

Exploring Kenya's Inequality

Pulling Apart or Pooling Together?

Kitui County



Published by



Kenya National Bureau of Statistics
P.O. Box 30266-00100 Nairobi, Kenya
Email: info@knbs.or.ke Website: www.knbs.or.ke



Society for International Development – East Africa
P.O. Box 2404-00100 Nairobi, Kenya
Email: sidea@sidint.org | Website: www.sidint.net

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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

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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

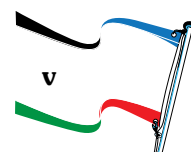


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Stefano Prato
Managing Director,
SID



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 x_i be a point on the X-axis, and y_i a point on the Y-axis, the Gini coefficient formula is:

$$Gini = 1 - \sum_{i=1}^N (x_i - x_{i-1})(y_i + y_{i-1})$$

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.

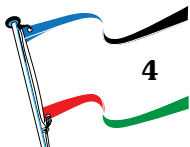
The sample in the 2005/06 KIHBS, which was a representative subset of the population, collected detailed information regarding consumption expenditures. The survey gives poverty estimate of urban and rural poverty at the national level, the provincial level and, albeit with less precision, at the district 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 equivalent¹ 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.

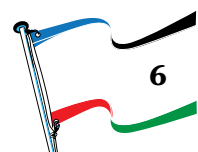
Spatial Dimensions

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.

¹This 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.

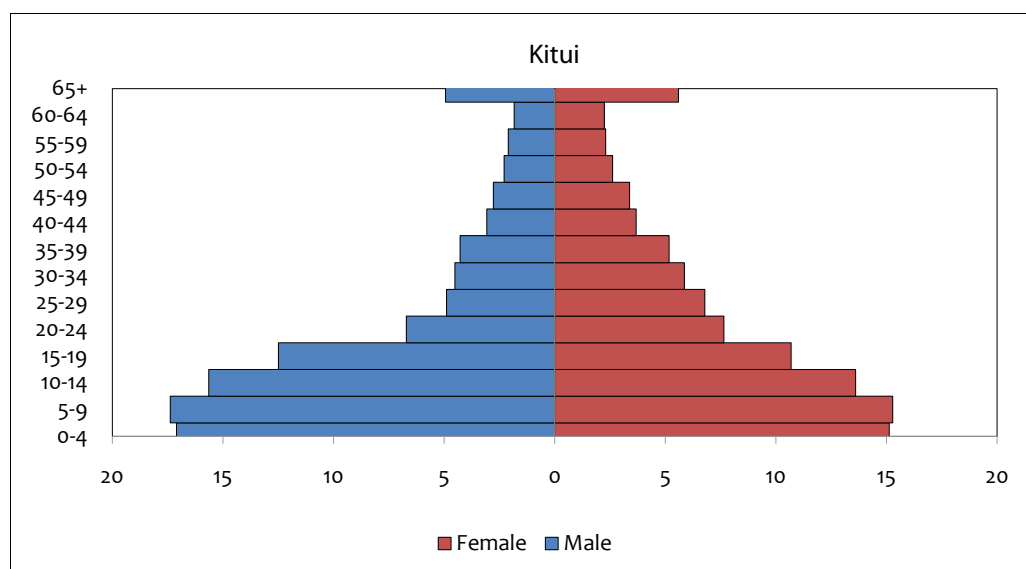


Kitui County



KITUI COUNTY

Figure 18.1: Kitui Population Pyramid



Population

Kitui County has a child rich population, where 0-14 year olds constitute 47% of the total population. This is due to high fertility rates among women as shown by the highest percentage household size of 4-6 members at 42%.

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 18.3 up to ward level.

Table 18: Overall Employment by Education Level in Kitui County

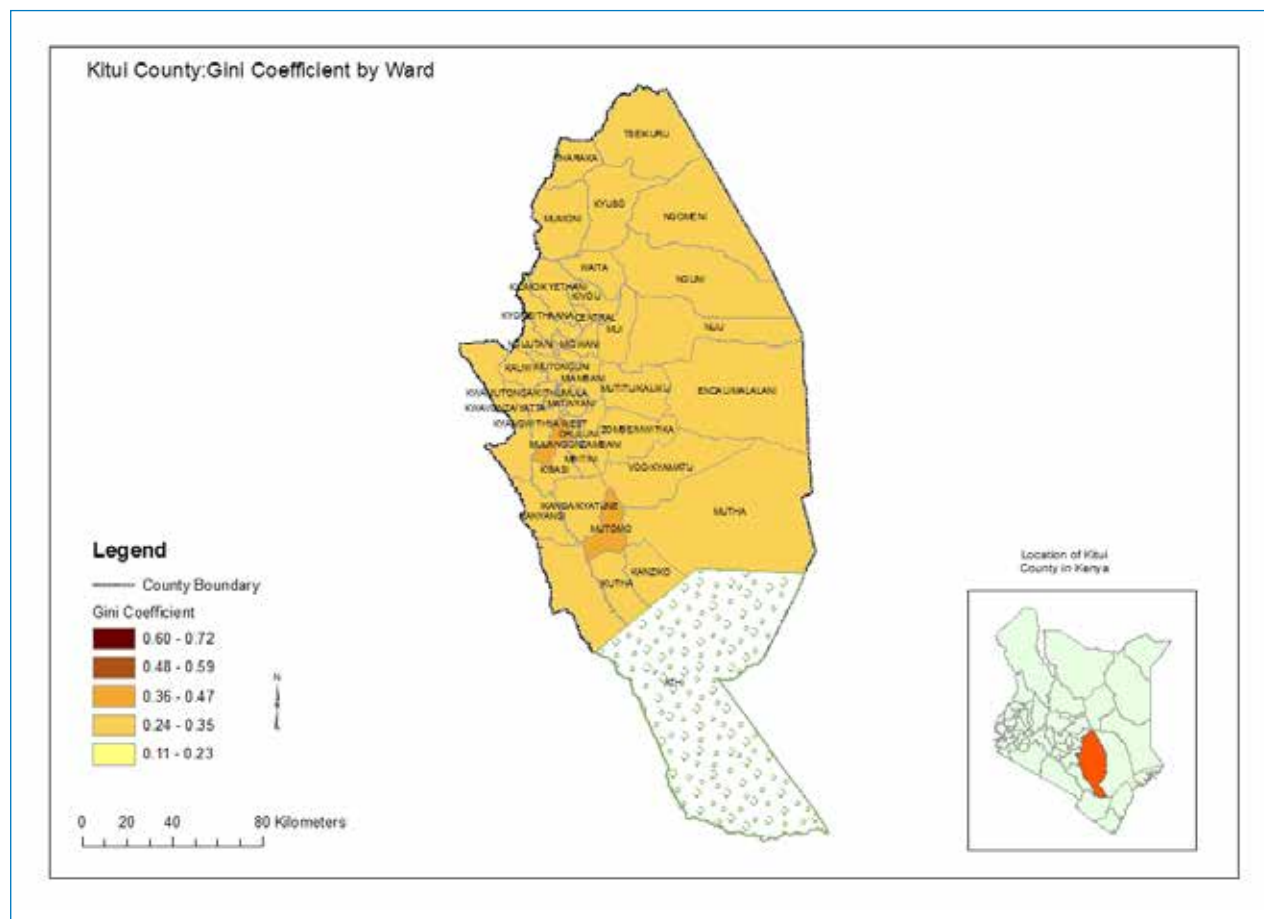
Education Level	Work for pay	Family Business	Family Agricultural Holding	Intern/Volunteer	Retired/ Home-maker	Fulltime Student	Incapacitated	No work	Number of Individuals
Total	21.3	12.8	27.2	1.0	14.0	14.9	0.8	7.9	475,754
None	18.3	13.4	34.1	1.6	20.7	0.3	2.9	8.6	59,857
Primary	19.8	12.9	28.8	0.9	14.3	15.0	0.5	8.0	298,478
Secondary+	26.8	12.5	19.8	1.1	9.7	22.3	0.3	7.5	117,419

In Kitui County, 18% of the residents with no formal education, 20% of those with a primary education and 27% of those with a secondary level of education or above are working for pay. Work for pay is highest in Nairobi at 49% and this is 22 percentage points above the level in Kitui for those with a 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. Kitui County's Gini index is 0.388 compared with Turkana County, which has the least inequality nationally (0.283).

Figure 18.2: Kitui County-Gini Coefficient by Ward



Percentage of Population by Education Attainment - Ward Level - Kitui County

Location of Kitui County in Kenya

Legend

- County Boundary
- None
- Primary
- Secondary and above
- Water Bodies

0 15 30 60 Kilometers

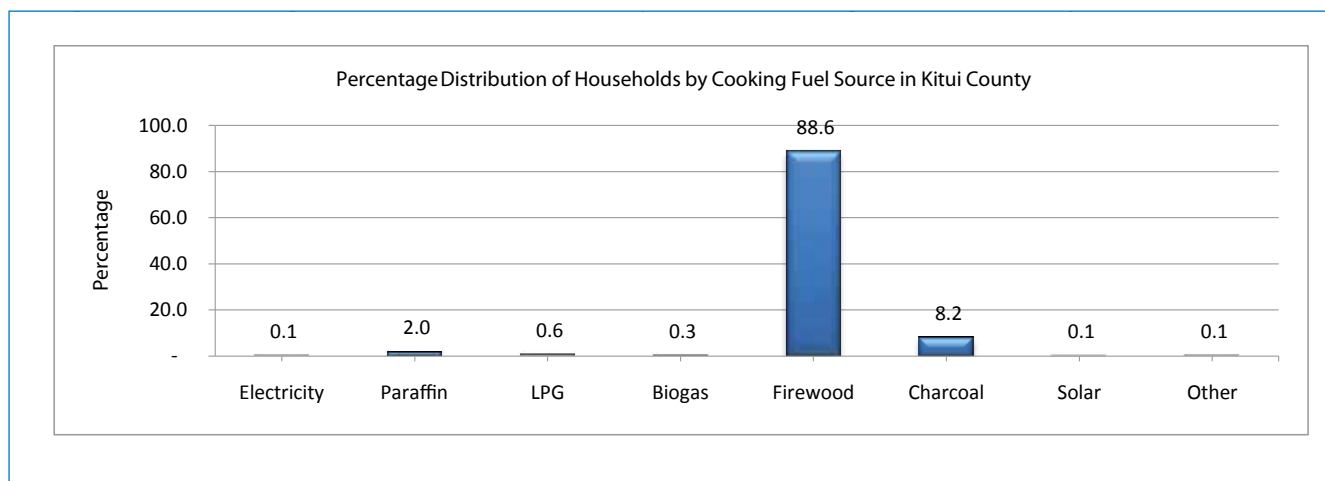
Some 25% of Kitui County residents have no formal education. Mwingi North constituency has the highest share of residents with no formal education at 30%. This is 11 percentage points above Kitui Central constituency, which has the lowest share of residents with no formal education. Mwingi North constituency is 5 percentage points above the county average. Endau/Malalani ward has the highest percentage of residents with no formal education at 35% each. This is twice Township ward, which has the lowest percentage of residents with no formal education. Endau/Malalani is 10 percentage points above the county average.

Energy

Cooking Fuel

Figure 18.4: Percentage Distribution of Households by Source of Cooking Fuel in Kitui County

Only 1% of residents in Kitui County use liquefied petroleum gas (LPG), and 2% use paraffin. 89% use firewood and 8% use charcoal. Firewood is the most common cooking fuel by gender at 87% in male headed households and 91% in female headed households.



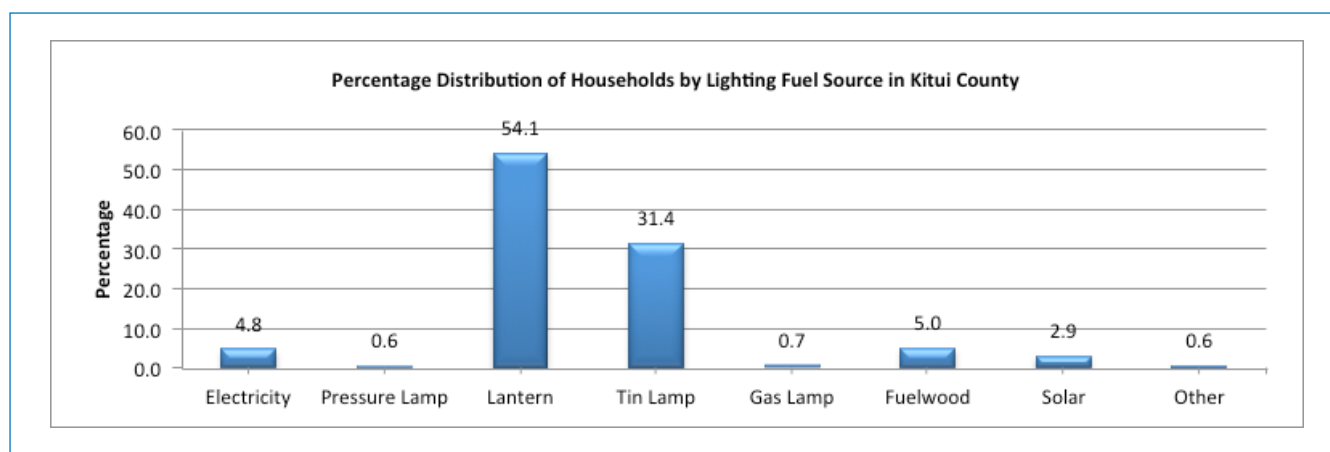
Mwingi North constituency has the highest level of firewood use in Kitui County at 95%. This is 20 percentage points above Kitui Central constituency, which has the lowest share at 75%. Mwingi North constituency is about 6 percentage points above the county average. Two wards, Tharaka and Voo/Kyamatu, have the highest level of firewood use in Kitui County at 98% each. This is five times the Township ward, which has the lowest share at 18%. Tharaka and Voo/Kyamatu are 9 percentage points above the county average.

Kitui Central constituency has the highest level of charcoal use in Kitui County at 17%. This is four times Mwingi North constituency, which has the lowest share at 4%. Kitui Central constituency is 9 percentage points above the county average. Township ward has the highest level of charcoal use in Kitui County at 54%. This is 53 percentage points more than Tharaka ward, which has the lowest share at 1%. Township ward is 46 percentage points above the county average.

Kitui Central constituency has the highest level of paraffin use in Kitui County at 5%. That is 4 percentage points above Kitui East constituency, which has the lowest share. Kitui Central constituency is 3 percentage points higher than the county average. Township ward has the highest level of paraffin use in Kitui County at 19%. This is 19 percentage points above Tharaka ward, which has the lowest share. Township ward is 17 percentage points above the county average.

Lighting

Figure 18.5: Percentage Distribution of Households by Source of Lighting Fuel in Kitui County



Only 5% of residents in Kitui County use electricity as their main source of lighting. A further 54% use lanterns, and 31% use tin lamps. 5% use fuel wood. Electricity use is mostly common in male headed households at 6% as compared with female headed households at 4%.

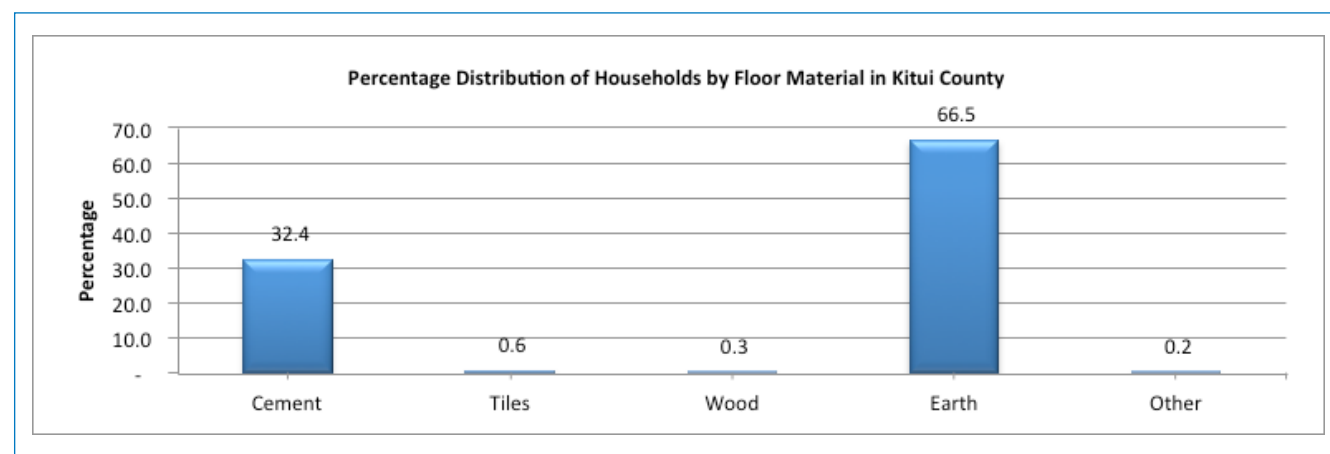
Kitui Central constituency has the highest level of electricity use at 14%. That is 14 percentage points above Kitui South constituency, which has the lowest level of electricity use. Kitui Central constituency is 9 percentage points above the county average. Township ward has the highest level of electricity use at 48%. That is 48 percentage points above Mui ward, which has no level of electricity use. Township ward is 43 percentage points above the county average.

Housing

Flooring

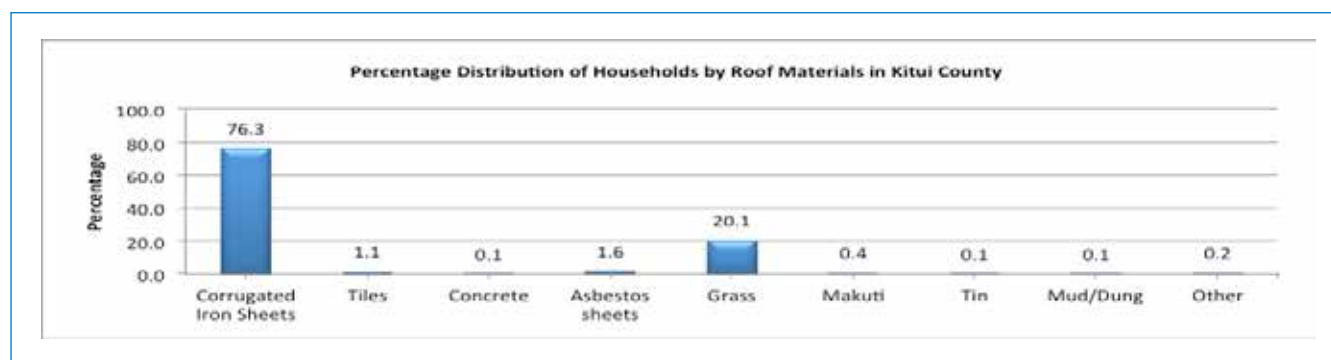
In Kitui County, 32% of residents have homes with cement floors, while 67% have earth floors. Less than 1% has wood and just 1% has tile floors. Kitui Central constituency has the highest share of cement floors at 53%. That is three times Kitui South constituency, which has the lowest share of cement floors. Kitui Central constituency is 21 percentage points above the county average. Township ward has the highest share of cement floors at 90%. That is 11 times Voo/Kyamatu ward, which has the lowest share of cement floors. Township ward is 58 percentage points above the county average.

Figure 18.6: Percentage Distribution of Households by Floor Material in Kitui County



Roofing

Figure 18.7: Percentage Distribution of Households by Roof Material in Kitui County



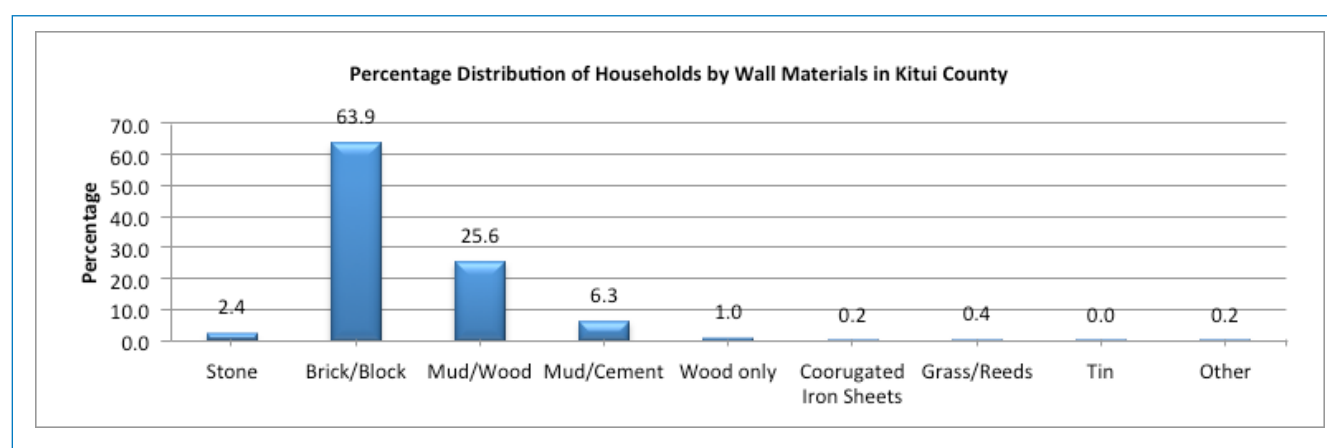
In Kitui County, less than 1% of residents have homes with concrete roofs, while 76% have corrugated iron roofs. Grass and makuti roofs constitute 21% of homes, and Less than 1% has mud/dung roofs.

Mwingi West constituency has the highest share of corrugated iron sheet roofs at 94%. That is 38 percentage points above Mwingi North constituency, which has the lowest share of corrugated iron sheet roofs. Mwingi West constituency is 18 percentage points above the county average. Central ward has the highest share of corrugated iron sheet roofs at 97%. That is almost three times Tharaka ward, which has the lowest share of corrugated iron sheet roofs. Central ward is 21 percentage points above the county average.

Mwingi North constituency has the highest share of grass/makuti roofs at 41%. That is 10 times Mwingi West constituency, which has the lowest share of grass/makuti roofs. Mwingi North constituency is 20 percentage points above the county average. Tharaka ward has the highest share of grass/makuti roofs at 63%. This is 62 percentage points above Township ward, which has the lowest share. Tharaka ward is 42 percentage points above the county average.

Walls

Figure 18.8: Percentage Distribution of Households by Wall Material in Kitui County



In Kitui County, 66% of homes have either brick or stone walls. 32% of homes have mud/wood or mud/cement walls. 1% has wood walls. Less than 1% has corrugated iron sheet or grass/thatched or tin/other walls.

Mwingi West constituency has the highest share of brick/stone walls at 91%. That is almost twice Mwingi Central constituency, which has the lowest share of brick/stone walls. Mwingi West constituency is 25 percentage points above the county average. Central and Nguutani wards have the highest share of brick/stone walls at 95%. That is nine times Endau/Malalani the ward, which has the lowest share of brick/stone walls. Central and Nguutani wards are 29 percentage points above the county average.

Mwingi Central constituency has the highest share of mud with wood/cement walls at 52%. That is almost seven times Mwingi West constituency, which has the lowest share of mud with wood/cement walls. Mwingi Central constituency is 20 percentage points above the county average. Endau/Malalani ward has the highest share of mud with wood/cement walls at 84%. That is almost 17 times Central ward, which has the lowest share of mud with wood/cement walls. Endau/Malalani ward is 52 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 Kitui County, 26% of residents use improved sources of water, with the rest relying on unimproved sources. There is no significant gender differential in use of improved sources as seen in 27% of male headed households and 25% in female headed households.

Mwingi Central constituency has the highest share of residents using improved sources of water at 39%. That is twice Kitui Rural constituency, which has the lowest share using improved sources of water. Mwingi Central constituency is 13 percentage points above the county average. Township ward has the highest share of residents using improved sources of water at 66%. This is 65 percentage points above Miambani ward, which has the lowest share using improved sources of water. Township ward is 40 percentage points above the county average.

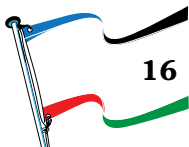
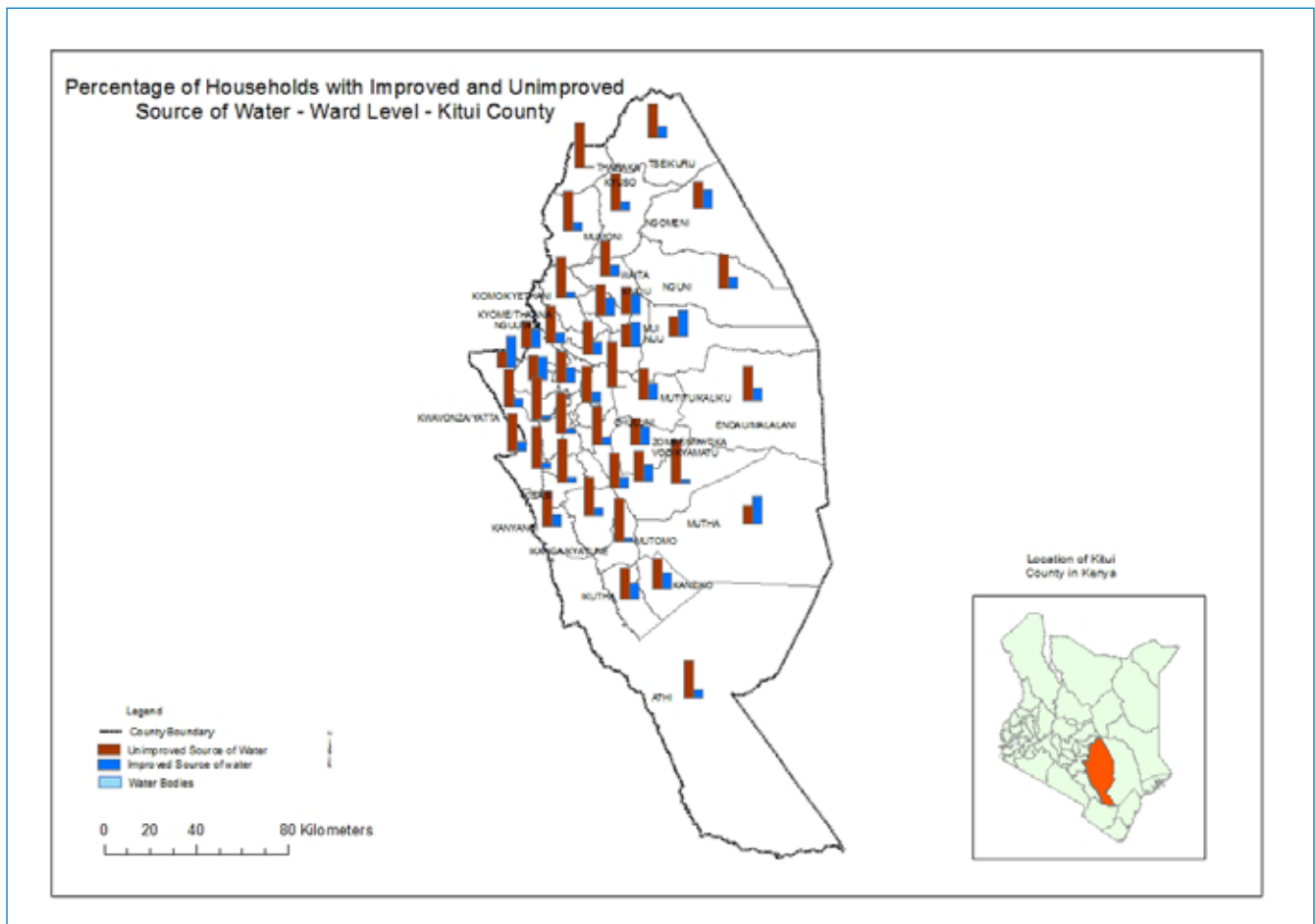


Figure 18.9: Kitui County-Percentage of Households with Improved and Unimproved Sources of Water by Ward

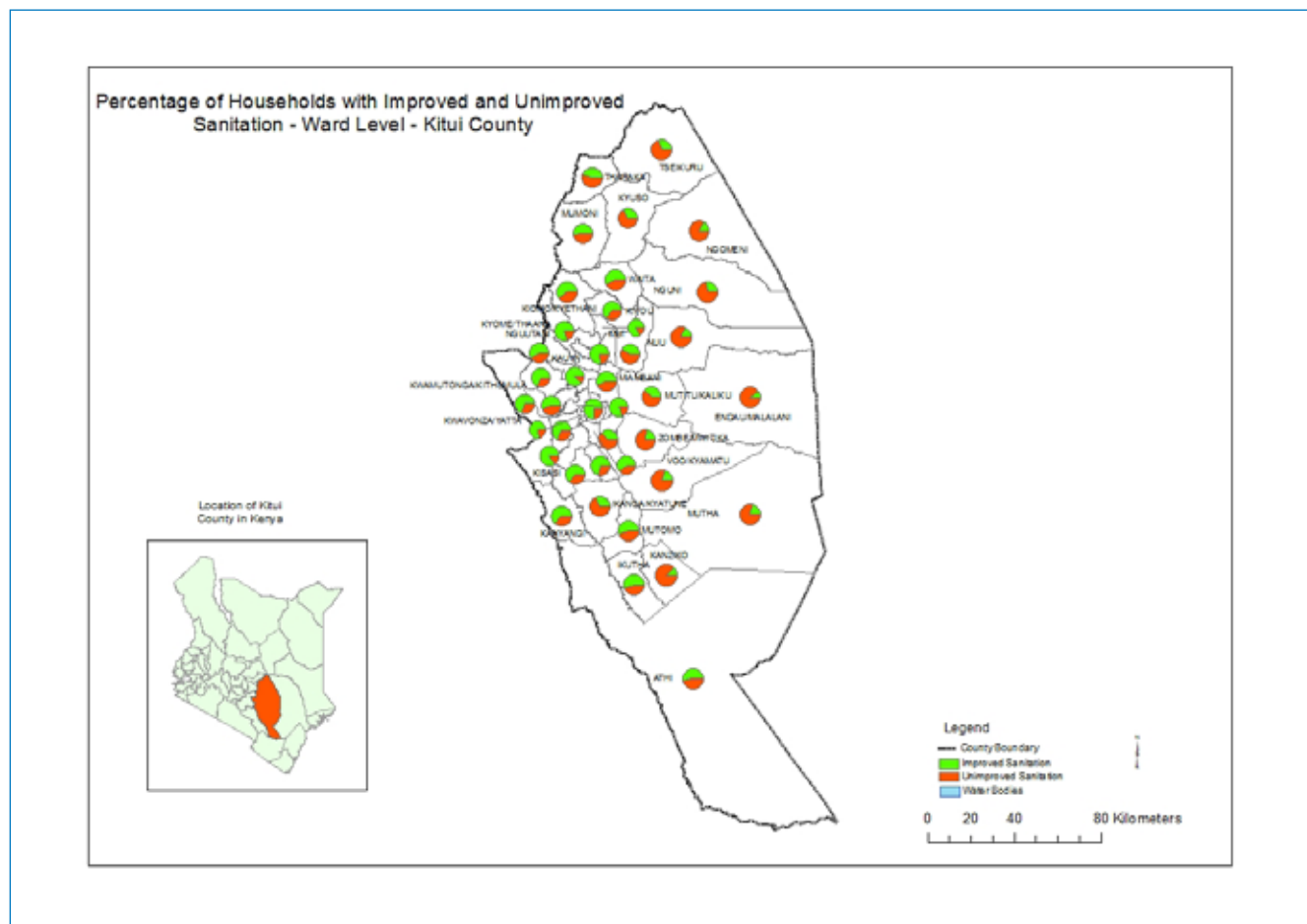


Sanitation

A total of 52% of residents in Kitui County use improved sanitation, while the rest use unimproved sanitation. There is no significant gender differential in use of improved sanitation as seen in 53% of male headed households and 52% in female headed households.

Kitui West constituency has the highest share of residents using improved sanitation at 76%. That is twice Kitui East constituency, which has the lowest share using improved sanitation. Kitui West constituency is 24 percentage points above the county average. Mutonguni ward has the highest share of residents using improved sanitation at 88%. That is eight times Endau/Malalani ward, which has the lowest share using improved sanitation. Mutonguni ward is 36 percentage points above the county average.

Figure 18.10: Kitui County –Percentage of Households with Improved and Unimproved Sanitation by Ward



Kitui County Annex Tables

11. KITUI

Table 18.1: Gender, Age group, Demographic Indicators and Households Size by County Constituency and Wards

County/Constituency/ Wards	Gender			Age group								Demographic indicators				Proportion of HH Members:			
	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	Child depen- dancy Ratio	aged depen- dancy ratio	0-3	4-6	7+	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		
Kitui County	995,267	471,797	523,470	194,041	466,947	241,446	297,145	475,754	52,566	0.901	1.092	0.981	0.110	31.8	42.4	25.8	201,692		
Mwingi North Constituency	138,956	64,624	74,332	30,440	69,242	33,741	39,836	62,836	6,878	0.869	1.211	1.102	0.109	26.5	41.9	31.6	25,778		
Ngomeni	18,272	8,659	9,613	4,271	9,220	4,136	5,175	8,201	851	0.901	1.228	1.124	0.104	24.8	41.4	33.8	3,297		
Kyuso	40,167	18,596	21,571	8,370	19,605	10,093	11,728	18,522	2,040	0.862	1.169	1.058	0.110	27.5	41.9	30.6	7,602		
Mumoni	33,915	15,645	18,270	7,488	17,007	8,204	9,570	15,116	1,792	0.856	1.244	1.125	0.119	28.8	43.3	27.9	6,586		
Tseikuru	33,555	15,622	17,933	7,447	16,971	8,254	9,480	14,975	1,609	0.871	1.241	1.133	0.107	25.1	40.2	34.7	6,034		
Tharaka	13,047	6,102	6,945	2,864	6,439	3,054	3,883	6,022	586	0.879	1.167	1.069	0.097	22.6	42.5	34.9	2,259		
Mwingi West Con- stituency	120,017	56,003	64,014	22,198	54,991	30,548	37,815	59,003	6,023	0.875	1.034	0.932	0.102	37.2	41.9	20.8	26,387		
Kyome/Thaana	26,044	12,020	14,024	4,681	11,837	6,902	7,991	12,814	1,393	0.857	1.032	0.924	0.109	32.2	46.0	21.8	5,473		
Nguutani	27,181	12,278	14,903	5,243	13,036	7,246	8,051	12,732	1,413	0.824	1.135	1.024	0.111	29.8	45.1	25.1	5,466		
Migwani	23,949	11,197	12,752	4,218	10,825	6,383	7,227	11,742	1,382	0.878	1.040	0.922	0.118	37.4	43.4	19.2	5,354		
Kiomo/Kyethani	25,320	12,090	13,230	5,058	12,362	6,489	7,699	11,726	1,232	0.914	1.159	1.054	0.105	28.0	44.2	27.8	4,911		
Central	17,523	8,418	9,105	2,998	6,931	3,528	6,847	9,989	603	0.925	0.754	0.694	0.080	59.0	30.6	10.4	5,183		

Mwingi Central Constituency	120,704	57,020	63,684	25,269	58,595	28,674	34,925	55,878	6,231	0.895	1.160	1.049	0.112	32.2	40.6	27.2	24228
Kivou	24,084	11,493	12,591	4,612	10,852	5,508	7,772	12,181	1,051	0.913	0.977	0.891	0.086	42.0	37.9	20.1	5517
Nguni	28,866	13,596	15,270	6,612	14,753	6,834	8,006	12,704	1,409	0.890	1.272	1.161	0.111	28.3	40.5	31.2	5479
Nuu	27,610	12,925	14,685	6,011	13,645	6,447	7,766	12,456	1,509	0.880	1.217	1.095	0.121	25.5	41.4	33.1	5045
Mui	19,541	9,291	10,250	3,881	9,385	4,815	5,420	8,923	1,233	0.906	1.190	1.052	0.138	33.0	41.8	25.2	4018
Waita	20,603	9,715	10,888	4,153	9,960	5,070	5,961	9,614	1,029	0.892	1.143	1.036	0.107	31.8	42.0	26.2	4169
Kitui West Constituency	100,207	46,914	53,293	17,261	45,174	26,041	30,034	49,312	5,721	0.880	1.032	0.916	0.116	35.1	45.5	19.4	21979
Mutonguni	33,347	15,385	17,962	6,000	15,479	8,791	9,669	15,908	1,960	0.857	1.096	0.973	0.123	36.3	44.6	19.0	7391
Kauwi	24,840	11,617	13,223	4,108	11,114	6,516	7,753	12,511	1,215	0.879	0.985	0.888	0.097	36.6	44.5	18.9	5508
Matinyani	23,554	11,224	12,330	3,959	10,160	5,908	7,264	12,044	1,350	0.910	0.956	0.844	0.112	33.7	46.8	19.5	5120
Kwamutonga/Kithumula	18,466	8,688	9,778	3,194	8,421	4,826	5,348	8,849	1,196	0.889	1.087	0.952	0.135	32.6	47.0	20.4	3960
Kitui Rural Constituency	103,183	49,736	53,447	18,703	47,823	25,704	30,429	49,381	5,979	0.931	1.090	0.968	0.121	31.7	43.7	24.6	21132
Kisasi	26,242	12,424	13,818	4,818	12,336	6,513	7,557	12,325	1,581	0.899	1.129	1.001	0.128	32.0	43.8	24.2	5437
Mbitini	24,397	11,693	12,704	4,368	11,193	6,145	7,314	11,705	1,499	0.920	1.084	0.956	0.128	30.8	44.5	24.7	4935
Kwavonza/Yatta	30,487	14,842	15,645	5,271	13,836	7,692	9,014	14,918	1,733	0.949	1.044	0.927	0.116	34.9	42.3	22.9	6464
Kanyangi	22,057	10,777	11,280	4,246	10,458	5,354	6,544	10,433	1,166	0.955	1.114	1.002	0.112	27.6	44.8	27.6	4296
Kitui Central Constituency	125,420	60,322	65,098	20,916	52,384	29,902	41,544	66,196	6,840	0.927	0.895	0.791	0.103	39.0	42.6	18.4	28415
Miambani	21,982	10,170	11,812	4,802	11,115	5,638	5,827	9,604	1,263	0.861	1.289	1.157	0.132	32.3	41.3	26.4	4436
Township	23,893	11,839	12,054	3,474	7,987	4,383	10,229	15,234	672	0.982	0.568	0.524	0.044	57.7	31.9	10.4	6875
Kyangwithya West	25,792	12,516	13,276	3,746	10,490	6,536	8,283	13,564	1,738	0.943	0.902	0.773	0.128	33.6	47.7	18.6	5611
Mulango	28,295	13,602	14,693	4,638	12,037	7,155	8,958	14,555	1,703	0.926	0.944	0.827	0.117	33.4	47.4	19.2	6097

Kyangwithya East	25,458	12,195	13,263	4,256	10,755	6,190	8,247	13,239	1,464	0.919	0.923	0.812	0.111	32.4	46.6	20.9	5396
Kitui East Constituency	122,340	58,578	63,762	24,975	57,694	28,098	35,788	57,817	6,829	0.919	1.116	0.998	0.118	28.0	42.6	29.4	23551
Zombe/Mwitika	24,897	11,854	13,043	5,262	12,042	5,596	7,078	11,505	1,350	0.909	1.164	1.047	0.117	29.3	42.4	28.4	4876
Nzambani	18,121	8,829	9,292	2,934	7,307	4,347	6,242	9,780	1,034	0.950	0.853	0.747	0.106	34.5	44.9	20.6	3906
Chuluni	22,039	10,579	11,460	4,286	10,617	5,511	6,291	10,198	1,224	0.923	1.161	1.041	0.120	29.0	43.2	27.8	4295
Voo/Kyamatu	22,946	10,877	12,069	5,211	11,382	4,990	6,408	10,335	1,229	0.901	1.220	1.101	0.119	20.2	40.1	39.7	3944
Endau/Malalani	15,390	7,336	8,054	3,467	7,616	3,353	4,261	6,939	835	0.911	1.218	1.098	0.120	24.0	40.8	35.2	2764
Mutitu/Kaliku	18,947	9,103	9,844	3,815	8,730	4,301	5,508	9,060	1,157	0.925	1.091	0.964	0.128	29.7	43.6	26.7	3766
Kitui South Constituency	164,440	78,600	85,840	34,279	81,044	38,738	46,774	75,331	8,065	0.916	1.183	1.076	0.107	25.3	41.3	33.4	30222
Ikanga/Kyatune	35,937	17,077	18,860	6,723	17,274	8,965	10,242	16,669	1,994	0.905	1.156	1.036	0.120	26.9	45.7	27.4	7025
Mutomo	24,076	11,485	12,591	4,767	11,546	5,665	7,000	11,327	1,203	0.912	1.126	1.019	0.106	29.2	38.7	32.0	4600
Mutha	24,987	11,877	13,110	5,699	12,587	5,529	6,806	11,128	1,272	0.906	1.245	1.131	0.114	24.3	37.1	38.6	4383
Ikutha	25,985	12,573	13,412	5,336	12,581	6,075	7,690	12,263	1,141	0.937	1.119	1.026	0.093	21.9	40.9	37.2	4487
Kanziko	18,609	8,787	9,822	4,368	9,629	4,184	5,193	8,194	786	0.895	1.271	1.175	0.096	21.4	40.4	38.2	3250
Athi	34,846	16,801	18,045	7,386	17,427	8,320	9,843	15,750	1,669	0.931	1.212	1.106	0.106	25.6	41.9	32.5	6477

Table 18.2: Employment by County, Constituency and Wards

County/Constituency/Wards	Work for pay	Family Business	Family Agricultural Holding	Intern/Volunteer	Retired/Homemaker	Fulltime Student	Incapacitated	No work	Number of Individuals
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
Kitui County	21.3	12.8	27.2	1.0	14.0	14.9	0.8	7.9	475,754
Mwingi North Constituency	19.9	10.8	29.9	0.9	17.4	13.7	0.8	6.6	62,836
Ngomeni	16.0	10.8	28.0	0.6	27.7	8.9	1.1	6.8	8,201
Kyuso	24.5	11.7	28.0	0.7	11.8	16.5	0.7	6.1	18,522
Mumoni	20.2	8.1	28.9	1.0	14.5	16.4	0.8	10.0	15,116
Tseikuru	20.0	11.5	34.0	1.2	18.8	8.7	1.0	4.9	14,975
Tharaka	10.3	13.4	30.1	0.6	24.2	17.8	0.4	3.2	6,022
Mwingi West Constituency	21.2	12.7	23.2	1.2	19.5	15.0	0.7	6.6	59,003
Kyome/Thaana	18.3	13.4	23.5	1.0	18.9	17.6	0.6	6.6	12,814
Nguutani	15.9	12.8	34.4	0.8	15.6	15.4	0.9	4.2	12,732
Migwani	17.1	8.2	24.1	1.5	25.5	17.0	0.5	6.1	11,742
Kiomo/Kyethani	18.7	11.5	22.7	1.1	23.1	11.7	0.9	10.4	11,726
Central	39.4	18.2	8.1	1.4	14.2	12.4	0.5	5.8	9,989
Mwingi Central Constituency	22.6	12.5	24.1	1.1	16.5	14.2	0.8	8.4	55,878
Kivou	29.3	13.4	19.5	1.0	13.1	14.0	1.0	8.6	12,181
Nguni	19.9	12.9	28.9	1.1	16.2	12.5	0.8	7.8	12,704
Nuu	24.3	9.3	19.4	1.2	22.0	14.0	0.6	9.3	12,456
Mui	15.6	9.3	29.7	1.0	17.9	17.4	0.7	8.4	8,923
Waita	21.8	17.7	24.2	1.1	12.7	13.9	0.9	7.8	9,614
Kitui West Constituency	20.9	10.6	28.4	0.8	15.2	16.0	0.8	7.5	49,312
Mutonguni	19.9	11.2	27.3	0.7	16.9	15.6	1.1	7.4	15,908
Kauwi	27.3	12.4	25.8	0.7	10.1	14.7	0.5	8.5	12,511
Matinyani	18.2	8.4	31.8	0.6	15.6	18.4	0.9	6.0	12,044
Kwamutonga/Kithumula	17.4	10.0	29.1	1.1	18.6	15.1	0.6	8.2	8,849
Kitui Rural Constituency	17.5	12.8	34.0	1.0	11.7	13.5	0.7	8.7	49,381
Kisasi	18.5	11.4	39.6	0.7	9.0	12.6	1.0	7.2	12,325
Mbitini	14.6	13.0	38.8	1.4	12.4	10.7	0.6	8.5	11,705

Kwavonza/Yatta	18.8	13.4	28.7	1.2	9.9	16.7	0.6	10.7	14,918
Kanyangi	17.8	13.4	29.6	0.7	16.8	13.1	0.7	7.8	10,433
Kitui Central Constituency	23.7	13.0	28.5	1.3	7.9	15.4	0.7	9.6	66,196
Miambani	10.1	8.9	51.2	1.5	4.8	17.2	0.6	5.7	9,604
Township	39.4	21.6	9.1	1.3	6.1	11.2	0.3	11.1	15,234
Kyangwithya West	21.1	10.6	25.1	0.9	10.8	17.4	0.7	13.6	13,564
Mulango	24.1	10.5	26.9	1.1	9.9	19.2	1.0	7.5	14,555
Kyangwithya East	17.8	11.4	39.6	1.7	7.2	12.6	0.6	9.2	13,239
Kitui East Constituency	17.6	17.9	25.5	1.2	10.8	14.7	0.8	11.5	57,817
Zombe/Mwitika	17.8	36.8	12.7	1.3	7.6	11.8	0.9	11.0	11,505
Nzambani	24.0	10.0	24.6	2.2	13.0	17.0	0.9	8.3	9,780
Chuluni	12.2	10.5	44.4	1.0	9.9	12.5	0.7	8.9	10,198
Voo/Kyamatu	12.4	15.2	22.0	0.7	12.3	13.6	0.7	23.0	10,335
Endau/Malalani	16.6	20.3	27.6	1.0	12.7	16.5	1.5	3.8	6,939
Mutitu/Kaliku	22.9	12.0	23.9	1.0	10.3	18.3	0.6	11.1	9,060
Kitui South Constituency	25.2	12.4	25.7	0.9	13.3	16.6	0.8	5.2	75,331
Ikanga/Kyatune	20.8	10.0	29.3	0.8	15.6	18.5	1.0	4.1	16,669
Mutomo	26.9	10.2	24.7	0.8	13.9	17.5	1.1	4.9	11,327
Mutha	18.3	19.2	24.8	0.9	17.3	14.2	0.7	4.7	11,128
Ikutha	44.5	7.8	16.7	0.8	12.4	14.2	0.5	3.1	12,263
Kanziko	17.3	16.3	33.1	1.0	5.7	17.5	0.7	8.5	8,194
Athi	22.7	13.4	26.3	1.0	12.3	16.9	0.6	6.9	15,750

Table 18.3: Employment and Education Levels by County, Constituency and Wards

County /constituency/ Wards	Education Totallevel	Work for pay	Family Business	Family Agricultural Holding	Intern/ Volunteer	Retired/ Homemaker	Fulltime Student	Incapacitated	No work	Number of Individuals
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

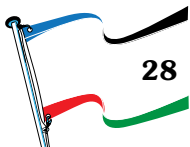
Rural	None	8.5	13.6	50.0	1.4	13.9	0.7	1.2	10.7	2,614,951
Rural	Primary	15.5	10.8	45.9	0.8	8.4	13.2	0.5	5.0	6,785,745
Rural	Secondary+	21.0	10.1	34.3	1.0	5.9	21.9	0.3	5.5	3,584,092
Urban	Total	38.1	16.4	11.4	1.3	9.9	12.2	0.3	10.2	7,265,012
Urban	None	23.5	15.8	17.1	3.1	18.7	1.5	1.6	18.8	539,405
Urban	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
Kitui	Total	21.3	12.8	27.2	1.0	14.0	14.9	0.8	7.9	475,754
Kitui	None	18.3	13.4	34.1	1.6	20.7	0.3	2.9	8.6	59,857
Kitui	Primary	19.8	12.9	28.8	0.9	14.3	15.0	0.5	8.0	298,478
Kitui	Secondary+	26.8	12.5	19.8	1.1	9.7	22.3	0.3	7.5	117,419
Mwingi North Constituency	Total	19.9	10.8	29.9	0.9	17.4	13.7	0.8	6.6	62,836
Mwingi North Constituency	None	19.7	10.2	36.0	1.3	23.0	0.2	2.7	6.8	10,976
Mwingi North Constituency	Primary	18.3	10.8	30.4	0.7	17.4	15.3	0.5	6.6	41,061
Mwingi North Constituency	Secondary+	26.5	11.8	21.7	1.0	11.4	21.3	0.3	6.1	10,799
Ngomeni Wards	Total	16.0	10.8	28.0	0.6	27.7	8.9	1.1	6.8	8,201
Ngomeni Wards	None	15.7	10.2	33.0	1.1	29.4	0.1	3.1	7.5	1,622
Ngomeni Wards	Primary	14.6	11.3	28.2	0.4	28.6	9.4	0.7	6.8	5,415
Ngomeni Wards	Secondary+	23.3	9.3	20.3	0.8	21.4	19.0	0.3	5.7	1,164
Kyuso Wards	Total	24.5	11.7	28.0	0.7	11.8	16.5	0.7	6.1	18,522
Kyuso Wards	None	24.6	12.2	34.8	1.0	17.7	0.2	2.3	7.3	2,934
Kyuso Wards	Primary	23.4	11.2	28.0	0.6	11.5	19.0	0.5	5.9	12,088
Kyuso Wards	Secondary+	28.4	12.8	22.5	0.9	7.8	21.4	0.3	5.8	3,500
Mumoni Wards	Total	20.2	8.1	28.9	1.0	14.5	16.4	0.8	10.0	15,116
Mumoni Wards	None	20.6	6.5	35.9	1.6	21.4	0.1	3.4	10.5	2,164
Mumoni Wards	Primary	18.1	8.0	30.2	0.9	14.5	17.9	0.5	10.1	10,187
Mumoni Wards	Secondary+	27.8	10.2	18.7	1.2	9.0	23.6	0.2	9.3	2,765
Tseikuru Wards	Total	20.0	11.5	34.0	1.2	18.8	8.7	1.0	4.9	14,975
Tseikuru Wards	None	19.7	9.5	38.6	1.5	22.9	0.1	2.8	4.9	3,343
Tseikuru Wards	Primary	18.2	12.0	34.6	1.1	18.8	9.9	0.5	5.0	9,384
Tseikuru Wards	Secondary+	27.9	12.4	24.9	1.1	12.9	16.3	0.4	4.2	2,248

Tharaka Wards	Total	10.3	13.4	30.1	0.6	24.2	17.8	0.4	3.2	6,022
Tharaka Wards	None	9.3	15.2	36.0	1.2	33.4	0.9	1.5	2.4	913
Tharaka Wards	Primary	8.5	12.8	31.0	0.6	24.7	18.8	0.2	3.4	3,987
Tharaka Wards	Secondary+	17.7	13.8	21.8	0.4	14.9	28.0	0.1	3.4	1,122
Mwingi West Constituency	Total	21.2	12.7	23.2	1.2	19.5	15.0	0.7	6.6	59,003
Mwingi West Constituency	None	15.3	13.5	29.4	1.9	29.8	0.4	2.9	6.8	5,873
Mwingi West Constituency	Primary	19.4	12.5	24.9	1.0	20.7	14.3	0.5	6.9	34,844
Mwingi West Constituency	Secondary+	26.5	12.8	18.0	1.3	14.1	20.9	0.3	6.1	18,286
Kyome/Thaana Wards	Total	18.3	13.4	23.5	1.0	18.9	17.6	0.6	6.6	12,814
Kyome/Thaana Wards	None	13.9	14.1	31.4	1.6	28.0	0.2	2.7	8.2	1,306
Kyome/Thaana Wards	Primary	17.2	14.1	24.2	1.0	19.4	16.9	0.4	6.7	7,157
Kyome/Thaana Wards	Secondary+	21.3	12.0	20.0	0.9	15.4	23.9	0.3	6.1	4,351
Nguutani Wards	Total	15.9	12.8	34.4	0.8	15.6	15.4	0.9	4.2	12,732
Nguutani Wards	None	11.3	13.4	45.2	1.0	20.8	0.5	3.0	4.8	1,342
Nguutani Wards	Primary	15.3	12.4	35.8	0.8	15.6	15.4	0.7	3.9	7,410
Nguutani Wards	Secondary+	18.6	13.5	28.0	0.8	13.6	20.4	0.5	4.6	3,980
Migwani Wards	Total	17.1	8.2	24.1	1.5	25.5	17.0	0.5	6.1	11,742
Migwani Wards	None	11.4	9.3	24.9	2.6	44.4	0.6	2.1	4.7	1,023
Migwani Wards	Primary	15.5	7.7	26.6	1.3	27.3	14.9	0.5	6.3	7,102
Migwani Wards	Secondary+	21.9	8.9	19.0	1.6	16.6	25.8	0.2	6.0	3,617
Kiomo/Kyethani Wards	Total	18.7	11.5	22.7	1.1	23.1	11.7	0.9	10.4	11,726
Kiomo/Kyethani Wards	None	14.1	11.0	27.5	1.8	32.2	0.1	3.9	9.5	1,294
Kiomo/Kyethani Wards	Primary	18.0	11.4	23.9	0.7	23.0	12.0	0.5	10.6	7,886
Kiomo/Kyethani Wards	Secondary+	23.2	12.1	16.4	1.9	18.7	16.8	0.4	10.5	2,546
Central Wards	Total	39.4	18.2	8.1	1.4	14.2	12.4	0.5	5.8	9,989
Central Wards	None	29.2	20.9	11.2	3.1	25.9	0.6	2.8	6.4	908
Central Wards	Primary	35.4	18.4	9.5	1.1	17.1	11.9	0.4	6.4	5,289
Central Wards	Secondary+	47.4	17.3	5.5	1.4	7.4	15.9	0.2	5.0	3,792
Mwingi Central Constituency	Total	22.6	12.5	24.1	1.1	16.5	14.2	0.8	8.4	55,878
Mwingi Central Constituency	None	19.8	13.2	29.5	1.9	23.0	0.2	2.9	9.6	8,483
Mwingi Central Constituency	Primary	21.0	12.1	24.9	0.9	16.7	15.4	0.4	8.5	36,638

Mwingi Central Constituency	Secondary+	30.1	13.1	16.7	1.0	10.5	21.1	0.3	7.2	10,757
Kivou Wards	Total	29.3	13.4	19.5	1.0	13.1	14.0	1.0	8.6	12,181
Kivou Wards	None	19.6	14.1	28.8	2.0	21.1	0.2	4.1	10.0	1,283
Kivou Wards	Primary	27.0	12.7	21.8	0.6	14.2	14.3	0.7	8.8	7,547
Kivou Wards	Secondary+	38.3	14.9	10.9	1.6	7.6	18.8	0.5	7.5	3,351
Nguni Wards	Total	19.9	12.9	28.9	1.1	16.2	12.5	0.8	7.8	12,704
Nguni Wards	None	18.0	12.9	34.2	1.8	21.5	0.1	2.2	9.3	2,451
Nguni Wards	Primary	18.8	12.8	28.8	0.9	16.0	14.4	0.5	7.9	8,622
Nguni Wards	Secondary+	28.1	13.8	21.5	0.9	9.5	20.9	0.3	5.0	1,631
Nuu Wards	Total	24.3	9.3	19.4	1.2	22.0	14.0	0.6	9.3	12,456
Nuu Wards	None	25.9	11.2	23.9	1.9	26.0	0.0	2.2	8.9	2,373
Nuu Wards	Primary	23.1	8.6	19.2	1.1	22.5	15.7	0.3	9.6	8,053
Nuu Wards	Secondary+	27.4	9.8	14.8	0.5	15.1	23.4	0.2	8.9	2,030
Mui Wards	Total	15.6	9.3	29.7	1.0	17.9	17.4	0.7	8.4	8,923
Mui Wards	None	12.7	8.4	34.2	1.4	28.6	0.2	2.6	12.1	1,177
Mui Wards	Primary	13.9	8.9	31.0	0.9	17.8	19.0	0.4	8.1	5,963
Mui Wards	Secondary+	23.4	11.3	22.6	0.8	11.1	23.4	0.2	7.2	1,783
Waita Wards	Total	21.8	17.7	24.2	1.1	12.7	13.9	0.9	7.8	9,614
Waita Wards	None	18.9	21.4	27.1	2.1	16.6	0.6	4.7	8.7	1,199
Waita Wards	Primary	20.8	17.9	25.1	1.0	12.5	14.3	0.4	8.0	6,453
Waita Wards	Secondary+	26.8	14.6	19.3	0.9	10.8	20.7	0.3	6.6	1,962
Kitui West Constituency	Total	20.9	10.6	28.4	0.8	15.2	16.0	0.8	7.5	49,312
Kitui West Constituency	None	16.3	8.8	35.2	1.3	25.6	0.6	4.1	8.2	3,844
Kitui West Constituency	Primary	19.9	10.2	30.7	0.7	15.8	14.8	0.6	7.4	29,216
Kitui West Constituency	Secondary+	23.9	11.6	22.6	0.8	11.7	21.6	0.4	7.4	16,252
Mutonguni Wards	Total	19.9	11.2	27.3	0.7	16.9	15.6	1.1	7.4	15,908
Mutonguni Wards	None	15.6	8.1	35.4	1.2	26.1	0.9	5.7	7.0	1,157
Mutonguni Wards	Primary	18.9	11.0	30.1	0.5	17.4	14.0	0.9	7.3	9,459
Mutonguni Wards	Secondary+	22.6	12.4	20.6	1.0	13.9	21.5	0.5	7.6	5,292
Kauwi Wards	Total	27.3	12.4	25.8	0.7	10.1	14.7	0.5	8.5	12,511
Kauwi Wards	None	25.7	9.6	29.9	1.4	17.1	0.5	3.3	12.7	814

Kauwi Wards	Primary	26.4	11.8	28.1	0.6	10.4	13.9	0.3	8.7	7,356
Kauwi Wards	Secondary+	29.2	13.8	21.3	0.9	8.5	18.6	0.3	7.5	4,341
Matinyani Wards	Total	18.2	8.4	31.8	0.6	15.6	18.4	0.9	6.0	12,044
Matinyani Wards	None	10.9	7.1	40.6	1.1	28.1	0.7	5.2	6.4	984
Matinyani Wards	Primary	16.7	8.0	34.4	0.6	16.9	16.9	0.5	6.0	7,028
Matinyani Wards	Secondary+	22.7	9.3	25.2	0.6	10.4	25.3	0.5	6.1	4,032
Kwamutonga/Kithumula Wards	Total	17.4	10.0	29.1	1.1	18.6	15.1	0.6	8.2	8,849
Kwamutonga/Kithumula Wards	None	14.5	10.8	33.8	1.4	30.0	0.3	1.7	7.5	889
Kwamutonga/Kithumula Wards	Primary	16.8	9.8	30.4	1.2	18.8	14.6	0.6	7.9	5,373
Kwamutonga/Kithumula Wards	Secondary+	19.4	10.1	24.9	0.8	14.4	21.4	0.2	8.9	2,587
Kitui Rural Constituency	Total	17.5	12.8	34.0	1.0	11.7	13.5	0.7	8.7	49,381
Kitui Rural Constituency	None	14.5	12.4	41.7	1.4	18.7	0.2	2.6	8.4	5,683
Kitui Rural Constituency	Primary	16.8	12.9	35.3	0.9	11.9	12.8	0.5	8.9	32,078
Kitui Rural Constituency	Secondary+	21.1	12.6	26.7	1.2	7.8	21.9	0.4	8.3	11,620
Kisasi Wards	Total	18.5	11.4	39.6	0.7	9.0	12.6	1.0	7.2	12,325
Kisasi Wards	None	15.4	10.8	49.7	0.9	12.4	0.1	3.9	6.8	1,663
Kisasi Wards	Primary	18.3	11.4	40.9	0.6	8.8	12.1	0.6	7.2	7,875
Kisasi Wards	Secondary+	21.0	11.6	29.8	0.7	7.8	21.4	0.5	7.3	2,787
Mbitini Wards	Total	14.6	13.0	38.8	1.4	12.4	10.7	0.6	8.5	11,705
Mbitini Wards	None	14.1	12.5	41.7	1.8	19.9	0.2	1.7	8.1	1,491
Mbitini Wards	Primary	13.4	13.0	39.9	1.3	12.7	10.5	0.5	8.7	7,763
Mbitini Wards	Secondary+	19.1	13.5	33.4	1.5	6.7	17.7	0.2	8.0	2,451
Kwavonza/Yatta Wards	Total	18.8	13.4	28.7	1.2	9.9	16.7	0.6	10.7	14,918
Kwavonza/Yatta Wards	None	14.0	14.2	39.4	2.0	17.2	0.4	2.7	10.2	1,387
Kwavonza/Yatta Wards	Primary	17.8	14.0	30.2	0.9	10.2	15.4	0.4	11.1	9,396
Kwavonza/Yatta Wards	Secondary+	22.5	11.9	21.9	1.6	6.8	25.1	0.3	9.9	4,135
Kanyangi Wards	Total	17.8	13.4	29.6	0.7	16.8	13.1	0.7	7.8	10,433
Kanyangi Wards	None	14.5	12.6	33.0	0.8	28.2	-	1.9	9.0	1,142
Kanyangi Wards	Primary	17.4	13.2	30.7	0.7	17.0	12.6	0.6	7.9	7,044
Kanyangi Wards	Secondary+	20.8	14.5	24.4	0.8	10.6	21.4	0.5	6.9	2,247
Kitui Central Constituency	Total	23.7	13.0	28.5	1.3	7.9	15.4	0.7	9.6	66,196

Kitui Central Constituency	None	16.8	12.3	40.9	2.3	13.4	0.5	3.1	10.8	5,476
Kitui Central Constituency	Primary	20.7	13.3	32.8	1.2	8.6	13.4	0.5	9.5	37,556
Kitui Central Constituency	Secondary+	30.2	12.8	18.5	1.3	5.4	21.9	0.3	9.6	23,164
Miambani Wards	Total	10.1	8.9	51.2	1.5	4.8	17.2	0.6	5.7	9,604
Miambani Wards	None	5.6	7.3	66.3	1.8	9.0	0.3	2.2	7.7	1,185
Miambani Wards	Primary	9.1	9.2	52.6	1.5	4.5	17.3	0.4	5.5	6,831
Miambani Wards	Secondary+	17.6	8.8	34.3	1.3	3.3	29.2	0.4	5.2	1,588
Township Wards	Total	39.4	21.6	9.1	1.3	6.1	11.2	0.3	11.1	15,234
Township Wards	None	30.2	22.2	13.6	2.8	12.5	1.2	1.1	16.6	930
Township Wards	Primary	34.1	25.1	11.8	1.0	7.8	7.7	0.4	12.3	6,636
Township Wards	Secondary+	45.1	18.5	6.3	1.5	3.8	15.4	0.1	9.4	7,668
Kyangwithya West Wards	Total	21.1	10.6	25.1	0.9	10.8	17.4	0.7	13.6	13,564
Kyangwithya West Wards	None	15.1	13.7	31.9	1.8	19.5	0.5	3.8	13.7	952
Kyangwithya West Wards	Primary	20.3	11.0	27.0	0.7	11.5	14.8	0.6	14.2	7,788
Kyangwithya West Wards	Secondary+	23.4	9.3	20.6	1.0	7.9	24.8	0.5	12.5	4,824
Mulango Wards	Total	24.1	10.5	26.9	1.1	9.9	19.2	1.0	7.5	14,555
Mulango Wards	None	21.7	11.5	35.0	2.3	16.6	0.4	4.9	7.7	1,318
Mulango Wards	Primary	24.0	11.2	29.9	1.0	10.5	15.5	0.8	6.9	8,360
Mulango Wards	Secondary+	24.7	9.0	19.4	0.9	6.9	30.5	0.3	8.4	4,877
Kyangwithya East Wards	Total	17.8	11.4	39.6	1.7	7.2	12.6	0.6	9.2	13,239
Kyangwithya East Wards	None	13.0	9.3	51.5	2.7	9.7	0.4	2.8	10.6	1,091
Kyangwithya East Wards	Primary	16.2	11.3	42.3	1.6	8.2	11.4	0.4	8.6	7,941
Kyangwithya East Wards	Secondary+	22.1	12.2	31.3	1.7	4.6	18.0	0.4	9.9	4,207
Kitui East Constituency	Total	17.6	17.9	25.5	1.2	10.8	14.7	0.8	11.5	57,817
Kitui East Constituency	None	14.4	21.5	31.9	1.7	13.7	0.2	2.5	14.0	8,928
Kitui East Constituency	Primary	16.4	18.1	26.5	1.0	10.9	15.0	0.6	11.5	37,192
Kitui East Constituency	Secondary+	23.6	14.6	17.5	1.4	8.3	24.9	0.3	9.3	11,697
Zombe/Mwitika Wards	Total	17.8	36.8	12.7	1.3	7.6	11.8	0.9	11.0	11,505
Zombe/Mwitika Wards	None	16.0	41.6	16.2	1.5	9.1	-	2.7	12.9	2,075
Zombe/Mwitika Wards	Primary	16.7	38.4	12.8	1.1	7.9	12.1	0.6	10.4	7,461
Zombe/Mwitika Wards	Secondary+	24.2	26.0	9.0	1.6	5.0	23.1	0.2	11.0	1,969



Nzambani Wards	Total	24.0	10.0	24.6	2.2	13.0	17.0	0.9	8.3	9,780
Nzambani Wards	None	17.1	9.4	35.1	3.8	20.2	0.8	5.5	8.3	639
Nzambani Wards	Primary	23.8	9.7	27.8	2.0	13.6	14.3	0.8	8.1	5,857
Nzambani Wards	Secondary+	25.9	10.7	16.8	2.3	10.5	24.9	0.3	8.7	3,284
Chuluni Wards	Total	12.2	10.5	44.4	1.0	9.9	12.5	0.7	8.9	10,198
Chuluni Wards	None	11.5	8.9	55.6	2.0	11.9	0.1	1.9	8.1	1,340
Chuluni Wards	Primary	11.1	10.6	45.9	0.7	9.7	12.5	0.5	9.0	6,982
Chuluni Wards	Secondary+	16.5	11.1	30.6	1.2	9.4	21.6	0.3	9.2	1,876
Voo/Kyamatu Wards	Total	12.4	15.2	22.0	0.7	12.3	13.6	0.7	23.0	10,335
Voo/Kyamatu Wards	None	11.4	16.3	29.0	1.2	12.6	0.1	1.8	27.7	2,229
Voo/Kyamatu Wards	Primary	10.6	14.9	21.3	0.6	12.4	16.2	0.4	23.6	6,674
Voo/Kyamatu Wards	Secondary+	22.7	14.9	14.7	0.7	11.7	22.6	0.4	12.5	1,432
Endau/Malalani Wards	Total	16.6	20.3	27.6	1.0	12.7	16.5	1.5	3.8	6,939
Endau/Malalani Wards	None	13.8	23.6	35.9	1.5	17.0	0.1	2.7	5.4	1,521
Endau/Malalani Wards	Primary	15.6	19.6	26.9	1.0	12.4	20.1	1.2	3.3	4,383
Endau/Malalani Wards	Secondary+	24.7	18.4	18.8	0.6	7.7	25.0	1.1	3.7	1,035
Mutitu/Kaliku Wards	Total	22.9	12.0	23.9	1.0	10.3	18.3	0.6	11.1	9,060
Mutitu/Kaliku Wards	None	20.5	13.7	31.3	2.1	18.7	0.2	2.6	10.9	1,124
Mutitu/Kaliku Wards	Primary	22.2	12.0	25.3	0.8	10.6	17.1	0.3	11.7	5,835
Mutitu/Kaliku Wards	Secondary+	26.0	10.9	16.1	0.8	5.1	31.3	0.3	9.5	2,101
Kitui South Constituency	Total	25.2	12.4	25.7	0.9	13.3	16.6	0.8	5.2	75,331
Kitui South Constituency	None	24.3	13.0	32.4	1.6	20.3	0.3	3.0	5.2	10,594
Kitui South Constituency	Primary	24.1	12.7	26.4	0.7	12.9	17.6	0.4	5.3	49,893
Kitui South Constituency	Secondary+	29.7	11.2	18.5	0.8	9.8	24.8	0.3	4.9	14,844
Ikanga/Kyatune Wards	Total	20.8	10.0	29.3	0.8	15.6	18.5	1.0	4.1	16,669
Ikanga/Kyatune Wards	None	19.5	9.0	39.2	1.1	22.9	0.2	3.8	4.3	2,447
Ikanga/Kyatune Wards	Primary	20.3	10.1	29.8	0.8	14.8	19.6	0.6	4.1	10,828
Ikanga/Kyatune Wards	Secondary+	23.3	10.3	20.4	0.5	12.9	28.3	0.4	4.0	3,394
Mutomo Wards	Total	26.9	10.2	24.7	0.8	13.9	17.5	1.1	4.9	11,327
Mutomo Wards	None	21.3	10.6	33.9	1.5	23.1	0.4	4.2	5.0	1,434

Mutomo Wards	Primary	24.6	10.0	26.9	0.6	14.1	18.5	0.8	4.6	6,616
Mutomo Wards	Secondary+	34.0	10.4	16.3	1.0	9.5	23.0	0.5	5.4	3,277
Mutha Wards	Total	18.3	19.2	24.8	0.9	17.3	14.2	0.7	4.7	11,128
Mutha Wards	None	16.0	21.1	29.0	1.3	25.8	0.2	1.8	4.8	2,469
Mutha Wards	Primary	16.8	19.5	24.6	0.7	15.7	17.8	0.3	4.5	7,276
Mutha Wards	Secondary+	30.0	13.9	18.7	1.2	10.5	20.0	0.4	5.4	1,383
Ikutha Wards	Total	44.5	7.8	16.7	0.8	12.4	14.2	0.5	3.1	12,263
Ikutha Wards	None	51.4	7.0	19.8	1.7	16.2	0.2	2.3	1.4	1,670
Ikutha Wards	Primary	44.6	7.5	17.5	0.6	12.2	14.1	0.2	3.3	8,147
Ikutha Wards	Secondary+	39.4	9.4	12.0	0.9	10.5	24.0	0.0	3.8	2,446
Kanziko Wards	Total	17.3	16.3	33.1	1.0	5.7	17.5	0.7	8.5	8,194
Kanziko Wards	None	14.8	20.1	41.6	1.5	8.3	0.4	3.3	10.0	966
Kanziko Wards	Primary	15.2	16.9	34.1	0.9	5.2	18.6	0.3	8.9	5,803
Kanziko Wards	Secondary+	27.2	11.5	23.2	0.8	6.1	25.0	0.4	5.9	1,425
Athi Wards	Total	22.7	13.4	26.3	1.0	12.3	16.9	0.6	6.9	15,750
Athi Wards	None	24.8	10.6	33.5	2.5	17.0	0.5	2.8	8.4	1,608
Athi Wards	Primary	21.7	13.8	26.5	0.8	12.9	17.0	0.4	6.9	11,223
Athi Wards	Secondary+	25.2	13.1	21.8	0.9	7.4	25.6	0.2	5.7	2,919

Table 18.4: Employment and Education Levels in Male Headed Household by County, Constituency and Wards

County, Constituency and Wards	Education Level reached	Work for Pay	Family Business	Family Agricultural holding	Internal/ Volunteer	Retired/ Homemaker	Fulltime Student	Incapacitated	No work	Population (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
Kitui	Total	23.7	13.6	26.8	1.0	12.8	13.3	0.7	8.1	289,433
Kitui	None	19.3	13.6	34.3	1.6	19.6	0.2	2.7	8.8	32,136
Kitui	Primary	21.8	13.8	28.6	0.9	13.3	13.0	0.5	8.2	182,990
Kitui	Secondary+	30.4	13.3	19.1	1.2	8.7	19.5	0.3	7.4	74,307
Mwingi North Constituency	Total	21.2	11.5	30.5	0.8	16.6	12.2	0.8	6.5	37,745
Mwingi North Constituency	None	19.7	10.3	37.1	1.2	21.9	0.2	2.8	6.6	6,067
Mwingi North Constituency	Primary	19.1	11.7	31.2	0.7	16.9	13.3	0.5	6.7	24,797
Mwingi North Constituency	Secondary+	29.8	11.7	22.3	1.0	10.7	18.6	0.3	5.7	6,881
Ngomeni Ward	Total	16.5	12.0	29.4	0.4	25.3	8.5	1.3	6.5	5,181
Ngomeni Ward	None	15.8	11.1	34.9	0.8	26.3	-	4.0	7.1	925
Ngomeni Ward	Primary	14.6	12.9	29.8	0.3	26.4	8.3	0.8	6.8	3,463
Ngomeni Ward	Secondary+	25.3	9.3	21.2	0.4	19.4	19.0	0.5	4.8	793
Kyuso Ward	Total	26.5	12.3	28.0	0.7	11.6	14.4	0.6	6.0	10,716
Kyuso Ward	None	25.8	11.4	34.8	0.6	18.2	0.3	2.1	6.9	1,541
Kyuso Ward	Primary	24.8	12.3	28.3	0.5	11.5	16.4	0.3	6.0	6,995
Kyuso Ward	Secondary+	32.5	12.9	22.6	1.0	7.5	17.8	0.3	5.3	2,180
Mumoni Ward	Total	22.4	8.8	29.2	1.0	12.9	14.7	0.8	10.3	8,690
Mumoni Ward	None	21.4	7.1	35.3	1.6	19.1	0.2	3.6	11.7	1,132
Mumoni Ward	Primary	19.6	8.6	31.0	0.8	13.1	16.0	0.4	10.6	5,844
Mumoni Ward	Secondary+	32.5	10.7	18.8	1.3	8.1	20.0	0.1	8.5	1,714
Tseikuru Ward	Total	20.8	11.5	35.4	1.2	17.7	7.5	1.0	4.9	9,099
Tseikuru Ward	None	18.8	9.8	41.2	1.4	21.3	0.1	2.9	4.5	1,893
Tseikuru Ward	Primary	19.2	12.0	35.7	1.1	17.8	8.3	0.6	5.2	5,765
Tseikuru Ward	Secondary+	30.0	11.5	26.4	1.0	12.4	14.4	0.3	4.0	1,441
Tharaka Ward	Total	11.4	14.2	30.4	0.7	23.8	15.9	0.4	3.2	4,059
Tharaka Ward	None	9.9	14.4	37.2	1.6	32.8	1.0	1.2	1.9	576
Tharaka Ward	Primary	9.2	14.3	31.1	0.6	24.7	16.5	0.3	3.3	2,730
Tharaka Ward	Secondary+	20.2	13.5	22.8	0.5	13.4	25.2	0.1	4.1	753

Mwingi West Constituency	Total	25.2	13.6	22.1	1.1	17.7	13.0	0.6	6.7	33,949
Mwingi West Constituency	None	17.7	13.6	29.3	1.6	27.6	0.4	2.8	7.1	3,067
Mwingi West Constituency	Primary	22.8	13.4	23.8	0.9	19.1	12.4	0.5	7.0	20,123
Mwingi West Constituency	Secondary+	31.6	13.9	16.7	1.3	12.3	17.9	0.3	5.9	10,759
Kyome/Thaana Ward	Total	22.0	15.0	21.8	0.9	17.0	15.7	0.6	7.0	6,993
Kyome/Thaana Ward	None	17.2	14.5	29.4	1.3	26.5	-	1.9	9.1	669
Kyome/Thaana Ward	Primary	19.9	15.7	22.7	0.8	17.7	15.6	0.5	7.2	3,944
Kyome/Thaana Ward	Secondary+	26.8	14.1	18.2	1.1	13.2	20.3	0.3	6.1	2,380
Nguutani Ward	Total	19.2	13.6	33.9	0.9	13.1	13.7	0.8	4.8	6,906
Nguutani Ward	None	12.3	13.7	46.3	0.4	18.0	0.4	3.0	5.9	710
Nguutani Ward	Primary	18.3	13.2	35.6	0.9	13.0	13.8	0.6	4.6	3,943
Nguutani Ward	Secondary+	22.9	14.4	27.0	1.0	11.6	17.8	0.6	4.7	2,253
Migwani Ward	Total	20.8	9.1	23.4	1.5	23.6	15.0	0.5	6.1	6,642
Migwani Ward	None	13.0	11.0	24.4	1.9	42.4	0.8	1.7	4.8	517
Migwani Ward	Primary	18.7	8.5	25.9	1.2	25.5	12.9	0.5	6.7	4,032
Migwani Ward	Secondary+	26.7	9.7	18.3	1.9	15.4	22.6	0.2	5.3	2,093
Kiomo/Kyethani Ward	Total	21.9	11.9	22.8	1.0	21.6	10.3	0.8	9.7	6,870
Kiomo/Kyethani Ward	None	16.0	10.7	27.5	1.6	30.3	0.1	4.6	9.1	692
Kiomo/Kyethani Ward	Primary	20.6	12.0	24.1	0.7	22.0	10.4	0.4	9.7	4,673
Kiomo/Kyethani Ward	Secondary+	28.6	12.2	16.4	1.9	16.3	14.7	0.2	9.8	1,505
Central Ward	Total	42.8	18.4	7.8	1.3	13.3	10.3	0.4	5.7	6,538
Central Ward	None	33.8	19.0	12.1	3.3	23.2	0.6	2.5	5.4	479
Central Ward	Primary	38.9	18.7	9.2	1.1	16.5	9.0	0.3	6.3	3,531
Central Ward	Secondary+	49.8	17.8	5.0	1.2	6.9	14.0	0.2	5.1	2,528
Mwingi Central Constituency	Total	25.1	12.9	23.5	1.1	15.2	12.7	0.7	8.8	33,502
Mwingi Central Constituency	None	20.2	13.1	30.0	1.7	22.1	0.1	2.6	10.2	4,413
Mwingi Central Constituency	Primary	23.5	12.6	24.5	1.0	15.6	13.6	0.4	8.9	22,117
Mwingi Central Constituency	Secondary+	33.4	13.8	16.3	1.0	9.9	17.8	0.3	7.4	6,972
Kivou Ward	Total	33.0	13.4	18.7	0.9	12.2	12.3	0.9	8.7	7,844
Kivou Ward	None	21.3	11.6	29.7	1.8	19.7	0.1	4.9	10.7	670
Kivou Ward	Primary	30.7	12.9	20.9	0.7	13.4	12.1	0.6	8.7	4,912

Kivou Ward	Secondary+	41.6	15.0	10.5	1.1	7.3	16.1	0.4	8.0	2,262
Nguni Ward	Total	21.3	13.7	29.0	1.1	14.5	11.0	0.8	8.5	7,265
Nguni Ward	None	17.1	14.7	33.6	1.8	20.4	0.2	2.3	9.9	1,266
Nguni Ward	Primary	20.4	13.3	29.0	0.8	14.4	12.9	0.5	8.7	5,001
Nguni Ward	Secondary+	31.3	14.3	23.2	1.8	7.8	15.7	0.5	5.3	998
Nuu Ward	Total	25.4	9.5	19.9	1.2	20.9	12.5	0.5	10.1	7,507
Nuu Ward	None	25.0	10.7	25.2	1.8	25.6	-	1.9	9.8	1,268
Nuu Ward	Primary	24.4	9.0	19.7	1.2	21.2	13.7	0.3	10.5	4,898
Nuu Ward	Secondary+	29.5	10.1	15.4	0.4	15.4	20.0	0.1	9.0	1,341
Mui Ward	Total	18.4	10.3	29.4	1.1	16.4	15.3	0.6	8.5	5,205
Mui Ward	None	13.5	7.7	35.6	1.3	28.7	-	1.8	11.4	607
Mui Ward	Primary	16.6	9.8	30.8	1.1	16.4	16.6	0.4	8.4	3,483
Mui Ward	Secondary+	26.6	13.2	21.8	1.0	10.0	19.6	0.3	7.5	1,115
Waita Ward	Total	24.8	18.2	22.6	1.3	11.7	13.2	0.5	7.6	5,681
Waita Ward	None	22.3	21.4	27.1	1.8	14.5	0.3	2.8	9.8	602
Waita Ward	Primary	23.2	18.6	23.6	1.2	11.8	13.4	0.3	7.8	3,823
Waita Ward	Secondary+	30.8	15.5	17.4	1.1	10.0	18.8	0.2	6.1	1,256
Kitui West Constituency	Total	23.6	11.9	27.7	0.8	13.5	14.1	0.7	7.8	29,124
Kitui West Constituency	None	17.5	9.3	34.5	1.1	24.6	0.5	3.8	8.7	1,914
Kitui West Constituency	Primary	21.9	11.7	30.6	0.7	13.9	12.9	0.5	7.9	17,292
Kitui West Constituency	Secondary+	27.6	12.9	21.3	0.9	10.5	19.0	0.3	7.5	9,918
Mutonguni Ward	Total	22.7	12.8	27.0	0.8	14.5	13.2	0.9	8.1	9,408
Mutonguni Ward	None	16.7	9.5	36.2	1.2	22.9	0.5	5.5	7.6	603
Mutonguni Ward	Primary	21.1	12.6	29.8	0.5	15.2	11.8	0.7	8.3	5,587
Mutonguni Ward	Secondary+	26.6	13.7	20.3	1.1	11.7	18.1	0.5	7.9	3,218
Kauwi Ward	Total	29.5	13.7	24.8	0.8	9.3	13.4	0.4	8.2	7,457
Kauwi Ward	None	26.6	8.6	30.9	1.4	18.5	-	3.4	10.6	417
Kauwi Ward	Primary	28.2	13.2	28.2	0.6	9.0	12.1	0.3	8.5	4,323
Kauwi Ward	Secondary+	31.9	15.2	18.4	0.9	8.5	17.5	0.1	7.5	2,717
Matinyani Ward	Total	20.9	9.6	31.3	0.7	14.3	16.4	0.7	6.2	7,155
Matinyani Ward	None	11.5	8.8	38.0	0.9	28.3	1.1	4.6	6.8	453

Matinyani Ward	Primary	18.5	9.1	34.7	0.6	15.4	15.1	0.4	6.1	4,249
Matinyani Ward	Secondary+	26.8	10.6	24.1	0.7	9.8	21.4	0.4	6.1	2,453
Kwamutonga/Kithumula Ward	Total	20.3	11.1	28.2	1.0	16.5	13.7	0.5	8.8	5,104
Kwamutonga/Kithumula Ward	None	15.9	10.2	32.2	1.1	29.0	0.2	0.9	10.4	441
Kwamutonga/Kithumula Ward	Primary	19.3	11.3	29.7	1.1	16.7	12.8	0.6	8.6	3,133
Kwamutonga/Kithumula Ward	Secondary+	23.5	10.8	24.1	0.8	12.5	19.6	0.1	8.6	1,530
Kitui Rural Constituency	Total	19.6	13.6	33.1	1.0	10.7	12.0	0.7	9.2	29,996
Kitui Rural Constituency	None	15.6	12.8	40.1	1.3	18.6	0.1	2.7	8.7	3,033
Kitui Rural Constituency	Primary	18.5	13.8	35.0	0.9	10.9	11.0	0.5	9.4	19,625
Kitui Rural Constituency	Secondary+	24.4	13.4	25.1	1.3	6.9	19.6	0.4	8.8	7,338
Kisasi Ward	Total	21.1	12.3	37.7	0.6	8.6	11.8	1.1	6.9	7,200
Kisasi Ward	None	15.9	11.0	47.0	0.8	13.3	0.2	4.6	7.1	847
Kisasi Ward	Primary	20.5	12.4	39.7	0.6	8.1	11.1	0.6	6.8	4,657
Kisasi Ward	Secondary+	25.3	12.7	27.4	0.4	7.4	19.2	0.5	7.1	1,696
Mbitini Ward	Total	16.1	13.5	38.5	1.4	10.6	10.1	0.6	9.1	6,956
Mbitini Ward	None	14.9	12.9	41.2	1.5	19.3	0.3	1.7	8.2	777
Mbitini Ward	Primary	14.7	13.6	40.3	1.3	10.7	9.3	0.6	9.5	4,632
Mbitini Ward	Secondary+	21.0	13.6	31.9	1.7	6.0	17.2	0.3	8.3	1,547
Kwavonza/Yatta Ward	Total	21.1	14.1	27.7	1.3	9.4	13.7	0.5	12.3	9,169
Kwavonza/Yatta Ward	None	15.3	14.7	37.0	1.9	17.4	-	2.3	11.4	783
Kwavonza/Yatta Ward	Primary	19.3	14.9	29.7	0.9	9.7	12.2	0.4	12.8	5,764
Kwavonza/Yatta Ward	Secondary+	26.6	12.1	20.5	1.8	6.4	21.0	0.3	11.4	2,622
Kanyangi Ward	Total	19.7	14.4	29.9	0.8	14.9	12.0	0.7	7.6	6,671
Kanyangi Ward	None	16.5	12.8	33.2	0.8	26.4	-	2.1	8.3	626
Kanyangi Ward	Primary	19.1	13.9	31.5	0.8	15.4	11.0	0.5	7.8	4,572
Kanyangi Ward	Secondary+	22.9	16.5	23.6	1.0	8.3	20.4	0.5	6.8	1,473
Kitui Central Constituency	Total	26.6	13.9	26.5	1.4	7.3	13.8	0.6	9.8	42,182
Kitui Central Constituency	None	18.3	13.0	38.9	2.4	12.6	0.4	2.4	12.1	2,994
Kitui Central Constituency	Primary	23.4	14.3	30.9	1.3	8.2	11.6	0.5	9.8	23,729
Kitui Central Constituency	Secondary+	33.2	13.5	17.3	1.4	4.9	20.0	0.3	9.3	15,459
Miambani Ward	Total	12.5	10.4	48.9	2.0	4.4	15.1	0.5	6.0	5,532

Miambani Ward	None	5.4	7.7	67.4	1.8	9.1	-	2.1	6.5	626
Miambani Ward	Primary	11.3	11.0	50.0	2.1	4.0	15.3	0.4	6.0	3,973
Miambani Ward	Secondary+	22.3	9.8	31.9	1.9	3.0	24.9	0.3	5.9	933
Township Ward	Total	41.2	22.1	8.7	1.4	5.9	9.6	0.3	10.9	10,856
Township Ward	None	30.7	21.7	11.4	3.3	12.4	1.0	1.0	18.6	613
Township Ward	Primary	35.9	25.1	11.1	1.0	7.7	7.0	0.3	12.0	4,886
Township Ward	Secondary+	47.2	19.4	6.2	1.5	3.6	12.9	0.1	9.1	5,357
Kyangwithya West Ward	Total	23.2	10.6	24.2	1.0	9.4	17.5	0.6	13.5	8,315
Kyangwithya West Ward	None	16.1	14.5	31.9	2.0	16.7	0.6	2.6	15.7	498
Kyangwithya West Ward	Primary	22.0	11.3	27.0	0.8	10.7	13.1	0.6	14.6	4,579
Kyangwithya West Ward	Secondary+	26.0	9.0	19.0	1.0	6.6	26.5	0.4	11.6	3,238
Mulango Ward	Total	26.9	10.9	26.0	1.1	9.0	17.4	0.9	7.8	9,229
Mulango Ward	None	23.3	11.4	33.9	2.0	15.7	0.1	3.9	9.7	709
Mulango Ward	Primary	27.0	11.7	29.1	0.9	9.7	13.4	0.9	7.3	5,334
Mulango Ward	Secondary+	27.7	9.5	19.1	1.2	6.4	27.8	0.4	8.1	3,186
Kyangwithya East Ward	Total	20.1	12.3	37.8	1.9	7.1	11.0	0.5	9.3	8,250
Kyangwithya East Ward	None	14.8	9.9	50.0	3.1	9.1	0.2	2.2	10.8	548
Kyangwithya East Ward	Primary	18.1	12.0	40.8	1.7	8.3	9.7	0.4	8.9	4,957
Kyangwithya East Ward	Secondary+	24.8	13.2	29.9	1.9	4.6	15.4	0.4	9.8	2,745
Kitui East Constituency	Total	19.3	18.2	25.8	1.2	10.4	13.2	0.7	11.2	36,228
Kitui East Constituency	None	15.8	21.0	32.5	1.7	13.1	0.1	2.3	13.5	4,867
Kitui East Constituency	Primary	17.6	18.6	27.1	1.0	10.5	13.1	0.5	11.5	23,751
Kitui East Constituency	Secondary+	26.9	14.9	17.6	1.5	8.1	21.8	0.2	8.9	7,610
Zombe/Mwitika Ward	Total	19.7	37.7	13.1	1.3	7.5	10.3	0.7	9.7	7,094
Zombe/Mwitika Ward	None	17.1	41.2	17.0	1.3	9.1	-	2.1	12.2	1,130
Zombe/Mwitika Ward	Primary	18.1	39.7	13.4	1.2	7.6	10.2	0.5	9.2	4,695
Zombe/Mwitika Ward	Secondary+	27.8	27.1	8.7	1.6	5.4	20.1	0.1	9.2	1,269
Nzambani Ward	Total	26.7	10.0	24.1	2.1	13.0	15.3	0.8	8.0	6,483
Nzambani Ward	None	19.8	9.1	33.1	3.6	19.1	0.9	5.2	9.1	329
Nzambani Ward	Primary	25.9	9.6	27.6	1.8	14.0	12.6	0.7	7.8	3,930
Nzambani Ward	Secondary+	29.3	10.9	16.4	2.5	10.3	22.2	0.2	8.1	2,224

Chuluni Ward	Total	13.4	11.0	45.1	1.0	9.1	10.9	0.6	9.0	6,489
Chuluni Ward	None	12.2	9.1	56.2	2.1	10.6	0.1	2.3	7.4	780
Chuluni Ward	Primary	12.0	11.4	46.5	0.7	8.9	11.0	0.4	9.2	4,508
Chuluni Ward	Secondary+	19.2	10.9	32.5	1.3	8.9	17.7	0.1	9.4	1,201
Voo/Kyamatu Ward	Total	13.4	15.6	22.3	0.7	11.6	12.8	0.6	23.1	6,484
Voo/Kyamatu Ward	None	12.3	16.1	30.9	1.0	12.1	-	1.5	26.1	1,255
Voo/Kyamatu Ward	Primary	11.1	15.5	21.5	0.7	11.7	14.7	0.4	24.5	4,300
Voo/Kyamatu Ward	Secondary+	25.4	15.6	14.2	0.9	10.4	20.9	0.3	12.3	929
Endau/Malalani Ward	Total	18.9	20.3	27.1	1.1	12.3	15.2	1.2	3.8	4,172
Endau/Malalani Ward	None	16.8	23.1	33.7	1.9	16.6	-	2.5	5.5	805
Endau/Malalani Ward	Primary	17.3	19.8	27.4	1.0	11.9	18.2	1.0	3.4	2,689
Endau/Malalani Ward	Secondary+	27.9	19.0	18.3	0.9	8.7	21.4	0.3	3.5	678
Mutitu/Kaliku Ward	Total	24.6	12.5	24.5	1.0	9.6	15.9	0.5	11.4	5,506
Mutitu/Kaliku Ward	None	22.4	12.1	32.2	2.3	17.8	0.2	2.5	10.6	568
Mutitu/Kaliku Ward	Primary	23.0	13.1	26.2	0.9	10.2	14.2	0.3	12.1	3,629
Mutitu/Kaliku Ward	Secondary+	29.7	10.9	16.5	0.8	4.6	27.2	0.3	10.0	1,309
Kitui South Constituency	Total	27.1	13.3	25.8	0.8	12.3	14.6	0.6	5.5	46,707
Kitui South Constituency	None	25.0	13.2	33.1	1.5	19.3	0.2	2.6	5.3	5,781
Kitui South Constituency	Primary	25.8	13.7	26.6	0.7	12.1	15.2	0.4	5.6	31,556
Kitui South Constituency	Secondary+	33.0	12.1	18.6	0.9	8.8	21.4	0.3	5.0	9,370
Ikanga/Kyatune Ward	Total	23.1	11.3	29.0	0.8	14.2	16.5	0.9	4.2	9,759
Ikanga/Kyatune Ward	None	20.8	9.6	40.0	0.9	20.5	0.2	3.2	4.8	1,238
Ikanga/Kyatune Ward	Primary	22.1	11.5	29.7	0.8	13.9	17.1	0.6	4.3	6,482
Ikanga/Kyatune Ward	Secondary+	27.5	11.9	20.1	0.6	11.4	24.5	0.3	3.7	2,039
Mutomo Ward	Total	29.4	10.5	24.8	0.7	13.0	15.4	1.0	5.2	6,820
Mutomo Ward	None	23.3	10.0	32.8	1.6	22.5	0.1	3.9	5.7	741
Mutomo Ward	Primary	26.8	10.4	27.4	0.4	13.5	16.0	0.7	4.8	4,040
Mutomo Ward	Secondary+	36.8	10.8	16.5	1.1	8.6	19.9	0.5	5.7	2,039
Mutha Ward	Total	19.6	19.3	25.9	0.8	16.4	12.5	0.5	5.0	7,208
Mutha Ward	None	15.4	19.8	31.8	1.2	26.1	0.1	1.4	4.4	1,470
Mutha Ward	Primary	18.2	20.1	25.6	0.6	14.7	15.5	0.3	5.0	4,801

Mutha Ward	Secondary+	33.6	14.2	18.1	1.3	10.0	16.6	0.4	5.7	937
Ikutha Ward	Total	46.7	8.6	15.7	0.8	12.1	12.5	0.4	3.2	7,982
Ikutha Ward	None	50.9	7.4	18.8	1.9	16.5	0.1	2.4	2.0	947
Ikutha Ward	Primary	47.1	8.3	16.2	0.6	11.9	12.4	0.2	3.2	5,429
Ikutha Ward	Secondary+	43.2	10.0	11.8	0.9	10.2	20.2	-	3.8	1,606
Kanziko Ward	Total	17.5	17.3	34.4	0.9	4.9	15.1	0.4	9.4	5,319
Kanziko Ward	None	15.8	19.6	41.9	1.8	8.3	0.2	2.2	10.2	551
Kanziko Ward	Primary	15.0	18.0	35.9	0.9	4.3	15.7	0.1	10.1	3,846
Kanziko Ward	Secondary+	29.3	12.9	23.6	0.7	5.3	21.9	0.2	6.1	922
Athi Ward	Total	24.1	14.4	27.0	0.9	11.1	14.9	0.6	7.0	9,619
Athi Ward	None	26.0	11.9	35.6	2.4	12.9	0.4	3.0	7.8	834
Athi Ward	Primary	23.1	14.8	27.0	0.7	12.3	14.6	0.4	7.1	6,958
Athi Ward	Secondary+	27.3	14.0	22.8	0.8	5.9	22.8	0.3	6.1	1,827

Table 18.5: Employment and Education Levels in Female Headed Households by County, Constituency and Wards

County, Constituency and Wards	Education Level reached	Work for Pay	Family Business	Family Agricultural holding	Internal/ Volunteer	Retired/ Home-maker	Fulltime Student	Incapacitated	No work	Population (15-64)
Kenya National	Total	18.87	11.91	32.74	1.20	9.85	16.66	0.69	8.08	5,518,645
Kenya National	None	10.34	13.04	44.55	1.90	16.45	0.80	1.76	11.17	974,824
Kenya National	Primary	16.74	11.75	37.10	0.89	9.82	16.23	0.59	6.89	2,589,877
Kenya National	Secondary+	25.95	11.57	21.07	1.27	6.59	25.16	0.28	8.11	1,953,944
Rural Rural	Total	31.53	15.66	12.80	1.54	9.33	16.99	0.54	11.60	1,781,078
Rural Rural	None	8.36	12.26	50.31	1.60	15.77	0.59	1.67	9.44	794,993
Rural Rural	Primary	13.02	9.90	43.79	0.81	9.49	17.03	0.60	5.36	1,924,111
Rural Rural	Secondary+	15.97	8.87	33.03	1.06	6.80	27.95	0.34	5.98	1,018,463
Urban Urban	Total	12.83	10.12	42.24	1.04	10.09	16.51	0.76	6.40	3,737,567
Urban Urban	None	19.09	16.50	19.04	3.22	19.45	1.70	2.18	18.83	179,831
Urban Urban	Primary	27.49	17.07	17.79	1.13	10.76	13.93	0.55	11.29	665,766

Urban Urban	Secondary+	36.81	14.50	8.06	1.51	6.36	22.11	0.22	10.43	935,481
Kitui	Total	17.5	11.6	27.8	1.0	15.6	18.0	.9	7.6	187400
Kitui	None	17.2	13.3	33.9	1.8	21.9	.3	3.1	8.4	27727
Kitui	Primary	16.6	11.3	29.1	.9	15.9	18.2	.6	7.5	115604
Kitui	Secondary+	20.1	11.0	20.6	1.0	11.1	28.5	.3	7.4	44069
Mwingi North Constituency	Total	18.0	9.9	28.8	.9	18.6	16.1	.9	6.7	25117
Mwingi North Constituency	None	19.7	10.1	34.5	1.5	24.4	.2	2.6	7.0	4909
Mwingi North Constituency	Primary	16.9	9.4	29.1	.8	18.3	18.5	.5	6.5	16281
Mwingi North Constituency	Secondary+	20.6	11.8	20.6	.9	12.6	26.3	.3	6.9	3927
Ngomeni Ward	Total	15.2	8.7	25.6	.9	31.7	9.9	.8	7.2	3028
Ngomeni Ward	None	15.5	9.0	30.4	1.6	33.4	.3	1.9	7.9	697
Ngomeni Ward	Primary	14.4	8.6	25.4	.5	32.4	11.3	.5	6.9	1952
Ngomeni Ward	Secondary+	18.5	9.0	17.9	1.6	25.1	20.6	0.0	7.4	379
Kyuso Ward	Total	21.8	10.8	28.0	.8	12.0	19.3	.9	6.3	7808
Kyuso Ward	None	23.2	13.1	34.8	1.4	17.2	.1	2.5	7.6	1394
Kyuso Ward	Primary	21.5	9.8	27.6	.7	11.6	22.4	.7	5.8	5094
Kyuso Ward	Secondary+	21.7	12.6	22.3	.8	8.3	27.3	.3	6.7	1320
Mumoni Ward	Total	17.2	7.3	28.5	1.1	16.6	18.8	.9	9.6	6439
Mumoni Ward	None	19.8	5.8	36.5	1.6	23.8	.1	3.2	9.1	1032
Mumoni Ward	Primary	15.9	7.1	29.0	1.0	16.3	20.6	.5	9.5	4356
Mumoni Ward	Secondary+	20.2	9.3	18.5	1.0	10.6	29.5	.4	10.7	1051
Tseikuru Ward	Total	18.7	11.5	31.9	1.1	20.6	10.4	.9	4.9	5879
Tseikuru Ward	None	21.0	9.2	35.0	1.5	24.9	.1	2.8	5.5	1449
Tseikuru Ward	Primary	16.5	11.9	32.8	.9	20.4	12.5	.3	4.7	3622
Tseikuru Ward	Secondary+	24.1	14.0	22.0	1.2	13.9	19.8	.5	4.5	808
Tharaka Ward	Total	8.2	11.7	29.3	.5	25.1	21.7	.4	3.3	1963
Tharaka Ward	None	8.3	16.6	34.1	.6	34.4	.6	2.1	3.3	337
Tharaka Ward	Primary	6.8	9.6	30.8	.6	24.7	23.8	.1	3.7	1257
Tharaka Ward	Secondary+	12.5	14.4	19.8	0.0	17.9	33.6	0.0	1.9	369
Mwingi West Constituency	Total	15.7	11.4	24.6	1.2	21.9	17.9	.8	6.6	25169
Mwingi West Constituency	None	12.7	13.4	29.5	2.3	32.3	.4	3.0	6.6	2806
Mwingi West Constituency	Primary	14.6	11.2	26.2	1.0	22.7	17.1	.5	6.6	14754
Mwingi West Constituency	Secondary+	19.0	11.1	19.7	1.1	16.4	25.9	.3	6.4	7609
Kyome/Thaana Ward	Total	13.9	11.4	25.6	1.1	21.2	19.8	.7	6.2	5822
Kyome/Thaana Ward	None	10.4	13.7	33.4	1.9	29.7	.3	3.5	7.2	637
Kyome/Thaana Ward	Primary	14.0	12.2	26.2	1.2	21.5	18.5	.3	6.1	3214
Kyome/Thaana Ward	Secondary+	14.7	9.5	22.2	.8	18.0	28.3	.4	6.1	1971
Nguutani Ward	Total	12.1	11.9	34.9	.8	18.5	17.4	.9	3.6	5826
Nguutani Ward	None	10.1	13.1	43.8	1.7	23.9	.6	3.0	3.6	632
Nguutani Ward	Primary	12.0	11.5	36.1	.7	18.6	17.1	.7	3.1	3467

Nguutani Ward	Secondary+	13.0	12.2	29.2	.5	16.3	23.9	.4	4.5	1727
Migwani Ward	Total	12.2	7.1	25.0	1.6	27.9	19.6	.5	6.1	5100
Migwani Ward	None	9.9	7.5	25.5	3.4	46.4	.4	2.4	4.5	506
Migwani Ward	Primary	11.1	6.7	27.5	1.5	29.6	17.4	.5	5.8	3070
Migwani Ward	Secondary+	15.2	7.9	19.9	1.2	18.2	30.3	.1	7.1	1524
Kiomo/Kyethani Ward	Total	13.8	10.7	22.0	1.1	24.6	15.6	.9	11.3	4970
Kiomo/Kyethani Ward	None	12.0	11.3	27.6	2.0	34.2	0.0	3.0	10.0	602
Kiomo/Kyethani Ward	Primary	14.0	10.4	23.3	.7	24.2	15.0	.7	11.7	3245
Kiomo/Kyethani Ward	Secondary+	14.3	11.1	15.2	1.7	20.5	25.7	.6	10.8	1123
Central Ward	Total	32.9	17.9	8.7	1.5	15.9	16.3	.7	6.0	3451
Central Ward	None	24.0	23.1	10.3	2.8	28.9	.5	3.0	7.5	429
Central Ward	Primary	28.3	17.9	10.0	1.0	18.1	17.6	.5	6.5	1758
Central Ward	Secondary+	42.4	16.1	6.5	1.7	8.5	19.8	.2	4.8	1264
Mwingi Central Constituency	Total	18.8	11.7	24.8	1.1	18.3	16.5	.9	7.9	22414
Mwingi Central Constituency	None	19.4	13.3	28.9	2.0	24.0	.3	3.2	9.0	4070
Mwingi Central Constituency	Primary	17.3	11.3	25.5	.8	18.5	18.2	.5	7.9	14548
Mwingi Central Constituency	Secondary+	23.9	11.9	17.4	1.2	11.5	27.0	.3	6.7	3796
Kivou Ward	Total	22.7	13.5	21.1	1.3	14.8	17.2	1.0	8.3	4337
Kivou Ward	None	17.6	16.8	27.9	2.3	22.7	.3	3.3	9.1	613
Kivou Ward	Primary	20.2	12.2	23.3	.5	15.8	18.2	.8	9.0	2635
Kivou Ward	Secondary+	31.5	14.8	11.7	2.8	8.2	24.4	.5	6.2	1089
Nguni Ward	Total	17.8	11.8	28.6	1.2	18.3	14.7	.7	6.9	5478
Nguni Ward	None	18.8	11.0	34.7	1.9	22.8	.1	2.0	8.8	1185
Nguni Ward	Primary	16.6	11.9	28.3	1.0	18.0	16.9	.4	6.7	3649
Nguni Ward	Secondary+	22.7	12.7	18.8	.8	12.0	28.6	0.0	4.5	644
Nuu Ward	Total	22.7	8.9	18.6	1.2	23.6	16.1	.8	8.1	4949
Nuu Ward	None	26.9	11.7	22.4	2.0	26.6	.1	2.4	7.9	1105
Nuu Ward	Primary	21.1	7.9	18.4	1.0	24.5	18.7	.3	8.1	3155
Nuu Ward	Secondary+	23.2	9.0	13.6	.7	14.7	29.9	.3	8.6	689
Mui Ward	Total	11.8	8.0	30.1	.8	19.9	20.4	.8	8.3	3718
Mui Ward	None	11.8	9.1	32.6	1.4	28.6	.4	3.3	12.8	570
Mui Ward	Primary	10.1	7.7	31.3	.7	19.8	22.4	.4	7.7	2480
Mui Ward	Secondary+	18.1	8.2	23.8	.6	12.7	29.8	.1	6.6	668
Waita Ward	Total	17.4	16.8	26.3	.9	14.0	14.9	1.5	8.1	3932
Waita Ward	None	15.6	21.3	27.1	2.3	18.8	.8	6.5	7.5	597
Waita Ward	Primary	17.3	16.9	27.2	.7	13.4	15.6	.6	8.3	2629
Waita Ward	Secondary+	19.5	13.0	22.7	.4	12.2	24.2	.4	7.5	706
Kitui West Constituency	Total	17.0	8.6	29.1	.7	17.5	19.1	1.0	7.0	20287
Kitui West Constituency	None	15.1	8.3	35.8	1.3	26.6	.8	4.5	7.6	1929
Kitui West Constituency	Primary	16.9	8.2	30.7	.6	18.4	17.7	.7	6.8	11935
Kitui West Constituency	Secondary+	17.7	9.5	24.0	.7	13.3	27.1	.4	7.2	6423

Mutonguni Ward	Total	15.7	8.9	27.5	.6	20.2	19.5	1.3	6.2	6546
Mutonguni Ward	None	14.3	6.7	34.5	1.3	29.7	1.3	6.0	6.3	553
Mutonguni Ward	Primary	15.8	8.6	30.4	.5	20.6	17.2	1.1	5.8	3869
Mutonguni Ward	Secondary+	15.9	10.1	20.5	.7	16.9	28.6	.3	7.0	2124
Kauwi Ward	Total	23.8	10.3	27.0	.7	11.2	17.4	.6	8.9	5103
Kauwi Ward	None	24.7	10.6	28.7	1.3	15.6	1.0	3.3	14.9	397
Kauwi Ward	Primary	23.7	9.8	27.8	.5	12.3	16.6	.3	9.0	3033
Kauwi Ward	Secondary+	24.0	11.1	25.2	.9	8.2	22.9	.4	7.4	1673
Matinyani Ward	Total	14.3	6.5	32.4	.6	17.6	21.7	1.2	5.9	4894
Matinyani Ward	None	10.4	5.6	42.7	1.3	27.9	.4	5.6	6.0	531
Matinyani Ward	Primary	13.7	6.3	33.8	.5	19.1	20.2	.7	5.8	2794
Matinyani Ward	Secondary+	16.5	7.3	26.3	.4	11.4	31.5	.5	6.0	1569
Kwamutonga/Kithumula Ward	Total	13.4	8.4	30.3	1.2	21.6	17.0	.7	7.3	3744
Kwamutonga/Kithumula Ward	None	13.2	11.4	35.3	1.6	31.0	.4	2.5	4.7	448
Kwamutonga/Kithumula Ward	Primary	13.4	7.5	31.4	1.3	21.8	17.1	.6	6.9	2239
Kwamutonga/Kithumula Ward	Secondary+	13.4	9.1	26.0	.8	17.1	23.9	.4	9.3	1057
Kitui Rural Constituency	Total	14.2	11.5	35.2	1.0	13.3	16.3	.7	7.8	19499
Kitui Rural Constituency	None	13.2	12.0	43.6	1.5	18.9	.2	2.5	8.0	2650
Kitui Rural Constituency	Primary	14.1	11.6	35.7	.9	13.6	15.7	.5	8.0	12455
Kitui Rural Constituency	Secondary+	15.0	11.0	28.6	1.0	8.9	27.8	.3	7.3	4394
Kisasi Ward	Total	14.9	10.0	42.3	.8	9.7	13.8	1.0	7.5	5126
Kisasi Ward	None	14.8	10.7	52.5	1.0	11.4	0.0	3.2	6.5	816
Kisasi Ward	Primary	15.1	10.0	42.7	.6	9.7	13.5	.6	7.8	3219
Kisasi Ward	Secondary+	14.3	9.7	33.4	1.0	8.4	24.9	.5	7.7	1091
Mbitini Ward	Total	12.5	12.4	39.1	1.4	14.9	11.7	.5	7.6	4749
Mbitini Ward	None	13.2	12.0	42.3	2.1	20.6	.1	1.7	8.0	714
Mbitini Ward	Primary	11.4	12.2	39.3	1.4	15.6	12.3	.4	7.5	3131
Mbitini Ward	Secondary+	15.7	13.3	36.0	1.0	7.9	18.6	.1	7.5	904
Kwavonza/Yatta Ward	Total	14.8	12.1	29.8	1.1	10.5	23.0	.7	8.0	5862
Kwavonza/Yatta Ward	None	12.3	13.6	42.4	2.0	17.1	.8	3.3	8.6	604
Kwavonza/Yatta Ward	Primary	15.4	12.4	30.9	.9	11.0	20.5	.5	8.5	3633
Kwavonza/Yatta Ward	Secondary+	14.4	10.8	22.6	1.2	7.0	36.9	.2	6.9	1625
Kanyangi Ward	Total	14.4	11.6	29.1	.5	20.3	15.1	.8	8.1	3762
Kanyangi Ward	None	12.0	12.4	32.8	.8	30.4	0.0	1.7	9.9	516
Kanyangi Ward	Primary	14.2	11.7	29.4	.4	19.9	15.7	.6	8.1	2472
Kanyangi Ward	Secondary+	16.7	10.7	26.0	.5	15.0	23.4	.5	7.2	774
Kitui Central Constituency	Total	18.1	11.1	31.1	1.1	8.6	20.1	.8	9.1	24721
Kitui Central Constituency	None	15.0	11.6	43.1	2.2	14.3	.7	3.8	9.3	2491
Kitui Central Constituency	Primary	16.1	11.4	36.1	.9	9.3	16.8	.5	8.8	13862
Kitui Central Constituency	Secondary+	22.2	10.6	19.2	1.0	5.8	31.4	.3	9.6	8368
Miambani Ward	Total	6.7	6.8	54.4	.8	5.4	19.9	.7	5.3	4072

Miambani Ward	None	5.7	6.8	65.1	1.8	8.8	.5	2.3	8.9	559
Miambani Ward	Primary	6.0	6.6	56.2	.7	5.1	20.2	.4	4.8	2858
Miambani Ward	Secondary+	10.8	7.3	37.6	.3	3.7	35.4	.6	4.3	655
Township Ward	Total	34.8	20.4	10.0	1.3	6.2	15.3	.4	11.7	4437
Township Ward	None	29.3	23.0	17.7	2.2	12.6	1.6	1.3	12.3	317
Township Ward	Primary	29.5	24.5	13.4	.8	7.8	10.5	.6	12.9	1786
Township Ward	Secondary+	39.6	16.9	6.4	1.5	4.2	20.8	.1	10.6	2334
Kyangwithya West Ward	Total	17.0	10.3	25.6	.8	12.4	20.0	.9	13.1	5433
Kyangwithya West Ward	None	14.5	13.0	31.3	2.4	22.2	.4	5.0	11.2	463
Kyangwithya West Ward	Primary	18.0	10.6	27.0	.4	12.6	17.3	.5	13.5	3202
Kyangwithya West Ward	Secondary+	16.1	8.9	21.4	1.0	9.3	29.9	.5	13.0	1768
Mulango Ward	Total	19.0	9.8	28.3	1.1	11.3	22.5	1.1	6.9	5334
Mulango Ward	None	19.9	11.5	36.3	2.6	17.7	.7	5.9	5.4	609
Mulango Ward	Primary	18.8	10.5	31.5	1.2	11.9	19.3	.8	6.1	3023
Mulango Ward	Secondary+	19.0	7.9	19.9	.5	7.9	35.9	.1	8.9	1702
Kyangwithya East Ward	Total	13.0	9.1	39.2	1.4	6.6	22.1	.6	8.1	5445
Kyangwithya East Ward	None	11.2	8.7	53.0	2.2	10.3	.6	3.5	10.5	543
Kyangwithya East Ward	Primary	13.2	9.9	45.0	1.5	8.0	14.2	.3	8.0	2993
Kyangwithya East Ward	Secondary+	13.1	7.9	26.1	1.0	3.5	40.5	.3	7.6	1909
Kitui East Constituency	Total	14.6	17.4	25.0	1.2	11.5	17.4	1.1	11.8	21588
Kitui East Constituency	None	12.8	22.1	31.2	1.8	14.5	.2	2.8	14.6	4060
Kitui East Constituency	Primary	14.2	17.1	25.5	1.0	11.5	18.5	.7	11.5	13442
Kitui East Constituency	Secondary+	17.5	13.9	17.3	1.2	8.7	30.8	.6	10.1	4086
Zombe/Mwitika Ward	Total	14.9	35.5	12.1	1.2	7.9	14.2	1.2	13.0	4409
Zombe/Mwitika Ward	None	14.7	42.2	15.2	1.7	9.1	0.0	3.3	13.8	945
Zombe/Mwitika Ward	Primary	14.2	36.1	11.6	1.0	8.4	15.5	.8	12.5	2766
Zombe/Mwitika Ward	Secondary+	17.6	23.8	9.5	1.7	4.3	28.7	.3	14.2	698
Nzambani Ward	Total	18.7	9.9	25.6	2.4	13.0	20.3	1.2	8.9	3297
Nzambani Ward	None	14.2	9.7	37.1	3.9	21.3	.6	5.8	7.4	310
Nzambani Ward	Primary	19.4	9.8	28.2	2.4	12.8	17.9	.9	8.6	1927
Nzambani Ward	Secondary+	18.6	10.3	17.5	1.9	11.0	30.5	.4	9.8	1060
Chuluni Ward	Total	10.1	9.6	43.1	1.1	11.4	15.3	.8	8.8	3707
Chuluni Ward	None	10.5	8.6	54.8	2.0	13.6	0.0	1.4	9.1	560
Chuluni Ward	Primary	9.5	9.3	44.7	.8	11.2	15.2	.6	8.7	2472
Chuluni Ward	Secondary+	11.9	11.6	27.3	1.0	10.2	28.4	.7	8.9	675
Voo/Kyamatu Ward	Total	10.9	14.6	21.6	.7	13.6	15.1	.9	22.7	3842
Voo/Kyamatu Ward	None	10.2	16.5	26.5	1.4	13.3	.3	2.2	29.6	973
Voo/Kyamatu Ward	Primary	9.7	14.0	20.8	.4	13.7	19.0	.5	22.0	2368
Voo/Kyamatu Ward	Secondary+	17.8	13.6	15.6	.4	14.0	25.5	.2	13.0	501
Endau/Malalani Ward	Total	13.0	20.2	28.4	.9	13.3	18.4	2.0	3.9	2767

Endau/Malalani Ward	None	10.5	24.2	38.4	1.1	17.3	.3	2.9	5.3	716
Endau/Malalani Ward	Primary	12.8	19.2	26.0	1.0	13.1	23.1	1.5	3.2	1694
Endau/Malalani Ward	Secondary+	18.8	17.1	19.9	0.0	5.9	31.9	2.5	3.9	357
Mutitu/Kaliku Ward	Total	20.3	11.1	22.9	1.0	11.3	22.2	.6	10.5	3566
Mutitu/Kaliku Ward	None	18.5	15.3	30.4	2.0	19.6	.2	2.7	11.3	556
Mutitu/Kaliku Ward	Primary	20.8	10.2	23.7	.8	11.2	22.2	.2	11.0	2215
Mutitu/Kaliku Ward	Secondary+	20.3	10.7	15.5	.8	6.0	37.9	.3	8.7	795
Kitui South Constituency	Total	22.1	11.0	25.4	1.0	14.9	19.8	1.0	4.8	28605
Kitui South Constituency	None	23.6	12.7	31.6	1.6	21.5	.5	3.4	5.1	4812
Kitui South Constituency	Primary	21.1	10.9	26.0	.9	14.1	21.7	.5	4.7	18327
Kitui South Constituency	Secondary+	24.1	9.7	18.3	.8	11.5	30.6	.3	4.7	5466
Ikanga/Kyatune Ward	Total	17.6	8.0	29.6	.8	17.5	21.3	1.2	4.0	6910
Ikanga/Kyatune Ward	None	18.1	8.3	38.5	1.4	25.3	.2	4.5	3.7	1209
Ikanga/Kyatune Ward	Primary	17.6	8.0	29.9	.8	16.0	23.3	.5	3.9	4346
Ikanga/Kyatune Ward	Secondary+	17.0	8.0	20.8	.4	15.1	33.9	.5	4.4	1355
Mutomo Ward	Total	23.1	9.8	24.6	1.0	15.2	20.6	1.3	4.4	4504
Mutomo Ward	None	19.2	11.3	35.1	1.4	23.7	.6	4.5	4.3	693
Mutomo Ward	Primary	21.1	9.4	26.0	1.0	15.0	22.4	.9	4.3	2575
Mutomo Ward	Secondary+	29.4	9.8	15.9	.8	11.0	28.0	.4	4.8	1236
Mutha Ward	Total	15.8	19.0	22.9	1.0	19.0	17.2	.9	4.1	3916
Mutha Ward	None	17.0	23.0	24.8	1.5	25.4	.4	2.4	5.4	998
Mutha Ward	Primary	14.2	18.4	22.7	.8	17.8	22.3	.4	3.5	2472
Mutha Ward	Secondary+	22.4	13.2	20.0	.9	11.4	26.9	.2	4.9	446
Ikutha Ward	Total	40.4	6.4	18.7	.8	12.9	17.3	.6	3.0	4275
Ikutha Ward	None	52.1	6.4	21.0	1.5	15.8	.4	2.2	.6	723
Ikutha Ward	Primary	39.8	5.9	20.0	.6	12.7	17.4	.3	3.4	2715
Ikutha Ward	Secondary+	32.1	8.4	12.3	.8	11.0	31.5	.1	3.7	837
Kanziko Ward	Total	16.8	14.5	30.6	1.0	7.1	22.0	1.3	6.7	2875
Kanziko Ward	None	13.5	20.7	41.2	1.0	8.2	.7	4.8	9.9	415
Kanziko Ward	Primary	15.7	14.6	30.6	1.0	6.8	24.3	.7	6.3	1957
Kanziko Ward	Secondary+	23.5	8.9	22.3	1.0	7.6	30.6	.6	5.6	503
Athi Ward	Total	20.3	11.7	25.2	1.2	14.2	20.0	.7	6.7	6125
Athi Ward	None	23.4	9.2	31.3	2.6	21.3	.6	2.6	9.0	774
Athi Ward	Primary	19.4	12.2	25.5	1.1	14.0	20.8	.5	6.7	4262
Athi Ward	Secondary+	21.6	11.8	20.0	1.0	9.9	30.4	.2	5.1	1089

Table 18.6: 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
Kitui County	0.026	2,260	0.017	0.388
Mwingi North Constituency	0.004	1,430	0.0015	0.317
Ngomeni	0.000	1,220	0.0002	0.264
Kyuso	0.001	1,730	0.0005	0.345
Mumoni	0.001	1,560	0.0004	0.302
Tseikuru	0.001	1,100	0.0003	0.274
Tharaka	0.000	1,300	0.0001	0.251
Mwingi West Constituency	0.003	2,550	0.0022	0.322
Kyome/Thaana	0.001	2,770	0.0006	0.311
Nguutani	0.001	2,740	0.0006	0.308
Migwani	0.001	2,730	0.0005	0.313
Kiomo/Kyethani	0.001	1,980	0.0004	0.319
Central	0.000	2,450	0.0001	0.320
Mwingi Central Constituency	0.003	1,620	0.0015	0.319
Kivou	0.001	2,080	0.0003	0.324
Nguni	0.001	1,470	0.0003	0.288
Nuu	0.001	1,250	0.0003	0.280
Mui	0.001	1,630	0.0003	0.304
Waita	0.001	1,900	0.0003	0.317
Kitui West Constituency	0.003	3,230	0.0025	0.311
Mutonguni	0.001	3,270	0.0008	0.300
Kauwi	0.001	3,460	0.0007	0.326
Matinyani	0.001	3,260	0.0006	0.310
Kwamutonga/Kithumula	0.000	2,810	0.0004	0.300
Kitui Rural Constituency	0.003	2,230	0.0018	0.323
Kisasi	0.001	2,240	0.0005	0.316
Mbitini	0.001	2,360	0.0005	0.308
Kwavonza/Yatta	0.001	2,440	0.0006	0.327
Kanyangi	0.001	1,800	0.0003	0.308
Kitui Central Constituency	0.003	3,880	0.0038	0.388
Miambani	0.001	1,780	0.0003	0.303
Township	0.001	6,470	0.0012	0.306
Kyangwithya West	0.001	3,770	0.0008	0.336
Mulango	0.001	3,580	0.0008	0.354
Kyangwithya East	0.001	3,720	0.0007	0.324
Kitui East Constituency	0.003	1,980	0.0019	0.377
Zombe/Mwitika	0.001	1,620	0.0003	0.298
Nzambani	0.000	4,090	0.0006	0.336
Chuluni	0.001	2,120	0.0004	0.309
Voo/Kyamatu	0.001	1,230	0.0002	0.239
Endau/Malalani	0.000	1,290	0.0002	0.255
Mutitu/Kaliku	0.001	1,740	0.0003	0.319
Kitui South Constituency	0.004	1,630	0.0021	0.308
Ikanga/Kyatune	0.001	1,860	0.0005	0.303
Mutomo	0.001	2,070	0.0004	0.370
Mutha	0.001	1,240	0.0002	0.243
Ikutha	0.001	1,630	0.0003	0.302

Kanziko	0.001	1,410	0.0002	0.255
Athi	0.001	1,500	0.0004	0.273

Table 18.7: 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
Kitui County	24.7	61.8	13.5	892,565
Mwingi North Constituency	29.8	61.3	9.0	122,752
Ngomeni	34.1	58.5	7.4	16,010
Kyuso	27.3	62.7	10.0	35,701
Mumoni	28.4	62.2	9.4	29,986
Tseikuru	33.4	58.9	7.7	29,588
Tharaka	25.6	64.4	10.0	11,467
Mwingi West Constituency	21.4	61.2	17.4	108,069
Kyome/Thaana	20.9	60.0	19.1	23,477
Nguutani	22.5	60.8	16.7	24,366
Migwani	21.2	61.7	17.2	21,715
Kiomo/Kyethani	23.5	65.0	11.6	22,588
Central	18.0	57.6	24.3	15,923
Mwingi Central Constituency	26.9	62.8	10.3	107,237
Kivou	22.7	61.4	15.9	21,689
Nguni	31.0	62.4	6.6	25,334
Nuu	29.5	62.0	8.6	24,300
Mui	24.9	64.7	10.4	17,463
Waita	25.1	64.0	10.9	18,451
Kitui West Constituency	20.4	61.2	18.4	91,293
Mutonguni	19.9	61.8	18.2	30,232
Kauwi	18.9	61.4	19.7	22,727
Matinyani	21.5	59.3	19.3	21,540

Kwamutonga/Kithumula	21.9	62.2	15.9	16,794
Kitui Rural Constituency	22.9	64.3	12.8	93,394
Kisasi	24.5	63.4	12.1	23,709
Mbitini	24.7	63.9	11.4	22,105
Kwavonza/Yatta	20.3	64.3	15.4	27,714
Kanyangi	22.6	65.7	11.7	19,866
Kitui Central Constituency	19.3	59.7	21.0	114,206
Miambani	25.2	66.4	8.4	19,442
Township	14.1	49.9	36.0	21,836
Kyangwithya West	18.4	60.7	20.9	23,932
Mulango	19.8	60.5	19.6	25,873
Kyangwithya East	19.8	61.4	18.8	23,123
Kitui East Constituency	28.2	60.8	11.0	109,302
Zombe/Mwitika	29.3	61.7	9.1	22,201
Nzambani	19.5	60.1	20.5	16,555
Chuluni	26.2	64.0	9.8	19,749
Voo/Kyamatu	34.1	58.7	7.2	20,184
Endau/Malalani	34.9	57.4	7.7	13,609
Mutitu/Kaliku	25.5	61.8	12.7	17,004
Kitui South Constituency	26.8	62.9	10.4	146,312
Ikanga/Kyatune	25.8	63.5	10.7	32,447
Mutomo	24.6	59.9	15.5	21,537
Mutha	34.2	59.4	6.5	21,901
Ikutha	26.4	62.8	10.8	23,177
Kanziko	26.8	64.2	8.9	16,321
Athi	24.1	66.3	9.6	30,929

Table 18.8: 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
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
Kitui County	22.0	63.3	14.7	419,859		27.1	60.4	12.5	472,706
Mwingi North Constituency	27.0	62.5	10.6	56,498		32.2	60.2	7.6	66,254
Ngomeni	31.1	59.8	9.1	7,565		36.7	57.3	5.9	8,445
Kyuso	24.4	64.2	11.5	16,356		29.9	61.4	8.8	19,345
Mumoni	26.0	63.3	10.7	13,656		30.3	61.3	8.3	16,330
Tseikuru	30.3	60.4	9.4	13,617		36.2	57.6	6.3	15,971
Tharaka	23.0	64.5	12.4	5,304		27.8	64.3	7.9	6,163
Mwingi West Constituency	19.5	62.6	17.9	49,898		23.1	60.0	16.9	58,171
Kyome/Thaana	18.6	62.3	19.1	10,662		22.9	58.1	19.0	12,815
Nguutani	20.8	62.0	17.2	10,870		23.8	59.9	16.3	13,496
Migwani	19.5	63.0	17.4	10,066		22.5	60.6	16.9	11,649
Kiomo/Kyethani	21.4	66.2	12.4	10,681		25.4	63.8	10.8	11,907
Central	16.3	58.4	25.4	7,619		19.7	57.0	23.4	8,304
Mwingi Central Constituency	24.3	64.1	11.6	50,198		29.3	61.6	9.1	57,039
Kivou	20.8	62.5	16.8	10,312		24.4	60.5	15.2	11,377
Nguni	28.1	64.1	7.8	11,846		33.6	61.0	5.5	13,488
Nuu	26.7	63.7	9.7	11,228		31.8	60.5	7.7	13,072
Mui	22.0	65.7	12.3	8,226		27.5	63.8	8.7	9,237
Waita	22.5	65.0	12.5	8,586		27.3	63.2	9.5	9,865
Kitui West Constituency	17.9	63.4	18.8	42,359		22.6	59.3	18.1	48,934
Mutonguni	17.6	63.4	18.9	13,790		21.9	60.5	17.7	16,442
Kauwi	17.3	63.5	19.3	10,560		20.4	59.6	20.0	12,167
Matinyani	17.8	62.2	20.1	10,174		24.7	56.7	18.6	11,366
Kwamutonga/Kithumula	19.1	64.7	16.2	7,835		24.4	60.0	15.6	8,959
Kitui Rural Constituency	20.4	65.5	14.2	44,702		25.3	63.2	11.6	48,692
Kisasi	21.5	65.1	13.4	11,121		27.2	61.9	10.9	12,588
Mbitini	22.0	65.5	12.6	10,497		27.2	62.5	10.3	11,608
Kwavonza/Yatta	18.2	65.1	16.7	13,427		22.3	63.5	14.2	14,287
Kanyangi	20.3	66.4	13.3	9,657		24.8	65.0	10.2	10,209
Kitui Central Constituency	16.7	60.9	22.5	54,638		21.8	58.6	19.6	59,568

Miambani	22.6	68.0	9.4	8,891		27.4	65.0	7.6	10,551
Township	12.9	50.6	36.5	10,762		15.2	49.2	35.6	11,074
Kyangwithya West	15.2	62.2	22.6	11,594		21.4	59.2	19.4	12,338
Mulango	17.2	61.4	21.4	12,395		22.2	59.7	18.0	13,478
Kyangwithya East	16.5	63.0	20.4	10,996		22.8	59.9	17.3	12,127
Kitui East Constituency	24.7	62.7	12.6	52,047		31.5	59.1	9.5	57,255
Zombe/Mwitika	25.9	63.4	10.7	10,515		32.2	60.2	7.6	11,686
Nzambani	16.6	61.5	21.9	8,053		22.2	58.8	19.1	8,502
Chuluni	23.6	65.4	11.0	9,409		28.6	62.7	8.7	10,340
Voo/Kyamatu	30.0	61.3	8.8	9,499		37.8	56.4	5.8	10,685
Endau/Malalani	30.0	60.2	9.8	6,428		39.3	54.9	5.9	7,181
Mutitu/Kaliku	21.9	63.5	14.6	8,143		28.8	60.3	10.9	8,861
Kitui South Constituency	24.0	64.6	11.4	69,519		29.3	61.3	9.4	76,793
Ikanga/Kyatune	23.1	65.4	11.5	15,328		28.3	61.8	10.0	17,119
Mutomo	21.9	61.9	16.2	10,199		27.1	58.0	14.9	11,338
Mutha	29.8	62.6	7.6	10,347		38.1	56.5	5.4	11,554
Ikutha	23.9	63.9	12.2	11,161		28.8	61.7	9.6	12,016
Kanziko	24.2	65.4	10.4	7,659		29.1	63.2	7.7	8,662
Athi	22.1	67.3	10.6	14,825		26.0	65.3	8.7	16,104

Table 18.9: 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
Kitui County	0.1	2.0	0.6	0.3	88.6	8.2	0.1	0.1	201,692
Mwingi North Constituency	0.1	0.6	0.2	0.1	94.6	4.1	0.1	0.1	25,778
Ngomeni	-	0.4	0.1	0.2	96.3	2.8	0.0	0.2	3,297
Kyuso	0.1	0.9	0.4	0.1	90.8	7.5	0.1	0.1	7,602
Mumoni	0.0	0.6	0.2	0.1	96.1	2.8	0.1	0.2	6,586
Tseikuru	0.0	0.6	0.2	0.1	95.5	3.2	0.1	0.1	6,034

Tharaka	-	0.1	0.0	0.2	98.4	1.2	-	-	2,259
Mwingi West Constituency	0.2	3.6	0.8	0.3	81.0	13.9	0.1	0.2	26,387
Kyome/Thaana	0.1	0.8	0.4	0.1	93.6	4.9	0.1	0.1	5,473
Nguutani	0.1	0.5	0.2	0.1	94.8	4.2	0.1	0.1	5,466
Migwani	0.1	1.6	0.5	0.1	89.4	8.2	0.0	0.1	5,354
Kiomo/Kyethani	0.0	0.7	0.1	0.2	95.7	3.2	0.0	0.1	4,911
Central	0.6	14.6	2.7	0.8	30.6	49.9	0.1	0.8	5,183
Mwingi Central Constituency	0.1	2.1	0.6	0.3	88.2	8.6	0.0	0.2	24,228
Kivou	0.2	6.5	1.7	0.4	67.7	22.9	0.1	0.5	5,517
Nguni	0.1	0.7	0.1	0.1	92.9	5.8	0.1	0.2	5,479
Nuu	0.0	0.6	0.3	0.2	95.0	3.7	-	0.1	5,045
Mui	-	0.7	0.4	0.3	94.2	4.4	0.0	0.0	4,018
Waita	-	0.9	0.2	0.1	95.2	3.3	0.1	0.2	4,169
Kitui West Constituency	0.1	1.8	0.5	0.3	91.1	6.0	0.1	0.0	21,979
Mutonguni	0.1	1.4	0.4	0.2	92.7	5.0	0.1	-	7,391
Kauwi	0.1	4.2	1.1	0.3	82.5	11.8	0.1	-	5,508
Matinyani	0.1	1.1	0.5	0.5	94.0	3.7	0.1	0.1	5,120
Kwamutonga/Kithumula	0.1	0.3	0.2	0.4	96.0	2.9	0.1	0.1	3,960
Kitui Rural Constituency	0.0	0.6	0.3	0.2	94.0	4.7	0.1	0.1	21,132
Kisasi	-	0.6	0.2	0.3	94.3	4.4	0.0	0.3	5,437
Mbitini	0.0	0.4	0.1	0.0	93.0	6.2	0.1	0.0	4,935
Kwavonza/Yatta	0.1	0.7	0.5	0.2	93.9	4.4	0.0	0.2	6,464
Kyangangi	-	0.5	0.1	0.2	95.0	4.0	0.1	-	4,296
Kitui Central Constituency	0.3	5.0	1.9	0.6	75.0	16.8	0.1	0.1	28,415
Miambani	0.0	0.4	0.1	0.2	96.1	3.2	0.0	0.0	4,436
Township	1.0	18.8	6.8	1.3	17.6	54.1	0.0	0.4	6,875
Kyangwithya West	0.2	0.8	0.4	0.6	93.4	4.4	0.1	0.1	5,611
Mulango	0.2	0.5	0.4	0.2	92.3	6.4	0.1	0.0	6,097
Kyangwithya East	0.1	1.0	0.6	0.5	92.3	5.2	0.1	0.1	5,396
Kitui East Constituency	0.0	0.6	0.3	0.2	94.1	4.6	0.1	0.2	23,551
Zombe/Mwitika	0.0	0.8	0.4	0.2	94.1	4.3	0.1	0.1	4,876
Nzambani	0.1	1.2	0.6	0.3	86.3	11.4	0.1	0.1	3,906

Chuluni	-	0.2	0.1	0.2	95.3	4.0	0.0	0.1	4,295
Voo/Kyamatu	0.0	0.2	0.2	0.2	97.7	1.4	0.0	0.3	3,944
Endau/Malalani	-	0.2	-	0.2	97.1	2.1	0.0	0.4	2,764
Mutitu/Kaliku	0.1	0.8	0.2	0.2	94.8	3.7	0.1	0.1	3,766
Kitui South Constituency	0.1	1.2	0.1	0.3	93.2	5.0	0.1	0.1	30,222
Ikanga/Kyatune	0.0	0.4	0.1	0.2	95.7	3.4	0.0	0.2	7,025
Mutomo	-	3.4	0.5	1.1	83.4	11.5	0.0	0.2	4,600
Mutha	-	0.7	0.0	0.0	96.2	3.1	-	0.0	4,383
Ikutha	0.4	1.6	0.2	0.2	90.0	7.2	0.2	0.2	4,487
Kanziko	-	0.6	0.1	0.2	97.0	1.9	0.0	0.2	3,250
Athi	0.0	0.6	0.0	0.2	95.8	3.3	0.1	0.0	6,477

Table 18.10: 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
Kitui County	0.1	2.5	0.7	0.3	86.9	9.2	0.1	0.2	110,589
Mwingi North Constituency	0.1	0.9	0.3	0.1	93.9	4.5	0.1	0.2	13,719
Ngomeni	0.0	0.5	0.1	0.1	96.6	2.5	0.0	0.2	1,859
Kyuso	0.2	1.3	0.6	0.1	89.2	8.3	0.2	0.1	3,932
Mumoni	0.1	0.9	0.2	0.1	95.1	3.5	0.1	0.1	3,327
Tseikuru	0.1	0.9	0.3	0.2	94.8	3.4	0.1	0.2	3,219
Tharaka	0.0	0.1	0.1	0.3	98.5	1.0	0.0	0.0	1,382
Mwingi West Constituency	0.2	4.5	0.8	0.3	77.6	16.1	0.1	0.4	13,605
Kyome/Thaana	0.0	1.1	0.5	0.1	92.2	5.8	0.1	0.1	2,634
Nguutani	0.1	0.9	0.2	0.2	93.8	4.8	0.0	0.1	2,563
Migwani	0.0	2.2	0.5	0.1	88.5	8.5	0.0	0.1	2,688
Kiomo/Kyethani	0.1	0.6	0.1	0.3	95.3	3.4	0.0	0.2	2,578
Central	0.6	15.4	2.5	0.9	28.3	50.9	0.1	1.4	3,142
Mwingi Central Constituency	0.1	2.8	0.7	0.3	86.2	9.6	0.1	0.3	13,008
Kivou	0.2	8.2	1.9	0.5	64.1	24.3	0.1	0.8	3,239
Nguni	0.1	0.8	0.1	0.0	92.5	6.2	0.1	0.1	2,742
Nuu	0.0	0.8	0.5	0.3	94.6	3.6	0.0	0.1	2,738
Mui	0.0	0.9	0.3	0.3	92.9	5.5	0.0	0.0	2,115
Waita	0.0	1.4	0.2	0.1	94.2	3.7	0.1	0.2	2,174
Kitui West Constituency	0.1	2.2	0.7	0.4	90.0	6.4	0.1	0.0	11,462
Mutonguni	0.2	1.7	0.5	0.4	92.2	5.0	0.1	0.0	3,774
Kauwi	0.1	5.1	1.4	0.3	79.9	13.2	0.0	0.0	2,940
Matinyani	0.1	1.4	0.4	0.6	93.4	3.9	0.1	0.1	2,722

Kwamutonga/Kithumula	0.1	0.3	0.2	0.4	96.0	2.8	0.0	0.1	2,026
Kitui Rural Constituency	0.0	0.7	0.3	0.2	93.1	5.3	0.1	0.2	11,693
Kisasi	0.0	0.7	0.1	0.4	92.9	5.5	0.0	0.4	2,823
Mbitini	0.0	0.6	0.2	0.1	92.4	6.6	0.1	0.0	2,632
Kwavonza/Yatta	0.1	0.8	0.7	0.2	93.0	4.9	0.1	0.2	3,738
Kyangi	0.0	0.5	0.0	0.2	94.4	4.6	0.2	0.0	2,500
Kitui Central Constituency	0.5	6.3	2.2	0.6	70.8	19.4	0.1	0.2	16,430
Miambani	0.1	0.5	0.1	0.2	95.1	3.9	0.0	0.0	2,207
Township	1.1	20.3	6.5	1.3	16.7	53.7	0.0	0.5	4,654
Kyangwithya West	0.3	0.9	0.5	0.6	92.1	5.4	0.0	0.2	3,072
Mulango	0.2	0.4	0.5	0.2	91.3	7.3	0.1	0.0	3,464
Kyangwithya East	0.2	1.1	0.8	0.4	91.0	6.2	0.1	0.2	3,033
Kitui East Constituency	0.0	0.7	0.2	0.2	93.5	5.0	0.1	0.2	13,499
Zombe/Mwitika	0.1	0.8	0.4	0.2	93.2	5.0	0.1	0.3	2,740
Nzambani	0.1	1.4	0.6	0.3	85.8	11.4	0.1	0.2	2,385
Chuluni	0.0	0.2	0.0	0.3	94.8	4.6	0.0	0.1	2,460
Voo/Kyamatu	0.0	0.2	0.1	0.2	97.9	1.3	0.0	0.3	2,300
Endau/Malalani	0.0	0.2	0.0	0.3	96.7	2.4	0.0	0.5	1,514
Mutitu/Kaliku	0.0	1.2	0.1	0.1	94.1	4.1	0.1	0.1	2,100
Kitui South Constituency	0.1	1.3	0.2	0.3	92.8	5.2	0.1	0.1	17,173
Ikanga/Kyatune	0.0	0.5	0.1	0.1	95.3	3.7	0.1	0.2	3,711
Mutomo	0.0	4.0	0.7	1.1	82.4	11.6	0.0	0.2	2,562
Mutha	0.0	0.8	0.0	0.0	95.6	3.5	0.0	0.0	2,638
Ikutha	0.3	1.7	0.1	0.3	89.7	7.5	0.1	0.2	2,671
Kanziko	0.0	0.9	0.1	0.1	96.8	2.0	0.1	0.1	1,968
Athi	0.1	0.6	0.0	0.1	95.8	3.4	0.0	0.0	3,623

Table 18.11: 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
Kitui County	0.1	1.4	0.5	0.3	90.7	7.0	0.0	0.1	91,103
Mwingi North Constituency	0.0	0.3	0.1	0.1	95.5	3.7	0.1	0.1	12,059
Ngomeni	-	0.3	0.1	0.2	96.0	3.1	0.1	0.1	1,438
Kyuso	0.1	0.4	0.2	0.1	92.5	6.6	0.0	0.0	3,670
Mumoni	-	0.3	0.2	0.1	97.1	2.0	0.1	0.2	3,259
Tseikuru	0.0	0.4	0.1	0.1	96.3	2.9	0.1	0.0	2,815
Tharaka	-	0.1	-	0.1	98.3	1.5	-	-	877
Mwingi West Constituency	0.1	2.7	0.7	0.2	84.7	11.6	0.1	0.0	12,782

Kyome/Thaana	0.1	0.6	0.3	0.1	94.8	3.9	0.0	0.0	2,839
Nguutani	0.1	0.2	0.2	0.1	95.7	3.6	0.1	-	2,903
Migwani	0.1	0.9	0.4	0.2	90.4	7.9	-	0.1	2,666
Kiomo/Kyethani	-	0.9	-	0.0	96.1	3.0	0.0	-	2,333
Central	0.5	13.3	2.9	0.6	34.1	48.4	0.1	-	2,041
Mwingi Central Constituency	0.1	1.2	0.4	0.2	90.5	7.4	0.0	0.1	11,220
Kivou	0.2	4.2	1.5	0.4	72.8	20.9	-	0.2	2,278
Nguni	0.0	0.7	0.0	0.2	93.3	5.5	0.0	0.2	2,737
Nuu	0.0	0.3	0.1	0.1	95.5	3.9	-	0.0	2,307
Mui	-	0.4	0.5	0.3	95.6	3.2	0.1	0.1	1,903
Waita	-	0.4	0.1	0.1	96.3	2.9	-	0.3	1,995
Kitui West Constituency	0.1	1.4	0.4	0.2	92.2	5.6	0.1	0.0	10,517
Mutonguni	0.1	1.1	0.3	0.0	93.3	5.1	0.1	-	3,617
Kauwi	-	3.2	0.7	0.3	85.5	10.2	0.1	-	2,568
Matinyani	0.1	0.8	0.6	0.4	94.7	3.4	-	0.0	2,398
Kwamutonga/Kithumula	0.1	0.3	0.1	0.4	96.1	2.9	0.1	-	1,934
Kitui Rural Constituency	0.0	0.5	0.2	0.1	95.1	4.0	0.0	0.1	9,439
Kisasi	-	0.4	0.3	0.1	95.8	3.2	0.0	0.2	2,614
Mbitini	0.0	0.3	0.1	-	93.7	5.8	0.0	0.0	2,303
Kwavonza/Yatta	0.1	0.6	0.3	0.1	95.0	3.7	0.0	0.1	2,726
Kyangi	-	0.6	0.1	0.2	95.9	3.2	-	-	1,796
Kitui Central Constituency	0.2	3.3	1.6	0.6	80.9	13.3	0.1	0.1	11,985
Miambani	-	0.2	0.1	0.2	97.0	2.4	0.1	-	2,229
Township	0.9	15.6	7.3	1.4	19.5	55.1	0.0	0.2	2,221
Kyangwithya West	0.0	0.6	0.4	0.6	95.0	3.3	0.1	0.0	2,539
Mulango	0.1	0.5	0.4	0.2	93.5	5.2	-	0.0	2,633
Kyangwithya East	0.1	0.8	0.4	0.6	94.0	4.0	0.0	0.0	2,363
Kitui East Constituency	0.0	0.4	0.3	0.2	94.9	4.0	0.0	0.1	10,052
Zombe/Mwitika	-	0.7	0.4	0.1	95.4	3.4	0.0	-	2,136
Nzambani	0.1	0.9	0.5	0.2	87.0	11.2	0.1	-	1,521
Chuluni	-	0.2	0.2	0.2	96.1	3.3	-	0.1	1,835

Voo/Kyamatu	-	0.2	0.2	0.1	97.5	1.6	-	0.3	1,644
Endau/Malalani	-	0.2	-	0.2	97.5	1.8	0.1	0.3	1,250
Mutitu/Kaliku	0.1	0.4	0.4	0.4	95.7	3.1	0.1	-	1,666
Kitui South Constituency	0.1	0.9	0.1	0.4	93.7	4.7	0.0	0.1	13,049
Ikanga/Kyatune	-	0.2	0.0	0.3	96.1	3.1	-	0.2	3,314
Mutomo	-	2.7	0.2	1.1	84.6	11.3	-	0.0	2,038
Mutha	-	0.5	0.1	-	97.1	2.3	-	-	1,745
Ikutha	0.5	1.5	0.3	0.1	90.5	6.8	0.2	0.1	1,816
Kanziko	-	0.3	0.2	0.4	97.2	1.7	-	0.2	1,282
Athi	0.0	0.6	0.0	0.2	95.7	3.2	0.1	0.1	2,854

Table 18.12: 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
Kitui County	4.8	0.6	54.1	31.4	0.7	5.0	2.9	0.6	110,589
Mwingi North Constituency	1.5	0.7	58.4	21.2	0.8	13.8	2.2	1.5	13,719
Ngomeni	0.1	0.3	54.3	18.4	1.5	21.7	1.2	2.6	1,859
Kyuso	3.6	0.5	61.0	21.8	1.0	9.1	2.1	0.8	3,932
Mumoni	0.7	1.5	58.9	25.5	0.7	7.6	3.1	2.0	3,327
Tseikuru	0.9	0.3	60.4	12.6	0.6	22.1	1.9	1.3	3,219
Tharaka	0.6	0.3	48.2	33.3	0.3	14.1	2.4	0.8	1,382
Mwingi West Constituency	8.3	0.5	59.5	25.0	0.5	0.8	4.9	0.5	13,605
Kyome/Thaana	1.3	0.2	71.5	19.5	0.6	0.3	6.4	0.2	2,634
Nguutani	1.5	1.2	60.4	28.2	0.5	0.7	7.2	0.3	2,563
Migwani	3.6	0.1	60.1	28.1	0.6	0.5	6.5	0.4	2,688
Kiomo/Kyethani	1.1	0.2	66.4	26.5	0.5	1.9	3.0	0.4	2,578
Central	34.4	0.5	38.7	22.9	0.4	0.7	0.9	1.4	3,142
Mwingi Central Constituency	4.4	0.5	54.1	28.8	0.8	7.5	2.7	1.2	13,008
Kivou	18.2	0.3	53.0	22.8	0.3	2.2	2.4	0.9	3,239
Nguni	0.1	0.3	46.6	36.8	0.5	13.2	1.5	1.0	2,742
Nuu	0.1	0.1	57.6	24.8	0.5	13.8	2.5	0.8	2,738
Mui	0.0	0.2	54.2	34.8	0.9	4.7	4.4	0.8	2,115
Waita	1.5	2.1	61.1	25.2	2.0	2.5	3.1	2.5	2,174
Kitui West Constituency	5.0	0.5	57.1	31.8	0.7	0.3	4.6	0.1	11,462

Mutonguni	3.1	0.8	62.0	27.4	0.5	0.2	6.0	0.0	3,774
Kauwi	9.3	0.4	52.9	31.7	0.3	0.2	5.2	0.1	2,940
Matinyani	5.9	0.3	58.6	30.5	1.3	0.1	3.3	0.1	2,722
Kwamutonga/Kithumula	1.3	0.3	51.9	41.9	0.6	0.8	3.1	0.2	2,026
Kitui Rural Constituency	1.4	0.8	49.2	42.3	0.8	2.6	2.4	0.5	11,693
Kisasi	1.0	1.0	52.3	42.2	0.6	0.4	2.2	0.2	2,823
Mbitini	2.4	0.5	44.6	45.8	0.7	2.6	2.0	1.4	2,632
Kwavonza/Yatta	1.7	0.8	47.5	40.6	1.2	4.5	3.4	0.2	3,738
Kanyangi	0.2	0.7	52.9	41.2	0.8	2.2	1.7	0.4	2,500
Kitui Central Constituency	14.4	0.6	51.3	29.4	0.5	0.8	2.9	0.1	16,430
Miambani	0.3	0.8	60.3	33.8	0.5	1.2	3.0	0.1	2,207
Township	47.8	0.6	32.9	17.1	0.1	0.4	0.8	0.3	4,654
Kyangwithya West	3.3	0.3	64.4	26.5	0.6	0.3	4.6	0.0	3,072
Mulango	3.7	0.4	57.7	33.1	0.5	1.0	3.4	0.1	3,464
Kyangwithya East	7.3	0.9	46.3	39.9	0.9	1.2	3.4	0.1	3,033
Kitui East Constituency	1.4	0.5	51.1	33.9	0.7	9.4	2.2	0.8	13,499
Zombe/Mwitika	0.1	0.8	47.5	39.5	0.7	8.8	2.4	0.2	2,740
Nzambani	7.6	0.4	55.8	32.3	0.5	0.2	3.1	0.2	2,385
Chuluni	0.0	0.8	50.9	44.7	0.5	1.0	1.6	0.5	2,460
Voo/Kyamatu	0.1	0.3	47.2	37.1	0.9	12.9	0.7	0.8	2,300
Endau/Malalani	0.1	0.4	35.5	21.0	0.8	38.1	1.0	2.9	1,514
Mutitu/Kaliku	0.3	0.4	66.7	22.2	0.7	4.9	4.1	0.7	2,100
Kitui South Constituency	0.4	0.5	51.8	39.9	0.6	4.8	1.6	0.4	17,173
Ikanga/Kyatune	0.1	0.3	55.7	39.6	0.4	2.2	1.6	0.1	3,711
Mutomo	0.4	1.6	52.4	40.4	0.4	1.4	2.2	1.2	2,562
Mutha	0.1	0.5	50.9	27.1	0.8	19.3	0.8	0.4	2,638
Ikutha	1.3	0.2	44.0	50.7	0.7	1.0	2.0	0.1	2,671
Kanziko	0.2	0.4	50.8	39.9	0.8	5.7	1.8	0.4	1,968
Athi	0.5	0.4	53.7	40.8	0.5	2.4	1.3	0.4	3,623

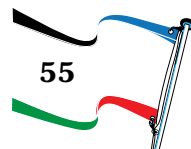
Table 18.13: Lighting Fuel for Male Headed Households by County, Constituency and Wards

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
Kitui County	5.6	0.6	52.9	31.6	0.6	4.9	3.1	0.7	110,589
Mwingi North Constituency	1.9	0.7	58.5	20.8	0.8	13.2	2.6	1.5	13,719
Ngomeni	0.1	0.3	55.7	17.2	1.5	21.5	1.3	2.5	1,859
Kyuso	4.7	0.7	60.6	21.9	0.9	7.8	2.7	0.7	3,932
Mumoni	0.9	1.7	59.3	24.7	0.8	7.1	3.4	2.1	3,327
Tseikuru	1.0	0.2	61.2	12.7	0.5	20.6	2.3	1.6	3,219

Tharaka	0.7	0.2	48.1	32.1	0.4	15.0	2.7	0.7	1,382
Mwingi West Constituency	9.7	0.6	57.2	25.4	0.5	0.9	5.0	0.7	13,605
Kyome/Thaana	1.5	0.2	69.5	20.0	0.6	0.4	7.6	0.3	2,634
Nguutani	2.1	1.6	58.8	28.7	0.5	0.8	7.1	0.4	2,563
Migwani	4.1	0.2	58.6	28.5	0.7	0.8	6.8	0.4	2,688
Kiomo/Kyethani	1.4	0.2	65.8	26.4	0.4	2.0	3.3	0.5	2,578
Central	34.5	0.7	37.3	23.8	0.4	0.5	0.8	1.9	3,142
Mwingi Central Constituency	5.4	0.5	53.7	28.5	0.7	6.9	2.9	1.3	13,008
Kivou	20.2	0.3	51.7	21.5	0.3	2.3	2.6	1.0	3,239
Nguni	0.1	0.4	46.1	37.7	0.6	12.5	1.4	1.2	2,742
Nuu	0.1	0.0	59.3	24.4	0.4	12.1	2.8	0.9	2,738
Mui	0.0	0.1	53.6	34.8	0.9	4.5	4.9	1.2	2,115
Waita	2.1	2.0	59.2	26.5	1.7	2.4	3.6	2.6	2,174
Kitui West Constituency	6.0	0.5	55.7	31.8	0.7	0.3	4.9	0.1	11,462
Mutonguni	3.8	0.8	60.5	27.6	0.7	0.2	6.5	0.1	3,774
Kauwi	10.6	0.5	52.0	31.3	0.2	0.2	5.0	0.1	2,940
Matinyani	7.2	0.4	57.4	29.4	1.5	0.0	4.0	0.1	2,722
Kwamutonga/Kithumula	1.7	0.3	49.8	43.4	0.4	0.9	3.3	0.2	2,026
Kitui Rural Constituency	1.6	0.8	48.4	42.6	0.8	2.6	2.8	0.5	11,693
Kisasi	1.4	1.0	53.0	40.9	0.6	0.2	2.6	0.3	2,823
Mbitini	2.5	0.5	44.3	46.0	0.8	2.4	2.4	1.1	2,632
Kwavonza/Yatta	2.1	0.9	45.2	42.1	1.1	4.6	3.7	0.3	3,738
Kanyangi	0.2	0.8	52.2	41.5	0.7	2.2	1.9	0.5	2,500
Kitui Central Constituency	16.9	0.6	49.7	28.4	0.5	0.9	2.9	0.2	16,430
Miambani	0.4	0.8	58.7	35.2	0.5	1.4	3.0	0.0	2,207
Township	48.0	0.6	32.0	17.6	0.2	0.5	0.7	0.4	4,654
Kyangwithya West	4.1	0.2	62.7	27.3	0.5	0.5	4.8	0.0	3,072
Mulango	4.1	0.4	59.2	30.8	0.5	1.0	3.9	0.1	3,464
Kyangwithya East	8.7	1.0	46.6	38.2	0.8	1.3	3.3	0.1	3,033
Kitui East Constituency	1.6	0.6	50.3	34.6	0.6	9.1	2.4	0.8	13,499
Zombe/Mwitika	0.2	0.9	47.1	39.1	0.7	8.9	2.8	0.3	2,740
Nzambani	8.3	0.5	55.3	31.7	0.5	0.2	3.2	0.1	2,385
Chuluni	0.1	0.9	48.2	46.7	0.6	1.1	1.7	0.7	2,460
Voo/Kyamatu	0.1	0.3	47.0	38.0	0.7	12.2	0.8	0.8	2,300
Endau/Malalani	0.1	0.4	35.1	22.3	0.7	37.0	1.0	3.4	1,514
Mutitu/Kaliku	0.2	0.4	65.9	22.9	0.4	5.0	4.5	0.7	2,100
Kitui South Constituency	0.5	0.5	50.5	40.5	0.6	5.1	1.8	0.5	17,173
Ikanga/Kyatune	0.1	0.2	54.6	40.6	0.4	2.1	1.9	0.1	3,711
Mutomo	0.5	1.6	51.6	40.2	0.5	1.4	2.8	1.4	2,562
Mutha	0.1	0.4	48.6	28.4	0.8	20.5	0.8	0.5	2,638
Ikutha	1.5	0.2	43.2	51.3	0.7	0.8	2.2	0.1	2,671
Kanziko	0.3	0.4	50.5	40.2	0.6	5.5	1.9	0.6	1,968
Athi	0.6	0.5	52.1	41.8	0.6	2.6	1.5	0.4	3,623

Table 18.14: 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
Kitui County	3.7	0.5	55.5	31.2	0.7	5.2	2.7	0.5	91,103
Mwingi North Constituency	1.0	0.6	58.2	21.6	0.8	14.5	1.8	1.4	12,059
Ngomeni	-	0.3	52.5	20.0	1.4	22.1	1.0	2.8	1,438
Kyuso	2.4	0.4	61.5	21.7	1.2	10.5	1.4	0.9	3,670
Mumoni	0.5	1.3	58.5	26.4	0.6	8.2	2.8	1.9	3,259
Tseikuru	0.7	0.3	59.4	12.4	0.6	23.8	1.6	1.0	2,815
Tharaka	0.3	0.3	48.3	35.1	0.1	12.8	1.8	1.1	877
Mwingi West Constituency	6.8	0.4	61.9	24.6	0.6	0.7	4.8	0.3	12,782
Kyome/Thaana	1.1	0.3	73.3	19.0	0.7	0.2	5.3	0.1	2,839
Nguutani	1.0	0.9	61.8	27.7	0.6	0.6	7.3	0.1	2,903
Migwani	3.2	0.1	61.6	27.8	0.6	0.3	6.2	0.3	2,666
Kiomo/Kyethani	0.8	0.2	67.1	26.6	0.6	1.7	2.7	0.3	2,333
Central	34.3	0.3	40.9	21.4	0.4	0.9	1.1	0.7	2,041
Mwingi Central Constituency	3.3	0.6	54.6	29.0	0.9	8.3	2.4	0.9	11,220
Kivou	15.4	0.2	54.8	24.5	0.3	1.9	2.3	0.6	2,278
Nguni	0.2	0.3	47.1	35.9	0.5	13.8	1.6	0.7	2,737
Nuu	0.1	0.1	55.5	25.2	0.5	15.8	2.2	0.7	2,307
Mui	0.1	0.3	54.9	34.8	0.9	4.8	3.8	0.5	1,903
Waita	0.8	2.2	63.2	23.8	2.4	2.7	2.6	2.4	1,995
Kitui West Constituency	3.9	0.4	58.6	31.9	0.6	0.3	4.3	0.0	10,517
Mutonguni	2.4	0.7	63.6	27.2	0.4	0.2	5.4	-	3,617
Kauwi	7.9	0.3	53.8	32.1	0.4	0.2	5.4	-	2,568
Matinyani	4.5	0.2	59.9	31.9	1.0	0.1	2.5	-	2,398
Kwamutonga/Kithumula	0.9	0.3	54.0	40.3	0.8	0.7	2.9	0.1	1,934
Kitui Rural Constituency	1.0	0.8	50.1	42.1	0.9	2.6	2.0	0.6	9,439
Kisasi	0.5	1.0	51.5	43.7	0.7	0.7	1.8	0.2	2,614



Mbitini	2.1	0.7	44.9	45.5	0.7	2.9	1.5	1.7	2,303
Kwavonza/Yatta	1.1	0.8	50.6	38.5	1.2	4.4	3.1	0.2	2,726
Kanyangi	0.3	0.6	54.0	40.6	0.8	2.1	1.4	0.2	1,796
Kitui Central Constituency	11.1	0.5	53.4	30.7	0.6	0.7	3.0	0.1	11,985
Miambani	0.2	0.8	62.0	32.5	0.4	0.9	3.1	0.1	2,229
Township	47.3	0.6	34.6	15.9	0.0	0.2	1.0	0.2	2,221
Kyangwithya West	2.3	0.4	66.6	25.6	0.8	0.1	4.3	-	2,539
Mulango	3.3	0.3	55.9	36.2	0.6	1.1	2.6	0.1	2,633
Kyangwithya East	5.4	0.8	45.9	42.1	0.9	1.2	3.7	0.0	2,363
Kitui East Constituency	1.0	0.5	52.2	33.0	0.8	10.0	1.9	0.6	10,052
Zombe/Mwitika	0.0	0.7	48.1	40.0	0.7	8.6	1.7	0.1	2,136
Nzambani	6.3	0.3	56.4	33.2	0.4	0.2	3.0	0.2	1,521
Chuluni	-	0.5	54.6	42.0	0.3	0.8	1.4	0.4	1,835
Voo/Kyamatu	-	0.3	47.3	35.8	1.3	13.9	0.6	0.8	1,644
Endau/Malalani	0.1	0.4	36.0	19.5	1.0	39.5	1.1	2.4	1,250
Mutitu/Kaliku	0.4	0.4	67.8	21.4	1.0	4.7	3.7	0.6	1,666
Kitui South Constituency	0.3	0.5	53.6	39.0	0.5	4.4	1.3	0.3	13,049
Ikanga/Kyatune	0.1	0.3	57.0	38.5	0.4	2.4	1.3	0.1	3,314
Mutomo	0.3	1.6	53.4	40.5	0.2	1.5	1.4	1.0	2,038
Mutha	0.1	0.7	54.4	25.2	0.9	17.5	0.9	0.3	1,745
Ikutha	1.0	0.1	45.3	49.8	0.7	1.3	1.7	0.1	1,816
Kanziko	0.2	0.5	51.2	39.4	1.0	6.0	1.6	0.2	1,282
Athi	0.4	0.2	55.7	39.6	0.4	2.2	1.1	0.4	2,854

Table 18.15: 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
Kitui County	32.4	0.6	0.3	66.5	0.2	201,692
Mwingi North Constituency	17.7	0.3	0.6	81.2	0.2	25,778
Ngomeni	11.2	0.2	0.8	87.5	0.3	3,297
Kyuso	23.0	0.5	0.3	76.0	0.2	7,602
Mumoni	20.7	0.4	0.8	77.9	0.2	6,586

Tseikuru	13.7	0.2	0.6	85.4	0.1	6,034
Tharaka	10.8	0.2	1.0	88.0	-	2,259
Mwingi West Constituency	48.4	0.8	0.2	50.5	0.1	26,387
Kyome/Thaana	45.9	0.9	0.2	52.9	0.1	5,473
Nguutani	41.8	0.9	0.1	57.0	0.2	5,466
Migwani	47.7	0.9	0.1	51.2	0.1	5,354
Kiomo/Kyethani	27.4	0.5	0.4	71.5	0.1	4,911
Central	78.5	0.8	0.2	20.4	0.1	5,183
Mwingi Central Constituency	26.4	0.4	0.4	72.5	0.2	24,228
Kivou	48.6	0.7	0.3	50.1	0.2	5,517
Nguni	16.0	0.2	0.4	83.2	0.2	5,479
Nuu	17.0	0.3	0.5	81.7	0.5	5,045
Mui	22.8	0.4	0.4	76.3	0.0	4,018
Waita	25.5	0.3	0.5	73.4	0.2	4,169
Kitui West Constituency	48.6	1.0	0.2	50.1	0.1	21,979
Mutonguni	48.3	0.8	0.1	50.7	0.1	7,391
Kauwi	58.0	1.4	0.3	40.2	0.1	5,508
Matinyani	45.6	1.1	0.1	53.0	0.2	5,120
Kwamutonga/Kithumula	39.6	0.7	0.2	59.3	0.1	3,960
Kitui Rural Constituency	26.5	0.5	0.2	72.7	0.1	21,132
Kisasi	26.8	0.5	0.2	72.4	0.1	5,437
Mbitini	34.0	0.7	0.1	65.1	0.1	4,935
Kwavonza/Yatta	25.3	0.4	0.1	74.1	0.1	6,464
Kanyangi	19.4	0.2	0.2	80.0	0.2	4,296
Kitui Central Constituency	52.6	0.9	0.3	46.0	0.2	28,415
Miambani	28.1	0.5	0.5	70.8	0.1	4,436
Township	90.4	1.1	0.1	8.2	0.1	6,875
Kyangwithya West	45.1	0.6	0.1	54.1	0.1	5,611
Mulango	42.3	1.1	0.2	56.2	0.2	6,097
Kyangwithya East	44.0	1.1	0.5	54.2	0.2	5,396
Kitui East Constituency	21.7	0.3	0.4	77.3	0.2	23,551
Zombe/Mwitika	14.8	0.2	0.2	84.6	0.1	4,876
Nzambani	50.0	0.9	0.8	48.1	0.2	3,906
Chuluni	25.0	0.4	0.2	74.4	0.1	4,295
Voo/Kyamatu	8.2	0.1	0.5	90.7	0.5	3,944
Endau/Malalani	8.9	-	0.8	89.9	0.5	2,764
Mutitu/Kaliku	21.1	0.2	0.3	78.4	0.1	3,766
Kitui South Constituency	17.4	0.4	0.3	81.8	0.2	30,222
Ikanga/Kyatune	18.8	0.3	0.2	80.5	0.2	7,025
Mutomo	28.9	0.9	0.4	69.5	0.3	4,600
Mutha	8.6	0.1	0.4	90.6	0.3	4,383
Ikutha	20.4	0.3	0.1	78.9	0.2	4,487
Kanziko	11.5	0.3	0.3	87.6	0.3	3,250
Athi	14.4	0.3	0.2	84.9	0.2	6,477
Kitutu Chache South Constituency	40.1	0.8	0.2	58.4	0.4	29,130
Bogusero	18.5	0.3	0.3	80.7	0.2	5,202
Bogeka	14.5	0.3	0.3	84.6	0.3	2,771
Nyakoe	17.3	0.4	0.3	81.8	0.2	4,823

Kitutu Central	75.1	1.4	0.2	22.5	0.7	12,028
Nyatieko	10.5	0.3	0.1	88.9	0.1	4,306

Table 18.16: Main Material of the Floor in Male and Female Headed Households by County, Constituency and Ward

County/Constituency/ wards	Cement	Tiles	Wood	Earth	Other	House- holds	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
Kitui County	33.4	0.6	0.3	65.5	0.2	110,589	31.2	0.5	0.3	67.9	0.2	91,103
Mwingi North Constituency	18.5	0.3	0.6	80.4	0.2	13,719	16.7	0.3	0.6	82.1	0.2	12,059
Ngomeni	11.2	0.2	0.9	87.3	0.4	1,859	11.1	0.3	0.6	87.9	0.2	1,438
Kyuso	25.6	0.5	0.3	73.5	0.2	3,932	20.3	0.5	0.3	78.6	0.3	3,670
Mumoni	21.6	0.4	1.0	76.8	0.2	3,327	19.8	0.4	0.6	79.0	0.2	3,259
Tseikuru	14.1	0.2	0.4	85.2	0.2	3,219	13.2	0.2	0.9	85.6	0.1	2,815
Tharaka	10.9	0.3	0.9	87.8	-	1,382	10.7	-	1.1	88.1	-	877
Mwingi West Constituency	50.1	0.8	0.2	48.8	0.1	13,605	46.5	0.8	0.2	52.4	0.1	12,782
Kyome/Thaana	45.8	0.8	0.2	53.0	0.1	2,634	46.0	0.9	0.1	52.8	0.1	2,839
Nguutani	43.1	1.0	0.1	55.7	0.2	2,563	40.6	0.8	0.1	58.3	0.2	2,903
Migwani	47.9	0.8	0.1	51.1	0.1	2,688	47.5	0.9	0.1	51.4	0.2	2,666
Kiomo/Kyethani	27.0	0.5	0.5	72.0	0.0	2,578	28.0	0.5	0.4	71.0	0.1	2,333
Central	80.4	0.8	0.3	18.4	0.1	3,142	75.6	0.8	0.0	23.4	0.1	2,041
Mwingi Central Constituency	28.4	0.4	0.4	70.5	0.3	13,008	24.2	0.3	0.4	74.9	0.2	11,220
Kivou	51.8	0.9	0.2	46.9	0.2	3,239	44.2	0.5	0.4	54.7	0.3	2,278
Nguni	16.2	0.2	0.4	82.9	0.3	2,742	15.9	0.1	0.4	83.4	0.1	2,737
Nuu	17.9	0.3	0.5	80.8	0.5	2,738	16.0	0.3	0.4	82.9	0.4	2,307
Mui	23.1	0.5	0.4	75.9	0.1	2,115	22.5	0.3	0.4	76.7	-	1,903
Waita	27.0	0.2	0.7	71.8	0.3	2,174	23.9	0.4	0.3	75.2	0.2	1,995
Kitui West Constituency	48.7	1.1	0.2	49.9	0.1	11,462	48.4	0.9	0.2	50.4	0.1	10,517
Mutonguni	49.1	0.8	0.1	49.9	0.1	3,774	47.5	0.8	0.2	51.5	-	3,617
Kauwi	57.8	1.5	0.4	40.2	0.1	2,940	58.3	1.4	0.1	40.1	0.1	2,568
Matinyani	46.5	1.3	0.1	51.9	0.2	2,722	44.6	0.8	0.1	54.2	0.3	2,398

Kwamutonga/Kithumula	37.8	0.8	0.2	61.0	0.1	2,026	41.5	0.6	0.2	57.5	0.2	1,934
Kitui Rural Constituency	27.0	0.5	0.2	72.2	0.2	11,693	26.0	0.3	0.2	73.5	0.1	9,439
Kisasi	29.2	0.5	0.4	69.8	0.2	2,823	24.2	0.4	0.1	75.2	0.1	2,614
Mbitini	33.7	0.8	0.1	65.2	0.2	2,632	34.2	0.6	0.2	65.0	0.1	2,303
Kwavonza/Yatta	25.5	0.5	0.1	73.7	0.1	3,738	25.1	0.3	0.1	74.5	0.0	2,726
Kyangi	19.5	0.3	0.2	79.8	0.2	2,500	19.3	0.1	0.3	80.2	0.1	1,796
Kitui Central Constituency	55.6	1.0	0.3	42.9	0.2	16,430	48.4	0.8	0.3	50.3	0.1	11,985
Miambani	27.9	0.6	0.6	70.9	0.1	2,207	28.4	0.4	0.4	70.7	0.1	2,229
Township	90.6	1.1	0.1	8.0	0.2	4,654	90.0	1.2	0.2	8.6	0.1	2,221
Kyangwithya West	46.7	0.7	0.1	52.4	0.2	3,072	43.1	0.5	0.2	56.1	0.1	2,539
Mulango	43.8	1.3	0.2	54.5	0.2	3,464	40.4	0.9	0.2	58.4	0.1	2,633
Kyangwithya East	44.8	1.1	0.5	53.4	0.2	3,033	42.9	1.1	0.5	55.2	0.3	2,363
Kitui East Constituency	22.3	0.3	0.5	76.7	0.3	13,499	20.9	0.3	0.3	78.2	0.2	10,052
Zombe/Mwitika	15.3	0.1	0.3	84.1	0.2	2,740	14.2	0.3	0.1	85.3	0.1	2,136
Nzambani	50.7	1.0	0.8	47.2	0.3	2,385	48.9	0.8	0.7	49.5	0.1	1,521
Chuluni	24.4	0.3	0.3	74.9	0.1	2,460	25.7	0.5	0.1	73.7	0.1	1,835
Voo/Kyamatu	8.0	0.0	0.6	91.0	0.4	2,300	8.6	0.2	0.2	90.5	0.5	1,644
Endau/Malalani	9.4	-	0.9	89.0	0.8	1,514	8.2	-	0.7	91.0	0.1	1,250
Mutitu/Kaliku	21.5	0.2	0.2	78.0	0.0	2,100	20.5	0.2	0.4	78.9	0.1	1,666
Kitui South Constituency	17.3	0.4	0.3	81.6	0.3	17,173	17.4	0.3	0.2	81.9	0.2	13,049
Ikanga/Kyatune	19.2	0.4	0.2	80.1	0.2	3,711	18.3	0.3	0.2	81.1	0.2	3,314
Mutomo	28.8	1.2	0.5	69.1	0.4	2,562	28.9	0.6	0.3	69.9	0.2	2,038
Mutha	8.6	0.1	0.5	90.4	0.3	2,638	8.7	0.1	0.2	90.7	0.3	1,745
Ikutha	20.5	0.3	0.2	78.7	0.3	2,671	20.3	0.2	0.1	79.2	0.2	1,816
Kanziko	11.5	0.3	0.3	87.4	0.5	1,968	11.6	0.2	0.3	87.8	0.1	1,282
Athi	14.5	0.3	0.2	84.6	0.3	3,623	14.2	0.3	0.2	85.2	0.1	2,854

Table 18.17: Main Roofing Material by County, Constituency and Wards

County/Constituency/Wards	Corrugated Iron Sheets	Tiles	Concrete	Asbestos sheets	Grass	Makuti	Tin	Mud/ 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

Kitui County	76.3	1.1	0.1	1.6	20.1	0.4	0.1	0.1	0.2	201,692
Mwingi North Constituency	55.7	0.8	0.1	1.7	41.2	0.2	0.1	0.1	0.2	25,778
Ngomeni	52.9	0.8	0.1	1.2	44.5	0.2	0.0	0.0	0.4	3,297
Kyuso	67.7	0.8	0.0	2.6	28.5	0.1	0.1	0.1	0.1	7,602
Mumoni	69.2	0.9	0.1	1.0	28.2	0.4	0.1	0.0	0.1	6,586
Tseikuru	35.2	0.8	0.1	1.5	61.6	0.2	0.1	0.2	0.3	6,034
Tharaka	35.1	0.4	0.1	1.3	62.9	0.0	0.0	0.0	0.0	2,259
Mwingi West Constituency	94.2	0.9	0.3	0.8	3.6	0.0	0.1	0.0	0.1	26,387
Kyome/Thaana	95.4	0.9	0.1	0.3	3.0	0.0	0.3	0.0	0.1	5,473
Nguutani	91.9	0.8	0.1	1.3	5.6	0.0	0.1	0.0	0.2	5,466
Migwani	95.6	0.9	0.1	1.0	2.1	0.0	0.1	0.0	0.2	5,354
Kiomo/Kyethani	90.9	1.1	0.0	1.3	6.3	0.1	0.2	0.1	0.0	4,911
Central	97.0	0.8	1.1	0.0	0.9	0.0	0.1	0.0	0.1	5,183
Mwingi Central Constituency	73.5	1.1	0.2	1.9	22.7	0.1	0.1	0.0	0.4	24,228
Kivou	91.5	1.6	0.7	1.4	4.2	0.0	0.1	0.0	0.4	5,517
Nguni	65.4	0.9	0.1	2.7	30.0	0.2	0.1	0.0	0.7	5,479
Nuu	51.2	0.8	0.0	1.3	46.1	0.2	0.0	0.0	0.4	5,045
Mui	75.3	1.2	0.1	2.2	20.9	0.0	0.0	0.1	0.1	4,018
Waita	85.6	1.0	0.0	1.9	10.9	0.2	0.1	0.1	0.1	4,169
Kitui West Constituency	87.8	1.9	0.1	1.5	8.4	0.1	0.2	0.0	0.0	21,979
Mutonguni	91.6	1.0	0.1	1.5	5.5	0.2	0.1	0.0	0.0	7,391
Kauwi	89.1	3.0	0.2	1.1	6.3	0.1	0.2	0.0	0.1	5,508
Matinyani	84.2	1.7	0.1	2.0	11.6	0.1	0.2	0.1	0.0	5,120
Kwamutonga/Kithumula	83.4	2.3	0.1	1.5	12.5	0.0	0.2	0.1	0.0	3,960
Kitui Rural Constituency	79.9	1.2	0.1	3.2	15.1	0.2	0.2	0.1	0.1	21,132
Kisasi	82.0	1.0	0.1	1.4	15.1	0.1	0.3	0.0	0.0	5,437
Mbitini	87.4	1.8	0.1	3.6	6.7	0.1	0.2	0.1	0.1	4,935
Kwavonza/Yatta	81.2	1.3	0.1	1.6	15.1	0.3	0.1	0.2	0.1	6,464
Kyangi	66.6	0.6	0.1	7.4	25.0	0.1	0.0	0.0	0.1	4,296
Kitui Central Constituency	87.6	1.4	0.2	1.7	8.6	0.1	0.2	0.1	0.0	28,415
Miambani	71.1	0.9	0.1	1.1	26.6	0.0	0.1	0.1	0.0	4,436
Township	94.7	1.7	0.5	2.0	0.6	0.0	0.4	0.0	0.0	6,875
Kyangwithya West	96.4	1.0	0.0	0.1	2.2	0.0	0.1	0.1	0.1	5,611
Mulango	87.8	1.5	0.1	2.7	7.6	0.0	0.0	0.2	0.0	6,097
Kyangwithya East	82.8	1.6	0.3	2.6	11.9	0.6	0.1	0.0	0.0	5,396
Kitui East Constituency	67.0	0.8	0.1	1.5	29.4	0.8	0.3	0.0	0.2	23,551
Zombe/Mwitika	67.3	0.6	0.0	2.6	28.0	0.2	1.1	0.1	0.0	4,876
Nzambani	88.1	1.4	0.0	1.8	8.5	0.1	0.1	0.1	0.1	3,906
Chuluni	79.3	1.0	0.1	0.1	19.2	0.1	0.1	0.0	0.1	4,295
Voo/Kyamatu	41.4	0.4	0.1	0.5	53.3	3.9	0.0	0.0	0.3	3,944
Endau/Malalani	46.3	0.8	0.0	2.1	49.7	0.5	0.1	0.0	0.5	2,764
Mutitu/Kaliku	72.5	0.6	0.1	1.8	24.4	0.5	0.1	0.0	0.1	3,766
Kitui South Constituency	66.1	0.9	0.1	1.3	30.0	1.2	0.1	0.1	0.4	30,222
Ikanga/Kyatune	64.1	0.9	0.0	1.1	33.4	0.4	0.0	0.1	0.0	7,025
Mutomo	80.6	1.3	0.1	1.4	16.1	0.1	0.1	0.0	0.3	4,600
Mutha	47.0	0.8	0.3	0.8	42.3	7.0	0.0	0.1	1.8	4,383
Ikutha	76.0	0.9	0.1	0.5	22.4	0.0	0.1	0.1	0.0	4,487
Kanziko	54.2	0.9	0.1	0.3	43.8	0.2	0.0	0.2	0.3	3,250
Athi	70.1	0.8	0.1	2.6	26.0	0.1	0.1	0.1	0.1	6,477

Table 18.18: Main Roofing Material in Male Headed Households by County, Constituency and Wards

County/Constituency/Wards	Corrugated Iron Sheets	Tiles	Concrete	Asbestos sheets	Grass	Makuti	Tin	Mud/ 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
Kitui County	75.8	1.2	0.2	1.6	20.4	0.4	0.1	0.1	0.2	110,589
Mwingi North Constituency	54.9	0.8	0.1	1.7	42.0	0.2	0.1	0.0	0.2	13,719
Ngomeni	52.0	1.1	0.1	1.3	44.7	0.3	0.1	-	0.5	1,859
Kyuso	68.2	0.9	0.1	2.7	27.8	0.1	0.1	0.0	-	3,932
Mumoni	68.1	0.8	0.1	1.1	29.4	0.4	0.1	-	0.1	3,327
Tseikuru	34.9	0.6	0.1	1.6	61.8	0.3	0.1	0.1	0.5	3,219
Tharaka	36.0	0.4	0.2	0.9	62.3	0.1	-	0.1	-	1,382
Mwingi West Constituency	93.7	0.9	0.4	0.7	4.0	0.0	0.1	0.0	0.1	13,605
Kyome/Thaana	94.5	1.1	0.1	0.3	3.7	0.0	0.3	0.0	0.0	2,634
Nguutani	91.3	0.7	0.2	1.2	6.3	-	0.1	-	0.2	2,563
Migwani	94.5	1.0	0.0	1.2	2.9	0.0	0.1	-	0.3	2,688
Kiomo/Kyethani	90.7	0.9	0.1	1.0	6.9	0.1	0.2	0.1	0.1	2,578
Central	96.6	0.7	1.4	0.0	1.0	0.0	0.0	-	0.1	3,142
Mwingi Central Constituency	73.9	1.2	0.2	1.8	22.2	0.1	0.1	0.0	0.5	13,008
Kivou	92.1	1.5	0.8	1.3	3.8	0.1	0.0	0.0	0.4	3,239
Nguni	64.2	1.0	0.1	2.4	30.8	0.2	0.1	-	1.2	2,742
Nuu	52.7	0.7	-	1.2	44.8	0.2	-	-	0.5	2,738
Mui	74.1	1.4	0.2	2.2	21.6	0.1	0.1	0.2	0.1	2,115
Waita	85.5	1.3	-	2.1	10.7	0.1	0.1	0.0	0.1	2,174
Kitui West Constituency	87.2	2.0	0.1	1.5	8.8	0.1	0.2	0.1	0.0	11,462
Mutonguni	90.7	1.2	0.1	1.7	5.9	0.3	0.1	0.0	-	3,774
Kauwi	88.3	3.0	0.2	1.1	7.0	0.1	0.2	-	0.1	2,940
Matinyani	84.8	1.9	0.2	1.8	10.8	0.1	0.3	0.1	-	2,722
Kwamutonga/Kithumula	82.1	2.3	0.0	1.3	14.1	-	-	0.1	-	2,026
Kitui Rural Constituency	78.9	1.2	0.1	3.3	15.9	0.2	0.1	0.1	0.1	11,693
Kisasi	82.3	0.9	0.1	1.4	14.9	0.1	0.2	0.0	0.0	2,823

Mbitini	87.0	1.8	0.2	3.8	6.8	0.2	0.1	0.2	0.1	2,632
Kwavonza/Yatta	79.8	1.5	0.0	1.7	16.1	0.3	0.2	0.2	0.1	3,738
Kanyangi	65.3	0.6	0.2	7.4	26.2	0.1	-	-	0.2	2,500
Kitui Central Constituency	88.3	1.6	0.2	1.7	7.7	0.2	0.2	0.1	0.0	16,430
Miambani	69.9	1.0	0.1	1.4	27.4	-	0.1	0.1	-	2,207
Township	94.5	2.0	0.5	1.9	0.5	0.1	0.5	-	0.0	4,654
Kyangwithya West	96.3	1.1	0.0	0.0	2.1	0.1	0.1	0.1	0.1	3,072
Mulango	89.0	1.7	0.1	2.2	6.8	0.1	0.0	0.2	-	3,464
Kyangwithya East	83.5	1.6	0.3	2.7	11.1	0.6	0.2	-	0.0	3,033
Kitui East Constituency	67.0	0.8	0.1	1.3	29.3	0.9	0.3	0.0	0.2	13,499
Zombe/Mwitika	66.6	0.5	0.1	2.4	28.9	0.2	1.2	0.1	-	2,740
Nzambani	89.6	1.4	0.0	1.5	7.2	0.1	0.1	0.1	0.0	2,385
Chuluni	77.8	1.0	0.1	0.2	20.6	0.1	0.2	-	0.0	2,460
Voo/Kyamatu	40.3	0.4	0.1	0.5	54.2	4.0	-	-	0.4	2,300
Endau/Malalani	48.4	0.5	-	1.6	47.8	0.6	0.1	0.1	0.9	1,514
Mutitu/Kaliku	72.0	0.7	0.1	1.8	24.9	0.5	0.0	-	-	2,100
Kitui South Constituency	64.7	1.0	0.1	1.3	30.8	1.4	0.1	0.1	0.5	17,173
Ikanga/Kyatune	62.9	0.8	0.1	1.3	34.4	0.4	0.1	0.1	-	3,711
Mutomo	79.6	1.5	0.1	1.4	16.7	0.2	0.2	-	0.4	2,562
Mutha	45.5	0.8	0.3	1.0	41.8	8.2	0.0	0.1	2.2	2,638
Ikutha	73.9	1.0	0.1	0.6	24.1	-	0.1	0.1	0.0	2,671
Kanziko	53.8	1.0	0.2	0.5	43.6	0.2	0.1	0.3	0.5	1,968
Athi	69.1	0.9	0.1	2.3	27.2	0.1	0.1	0.1	0.2	3,623
Kitutu Chache South Constituency	88.3	0.9	3.4	1.8	4.6	0.1	0.7	0.0	0.3	19,763

Table 18.19: Main Roofing Material in Female Headed Households by County, Constituency and Wards

County/Constituency/Wards	Corrugated Iron Sheets	Tiles	Concrete	Asbestos sheets	Grass	Makuti	Tin	Mud/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

Kitui County	76.9	1.0	0.1	1.7	19.7	0.3	0.1	0.1	0.1	91,103
Mwingi North Constituency	56.6	0.8	0.0	1.6	40.4	0.2	0.1	0.1	0.1	12,059
Ngomeni	54.1	0.4	0.1	1.0	44.2	-	-	-	0.3	1,438
Kyuso	67.1	0.7	-	2.5	29.3	0.1	0.1	0.1	0.1	3,670
Mumoni	70.3	1.0	0.1	0.9	27.0	0.5	0.1	0.1	0.2	3,259
Tseikuru	35.5	1.0	0.1	1.5	61.3	0.1	0.1	0.4	0.0	2,815
Tharaka	33.9	0.2	-	1.9	64.0	-	-	-	-	877
Mwingi West Constituency	94.8	0.9	0.1	0.8	3.1	0.0	0.1	0.0	0.1	12,782
Kyome/Thaana	96.2	0.7	0.0	0.3	2.4	0.0	0.2	0.0	0.1	2,839
Nguutani	92.5	0.8	0.1	1.3	5.0	-	0.1	-	0.3	2,903
Migwani	96.8	0.8	0.1	0.8	1.4	-	0.1	0.0	0.1	2,666
Kiomo/Kyethani	91.1	1.3	-	1.6	5.7	0.0	0.2	0.0	-	2,333
Central	97.6	0.8	0.6	0.0	0.8	-	0.1	-	0.0	2,041
Mwingi Central Constituency	73.1	1.0	0.2	2.0	23.3	0.1	0.1	0.0	0.2	11,220
Kivou	90.8	1.8	0.5	1.5	4.8	-	0.2	0.0	0.4	2,278
Nguni	66.6	0.8	0.1	2.9	29.2	0.1	0.1	-	0.1	2,737
Nuu	49.5	0.9	0.0	1.4	47.6	0.3	-	-	0.3	2,307
Mui	76.6	0.9	0.1	2.2	20.1	-	-	0.1	-	1,903
Waita	85.8	0.7	0.1	1.8	11.1	0.3	0.1	0.1	0.2	1,995
Kitui West Constituency	88.4	1.8	0.0	1.5	7.9	0.1	0.1	0.0	0.0	10,517
Mutonguni	92.6	0.8	0.1	1.2	5.1	0.1	0.1	0.0	-	3,617
Kauwi	90.0	3.1	0.1	1.1	5.5	0.1	0.1	0.0	0.0	2,568
Matinyani	83.5	1.5	-	2.3	12.6	0.1	0.0	-	-	2,398
Kwamutonga/Kithumula	84.8	2.4	0.1	1.6	10.8	-	0.3	0.1	-	1,934
Kitui Rural Constituency	81.1	1.2	0.1	3.1	14.2	0.1	0.2	0.1	0.0	9,439
Kisasi	81.7	1.1	0.1	1.4	15.3	0.0	0.3	-	0.0	2,614
Mbitini	87.8	1.7	0.1	3.5	6.5	0.0	0.3	-	0.0	2,303
Kwavonza/Yatta	83.1	1.1	0.2	1.4	13.7	0.1	0.1	0.2	0.1	2,726
Kyangi	68.4	0.5	0.1	7.5	23.4	0.2	-	-	-	1,796
Kitui Central Constituency	86.6	1.1	0.2	1.8	9.9	0.1	0.1	0.1	0.0	11,985
Miambani	72.2	0.7	0.1	0.9	25.8	0.0	0.1	0.1	-	2,229

Township	95.2	1.0	0.6	2.3	0.7	-	0.2	-	-	2,221
Kyangwithya West	96.5	0.8	0.0	0.1	2.3	-	0.1	0.1	0.0	2,539
Mulango	86.3	1.4	0.0	3.5	8.5	0.0	0.0	0.2	0.1	2,633
Kyangwithya East	81.9	1.5	0.3	2.5	13.0	0.6	0.1	0.0	0.0	2,363
Kitui East Constituency	66.9	0.8	0.1	1.7	29.4	0.8	0.2	0.0	0.1	10,052
Zombe/Mwitika	68.3	0.7	-	2.9	26.9	0.2	0.8	0.1	0.0	2,136
Nzambani	85.7	1.4	-	2.2	10.7	-	-	-	0.1	1,521
Chuluni	81.5	0.9	0.1	0.1	17.3	0.1	-	-	0.2	1,835
Voo/Kyamatu	42.9	0.4	0.1	0.5	52.1	3.6	-	0.1	0.2	1,644
Endau/Malalani	43.8	1.1	0.1	2.6	52.1	0.3	-	-	-	1,250
Mutitu/Kaliku	73.1	0.5	0.1	1.9	23.8	0.4	0.1	-	0.1	1,666
Kitui South Constituency	68.0	0.8	0.1	1.2	28.8	0.8	0.0	0.0	0.2	13,049
Ikanga/Kyatune	65.4	1.0	-	1.0	32.3	0.3	-	0.1	0.1	3,314
Mutomo	81.7	1.0	0.1	1.4	15.4	0.0	0.0	-	0.2	2,038
Mutha	49.3	0.7	0.1	0.5	43.0	5.3	-	-	1.0	1,745
Ikutha	78.9	0.8	0.1	0.4	19.8	-	-	-	0.1	1,816
Kanziko	55.0	0.7	-	0.2	43.9	0.2	-	0.1	-	1,282
Athi	71.5	0.7	0.1	2.9	24.5	0.1	0.1	0.1	0.1	2,854
Kitutu Chache South Constituency	89.1	0.8	2.7	1.8	4.8	0.0	0.6	0.0	0.2	9,367

Table 18.20: Main material of the wall by County, Constituency and Wards

County/Constituency/Wards	Stone	Brick/Block	Mud/ Wood	Mud/Ce-ment	Wood only	Corrugated Iron Sheets	Grass/ 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
Kitui County	2.4	63.9	25.6	6.3	1.0	0.2	0.4	0.0	0.2	201,692
Mwingi North Constituency	0.3	51.4	39.1	4.3	4.0	0.2	0.5	0.0	0.1	25,778
Ngomeni	0.3	20.1	68.8	2.0	7.6	0.2	0.6	0.0	0.2	3,297
Kyuso	0.4	63.2	29.0	5.9	0.9	0.2	0.2	0.1	0.1	7,602
Mumoni	0.4	64.6	28.5	4.5	1.3	0.1	0.4	0.0	0.1	6,586
Tseikuru	0.2	48.0	37.2	3.3	10.0	0.1	0.8	0.1	0.3	6,034

Tharaka	0.1	28.0	65.8	4.8	1.1	0.0	0.3	0.0	0.0	2,259
Mwingi West Constituency	6.0	85.1	3.9	4.4	0.3	0.1	0.2	0.0	0.1	26,387
Kyome/Thaana	1.7	86.4	4.8	6.6	0.1	0.1	0.1	0.0	0.1	5,473
Nguutani	3.2	91.5	1.4	3.3	0.1	0.1	0.1	0.0	0.2	5,466
Migwani	1.0	92.0	2.2	4.4	0.3	0.0	0.0	0.0	0.1	5,354
Kiomo/Kyethani	1.4	83.0	8.7	5.5	0.7	0.1	0.5	0.0	0.1	4,911
Central	23.0	71.8	2.6	2.1	0.1	0.2	0.1	0.0	0.1	5,183
Mwingi Central Constituency	4.5	41.2	47.4	5.0	0.9	0.3	0.3	0.0	0.3	24,228
Kivou	17.1	56.7	22.5	2.2	0.5	0.7	0.1	0.0	0.3	5,517
Nguni	1.0	29.9	61.5	4.8	1.6	0.2	0.4	0.1	0.5	5,479
Nuu	0.3	28.1	63.4	6.3	0.9	0.2	0.4	0.0	0.4	5,045
Mui	0.8	38.0	54.5	5.7	0.4	0.1	0.3	0.0	0.2	4,018
Waita	1.0	54.8	35.8	6.9	0.7	0.1	0.6	0.1	0.1	4,169
Kitui West Constituency	2.7	83.9	6.0	7.1	0.1	0.1	0.1	0.0	0.0	21,979
Mutonguni	1.2	83.6	5.5	9.5	0.1	0.0	0.1	0.0	0.0	7,391
Kauwi	6.4	83.0	5.6	4.5	0.1	0.2	0.1	0.1	0.0	5,508
Matinyani	1.9	83.6	6.9	7.2	0.2	0.1	0.1	0.1	0.0	5,120
Kwamutonga/Kithumula	1.3	86.0	6.1	6.2	0.1	0.1	0.1	0.0	0.0	3,960
Kitui Rural Constituency	2.1	67.6	19.0	10.3	0.3	0.2	0.3	0.0	0.1	21,132
Kisasi	0.6	78.8	10.2	10.1	0.1	0.0	0.2	0.0	0.0	5,437
Mbitini	1.1	78.5	7.7	12.2	0.1	0.0	0.1	0.0	0.3	4,935
Kwavonza/Yatta	3.7	55.5	27.4	11.3	0.9	0.7	0.4	0.1	0.0	6,464
Kyangi	2.8	58.9	30.7	7.0	0.2	0.1	0.3	0.0	0.1	4,296
Kitui Central Constituency	2.8	79.7	7.4	9.3	0.2	0.3	0.2	0.1	0.1	28,415
Miambani	0.3	80.0	10.1	8.4	0.7	0.0	0.5	0.0	0.0	4,436
Township	8.4	84.4	2.1	3.5	0.0	0.9	0.2	0.3	0.2	6,875
Kyangwithya West	2.2	66.3	14.0	17.0	0.0	0.3	0.1	0.0	0.1	5,611
Mulango	0.7	81.2	7.3	10.3	0.1	0.0	0.1	0.0	0.1	6,097
Kyangwithya East	0.8	85.5	5.1	8.1	0.3	0.1	0.1	0.0	0.0	5,396
Kitui East Constituency	0.3	48.6	44.2	4.8	1.0	0.1	0.7	0.0	0.3	23,551
Zombe/Mwitika	0.3	32.1	61.5	4.0	1.4	0.2	0.5	0.0	0.0	4,876

Nzambani	0.9	89.8	2.6	6.5	0.1	0.0	0.1	0.0	0.1	3,906
Chuluni	0.2	85.2	7.4	5.7	0.9	0.0	0.3	0.0	0.2	4,295
Voo/Kyamatu	0.2	31.5	61.5	3.8	0.7	0.1	1.6	0.0	0.7	3,944
Endau/Malalani	0.1	11.1	81.3	3.1	2.0	0.0	1.8	0.0	0.5	2,764
Mutitu/Kaliku	0.2	31.1	61.6	5.3	1.1	0.3	0.3	0.1	0.2	3,766
Kitui South Constituency	0.6	54.2	36.9	5.8	0.8	0.1	1.1	0.0	0.5	30,222
Ikanga/Kyatune	0.7	69.5	18.7	10.0	0.3	0.1	0.4	0.0	0.4	7,025
Mutomo	0.5	76.5	18.1	3.5	0.4	0.1	0.6	0.0	0.3	4,600
Mutha	0.2	25.8	61.4	3.4	3.0	0.2	4.2	0.0	1.7	4,383
Ikutha	0.7	56.6	36.5	5.2	0.5	0.2	0.3	0.0	0.1	4,487
Kanziko	0.2	41.1	50.7	5.9	0.8	0.1	0.8	0.0	0.4	3,250
Athi	0.9	46.0	46.8	4.8	0.4	0.1	0.8	0.0	0.1	6,477

Table 18.21: Main Material of the Wall in Male Headed Households by County, Constituency and Ward

County/ Constituency/ Wards	Stone	Brick/ Block	Mud/ Wood	Mud/ Cement	Wood only	Corrugated Iron Sheets	Grass/ 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
Kitui County	2.7	63.3	25.6	6.2	1.1	0.2	0.5	0.1	0.2	110,589
Mwingi North Constituency	0.4	50.3	39.2	4.5	4.7	0.2	0.5	0.1	0.2	13,719
Ngomeni	0.4	18.7	67.1	2.2	10.1	0.4	0.8	0.1	0.3	1,859
Kyuso	0.5	62.8	28.3	6.5	1.2	0.5	0.3	0.1	-	3,932
Mumoni	0.4	64.1	28.6	4.7	1.5	0.2	0.4	0.0	0.1	3,327
Tseikuru	0.3	47.6	36.7	3.3	10.5	0.1	0.7	0.1	0.6	3,219
Tharaka	0.1	30.0	64.5	4.0	1.2	-	0.3	-	-	1,382
Mwingi West Constituency	7.3	83.7	4.0	4.2	0.3	0.1	0.2	0.0	0.1	13,605
Kyome/Thaana	2.0	86.2	5.3	6.0	0.1	0.2	0.2	0.0	0.1	2,634
Nguutani	4.0	90.9	1.5	3.1	0.2	0.1	0.1	-	0.2	2,563
Migwani	1.2	90.7	2.7	4.7	0.3	0.1	0.1	-	0.2	2,688
Kiomo/Kyethani	1.5	82.9	8.3	5.6	1.0	0.1	0.5	0.1	0.1	2,578

Central	24.3	70.7	2.6	1.9	0.2	0.2	0.0	-	0.1	3,142
Mwingi Central Constituency	5.3	42.3	45.5	4.9	0.9	0.3	0.3	0.0	0.4	13,008
Kivou	18.8	58.1	19.4	2.1	0.5	0.9	0.0	-	0.3	3,239
Nguni	0.9	29.9	62.0	4.2	1.5	0.2	0.3	0.0	0.9	2,742
Nuu	0.3	29.2	62.2	6.4	1.0	0.1	0.4	-	0.4	2,738
Mui	0.9	38.1	53.4	6.2	0.7	0.1	0.4	0.0	0.2	2,115
Waita	1.0	55.2	35.1	6.8	1.1	0.1	0.6	0.1	-	2,174
Kitui West Constituency	2.9	84.2	5.8	6.6	0.1	0.1	0.1	0.1	0.0	11,462
Mutonguni	1.2	84.5	5.2	8.7	0.1	-	0.2	-	-	3,774
Kauwi	6.6	82.8	5.5	4.4	0.0	0.3	0.1	0.2	0.0	2,940
Matinyani	2.0	84.9	6.4	6.2	0.3	0.1	0.1	0.1	-	2,722
Kwamutonga/Kithumula	1.7	84.7	6.7	6.6	0.0	0.1	0.1	-	-	2,026
Kitui Rural Constituency	2.1	66.3	20.1	10.3	0.5	0.3	0.3	0.0	0.1	11,693
Kisasi	0.5	78.9	10.2	10.0	0.1	-	0.3	-	0.0	2,823
Mbitini	0.8	78.5	7.8	12.5	0.1	-	0.1	-	0.3	2,632
Kwavonza/Yatta	3.8	54.9	27.7	10.8	1.1	1.0	0.5	0.1	0.1	3,738
Kanyangi	2.7	56.5	32.6	7.4	0.2	0.1	0.2	-	0.2	2,500
Kitui Central Constituency	3.0	80.2	6.9	8.8	0.2	0.4	0.2	0.1	0.1	16,430
Miambani	0.3	77.3	11.3	9.6	1.0	0.1	0.4	-	-	2,207
Township	8.1	84.4	1.8	3.6	0.0	1.1	0.2	0.4	0.3	4,654
Kyangwithya West	2.1	67.8	12.4	17.0	0.0	0.5	0.1	0.0	0.1	3,072
Mulango	0.8	82.6	6.8	9.4	0.1	0.1	0.1	-	0.1	3,464
Kyangwithya East	0.7	85.6	5.7	7.3	0.4	0.1	0.1	-	0.0	3,033
Kitui East Constituency	0.4	48.9	43.4	5.0	1.1	0.1	0.7	0.0	0.3	13,499
Zombe/Mwitika	0.4	31.3	61.5	4.4	1.5	0.2	0.6	0.1	0.0	2,740
Nzambani	1.0	89.8	2.7	6.3	0.1	-	0.1	-	0.0	2,385
Chuluni	0.3	84.2	8.0	5.7	1.1	-	0.4	0.1	0.2	2,460
Voo/Kyamatu	0.1	29.9	62.6	4.3	0.8	0.1	1.5	-	0.7	2,300
Endau/Malalani	0.1	12.1	79.9	2.9	2.1	-	1.9	-	0.9	1,514
Mutitu/Kaliku	0.3	31.6	60.0	6.0	1.3	0.2	0.4	-	0.2	2,100
Kitui South Constituency	0.6	52.7	37.9	5.8	1.1	0.1	1.2	0.0	0.5	17,173

Ikanga/Kyatune	0.7	69.8	18.9	9.6	0.3	0.1	0.4	-	0.3	3,711
Mutomo	0.6	76.2	18.0	3.7	0.6	0.0	0.6	0.0	0.3	2,562
Mutha	0.2	25.6	59.9	3.5	3.7	0.3	4.7	0.1	2.1	2,638
Ikutha	0.7	54.3	38.2	5.7	0.5	0.2	0.3	-	0.1	2,671
Kanziko	0.2	39.4	51.5	6.5	1.1	0.2	0.6	0.1	0.5	1,968
Athi	1.0	44.2	47.8	5.1	0.7	0.1	0.9	0.0	0.2	3,623

Table 18.22: Main Material of the Wall in Female Headed Households by County, Constituency and Ward

County/ Constituency	Stone	Brick/ Block	Mud/ Wood	Mud/ Cement	Wood only	Coorugated Iron Sheets	Grass/ 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
Kitui County	2.1	64.6	25.5	6.4	0.8	0.1	0.4	0.0	0.1	91,103
Mwingi North Constituency	0.3	52.7	39.0	4.2	3.3	0.1	0.5	0.0	0.1	12,059
Ngomeni	0.2	22.0	71.0	1.7	4.4	0.1	0.4	-	0.2	1,438
Kyuso	0.3	63.6	29.8	5.3	0.6	-	0.2	0.0	0.1	3,670
Mumoni	0.4	65.1	28.4	4.3	1.1	0.1	0.5	0.0	0.1	3,259
Tseikuru	0.1	48.3	37.7	3.2	9.4	0.1	0.9	0.1	0.1	2,815
Tharaka	0.1	24.9	67.8	6.0	0.9	-	0.2	-	-	877
Mwingi West Constituency	4.6	86.6	3.7	4.6	0.2	0.0	0.2	0.0	0.1	12,782
Kyome/Thaana	1.5	86.7	4.4	7.2	0.2	-	0.1	0.0	0.1	2,839
Nguutani	2.5	92.1	1.3	3.5	0.1	0.0	0.1	-	0.2	2,903
Migwani	0.7	93.4	1.7	4.0	0.2	-	-	-	0.0	2,666
Kiomo/Kyethani	1.3	83.1	9.3	5.4	0.3	0.1	0.5	-	0.0	2,333
Central	21.0	73.5	2.6	2.4	0.1	0.1	0.1	0.1	0.0	2,041
Mwingi Central Constituency	3.6	40.0	49.6	5.2	0.8	0.2	0.4	0.0	0.2	11,220
Kivou	14.7	54.7	26.9	2.4	0.6	0.4	0.1	-	0.3	2,278
Nguni	1.1	29.8	61.1	5.5	1.6	0.2	0.4	0.1	0.1	2,737
Nuu	0.2	26.9	64.8	6.2	0.8	0.2	0.4	-	0.4	2,307
Mui	0.6	37.9	55.7	5.3	0.1	0.1	0.2	-	0.2	1,903

Waita	0.9	54.4	36.5	7.0	0.4	-	0.7	-	0.2	1,995
Kitui West Constituency	2.4	83.5	6.1	7.7	0.1	0.0	0.1	0.0	0.0	10,517
Mutonguni	1.1	82.6	5.8	10.4	-	-	0.0	-	0.0	3,617
Kauwi	6.1	83.3	5.8	4.6	0.1	-	0.1	0.1	-	2,568
Matinyani	1.7	82.0	7.5	8.4	0.1	0.0	0.1	-	-	2,398
Kwamutonga/Kithumula	0.9	87.4	5.4	5.8	0.2	0.1	0.2	-	0.1	1,934
Kitui Rural Constituency	2.1	69.1	17.8	10.4	0.2	0.1	0.2	-	0.1	9,439
Kisasi	0.7	78.8	10.2	10.3	0.0	0.0	0.0	-	-	2,614
Mbitini	1.4	78.6	7.6	11.9	0.1	-	0.1	-	0.3	2,303
Kwavonza/Yatta	3.6	56.2	26.9	11.9	0.5	0.4	0.4	-	0.0	2,726
Kyangi	3.0	62.2	27.9	6.5	0.1	-	0.3	-	-	1,796
Kitui Central Constituency	2.5	78.9	8.1	9.9	0.2	0.1	0.2	0.0	0.1	11,985
Miambani	0.3	82.5	8.8	7.3	0.5	-	0.5	-	-	2,229
Township	8.9	84.3	2.6	3.3	0.0	0.5	0.1	0.1	0.1	2,221
Kyangwithya West	2.3	64.4	15.8	17.1	0.0	0.1	0.2	-	0.0	2,539
Mulango	0.7	79.4	8.0	11.5	0.1	-	0.2	-	0.1	2,633
Kyangwithya East	1.0	85.4	4.3	9.0	0.1	-	0.1	-	0.0	2,363
Kitui East Constituency	0.3	48.2	45.3	4.5	0.8	0.1	0.6	0.0	0.1	10,052
Zombe/Mwitika	0.2	33.0	61.6	3.5	1.2	0.2	0.3	-	-	2,136
Nzambani	0.8	89.7	2.5	6.8	0.1	-	0.1	-	0.1	1,521
Chuluni	0.2	86.5	6.5	5.8	0.5	0.1	0.2	-	0.2	1,835
Voo/Kyamatu	0.4	33.7	60.0	3.1	0.6	-	1.7	-	0.5	1,644
Endau/Malalani	0.2	9.9	82.9	3.4	1.8	0.1	1.7	0.1	-	1,250
Mutitu/Kaliku	0.1	30.5	63.5	4.4	0.8	0.4	0.1	0.1	0.1	1,666
Kitui South Constituency	0.6	56.3	35.6	5.7	0.5	0.1	0.9	0.0	0.3	13,049
Ikanga/Kyatune	0.7	69.1	18.4	10.5	0.3	0.1	0.4	-	0.5	3,314
Mutomo	0.5	77.0	18.2	3.3	0.1	0.1	0.6	0.0	0.2	2,038
Mutha	0.2	26.2	63.8	3.3	1.9	0.1	3.4	-	1.0	1,745
Ikutha	0.7	59.9	34.0	4.5	0.5	0.1	0.2	0.1	0.1	1,816
Kanziko	0.3	43.7	49.4	5.0	0.5	-	1.0	-	0.2	1,282
Athi	0.8	48.3	45.5	4.6	0.1	0.0	0.7	-	0.0	2,854

Table 18.23: Source of Water by County, Constituency and Ward

County/Constituency/Wards	Pond	Dam	Lake	Stream/ River	Unprotect- ed Spring	Unpro- tected Well	Jabia	Water vendor	Other	Unim- proved Sources	Pro- tected Spring	Protect- ed Well	Bore- hole	Piped into Dwelling	Piped	Rain Water Collection	Improved Sources	Number of Individ- uals
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	56.0	9.2	8.1	12.0	1.8	12.1	0.8	44.0	26,075,195
Urban	0.9	0.7	0.5	9.2	1.9	2.9	0.2	11.8	0.1	28.3	4.0	6.8	10.7	14.7	34.9	0.5	71.7	11,844,452
Kitui County	0.4	4.4	0.2	41.3	1.6	23.0	0.5	2.2	0.0	73.7	0.7	7.8	10.8	0.8	6.1	0.2	26.3	995,267
Mwingi North Constituency	0.7	4.8	0.3	48.2	0.4	22.4	0.0	1.3	0.0	78.2	0.3	10.6	5.8	0.1	4.9	0.0	21.8	138,956
Ngomeni	0.3	16.7	0.2	10.3	0.5	32.4	0.0	0.1	0.0	60.5	0.4	32.0	7.0	0.0	0.0	0.0	39.5	18,272
Kyuso	0.1	0.3	0.0	42.4	0.3	32.9	0.0	3.3	0.1	79.4	0.3	12.1	4.4	0.1	3.7	0.0	20.6	40,167
Mumoni	2.5	9.1	1.3	58.8	0.1	10.6	0.0	0.8	0.0	83.3	0.2	1.1	0.6	0.3	14.5	0.0	16.7	33,915
Tseikuru	0.0	0.0	0.0	51.2	0.8	21.6	0.0	0.5	0.0	74.1	0.3	11.1	14.4	0.0	0.0	0.0	25.9	33,555
Tharaka	0.0	3.7	0.0	83.7	0.5	8.7	0.0	0.0	0.0	96.6	0.1	0.0	0.0	0.2	3.1	0.0	3.4	13,047
Mwingi West Constituency	0.2	8.8	0.1	40.5	1.3	13.9	0.7	6.9	0.0	72.3	0.3	8.7	11.9	1.4	5.1	0.3	27.7	120,017
Kyome/Thaana	0.6	11.1	0.0	58.4	0.1	4.8	2.7	0.7	0.0	78.5	0.2	8.6	11.8	0.1	0.3	0.4	21.5	26,044
Nguutani	0.0	0.5	0.0	4.2	1.5	39.2	0.1	12.9	0.0	58.4	0.1	22.4	18.7	0.0	0.1	0.3	41.6	27,181
Migwani	0.1	8.8	0.0	47.7	4.2	10.3	0.1	2.9	0.0	74.2	0.5	3.8	17.6	0.4	3.2	0.3	25.8	23,949
Kiomo/Kyethani	0.0	20.3	0.2	55.0	0.4	9.0	0.1	2.5	0.0	87.4	0.4	4.3	7.3	0.0	0.2	0.3	12.6	25,320
Central	0.1	1.4	0.5	39.1	0.0	0.1	0.1	18.7	0.0	60.1	0.4	0.5	0.3	9.0	29.6	0.0	39.9	17,523
Mwingi Central Constituency	0.1	1.3	0.0	35.3	1.2	20.2	0.1	3.0	0.0	61.3	0.6	6.1	11.0	1.8	19.1	0.0	38.7	120,704
Kivou	0.1	1.1	0.0	43.1	0.0	7.8	0.0	12.5	0.0	64.6	0.2	0.2	8.0	6.9	20.0	0.1	35.4	24,084
Nguni	0.1	3.2	0.1	28.4	0.3	40.6	0.0	1.0	0.0	73.7	0.1	4.1	22.0	0.0	0.0	0.1	26.3	28,866

Nuu	0.0	0.0	0.1	27.7	1.7	14.0	0.0	0.5	0.0	44.0	0.8	6.5	2.5	0.6	45.5	0.0	56.0	27,610
Mui	0.1	0.6	0.1	21.4	2.2	21.1	0.3	0.3	0.0	46.1	0.5	16.0	18.2	0.6	18.6	0.1	53.9	19,541
Waia	0.2	1.2	0.0	59.4	2.5	13.7	0.0	0.9	0.0	77.8	1.5	5.6	3.9	0.9	10.2	0.0	22.2	20,603
Kitui West Constituency	0.3	9.5	0.0	51.3	1.3	8.2	0.0	0.6	0.0	71.3	0.5	9.9	14.4	1.1	2.6	0.2	28.7	100,207
Mutonguni	0.9	14.9	0.1	32.4	2.5	14.7	0.0	0.2	0.0	65.7	0.9	14.3	18.4	0.2	0.1	0.4	34.3	33,347
Kauwi	0.1	12.4	0.0	35.4	0.1	3.2	0.1	1.7	0.0	53.0	0.2	15.5	27.6	0.3	3.4	0.1	47.0	24,840
Matinyani	0.0	0.1	0.0	73.4	0.2	7.2	0.0	0.5	0.0	81.4	0.4	4.3	2.4	3.9	7.3	0.1	18.6	23,554
Kwamutonga/Kithumula	0.1	8.0	0.0	78.4	2.0	4.3	0.0	0.1	0.0	92.9	0.4	1.5	4.9	0.2	0.1	0.0	7.1	18,466
Kitui Rural Constituency	0.9	1.7	0.6	50.8	1.0	25.6	0.0	1.7	0.0	82.2	0.9	6.7	9.8	0.1	0.3	0.1	17.8	103,183
Kisasi	2.9	2.2	0.1	58.2	0.2	27.8	0.0	0.4	0.0	91.7	0.3	5.4	1.7	0.2	0.7	0.0	8.3	26,242
Mbitini	0.1	0.8	2.2	30.5	0.2	40.7	0.0	2.8	0.0	77.3	0.2	12.4	9.8	0.1	0.1	0.1	22.7	24,397
Kwavonza/Yatta	0.1	0.9	0.0	48.3	2.2	27.5	0.0	3.3	0.0	82.2	1.0	4.5	12.0	0.1	0.1	0.1	17.8	30,487
Kanyangi	0.6	3.1	0.1	67.7	1.0	3.5	0.0	0.1	0.0	76.0	2.3	4.9	16.5	0.0	0.2	0.0	24.0	22,057
Kitui Central Constituency	0.3	0.8	0.0	62.5	4.0	8.3	0.1	2.5	0.0	78.4	1.1	7.2	6.6	1.5	4.9	0.3	21.6	125,420
Miambani	0.1	0.1	0.0	73.7	8.7	16.2	0.0	0.0	0.0	98.8	0.4	0.3	0.3	0.1	0.2	0.0	1.2	21,982
Township	0.4	0.2	0.0	14.7	1.3	6.0	0.1	11.5	0.1	34.4	0.3	19.1	20.1	6.5	19.5	0.2	65.6	23,893
Kyangwithya West	0.1	3.0	0.0	86.5	0.1	0.7	0.0	0.5	0.0	91.0	0.4	0.9	3.3	0.6	3.6	0.2	9.0	25,792
Mulango	0.3	0.1	0.0	86.5	0.0	1.1	0.1	0.6	0.0	88.8	0.5	7.9	1.8	0.3	0.6	0.1	11.2	28,295
Kyangwithya East	0.3	0.3	0.1	47.0	10.7	19.2	0.0	0.3	0.0	77.9	4.1	7.7	8.0	0.3	1.3	0.8	22.1	25,458
Kitui East Constituency	0.5	1.1	0.0	37.2	2.1	32.4	0.0	0.4	0.0	73.8	0.4	9.3	11.4	0.4	4.7	0.0	26.2	122,340
Zombe/Mwitika	0.3	1.2	0.1	35.2	0.3	20.3	0.0	0.9	0.0	58.4	0.2	11.4	24.6	0.6	4.9	0.0	41.6	24,897

Nzambani	0.2	1.9	0.0	46.8	0.5	15.5	0.0	0.6	0.0	65.4	0.3	22.5	10.3	0.4	0.9	0.2	34.6	18,121
Chuluni	2.1	1.7	0.0	44.4	4.5	28.6	0.0	0.1	0.0	81.4	0.5	8.5	9.6	0.0	0.0	0.0	18.6	22,039
Voo/Kyamatu	0.0	1.5	0.0	38.2	0.3	53.1	0.0	0.3	0.0	93.4	0.1	0.1	6.3	0.0	0.0	0.0	6.6	22,946
Endau/Malalani	0.1	0.0	0.0	2.0	2.3	70.9	0.0	0.0	0.0	75.3	0.1	5.8	5.2	0.6	12.9	0.1	24.7	15,390
Mutitu/Kaikuu	0.0	0.1	0.0	49.6	5.5	12.6	0.0	0.4	0.0	68.2	1.4	8.8	8.2	1.0	12.4	0.0	31.8	18,947
Kitui South Constituency	0.3	7.1	0.1	15.4	1.7	44.2	2.4	1.4	0.0	72.5	1.1	5.0	15.2	0.1	5.8	0.3	27.5	164,440
Ikangal/Kyatune	0.1	7.3	0.1	5.1	1.2	67.9	0.0	0.7	0.0	82.3	0.1	2.3	10.8	0.3	4.3	0.0	17.7	35,937
Mutomo	0.5	10.8	0.1	3.6	3.0	54.1	13.9	5.9	0.1	92.0	0.1	4.0	2.4	0.0	0.1	1.4	8.0	24,076
Mutha	0.0	3.1	0.0	14.6	2.1	17.3	0.8	0.2	0.0	38.1	4.1	1.5	25.3	0.1	30.8	0.2	61.9	24,987
Ikutha	0.1	13.8	0.1	10.4	1.3	39.8	0.0	1.5	0.0	67.1	0.3	10.1	22.3	0.0	0.0	0.2	32.9	25,985
Kanziko	1.2	3.9	0.2	3.6	1.1	53.7	1.7	0.2	0.0	65.6	0.5	11.3	22.6	0.0	0.0	0.1	34.4	18,609
Athi	0.2	4.1	0.0	44.6	1.7	30.3	0.0	0.5	0.0	81.3	1.6	3.9	12.3	0.0	0.8	0.0	18.7	34,846

Table 18.24: Source of Water of Male headed Household by County, Constituency and Ward

County/Constituency/ Wards	Pond	Dam	Lake	Stream/ River	Unprotect- ed Spring	Unprotected Well	Jabia	Water vendor	Other	Unimproved Sources	Protected Spring	Protect- ed Well	Borehole	Piped into Dwelling	Piped	Rain Water Collec- tion	Improved Sources	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	8.6	0.4	2.4	0.5	55.6	9.2	8.2	12.1	1.9	12.2	0.8	44.4	18,016,471
Urban	0.8	0.6	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
Kitui County	0.4	4.2	0.1	40.9	1.7	23.0	0.5	2.3	0.0	73.1	0.7	8.0	10.8	0.9	6.3	0.2	26.9	573,924
Mwingi North Constitu- ency	0.7	4.6	0.3	48.1	0.4	22.7	0.0	1.4	0.0	78.2	0.3	11.0	5.7	0.1	4.7	0.0	21.8	79,285

Ngomeni	0.3	14.7	0.1	8.7	0.6	34.8	0.1	-	0.0	59.4	0.5	34.2	5.9	-	0.0	-	40.6	11,026
Kyuso	0.1	0.3	-	41.3	0.3	34.0	0.1	3.5	0.1	79.7	0.3	11.8	4.5	0.2	3.5	0.1	20.3	22,005
Mumoni	2.5	8.3	1.2	58.9	0.1	11.3	-	1.2	0.0	83.6	0.2	1.1	0.4	0.3	14.4	0.1	16.4	18,272
Tseikuru	0.1	-	-	52.4	0.8	20.1	0.0	0.6	0.0	73.9	0.2	11.4	14.5	-	0.0	-	26.1	19,327
Tharaka	-	4.7	-	82.7	0.4	8.7	-	-	-	96.5	0.1	-	-	0.1	3.2	-	3.5	8,655
Mwingi West Constituency	0.1	8.0	0.1	41.1	1.3	13.4	0.5	7.1	0.0	71.7	0.4	8.5	11.5	1.7	5.9	0.3	28.3	64,397
Kyome/Thaana	0.4	9.7	-	60.8	0.1	4.8	1.8	0.8	-	78.4	0.3	8.7	11.6	0.0	0.4	0.5	21.6	13,314
Nguutani	0.0	0.4	-	3.6	1.6	39.9	0.1	12.9	0.0	58.5	0.1	22.9	18.0	-	0.1	0.3	41.5	13,701
Migwani	0.1	8.6	0.0	46.8	4.1	10.1	0.1	3.4	0.0	73.3	0.6	4.2	17.9	0.5	3.1	0.3	26.7	12,616
Kiomo/Kyethani	-	18.4	0.3	57.0	0.4	8.9	0.0	2.1	0.0	87.0	0.5	4.1	7.7	0.1	0.3	0.3	13.0	13,944
Central	0.1	1.4	0.4	37.5	-	0.1	0.2	18.7	0.0	58.4	0.3	0.5	0.4	9.7	30.6	0.0	41.6	10,822
Mwingi Central Constituency	0.0	1.2	0.0	34.5	1.3	20.0	0.1	3.4	0.0	60.6	0.6	6.1	10.4	2.0	20.2	0.1	39.4	68,200
Kivou	0.1	1.0	0.0	40.4	0.0	8.6	0.0	13.4	0.0	63.6	0.2	0.4	7.2	7.2	21.4	0.1	36.4	14,512
Nguni	0.0	2.7	0.1	28.3	0.3	41.1	-	1.1	0.0	73.8	0.2	4.2	21.7	0.0	0.0	0.1	26.2	15,395
Nuu	0.0	0.1	0.0	27.0	1.6	13.9	-	0.5	-	43.2	1.2	7.0	2.3	0.7	45.6	0.0	56.8	16,145
Mui	-	0.7	-	22.7	2.4	20.8	0.5	0.3	-	47.3	0.4	15.4	17.5	0.8	18.4	0.1	52.7	10,816
Waiba	0.1	1.3	-	57.2	2.7	14.2	0.0	0.9	-	76.4	1.1	5.8	4.2	1.0	11.5	-	23.6	11,332
Kiitui West Constituency	0.4	9.5	0.0	51.1	1.4	8.1	0.0	0.7	0.0	71.2	0.5	9.6	14.3	1.3	2.8	0.3	28.8	55,478
Mutonguni	1.0	15.7	0.1	32.6	2.8	14.9	-	0.2	-	67.3	0.9	13.6	17.2	0.3	0.1	0.6	32.7	18,487
Kauwi	0.1	11.4	0.0	35.9	-	2.7	0.1	1.9	-	52.1	0.3	14.9	28.6	0.4	3.6	0.1	47.9	13,688
Matnyani	-	0.1	-	72.4	0.3	6.7	0.0	0.6	0.0	80.1	0.4	4.7	2.6	4.5	7.7	0.1	19.9	13,345

Kwamutonga/Kithumula	0.1	8.1	-	77.5	2.1	4.9	-	0.1	-	92.8	0.4	1.4	5.1	0.2	0.1	-	7.2	9,958
Kitui Rural Constituency	0.8	1.9	0.6	50.4	0.9	24.7	0.0	2.0	0.0	81.4	1.0	6.8	10.2	0.2	0.3	0.1	18.6	59,741
Kisasi	2.7	2.6	0.0	56.0	0.2	28.9	-	0.5	0.1	91.0	0.3	5.7	1.8	0.3	0.9	0.0	9.0	14,336
Mbitini	0.1	0.8	2.5	30.4	0.2	39.8	-	2.9	-	76.7	0.2	13.6	9.1	0.1	0.1	0.2	23.3	13,808
Kwavonza/Yatta	0.0	1.0	-	49.3	2.1	25.6	0.1	3.8	-	81.8	1.2	4.3	12.2	0.1	0.1	0.1	18.2	18,145
Kanyangi	0.6	3.4	0.1	66.5	0.9	3.6	-	0.1	0.0	75.3	2.4	4.5	17.7	0.1	0.1	-	24.7	13,452
Kitui Central Constituency	0.3	0.6	0.0	60.3	3.7	7.9	0.1	2.9	0.0	75.9	1.1	8.0	7.2	1.8	5.7	0.4	24.1	74,810
Mianbani	0.2	0.0	0.1	72.6	9.1	16.8	-	0.0	-	98.7	0.3	0.4	0.2	0.1	0.2	-	1.3	11,676
Township	0.4	0.2	0.0	14.1	1.1	6.4	0.1	11.6	0.1	34.1	0.3	19.2	19.8	6.6	19.8	0.3	65.9	16,357
Kyangwithya West	0.2	2.5	0.0	84.7	-	0.7	0.0	0.7	-	88.8	0.4	1.2	3.8	1.0	4.6	0.3	11.2	14,757
Mulango	0.4	0.2	-	84.8	0.1	1.3	0.2	0.7	0.0	87.6	0.6	8.9	1.8	0.3	0.7	0.1	12.4	16,994
Kyangwithya East	0.3	0.3	0.1	49.2	10.3	17.3	-	0.4	-	77.9	4.0	7.2	8.3	0.3	1.3	1.1	22.1	15,026
Kitui East Constituency	0.5	1.1	0.0	37.1	2.2	32.1	0.0	0.4	-	73.5	0.4	9.6	11.4	0.4	4.6	0.1	26.5	73,356
Zombe/Mwitika	0.4	1.0	-	35.6	0.3	20.7	-	1.0	-	59.0	0.2	11.5	24.3	0.6	4.3	0.0	41.0	14,666
Nzambani	0.3	2.0	-	45.3	0.4	16.7	-	0.4	-	65.1	0.3	22.7	10.3	0.4	0.8	0.3	34.9	11,524
Chuluni	1.9	1.7	-	45.1	4.8	28.2	-	0.1	-	81.9	0.7	8.4	9.1	-	0.0	0.0	18.1	13,202
Voo/Kyamatu	-	1.5	0.1	38.6	0.3	52.2	-	0.2	-	92.8	0.1	0.1	6.9	-	-	-	7.2	14,059
Endau/Malalani	0.1	-	0.1	1.6	2.4	69.0	-	-	-	73.1	0.0	6.8	5.7	0.7	13.4	0.2	26.9	8,917
Mutitu/Kaikuu	-	0.1	-	48.0	5.8	12.6	0.0	0.6	-	67.1	1.2	9.3	8.1	1.0	13.2	-	32.9	10,988
Kitui South Constituency	0.3	7.0	0.1	15.8	1.8	43.3	2.3	1.4	0.0	72.0	1.2	5.3	15.6	0.1	5.6	0.3	28.0	98,667
Ikanga/Kyatune	0.1	7.6	0.0	4.6	1.4	67.8	-	0.8	-	82.3	0.0	2.3	10.6	0.3	4.4	-	17.7	20,164

Mutomo	0.2	11.1	0.2	3.9	3.1	54.0	13.6	5.8	0.1	91.9	0.1	4.3	2.0	-	0.1	1.6	8.1	13,985
Mutha	-	2.7	0.1	16.3	2.1	18.8	0.6	0.1	-	40.7	4.3	1.3	25.6	0.1	27.9	0.2	59.3	15,906
Ikutha	0.1	12.3	0.1	11.1	1.4	38.8	0.0	1.7	-	65.7	0.4	10.8	22.9	-	-	0.2	34.3	16,489
Kanziko	1.4	4.2	0.1	3.1	1.4	52.8	1.9	0.3	0.0	65.4	0.6	11.8	22.2	-	-	-	34.6	11,871
Athi	0.3	4.2	0.1	45.9	1.6	29.1	0.0	0.5	-	81.7	1.5	3.7	12.3	-	0.8	0.0	18.3	20,242

Table 18.25: Source of Water of Female headed Household by County, Constituency and Ward

County/Constituency/ Wards	Pond	Dam	Lake	Stream/ River	Unprotect- ed Spring	Unprotected Well	Jabia	Water vendor	Other	Unim- proved Sources	Pro- tected Spring	Protected Well	Bore- hole	Piped into Dwelling	Piped	Rain Water Collec- tion	Im- proved Sourc- es	Number of Individ- uals
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	0.8	0.6	11.1	2.3	3.4	0.2	11.1	0.1	30.5	4.7	7.0	10.5	14.2	32.5	0.6	69.5	3,105,857
Kitui County	0.4	4.7	0.2	41.9	1.6	23.2	0.5	2.0	0.0	74.6	0.6	7.6	10.8	0.6	5.7	0.1	25.4	421,343
Mwingi North Constituency	0.7	5.2	0.4	48.3	0.4	22.0	0.0	1.1	0.0	78.2	0.3	10.1	6.0	0.1	5.3	0.0	21.8	59,671
Ngomeni	0.3	19.8	0.2	12.6	0.4	28.8	0.0	0.1	0.0	62.2	0.2	28.7	8.8	-	0.0	-	37.8	7,246
Kyuso	0.1	0.3	-	43.8	0.2	31.6	-	3.0	0.1	79.0	0.2	12.4	4.3	0.0	3.9	0.0	21.0	18,162
Mumoni	2.5	9.9	1.5	58.6	0.1	9.9	-	0.4	0.0	83.0	0.2	1.0	0.7	0.4	14.7	-	17.0	15,643
Tseikuru	-	-	0.0	49.4	0.8	23.8	-	0.4	-	74.4	0.4	10.8	14.3	0.0	0.0	-	25.6	14,228
Tharaka	-	1.7	-	85.6	0.7	8.7	-	-	-	96.8	0.1	-	-	0.3	2.7	0.1	3.2	4,392
Mwingi West Constituency	0.2	9.6	0.1	39.7	1.4	14.4	0.9	6.6	0.0	73.0	0.2	8.9	12.4	1.1	4.1	0.3	27.0	55,620
Kyome/Thaana	0.8	12.6	0.1	55.9	0.2	4.8	3.6	0.7	-	78.6	0.1	8.6	12.1	0.1	0.2	0.3	21.4	12,730

Nguutani	0.0	0.5	-	4.8	1.5	38.5	0.1	13.0	-	58.4	0.1	21.8	19.3	0.1	0.1	0.3	41.6	13,480
Migwani	0.1	9.1	0.1	48.7	4.3	10.5	0.1	2.3	0.0	75.1	0.4	3.3	17.2	0.4	3.4	0.2	24.9	11,333
Kiomo/Kyethani	0.0	22.5	0.1	52.6	0.4	9.1	0.1	3.0	-	87.8	0.3	4.6	6.9	-	0.1	0.4	12.2	11,376
Central	0.1	1.5	0.6	41.6	0.0	0.1	0.1	18.7	-	62.8	0.5	0.5	0.2	8.1	28.0	0.1	37.2	6,701
Mwingi Central Constituency	0.1	1.5	0.0	36.4	1.2	20.4	0.0	2.5	0.0	62.3	0.6	6.0	11.8	1.5	17.8	0.0	37.7	52,504
Kivou	0.1	1.3	-	47.0	0.1	6.6	0.0	11.1	0.0	66.2	0.3	0.1	9.2	6.5	17.7	-	33.8	9,572
Nguni	0.1	3.7	0.0	28.6	0.2	40.0	-	0.8	0.0	73.6	0.1	3.9	22.3	-	0.0	0.0	26.4	13,471
Nuu	-	-	0.1	28.7	1.8	14.1	-	0.5	-	45.2	0.3	5.8	2.8	0.4	45.4	-	54.8	11,465
Mui	0.1	0.5	0.1	19.8	1.9	21.5	0.2	0.4	-	44.6	0.7	16.7	19.1	0.3	18.7	-	55.4	8,725
Waita	0.3	1.1	-	62.1	2.3	13.0	-	0.8	0.0	79.6	2.0	5.4	3.6	0.8	8.6	0.0	20.4	9,271
Kitui West Constituency	0.3	9.5	0.1	51.5	1.1	8.2	0.0	0.6	-	71.3	0.5	10.2	14.6	0.9	2.4	0.1	28.7	44,729
Mutonguni	0.8	13.8	0.1	32.2	2.2	14.4	0.0	0.2	-	63.7	0.9	15.0	19.9	0.2	0.1	0.2	36.3	14,860
Kauwi	0.0	13.6	0.1	34.9	0.1	3.8	0.0	1.5	-	54.1	0.1	16.1	26.3	0.3	3.1	0.1	45.9	11,152
Matinyani	-	-	-	74.7	0.1	7.8	-	0.5	-	83.1	0.5	3.9	2.3	3.2	6.9	0.1	16.9	10,209
Kwamutonga/Kithumula	0.1	8.0	0.1	79.4	1.8	3.6	-	0.2	-	93.1	0.5	1.5	4.6	0.1	0.1	-	6.9	8,508
Kitui Rural Constituency	1.0	1.4	0.5	51.2	1.0	26.7	-	1.4	0.0	83.2	0.8	6.5	9.2	0.1	0.2	0.0	16.8	43,442
Kisasi	3.0	1.7	0.1	60.8	0.2	26.5	-	0.2	-	92.6	0.2	5.1	1.5	0.1	0.5	-	7.4	11,906
Mbitini	0.1	0.8	1.9	30.6	0.3	41.9	-	2.6	-	78.2	0.2	10.8	10.7	0.0	0.1	-	21.8	10,589
Kwavonza/Yatta	0.1	0.7	-	46.8	2.5	30.2	-	2.5	0.0	82.8	0.7	4.7	11.5	0.1	0.1	0.1	17.2	12,342
Kanyangi	0.5	2.6	-	69.7	1.0	3.4	-	0.0	-	77.2	2.3	5.5	14.8	-	0.2	-	22.8	8,605
Kitui Central Constituency	0.2	0.9	0.0	65.9	4.3	8.8	0.0	1.9	0.0	82.1	1.2	6.1	5.7	1.1	3.7	0.1	17.9	50,610

Miambani	0.1	0.2	-	74.9	8.2	15.6	-	0.0	0.0	99.0	0.5	0.1	0.3	-	0.1	-	1.0	10,306
Township	0.4	0.0	0.0	16.0	1.9	5.1	0.1	11.4	0.1	35.0	0.1	18.8	20.7	6.4	18.9	0.0	65.0	7,536
Kyangwithya West	-	3.8	-	89.0	0.2	0.8	-	0.2	0.0	94.0	0.4	0.4	2.6	0.2	2.3	0.2	6.0	11,035
Mulango	0.3	0.0	-	89.0	0.0	0.8	0.1	0.5	-	90.6	0.5	6.4	1.8	0.4	0.4	0.1	9.4	11,301
Kyangwithya East	0.2	0.3	0.1	43.7	11.2	22.0	0.1	0.2	-	77.8	4.2	8.3	7.5	0.4	1.3	0.4	22.2	10,432
Kitui East Constituency	0.5	1.2	0.0	37.3	2.0	32.8	-	0.4	-	74.2	0.4	8.8	11.4	0.4	4.8	0.0	25.8	48,984
Zombe/Mwitika	0.3	1.5	0.1	34.7	0.3	19.8	-	0.9	-	57.5	0.1	11.2	25.0	0.5	5.7	-	42.5	10,231
Nzambani	0.1	1.6	-	49.4	0.5	13.3	-	0.9	-	65.8	0.3	22.2	10.3	0.5	1.0	-	34.2	6,597
Chuluni	2.3	1.8	-	43.4	4.0	29.2	-	-	-	80.7	0.2	8.6	10.4	-	-	0.0	19.3	8,837
Voo/Kyamatu	0.1	1.5	-	37.6	0.3	54.4	-	0.4	-	94.3	0.2	0.1	5.5	-	-	-	5.7	8,887
Endau/Malalani	-	0.1	-	2.5	2.1	73.6	-	-	-	78.3	0.2	4.4	4.5	0.5	12.1	0.0	21.7	6,473
Mutitu/Kaikuku	0.0	0.1	-	51.8	5.2	12.5	-	0.2	-	69.7	1.6	8.2	8.3	0.9	11.4	-	30.3	7,959
Kitui South Constituency	0.3	7.3	0.1	14.7	1.6	45.4	2.5	1.4	-	73.2	1.0	4.6	14.7	0.1	6.2	0.2	26.8	65,783
Ikangal/Kyatune	0.1	6.9	0.1	5.8	0.8	68.1	-	0.6	-	82.3	0.1	2.4	10.9	0.1	4.2	-	17.7	15,773
Mutomo	0.8	10.5	0.1	3.1	3.0	54.2	14.4	6.1	-	92.2	0.1	3.7	2.8	-	0.1	1.1	7.8	10,091
Mutha	0.1	3.7	-	11.6	1.9	14.7	1.1	0.3	-	33.5	3.8	1.7	24.9	0.2	35.9	0.1	66.5	9,081
Ikutha	0.1	16.4	0.0	9.3	1.1	41.6	-	1.1	-	69.6	0.1	8.9	21.3	0.0	-	0.1	30.4	9,496
Kanziko	0.6	3.3	0.2	4.5	0.7	55.3	1.3	0.1	-	65.9	0.2	10.3	23.2	0.0	-	0.2	34.1	6,738
Athi	0.1	3.9	-	42.7	1.8	32.0	-	0.4	-	80.8	1.7	4.1	12.5	0.0	0.9	-	19.2	14,604

Table 18.26: Human Waste Disposal by County, Constituency and Ward

County/ Constituency	Main Sewer	Septic Tank	Cess Pool	VIP Latrine	Pit La- trine	Improved Sanita- tion	Pit Latrine Uncov- ered	Bucket	Bush	Other	Unim- proved Sanitation	Number of HH Members
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
Kitui County	0.17	0.47	0.10	4.66	46.98	52.39	15.25	0.04	32.22	0.09	47.61	995,267
Mwingi North Constituency	0.14	0.10	0.03	3.35	31.78	35.40	10.94	0.02	53.54	0.10	64.60	138,956
Ngomeni	0.03	0.02	0.00	5.19	12.06	17.31	3.48	0.06	79.15	0.00	82.69	18,272
Kyuso	0.41	0.08	0.06	3.21	27.74	31.50	18.04	0.01	50.23	0.22	68.50	40,167
Mumoni	0.03	0.15	0.02	3.13	48.04	51.37	8.31	0.01	40.27	0.03	48.63	33,915
Tseikuru	0.02	0.14	0.01	3.60	26.20	29.97	3.56	0.03	66.34	0.10	70.03	33,555
Tharaka	0.04	0.05	0.00	1.17	43.90	45.16	25.36	0.02	29.43	0.03	54.84	13,047
Mwingi West Constituency	0.07	0.48	0.11	7.61	62.43	70.71	18.97	0.03	10.00	0.29	29.29	120,017
Kyome/Thaana	0.05	0.02	0.21	7.71	71.82	79.81	14.77	0.00	5.26	0.15	20.19	26,044
Nguutani	0.02	0.03	0.00	10.57	48.60	59.23	34.77	0.04	5.03	0.93	40.77	27,181
Migwani	0.03	0.29	0.07	3.67	71.76	75.81	14.97	0.01	9.03	0.18	24.19	23,949
Kiomo/Kyethani	0.03	0.07	0.00	2.89	56.70	59.69	18.21	0.08	21.99	0.04	40.31	25,320
Central	0.30	2.73	0.33	15.11	65.48	83.95	7.25	0.03	8.71	0.06	16.05	17,523
Mwingi Central Constituency	0.06	0.27	0.08	2.43	36.91	39.76	8.16	0.02	52.01	0.05	60.24	120,704
Kivou	0.14	1.32	0.07	4.51	58.94	64.98	6.14	0.00	28.84	0.04	35.02	24,084
Nguni	0.01	0.02	0.03	2.80	24.70	27.56	5.05	0.00	67.31	0.08	72.44	28,866
Nuu	0.03	0.01	0.12	0.72	15.82	16.70	8.29	0.02	74.93	0.05	83.30	27,610
Mui	0.01	0.00	0.08	1.41	40.91	42.41	10.43	0.00	47.11	0.06	57.59	19,541
Waita	0.15	0.03	0.11	2.76	52.73	55.77	12.55	0.07	31.58	0.03	44.23	20,603
Kitui West Constituency	0.06	0.14	0.15	6.78	68.33	75.45	19.84	0.04	4.64	0.02	24.55	100,207
Mutonguni	0.01	0.11	0.09	5.46	81.78	87.45	11.54	0.05	0.95	0.01	12.55	33,347
Kauwi	0.10	0.12	0.18	6.98	61.38	68.76	29.28	0.07	1.85	0.04	31.24	24,840
Matinyani	0.11	0.21	0.22	6.22	74.87	81.63	15.53	0.00	2.82	0.02	18.37	23,554
Kwamutonga/ Kithumula	0.00	0.10	0.12	9.60	45.07	54.88	27.63	0.05	17.39	0.04	45.12	18,466
Kitui Rural Constituency	0.13	0.05	0.08	5.77	60.41	66.44	14.86	0.06	18.56	0.08	33.56	103,183
Kisasi	0.05	0.06	0.07	7.64	56.46	64.28	11.14	0.01	24.38	0.19	35.72	26,242
Mbitini	0.00	0.10	0.08	5.29	64.62	70.09	14.09	0.07	15.65	0.11	29.91	24,397
Kwavonza/Yatta	0.31	0.04	0.07	7.36	60.88	68.66	17.63	0.15	13.54	0.02	31.34	30,487
Kyangi	0.11	0.01	0.10	1.86	59.82	61.90	16.29	0.00	21.81	0.00	38.10	22,057
Kitui Central Constituency	0.84	2.56	0.21	6.85	62.99	73.44	17.08	0.06	9.33	0.08	26.56	125,420
Miambani	0.00	0.10	0.22	2.50	54.03	56.85	11.71	0.04	31.33	0.08	43.15	21,982

Township	3.83	12.38	0.24	17.10	43.78	77.33	21.89	0.05	0.59	0.14	22.67	23,893
Kyangwithya West	0.05	0.12	0.30	5.97	62.93	69.37	25.84	0.16	4.51	0.12	30.63	25,792
Mulango	0.31	0.17	0.04	4.36	79.92	84.79	7.04	0.03	8.12	0.02	15.21	28,295
Kyangwithya East	0.14	0.59	0.25	4.66	69.99	75.63	19.51	0.04	4.79	0.04	24.37	25,458
Kitui East Constituency	0.04	0.14	0.07	3.84	27.50	31.59	13.40	0.04	54.90	0.06	68.41	122,340
Zombe/Mwitika	0.10	0.07	0.14	5.66	17.44	23.41	8.43	0.10	68.04	0.02	76.59	24,897
Nzambani	0.02	0.55	0.08	5.85	54.63	61.13	35.08	0.02	3.74	0.03	38.87	18,121
Chuluni	0.03	0.10	0.06	5.45	32.12	37.76	27.07	0.02	35.04	0.11	62.24	22,039
Voo/Kyamatu	0.03	0.00	0.02	0.87	18.58	19.49	2.68	0.03	77.70	0.09	80.51	22,946
Endau/Malalani	0.01	0.16	0.00	0.87	10.24	11.28	2.85	0.05	85.77	0.05	88.72	15,390
Mutitu/Kaliku	0.01	0.06	0.08	3.65	34.25	38.05	4.86	0.00	57.00	0.08	61.95	18,947
Kitui South Constituency	0.06	0.06	0.09	2.18	36.79	39.19	18.84	0.04	41.88	0.06	60.81	164,440
Ikanga/Kyatune	0.01	0.08	0.02	3.24	28.39	31.74	31.23	0.02	36.96	0.04	68.26	35,937
Mutomo	0.10	0.13	0.37	2.40	51.18	54.19	16.65	0.06	28.98	0.12	45.81	24,076
Mutha	0.04	0.00	0.04	0.81	19.05	19.93	14.68	0.03	65.34	0.02	80.07	24,987
Ikutha	0.05	0.03	0.03	1.66	53.32	55.09	10.33	0.08	34.46	0.05	44.91	25,985
Kanziko	0.18	0.02	0.03	2.56	10.26	13.06	23.69	0.05	63.14	0.06	86.94	18,609
Athi	0.06	0.08	0.09	2.10	50.06	52.40	14.30	0.01	33.22	0.06	47.60	34,846

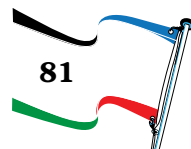
Table 18.27: Human Waste Disposal in Male Headed household by County, Constituency and Ward

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 Members
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
Kitui County	0.20	0.56	0.10	4.93	46.98	52.77	15.31	0.05	31.78	0.08	47.23	573,924
Mwingi North Constituency	0.11	0.10	0.03	3.77	32.55	36.56	11.43	0.02	51.92	0.07	63.44	79,285
Ngomeni	0.00	0.04	0.00	5.51	11.60	17.15	3.06	0.00	79.79	0.00	82.85	11,026
Kyuso	0.34	0.06	0.08	4.02	28.78	33.28	19.05	0.00	47.48	0.20	66.72	22,005
Mumoni	0.05	0.18	0.01	3.52	49.40	53.16	8.22	0.03	38.59	0.00	46.84	18,272
Tseikuru	0.00	0.12	0.03	3.82	27.73	31.69	3.84	0.04	64.38	0.05	68.31	19,327
Tharaka	0.06	0.08	0.00	1.32	43.99	45.44	26.47	0.02	28.06	0.00	54.56	8,655
Mwingi West Constituency	0.10	0.61	0.11	8.31	62.37	71.51	18.44	0.05	9.77	0.23	28.49	64,397
Kyome/Thaana	0.11	0.05	0.26	8.55	71.38	80.34	14.26	0.00	5.18	0.22	19.66	13,314
Nguutani	0.04	0.00	0.00	12.42	48.15	60.61	34.49	0.04	4.22	0.64	39.39	13,701
Migwani	0.06	0.48	0.04	3.55	70.78	74.90	15.39	0.02	9.47	0.22	25.10	12,616
Kiomo/Kyethani	0.03	0.12	0.00	3.09	57.14	60.38	17.91	0.14	21.54	0.01	39.62	13,944

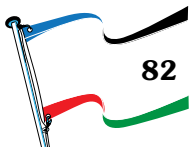
Central	0.34	2.86	0.28	15.09	66.24	84.82	7.48	0.05	7.63	0.02	15.18	10,822
Mwingi Central Constituency	0.06	0.31	0.07	2.36	38.26	41.06	8.69	0.01	50.18	0.05	58.94	68,200
Kivou	0.09	1.44	0.06	4.38	60.40	66.37	6.89	0.00	26.67	0.07	33.63	14,512
Nguni	0.00	0.01	0.02	2.55	25.05	27.62	5.34	0.00	66.96	0.08	72.38	15,395
Nuu	0.04	0.01	0.09	0.49	17.37	18.01	8.96	0.00	73.04	0.00	81.99	16,145
Mui	0.02	0.00	0.13	1.44	42.05	43.64	10.82	0.00	45.48	0.06	56.36	10,816
Waita	0.19	0.02	0.07	3.05	53.99	57.32	13.14	0.08	29.39	0.06	42.68	11,332
Kitui West Constituency	0.09	0.14	0.20	6.89	68.42	75.74	19.77	0.05	4.43	0.02	24.26	55,478
Mutonguni	0.03	0.15	0.10	5.58	81.00	86.86	11.98	0.08	1.09	0.00	13.14	18,487
Kauwi	0.17	0.16	0.32	6.49	62.20	69.34	28.82	0.07	1.72	0.04	30.66	13,688
Matinyani	0.16	0.18	0.18	6.53	75.94	83.00	14.67	0.01	2.29	0.03	17.00	13,345
Kwamutonga/Kithumula	0.00	0.04	0.22	10.34	43.55	54.16	28.63	0.00	17.20	0.01	45.84	9,958
Kitui Rural Constituency	0.12	0.08	0.09	6.25	60.56	67.10	14.95	0.08	17.78	0.09	32.90	59,741
Kisasi	0.09	0.10	0.00	8.82	57.42	66.44	11.12	0.00	22.25	0.19	33.56	14,336
Mbitini	0.00	0.13	0.12	5.76	64.56	70.57	14.07	0.10	15.14	0.12	29.43	13,808
Kwavonza/Yatta	0.25	0.05	0.12	7.81	60.79	69.02	17.10	0.18	13.66	0.04	30.98	18,145
Kanyangi	0.09	0.02	0.12	1.91	59.51	61.65	17.06	0.00	21.29	0.00	38.35	13,452
Kitui Central Constituency	0.96	2.94	0.25	7.59	62.54	74.28	17.33	0.05	8.25	0.08	25.72	74,810
Miambani	0.00	0.09	0.29	2.71	54.39	57.48	11.81	0.00	30.67	0.04	42.52	11,676
Township	3.83	12.61	0.20	17.30	42.81	76.76	22.40	0.07	0.59	0.18	23.24	16,357
Kyangwithya West	0.08	0.14	0.43	6.55	62.07	69.28	26.29	0.13	4.19	0.11	30.72	14,757
Mulango	0.28	0.19	0.06	4.92	80.31	85.77	7.01	0.00	7.17	0.04	14.23	16,994
Kyangwithya East	0.21	0.47	0.31	4.86	70.72	76.57	18.96	0.05	4.39	0.03	23.43	15,026
Kitui East Constituency	0.04	0.15	0.07	3.82	28.21	32.29	13.37	0.05	54.23	0.07	67.71	73,356
Zombe/Mwitika	0.08	0.10	0.10	5.98	17.18	23.44	8.57	0.17	67.78	0.03	76.56	14,666
Nzambani	0.03	0.60	0.13	6.01	56.05	62.83	34.37	0.03	2.77	0.00	37.17	11,524
Chuluni	0.05	0.06	0.08	4.95	31.85	36.98	25.94	0.00	36.97	0.11	63.02	13,202
Voo/Kyamatu	0.05	0.00	0.02	0.76	18.09	18.92	2.71	0.06	78.19	0.12	81.08	14,059
Endau/Malalani	0.00	0.18	0.00	0.95	11.37	12.50	2.92	0.00	84.55	0.03	87.50	8,917
Mutitu/Kaliku	0.02	0.05	0.06	3.49	35.95	39.58	4.76	0.00	55.57	0.09	60.42	10,988
Kitui South Constituency	0.06	0.08	0.06	2.35	36.45	39.00	18.60	0.06	42.27	0.07	61.00	98,657
Ikanga/Kyatune	0.00	0.08	0.03	3.65	28.04	31.79	31.46	0.02	36.65	0.07	68.21	20,164
Mutomo	0.06	0.21	0.27	2.82	51.83	55.19	16.90	0.11	27.70	0.09	44.81	13,985
Mutha	0.03	0.00	0.03	0.96	18.58	19.60	14.06	0.05	66.26	0.03	80.40	15,906
Ikutha	0.04	0.05	0.02	1.63	53.52	55.27	10.90	0.12	33.63	0.08	44.73	16,489
Kanziko	0.24	0.03	0.00	3.01	10.79	14.07	22.31	0.08	63.44	0.09	85.93	11,871
Athi	0.07	0.10	0.01	2.02	49.39	51.60	14.63	0.00	33.70	0.07	48.40	20,242

Table 18.28: Human Waste Disposal in Female Headed Household by County, Constituency and Ward

County/ Constituency	Main Sewer	Septic Tank	Cess Pool	VIP Latrine	Pit Latrine	Improved Sanitation	PitLatrine Uncovered	Bucket	Bush	Other	Unimproved Sanitation	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	0.6	5.9	45.1	76.4	18.4	0.7	4.3	0.2	23.6	3,105,857.0
Kitui	0.1	0.4	0.1	4.3	47.0	51.9	15.2	0.0	32.8	0.1	48.1	421,343.0
Mwingi North	0.2	0.1	0.0	2.8	30.8	33.8	10.3	0.0	55.7	0.1	66.2	59,671.0
Ngomeni	0.1	0.0	0.0	4.7	12.8	17.5	4.1	0.2	78.2	0.0	82.5	7,246.0
Kyuso	0.5	0.1	0.0	2.2	26.5	29.3	16.8	0.0	53.6	0.3	70.7	18,162.0
Mumoni	0.0	0.1	0.0	2.7	46.5	49.3	8.4	0.0	42.2	0.1	50.7	15,643.0
Tseikuru	0.0	0.2	0.0	3.3	24.1	27.6	3.2	0.0	69.0	0.2	72.4	14,228.0
Tharaka	0.0	0.0	0.0	0.9	43.7	44.6	23.2	0.0	32.1	0.1	55.4	4,392.0
Mwingi West	0.0	0.3	0.1	6.8	62.5	69.8	19.6	0.0	10.3	0.4	30.2	55,620.0
Kyome/Thaana	0.0	0.0	0.2	6.8	72.3	79.3	15.3	0.0	5.4	0.1	20.7	12,730.0
Nguutani	0.0	0.1	0.0	8.7	49.1	57.8	35.1	0.0	5.9	1.2	42.2	13,480.0
Migwani	0.0	0.1	0.1	3.8	72.8	76.8	14.5	0.0	8.5	0.1	23.2	11,333.0
Kiomo/Kyethani	0.0	0.0	0.0	2.6	56.2	58.8	18.6	0.0	22.5	0.1	41.2	11,376.0
Central	0.2	2.5	0.4	15.1	64.2	82.5	6.9	0.0	10.5	0.1	17.5	6,701.0
Mwingi Central	0.1	0.2	0.1	2.5	35.2	38.1	7.5	0.0	54.4	0.1	61.9	52,504.0
Kivou	0.2	1.1	0.1	4.7	56.7	62.9	5.0	0.0	32.1	0.0	37.1	9,572.0
Nguni	0.0	0.0	0.0	3.1	24.3	27.5	4.7	0.0	67.7	0.1	72.5	13,471.0
Nuu	0.0	0.0	0.2	1.0	13.6	14.9	7.4	0.1	77.6	0.1	85.1	11,465.0
Mui	0.0	0.0	0.0	1.4	39.5	40.9	9.9	0.0	49.1	0.0	59.1	8,725.0
Waita	0.1	0.0	0.2	2.4	51.2	53.9	11.8	0.1	34.2	0.0	46.1	9,271.0
Kitui West	0.0	0.1	0.1	6.6	68.2	75.1	19.9	0.0	4.9	0.0	24.9	44,729.0
Mutonguni	0.0	0.1	0.1	5.3	82.7	88.2	11.0	0.0	0.8	0.0	11.8	14,860.0
Kauwi	0.0	0.1	0.0	7.6	60.4	68.1	29.8	0.1	2.0	0.0	31.9	11,152.0
Matinyani	0.0	0.2	0.3	5.8	73.5	79.8	16.6	0.0	3.5	0.0	20.2	10,209.0
Kwamutonga/ Kithumula	0.0	0.2	0.0	8.7	46.8	55.7	26.5	0.1	17.6	0.1	44.3	8,508.0
Kitui Rural	0.1	0.0	0.1	5.1	60.2	65.5	14.7	0.0	19.6	0.1	34.5	43,442.0
Kisasi	0.0	0.0	0.2	6.2	55.3	61.7	11.2	0.0	26.9	0.2	38.3	11,906.0
Mbitini	0.0	0.1	0.0	4.7	64.7	69.5	14.1	0.0	16.3	0.1	30.5	10,589.0
Kwavonza/Yatta	0.4	0.0	0.0	6.7	61.0	68.1	18.4	0.1	13.4	0.0	31.9	12,342.0
Kanyang'i	0.1	0.0	0.1	1.8	60.3	62.3	15.1	0.0	22.6	0.0	37.7	8,605.0
Kitui Central	0.7	2.0	0.1	5.8	63.6	72.2	16.7	0.1	10.9	0.1	27.8	50,610.0
Miambani	0.0	0.1	0.1	2.3	53.6	56.1	11.6	0.1	32.1	0.1	43.9	10,306.0
Township	3.8	11.9	0.3	16.7	45.9	78.6	20.8	0.0	0.6	0.1	21.4	7,536.0
Kyangwithya West	0.0	0.1	0.1	5.2	64.1	69.5	25.2	0.2	4.9	0.1	30.5	11,035.0
Mulango	0.3	0.1	0.0	3.5	79.3	83.3	7.1	0.1	9.5	0.0	16.7	11,301.0
Kyangwithya East	0.0	0.7	0.2	4.4	68.9	74.3	20.3	0.0	5.4	0.0	25.7	10,432.0
Kitui East	0.0	0.1	0.1	3.9	26.5	30.5	13.5	0.0	55.9	0.1	69.5	48,984.0
Zombe/Mwitika	0.1	0.0	0.2	5.2	17.8	23.4	8.2	0.0	68.4	0.0	76.6	10,231.0
Nzambani	0.0	0.5	0.0	5.6	52.1	58.2	36.3	0.0	5.4	0.1	41.8	6,597.0
Chuluni	0.0	0.2	0.0	6.2	32.5	38.9	28.7	0.0	32.2	0.1	61.1	8,837.0
Voo/Kyamatu	0.0	0.0	0.0	1.0	19.4	20.4	2.6	0.0	76.9	0.0	79.6	8,887.0
Endau/Malalani	0.0	0.1	0.0	0.8	8.7	9.6	2.8	0.1	87.5	0.1	90.4	6,473.0



Mutitu/Kaliku	0.0	0.1	0.1	3.9	31.9	35.9	5.0	0.0	59.0	0.1	64.1	7,959.0
Kitui South	0.1	0.0	0.1	1.9	37.3	39.5	19.2	0.0	41.3	0.0	60.5	65,783.0
Ikanga/Kyatune	0.0	0.1	0.0	2.7	28.9	31.7	30.9	0.0	37.4	0.0	68.3	15,773.0
Mutomo	0.1	0.0	0.5	1.8	50.3	52.8	16.3	0.0	30.8	0.2	47.2	10,091.0
Mutha	0.1	0.0	0.1	0.6	19.9	20.5	15.8	0.0	63.7	0.0	79.5	9,081.0
Ikutha	0.1	0.0	0.0	1.7	53.0	54.8	9.3	0.0	35.9	0.0	45.2	9,496.0
Kanziko	0.1	0.0	0.1	1.8	9.3	11.3	26.1	0.0	62.6	0.0	88.7	6,738.0
Athi	0.0	0.1	0.2	2.2	51.0	53.5	13.8	0.0	32.6	0.0	46.5	14,604.0





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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



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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