.3	0.1	0.0	1	49.3	42.6	2.6	2.4	0.2	2.4	0.6	50.7	10,310
Bogichora	0.0	0.0	0.0	15.9	24.4	9.0	0.2	,	•	41.3	53.4	1.7	2.3	0.2	0.7	0.5	58.7	11,990
Bosamaro	0.1	0.1	0.0	33.4	14.2	2.7	0.0	0.1		50.6	42.2	4.3	1.8	0.1	0.2	0.9	49.4	11,689
Bonyamatuta		0.0		39.2	22.1	6.3	0.4	0.4	'	68.4	17.0	11.8	1.2	0.2	0.0	1.5	31.6	6,521
Township	0.1	0.1	-	49.8	4.7	0.8	0.2	0.3	•	56.0	13.9	4.1	1.8	3.4	15.7	5.1	44.0	5,151
North Mugirango Constituency	0.1	0.0	0.0	34.9	15.4	8.4	0.2	0.0	•	59.2	28.0	10.4	1.0	0.2	1.0	0.2	40.8	31,630
ltibo	0.1	'	,	27.5	28.9	4.1	0.3	'	1	61.0	26.6	9.4	0.7	0.1	2.0	0.2	39.0	6,552
Bomwagamo				60.2	12.3	4.7	0.9	0.1	'	78.1	15.9	2.7	2.5	0.0	9.0	0.1	21.9	4,515
Bokeira	0.2	0:0	0.0	29.0	10.6	14.9	'	'		54.7	34.5	9.1	0.0	0.4	0.2	0.1	45.3	8,915
Magwagwa	1	,	0.2	27.0	14.0	13.5	0.2	,	•	54.9	23.5	21.2	,	0.1	0.1	0.2	45.1	4,556
Ekerenyo	0.0	,	1	38.3	12.0	3.4	0.1	0.1	1	53.8	31.7	10.7	1.0	0.2	2.2	0.5	46.2	7,092
Borabu Constituency	9.0	1.8	0.0	34.7	26.3	2.5	1.4	9.0	0.0	67.9	17.9	3.1	2.5	1.1	4.8	2.7	32.1	31,470
Mekenene	0.2	3.1	0.1	38.0	5.4	0.5	0.0	3.2	1	50.5	9.7	3.0	3.4	3.7	28.4	1.2	49.5	2,008
Kiabonyoru	0.1	•	,	20.0	39.6	3.0	0.5	0.1	•	63.3	28.8	4.1	2.3	0.2	0.2	1.1	36.7	11,265

Nyansiongo		1.6	'	44.7	24.7	2.8	1.1	0.1	0.1	75.0	12.0	2.7	2.8	6.0	9.0	5.9	25.0	7,894
Esise	2.1	3.9	•	44.6	21.7	2.6	4.2	0.1	0.0	79.2	13.1	2.0	1.6	6:0	0.4	2.8	20.8	7,303

Table 34.26: Human Waste Disposal by County, Constituency and Ward

County/ Constituency	Main Sewer	Septic Tank	Cess Pool	VIP Latrine	Pit Latrine	Improved Sanitation	Pit Latrine Uncovered	Bucket	Bush	Other	Unimproved Sanitation	Number of HH Memmbers
Kenya	5.91	2.76	0.27	4.57	47.62	61.14	20.87	0.27	17.58	0.14	38.86	37,919,647
Rural	0.14	0.37	0.08	3.97	48.91	53.47	22.32	0.07	24.01	0.13	46.53	26,075,195
Urban	18.61	8.01	0.70	5.90	44.80	78.02	17.67	0.71	3.42	0.18	21.98	11,844,452
Nyamira County	0.05	0.22	0.04	4.95	61.39	66.65	32.87	90.0	0.40	0.02	33.35	592,249
Kitutu Masaba Constituency	0.01	0.26	0.04	4.46	68.99	73.75	25.94	0.02	0.27	0.01	26.25	198,171
Rigoma	0.01	69:0	90.0	4.62	69.56	74.94	24.85	90:0	0.12	0.02	25.06	43,201
Gachuba	00.0	0.03	0.02	3.61	47.75	51.41	47.69	0.01	0.86	0.03	48.59	32,290
Kemera	0.02	60.0	0.02	5.81	83.13	89.06	10.78	0.01	0.16	0.00	10.94	35,264
Magombo	00.0	00:00	0.00	4.44	71.92	76.37	23.51	00:00	0.13	0.00	23.63	22,222
Manga	00.0	0.57	0.07	5.34	78.80	84.78	15.06	0.00	0.17	0.00	15.22	29,533
Gesima	0.02	0.02	0.03	2.95	63.63	99.99	33.10	0.00	0.22	0.02	33.34	35,661
West Mugirango Constituency	0.10	0.22	0.02	5.98	57.28	63.63	35.92	0.09	0.35	0.01	36.37	157,470
Nyamaiya	80'0	0.04	0.03	3.75	53.94	57.80	41.70	90:0	0.40	0.04	42.20	31,992
Bogichora	0.03	0.10	90.0	4.79	47.32	52.30	47.32	0.00	0.38	0.00	47.70	41,131
Bosamaro	0.02	0.02	0.04	6.62	61.78	68.48	31.32	0.01	0.19	0.00	31.52	39,642
Bonyamatuta	0.08	0.14	0.00	10.55	53.66	64.43	35.05	00.0	0.53	0.00	35.57	25,636
Township	99'0	1.33	0.15	4.82	79.83	86.69	12.40	0.63	0.25	0.03	13.31	19,069
North Mugirango Constituency	0.02	60'0	0.01	4.05	51.66	55.84	43.20	0.11	0.84	0.02	44.16	121,287
ltibo	60.0	80.0	0.03	2.17	52.00	54.32	45.11	0.29	0.28	00'0	45.68	26,876
Bomwagamo	00.00	0.08	0.00	2.69	43.51	46.28	53.53	00:00	0.19	00.00	53.72	17,156
Bokeira	0.02	0.18	0.01	3.79	50.98	54.98	44.16	0.05	0.77	0.03	45.02	32,446
Magwagwa	00'0	0.03	0.00	7.56	45.60	53.19	46.36	0.12	0.33	0.00	46.81	18,280
Ekerenyo	0.02	90'0	0.05	4.72	61.60	66.42	31.25	0.05	2.25	0.03	33.58	26,529

Borabu Constituency	80.0	0.29	0.07	5.34	64.15	69.93	29.75	0.05	0.24	0.03	30.07	115,321
Mekenene	0.16	0.32	0.08	5.34	83.41	89.31	10.46	0.17	0.01	0.02	10.69	18,473
Kiabonyoru	0.02	0.11	0.04	4.29	39.53	43.99	52.85	0.03	0.12	0.01	56.01	43,332
Nyansiongo	0.19	0.74	0.04	8.84	75.62	85.42	13.95	0.03	0.54	90.0	14.58	26,857
Esise	00.00	0.10	0.14	3.54	79.27	83.05	16.62	0.04	0.28	0.02	16.95	26,659

Table 34.27: Human Waste Disposal in Male Headed household by County, Constituency and Ward

County/ Constituency/ wards	Main Sewer	Septic Tank	Cess Pool	VIP Latrine	Pit Latrine	Improved Sanitation	Pit Latrine Uncovered	Bucket	Bush	Other	Unimproved Sanitation	Number of HH Memmbers
Kenya	6.30	2.98	0.29	4.60	47.65	61.81	20.65	0.28	17.12	0.14	38.19	26,755,066
Rural	0.15	0.40	0.08	3.97	49.08	53.68	22.22	0.07	23.91	0.12	46.32	18,016,471
Urban	18.98	8.29	0.73	5.89	44.69	78.58	17.41	0.70	3.13	0.18	21.42	8,738,595
Nyamira County	0.05	0.24	0.04	4.95	61.69	96.99	32.58	0.05	0.38	0.01	33.04	420,556
Kitutu Masaba Constit- uency	0.01	0.27	0.04	4.44	69.64	74.40	25.33	0.01	0.25	0.01	25.60	135,239
Rigoma	0.01	0.70	90.0	4.51	70.62	75.91	23.92	0.02	0.13	0.02	24.09	29,511
Gachuba	00:00	00:00	0.02	3.62	48.72	52.37	46.70	00:00	0.92	0.02	47.63	21,310
Kemera	0.02	0.05	0.02	6.03	82.80	88.92	10.93	0.01	0.14	0.00	11.08	24,482
Magombo	00:0	00:00	00.0	4.09	72.53	76.62	23.30	00:00	0.08	0.00	23.38	15,142
Manga	00:0	0.70	0.08	5.23	79.10	85.11	14.79	00:00	0.10	00:00	14.89	20,182
Gesima	00:0	0.03	0.05	3.05	63.96	60.79	32.74	00:00	0.15	0.02	32.91	24,612
West Mugirango Constituency	0.10	0.24	0.05	6.00	57.73	64.12	35.45	0.07	0.35	0.01	35.88	111,809
Nyamaiya	0.04	0.03	0.03	4.04	54.63	58.77	40.81	0.03	0.36	0.03	41.23	21,682
Bogichora	0.01	0.14	90.0	4.90	47.96	53.08	46.56	00.00	0.36	0.00	46.92	29,141
Bosamaro	00:0	0.01	0.04	6.29	62.22	68.55	31.26	00:00	0.19	0.00	31.45	27,953
Bonyamatuta	00:0	0.15	0.00	10.30	53.42	63.86	35.53	0.00	0.61	0.00	36.14	19,115
Township	0.68	1.37	0.14	4.91	79.90	87.00	12.16	0.55	0.29	0.00	13.00	13,918
North Mugirango Constituency	0.02	0.11	0.01	4.04	52.15	56.34	42.76	0.12	0.77	0.01	43.66	89,657
ltibo	0.04	0.10	0.04	1.93	52.16	54.29	45.18	0.32	0.20	0.00	45.71	20,324

Bomwagamo	00:00	0.09	00.00	3.22	44.73	48.03	51.83	0.00	0.13	0.00	51.97	12,641
Bokeira	0.03	0.19	0.01	4.03	51.65	55.91	43.39	0.01	0.67	0.01	44.09	23,531
Magwagwa	00:00	0.04	00.00	7.51	46.33	53.87	45.80	0.16	0.17	0.00	46.13	13,724
Ekerenyo	0.03	0.08	00.00	4.36	61.70	66.17	31.42	0.07	2.30	0.04	33.83	19,437
Borabu Constituency	0.07	0.34	0.05	5.32	64.34	70.12	29.57	0.04	0.23	0.04	29.88	83,851
Mekenene	0.22	0.42	0.01	5.32	83.33	89.30	10.44	0.18	0.01	0.07	10.70	13,465
Kiabonyoru	0.02	0.11	0.03	4.17	40.32	44.65	55.20	0.01	0.12	0.01	55.35	32,067
Nyansiongo	0.13	0.90	0.04	8.83	75.69	85.59	13.72	0.02	09:0	80:0	14.41	18,963
Esise	00.00	0.13	0.10	3.79	79.80	83.82	15.95	0.00	0.21	0.02	16.18	19,356

Table 34.28: Human Waste Disposal in Female Headed Household by County, Constituency and Ward

County/ Constituency	Main Sewer	Septic Tank Cess Pool	Cess Pool	VIP Latrine	Pit Latrine	Improved Sani- tation	PitLatrine Uncovered	Bucket	Bush	Other	Unim- proved Sanita- tion	Number of HH Memmbers
Kenya	5.0	2.2	0.2	4.5	47.6	59.5	21.4	0.3	18.7	0.2	40.5	11,164,581.0
Rural	0.1	0.3	0.1	4.0	48.5	53.0	22.6	0.1	24.2	0.1	47.0	8,058,724.0
Urban	17.6	7.2	9.0	5.9	45.1	76.4	18.4	2'0	4.3	0.2	23.6	3,105,857.0
Nyamira	0:0	0.2	0.0	2.0	9.09	62.9	33.6	0.1	0.4	0.0	34.1	171,693.0
Kitutu Masaba	0.0	0.2	0.0	4.5	9'.29	72.4	27.3	0:0	0.3	0.0	27.6	62,932.0
Rigoma	0.0	0.7	0.0	4.9	67.3	72.8	26.9	0.1	0.1	0.0	27.2	13,690.0
Gachuba	0.0	0.1	0.0	3.6	45.9	49.6	49.6	0.0	7.0	0.1	50.4	10,980.0
Kemera	0.0	0.2	0.0	5.3	83.9	89.4	10.4	0.0	0.2	0.0	10.6	10,782.0
Magombo	0.0	0.0	0.0	5.2	9.07	75.8	24.0	0:0	0.2	0.0	24.2	7,080.0
Manga	0.0	0.3	0.1	5.6	78.2	84.1	15.6	0.0	0.3	0.0	15.9	9,351.0

Cosimo	7	00		7.6	0.09	65.7	33.0	C	V 0	C	3/13	0 0 0 0 11
Constitution	-	9.0	2	7.7	6.20	7.00	6.00	9	t.	9	5.	0.640,11
West Mugirango	0.1	0.2	0.1	5.9	56.2	62.4	37.1	0.1	0.3	0.0	37.6	45,661.0
Nyamaiya	0.0	0.1	0.0	3.2	52.5	55.8	43.6	0.1	0.5	0.1	44.2	10,310.0
Bogichora	0.1	0.0	0.1	4.5	45.8	50.4	49.2	0.0	0.4	0.0	9.64	11,990.0
Bosamaro	0.1	0.0	0.0	7.4	2'09	68.3	31.5	0.0	0.2	0.0	31.7	11,689.0
Bonyamatuta	0.3	0.1	0.0	11.3	54.3	66.1	33.6	0.0	0.3	0.0	33.9	6,521.0
Township	0.5	1.2	0.2	4.6	1.61	82.8	13.0	6.0	0.1	0.1	14.2	5,151.0
North Mugirango	0:0	0.1	0.0	4.1	2003	54.4	44.5	0.1	1.0	0.0	45.6	31,630.0
ltibo	0.0	0.0	0.0	2.9	51.5	54.4	44.9	0.2	0.5	0.0	45.6	6,552.0
Bomwagamo	0:0	0.1	0.0	1.2	1.04	41.4	58.3	0.0	0.4	0.0	9.85	4,515.0
Bokeira	0.0	0.2	0.0	3.2	49.2	52.5	46.2	0.1	1.0	0.1	47.5	8,915.0
Magwagwa	0.0	0.0	0.0	7.7	43.4	51.1	48.0	0.0	0.8	0.0	48.9	4,556.0
Ekerenyo	0.0	0.0	0.1	5.7	61.4	67.1	30.8	0.0	2.1	0.0	32.9	7,092.0
Borabu	0.1	0.1	0.1	5.4	63.6	69.4	30.2	0.1	0.2	0.0	30.6	31,470.0
Mekenene	0.0	0.1	0.2	5.4	9:88	89.4	10.5	0.1	0.0	0.0	10.6	5,008.0
Kiabonyoru	0.0	0.1	0.1	4.6	37.3	42.1	57.7	0.1	0.1	0.0	6.73	11,265.0
Nyansiongo	0.3	0.3	0.1	8.9	75.4	85.0	14.5	0.1	0.4	0.0	15.0	7,894.0
Esise	0.0	0.0	0.2	2.9	9.77	81.0	18.4	0.1	0.5	0.0	19.0	7,303.0



## **About KNBS**

The Kenya National Bureau of Statistics (KNBS) is a semi-autonomous organization established under Statistics Act 2006 as the principal agency for collecting, compiling, analyzing, publishing and disseminating statistical information needed for planning and policy formulation and is the custodian of official statistical information. More specifically the Bureau is charged with responsibility of: planning, authorizing, co-coordinating and supervising all official statistical programmes undertaken within the National Statistical System (NSS); establishing standards and promoting the use of best practices and methods in the production and dissemination of statistical information across the NSS; collecting, compiling, analyzing, abstracting and disseminating statistical information on matters specified in the First Schedule of the Statistics Act; conducting population and housing census every ten years, and such other censuses and surveys as the board may determine; and maintaining a comprehensive and reliable national socio-economic database.

## **Kenya National Bureau of Statistics (KNBS)**

Herufi House, LT. Tumbo Road, Off Harambee Avenue P.O. BOX 30266 00100 Nairobi GPO, Kenya Nairobi 317586/8, 317612/22, 317623, 317651 Email: info@knbs.or.ke; Website: www.knbs.or.ke



## **About SID**

The Society for International Development (SID) is an international network of individuals and organizations with an interest in development, policy and governance research and dialogue. Since its creation in 1957, SID has consistently been at the forefront of reappraising prevalent development ideas and has confronted the theory and practice of development, challenging existing practices and suggesting alternative approaches. Over the years, three values have been – and remain – at the core of the Society's work – respect for diversity, participation and equity. SID East Africa is incorporated as a Company Limited by Guarantee under the Laws of Kenya. It serves as the Regional Office of the SID International Secretariat which is headquartered in Rome, Italy.

## **Society for International Development**

Regional Office for Eastern Africa

Britam Centre, First Floor, Ragati/Mara Road
P O Box 2404 – 00100 Nairobi Kenya

Telephone: +254 - 20 - 2737991 • Fax: +254 - 20 - 273 7992

Email: sidea@sidint.org • Website: www.sidint.net