

Exploring Kenya's Inequality

Pulling Apart or Pooling Together?

Makueni County



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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

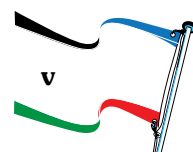


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Stefano Prato
Managing Director,
SID



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.

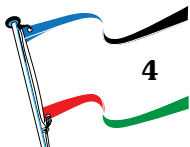
The sample in the 2005/06 KIHBS, which was a representative subset of the population, collected detailed information regarding consumption expenditures. The survey gives poverty estimate of urban and rural poverty at the national level, the provincial level and, albeit with less precision, at the district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

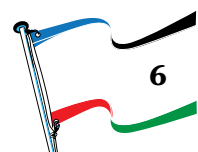
Spatial Dimensions

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.

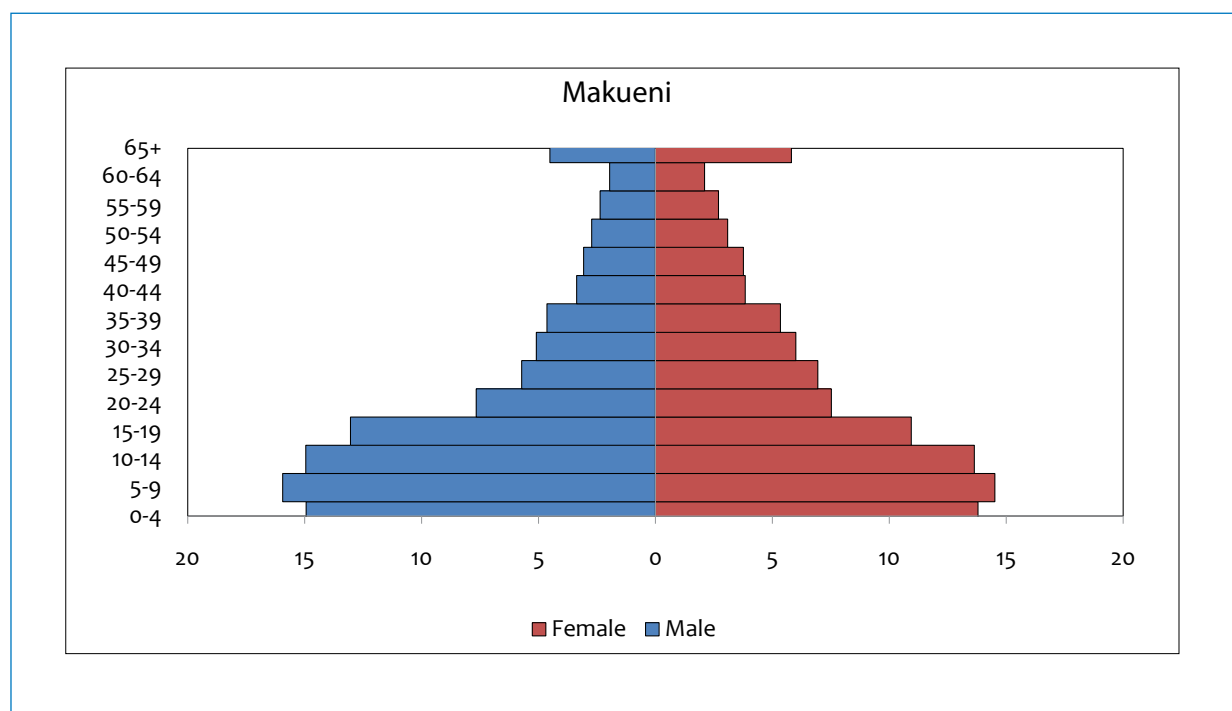


Makueni County



MAKUENI COUNTY

Figure 23.1: Makueni Population Pyramid



Population

Makueni County has a child rich population, where 0-14 year olds constitute 44% of the total population. This is due to high fertility rates among women as shown by the percentage household size of 4-6 members at 43%. The lower proportion of 0-4 year olds is due to high infant and under five mortality rates

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 23.3 up to ward level.

Table: 23: Overall Employment by Education Levels in Makueni County

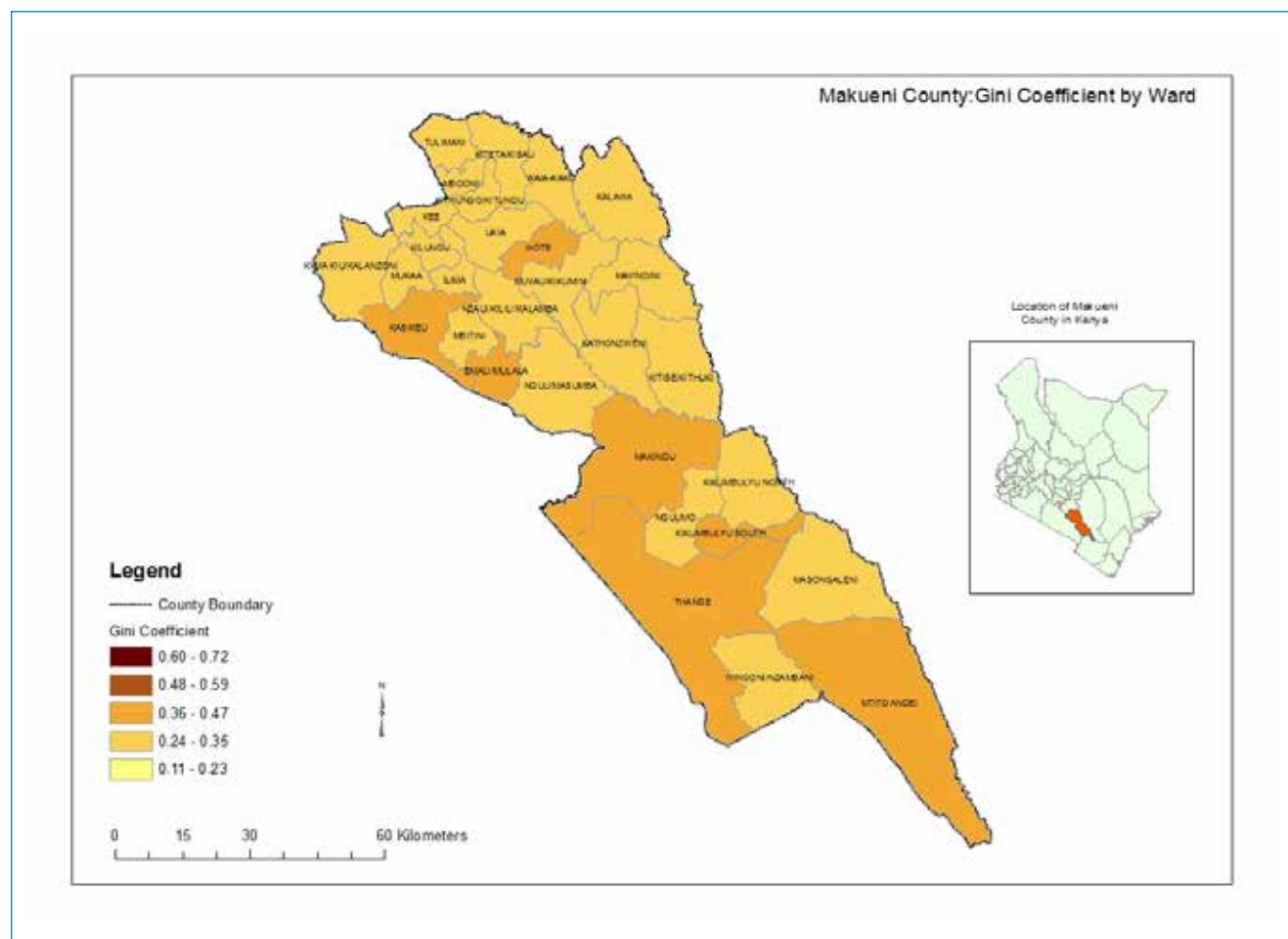
Education Level	Work for pay	Family Business	Family Agricultural Holding	Intern/ Volunteer	Retired/ Home-maker	Fulltime Student	Incapacitated	No work	Number of Individuals
Total	23.2	10.0	22.7	0.9	16.3	20.2	0.8	6.1	445,786
None	19.3	8.8	29.6	2.2	27.5	0.9	5.1	6.7	24,441
Primary	22.8	10.0	25.1	0.7	18.5	16.1	0.7	6.3	261,224
Secondary+	24.6	10.1	17.6	0.9	11.1	29.8	0.3	5.6	160,121

In Makueni County, 19% of the residents with no formal education 23% of those with primary education and 25% of those with secondary level of education or above are working for pay. Work for pay is highest in Nairobi at 49% and this is almost twice the level in Makueni 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. Makueni County's Gini index is 0.376 compared with Turkana County, which has the least inequality nationally (0.283).

Figure 23.2: Makueni County-Gini Coefficient by Ward



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

Legend

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

Location of Makueni County in Kenya

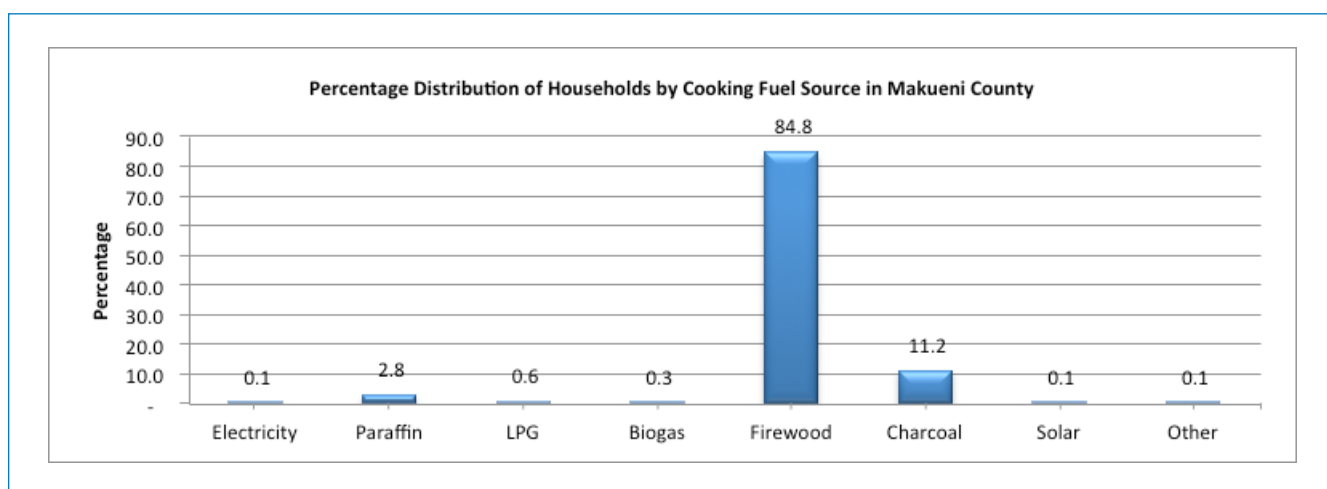
0 15 30 60 Kilometers

A total of 17% of Makueni County residents have no formal education. Kibwezi East constituency has the highest share of residents with no formal education at 18%. This is 2 percentage points above Kilome constituency, which has the lowest share of residents with no formal education. Kibwezi East constituency is 1 percentage point above the county average. Kikumbulyu North ward has the highest percentage of residents with no formal education at 21%. This is almost twice Wote ward, which has the lowest percentage of residents with no formal education. Kikumbulyu North is 4 percentage points above the county average.

Energy

Cooking Fuel

Figure 23.4: Percentage Distribution of Households by Source of Cooking Fuel in Makueni County



Only 1% of residents in Makueni County use liquefied petroleum gas (LPG), and 3% use paraffin. 85% use firewood and 11% use charcoal. Firewood is the most common cooking fuel by gender with 83% of male headed households and 87% in female headed households using it.

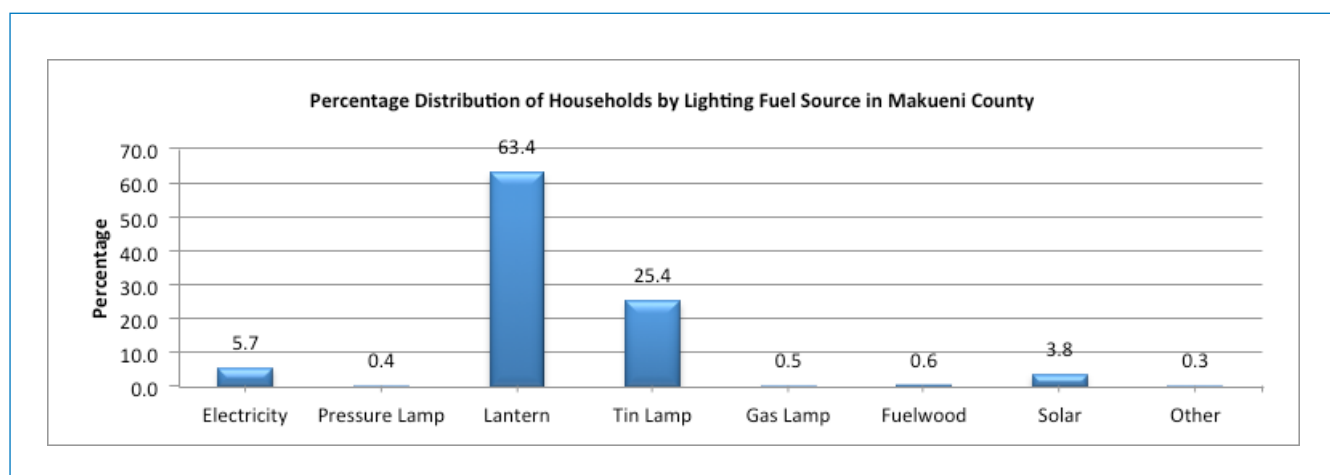
Kaiti and Mbooni constituencies have the highest level of firewood use in Makueni County at 91% each. This is 17 percentage points above Kibwezi West constituency, which has the lowest share at 74%. Kaiti and Mbooni are about 6 percentage points above the county average. Muvau/Kikumini ward has the highest level of firewood use in Makueni County at 97%. This is twice Wote ward, which has 41%. Muvau/Kikumini ward is 12 percentage points above the county average.

Kibwezi West constituency has the highest level of charcoal use in Makueni County 19%. This is almost three times Kaiti constituency, which has the lowest share. Kibwezi West is about 8 percentage points above the county average. Wote ward has highest level of charcoal use in Makueni County at 39%. This is 13 times Mvua/Kikumini ward, which has the lowest share at 3%. Wote ward is 28 percentage points above the county average.

Lighting

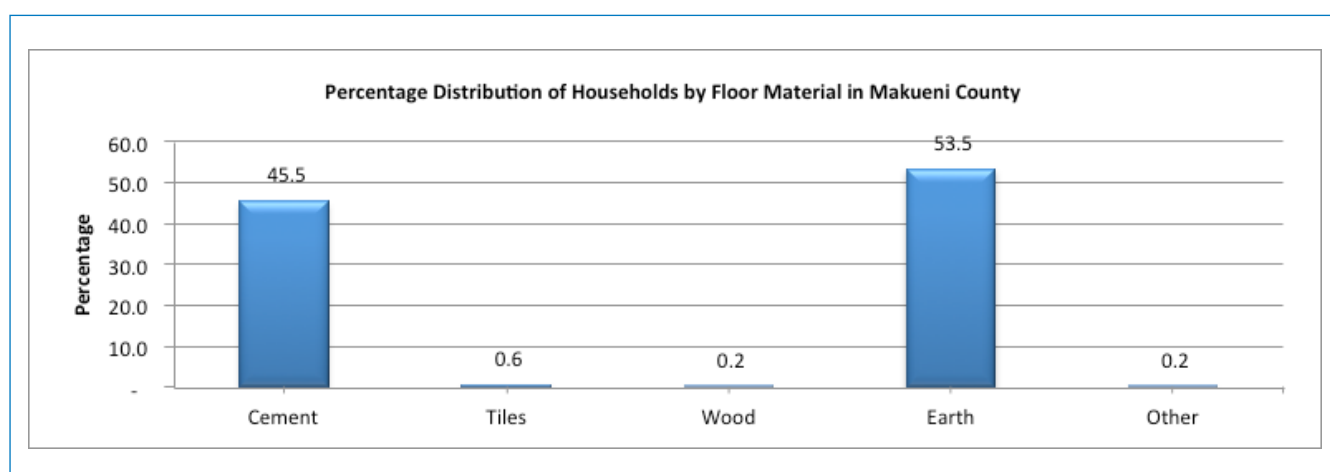
Only 6% of residents in Makueni County use electricity as their main source of lighting. A further 63% use lanterns, and 25% use tin lamps. 1% use fuel wood. Electricity use is almost equal by gender with male headed households at 6% as compared with female headed households at 5%.

Kibwezi West constituency has the highest level of electricity use at 11%. That is 9 percentage points above Mbooni constituency, which has the lowest level of electricity use. Kibwezi West constituency is 5 percentage points above the county average. Wote ward has the highest level of electricity use at 27%. That is 27 percentage points above Kitise/Kithuki ward, which has the lowest level of electricity use. Wote ward is 21 percentage points above the county average.

Figure 23.5: Percentage Distribution of Households by Source of Lighting Fuel in Makueni County

Housing

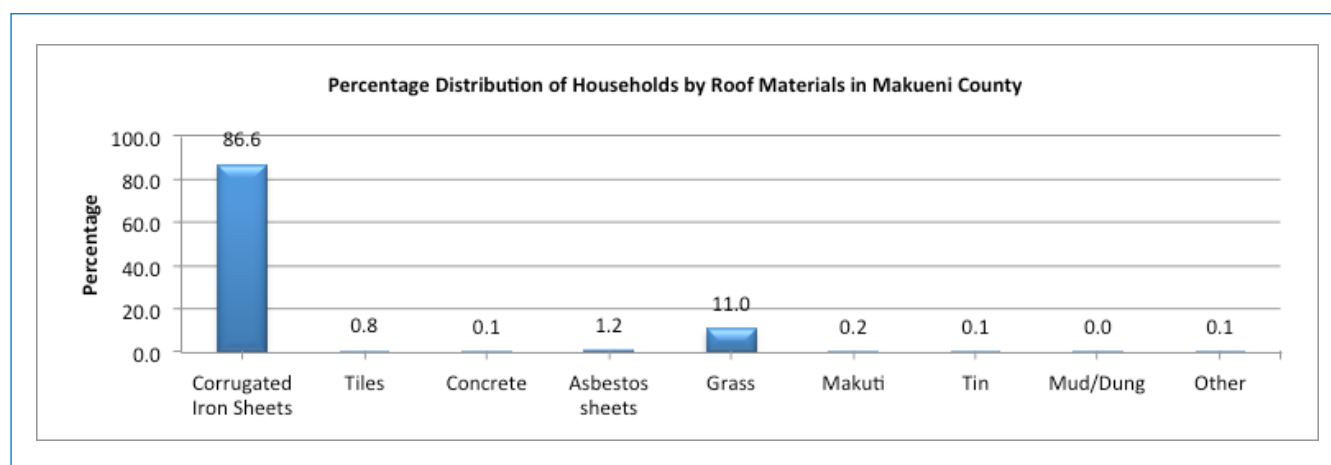
Flooring

Figure 23.6: Percentage Distribution of Households by Floor Material in Makueni County

In Makueni County, 46% of residents have homes with cement floors, while 54% have earth floors. Less than 1% has wood and just 1% has tile floors. Kaiti constituency has the highest share of cement floors at 49%. That is 8 percentage points above Kibwezi East constituency, which has the lowest share of cement floors. Kaiti constituency is 3 percentage points above the county average. Wote ward has the highest share of cement floors at 80%. That is almost 51 percentage points above Msongaleni ward, which has the lowest share of cement floors. Wote ward is 34 percentage points above the county average.

Roofing

Figure 23.7: Percentage Distribution of Households by Roof Material in Makueni County



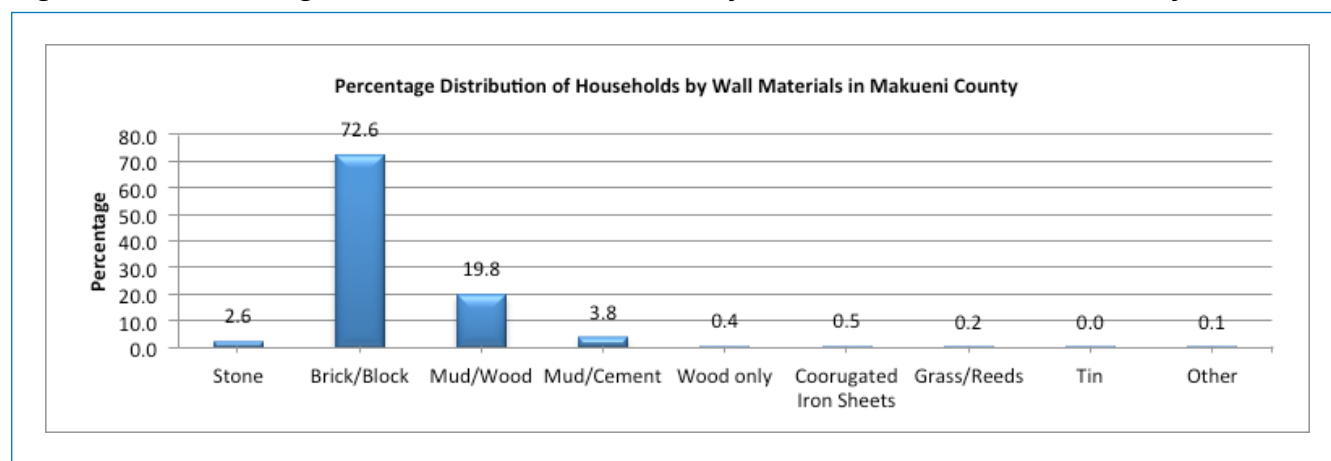
In Makueni County, less than 1% of residents have homes with concrete roofs, while 87% have corrugated iron sheet roofs. Grass and makuti roofs constitute 11% of homes, and none have mud/dung roofs.

Kaiti constituency has the highest share of corrugated iron sheet roofs at 93%. That is 13 percentage points above Makueni constituency, which has the lowest share of corrugated iron roofs. Kaiti constituency is 6 percentage points above the county average. Mbooni ward has the highest share of corrugated iron sheet roofs at 98%. That is 26 percentage points above Muvau/Kikumini ward, which has the lowest share of corrugated iron roofs. Mbooni ward is 11 percentage points above the county average.

Makueni constituency has the highest share of grass/makuti roofs at 19%. That is almost four times Kaiti constituency, which has the lowest share of grass/makuti roofs. Makueni constituency is 8 percentage points above the county average. Muvau/Kikumini ward has the highest share of grass/makuti roofs at 27%. This is 26 percentage points above Mbooni ward, which has the lowest share at 16 percentage points above the county average.

Walls

Figure 23.8: Percentage Distribution of Households by Wall Material in Makueni County



In Makueni County, 75% of homes have either brick or stone walls. 24% of homes have mud/wood or mud/cement walls. Less than 1% has wood walls. 1% has corrugated iron sheet or grass/thatched or tin or other walls.

Mbooni constituency has the highest share of brick/stone walls at 85%. That is 19 percentage points above Kibwezi East constituency, which has the lowest share of brick/stone walls. Mbooni constituency is 10 percentage points above the county average. Kee ward has the highest share of brick/stone walls at 95%. That is 40 percentage points above Nguumo ward, which has the lowest share of brick/stone walls. Kee ward is 20 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.

Kibwezi East constituency has the highest share of residents using improved sources of water at 70%. That is four times Mbooni constituency, which has the lowest share using improved sources of water. Kibwezi East constituency is 34 percentage points above the county average. Nguumo ward has the highest share of residents using improved sources of water at 94%. That is 24 times Waia-Kako ward, which has the lowest share using improved sources of water. Nguumo ward is 58 percentage points above the county average.

Percentage of Households with Improved and Unimproved Source of Water - Ward Level - Makueni County

Legend

- County Boundary
- Unimproved Source of Water
- Improved Source of water
- Water Bodies

Scale: 0 15 30 60 Kilometers

Location of Makueni County in Kenya

Wards and their corresponding water source percentages (approximate):

Ward	Unimproved Source of Water (%)	Improved Source of water (%)
TULUANGU	85	15
KIPIPI	80	20
KIPIPI MAU	85	15
MEKINDU	80	20
MEKINDU NORTH	85	15
MEKINDU SOUTH	80	20
KALALA	85	15
KALALA NORTH	80	20
KALALA SOUTH	85	15
KALALA WEST	80	20
KALALA EAST	85	15
KALALA CENTRAL	80	20
KALALA NORTH CENTRAL	85	15
KALALA SOUTH CENTRAL	80	20
KALALA WEST CENTRAL	85	15
KALALA EAST CENTRAL	80	20
KALALA CENTRAL NORTH	85	15
KALALA CENTRAL SOUTH	80	20
KALALA CENTRAL WEST	85	15
KALALA CENTRAL EAST	80	20
KALALA CENTRAL NORTH WEST	85	15
KALALA CENTRAL SOUTH WEST	80	20
KALALA CENTRAL NORTH EAST	85	15
KALALA CENTRAL SOUTH EAST	80	20
KALALA CENTRAL WEST CENTRAL	85	15
KALALA CENTRAL EAST CENTRAL	80	20
KALALA CENTRAL NORTH CENTRAL	85	15
KALALA CENTRAL SOUTH CENTRAL	80	20
KALALA CENTRAL WEST NORTH	85	15
KALALA CENTRAL WEST SOUTH	80	20
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KALALA CENTRAL WEST SOUTH CENTRAL	80	20
KALALA CENTRAL EAST NORTH CENTRAL	85	15
KALALA CENTRAL EAST SOUTH CENTRAL		

23. MAKUENI

Table 23.1: 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 dependency Ratio	Child dependency Ratio	aged dependency 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
Makueni County	874,323	424,707	449,616	153,006	383,245	211,251	275,028	445,786	45,292	0.945	0.961	0.860	0.102	34.1	42.8	23.1	184,494
Mbooni Constituency	183,475	87,698	95,777	30,656	79,455	46,212	56,238	92,964	11,056	0.916	0.974	0.855	0.119	31.7	45.7	22.5	38,236
Tulimani	35,039	16,748	18,291	5,818	15,215	8,900	10,440	17,584	2,240	0.916	0.993	0.865	0.127	33.9	45.4	20.8	7,540
Mbooni	33,546	16,002	17,544	5,701	14,179	8,009	10,585	17,423	1,944	0.912	0.925	0.814	0.112	32.9	44.5	22.6	7,005
Kithungo/Kitundu	28,097	13,372	14,725	4,939	12,610	7,165	8,563	14,009	1,478	0.908	1.006	0.900	0.106	26.8	45.7	27.5	5,435
Kiiteta/Kisau	36,678	17,466	19,212	5,829	15,294	9,130	11,394	18,914	2,470	0.909	0.939	0.809	0.131	33.8	45.8	20.4	7,924
Waia-Kako	23,045	11,235	11,810	3,660	9,801	6,010	7,178	11,802	1,442	0.951	0.953	0.830	0.122	32.3	45.6	22.1	4,830
Kalawa	27,070	12,875	14,195	4,709	12,356	6,998	8,078	13,232	1,482	0.907	1.046	0.934	0.112	28.6	47.9	23.5	5,502
Kilome Constituency	86,468	42,378	44,090	14,264	37,066	21,316	26,870	44,490	4,912	0.961	0.944	0.833	0.110	38.1	42.6	19.3	19,453
Kasikeu	37,549	18,399	19,150	6,288	16,129	9,165	11,907	19,434	1,986	0.961	0.932	0.830	0.102	37.0	43.0	20.0	8,351
Mukaa	26,285	12,545	13,740	4,243	11,304	6,685	7,685	13,210	1,771	0.913	0.990	0.856	0.134	35.4	45.5	19.2	5,771
Kiima Kiu/Kalanizoni	22,634	11,434	11,200	3,733	9,633	5,466	7,278	11,846	1,155	1.021	0.911	0.813	0.098	42.8	38.8	18.4	5,331
Kaiti Constituency	119,511	56,828	62,683	20,306	52,291	29,924	36,000	59,839	7,381	0.907	0.997	0.874	0.123	31.8	44.9	23.3	24,726
Ukia	38,271	18,600	19,671	6,543	16,427	9,281	12,108	19,729	2,115	0.946	0.940	0.833	0.107	30.4	43.9	25.7	7,717

Kee	20,926	9,875	11,051	3,212	8,680	5,297	6,229	10,721	1,525	0.894	0.952	0.810	0.142	35.4	45.5	19.1	4590
Kilungu	33,866	15,961	17,905	5,784	14,813	8,296	10,041	16,827	2,226	0.891	1.013	0.880	0.132	32.6	45.6	21.8	7116
Ilima	26,448	12,392	14,056	4,767	12,371	7,050	7,622	12,562	1,515	0.882	1.105	0.985	0.121	29.5	45.1	25.4	5303
Makueni Constituency	190,865	92,680	98,185	32,863	83,070	46,782	61,084	98,065	9,730	0.944	0.946	0.847	0.099	31.6	43.4	25.0	38720
Wote	23,755	11,952	11,803	3,386	8,029	4,717	9,698	14,831	895	1.013	0.602	0.541	0.060	54.6	32.3	13.0	6436
Muvau/Kikumini	24,286	12,104	12,182	4,095	10,445	5,991	7,615	12,617	1,224	0.994	0.925	0.828	0.097	25.9	45.3	28.8	4598
Mavindini	23,236	11,138	12,098	4,135	10,661	6,030	6,995	11,245	1,330	0.921	1.066	0.948	0.118	24.0	46.7	29.2	4355
Kitise/Kituki	21,847	10,477	11,370	3,883	10,031	5,566	6,637	10,749	1,067	0.921	1.032	0.933	0.099	24.2	46.7	29.1	4105
Kathonzweni	30,486	14,588	15,898	5,243	13,583	7,798	9,544	15,205	1,698	0.918	1.005	0.893	0.112	27.8	44.1	28.1	5760
Nzau/Kilili/Kalamba	36,951	17,903	19,048	6,652	16,684	9,087	11,325	18,416	1,851	0.940	1.006	0.906	0.101	29.7	46.1	24.2	7539
Mbitini	30,304	14,518	15,786	5,469	13,637	7,593	9,270	15,002	1,665	0.920	1.020	0.909	0.111	27.7	45.2	27.1	5927
Kibwezi West Constituency	163,590	80,472	83,118	29,901	72,105	37,308	53,986	84,845	6,640	0.968	0.928	0.850	0.078	38.1	40.0	22.0	36028
Makindu	41,073	20,191	20,882	7,418	17,425	8,870	14,130	21,997	1,651	0.967	0.867	0.792	0.075	41.7	39.9	18.4	9616
Nguumo	28,135	13,653	14,482	5,352	13,173	6,859	8,696	13,806	1,156	0.943	1.038	0.954	0.084	32.4	41.5	26.0	5738
Kikumbulyu North	20,064	9,885	10,179	3,763	9,321	5,029	6,120	9,936	807	0.971	1.019	0.938	0.081	27.3	41.7	31.1	3787
Kikumbulyu South	25,571	12,681	12,890	4,785	10,849	5,247	8,859	13,795	927	0.984	0.854	0.786	0.067	41.9	37.4	20.7	5862
Nguu/Masumba	23,741	11,809	11,932	4,258	10,819	5,714	7,348	11,819	1,103	0.990	1.009	0.915	0.093	28.9	45.0	26.0	4776
Enali/Muiala	25,006	12,253	12,753	4,325	10,518	5,589	8,833	13,492	996	0.961	0.853	0.780	0.074	47.6	36.1	16.3	6249

Kibwezi East Constituency	130,414	64,651	65,763	25,016	59,258	29,709	40,850	65,583	5,573	0.983	0.989	0.904	0.085	35.2	39.8	25.0	27331
Masongaleni	32,156	15,693	16,463	6,186	15,028	7,597	9,731	15,773	1,355	0.953	1.039	0.953	0.086	31.1	43.0	25.9	6493
Mtito Andei	34,419	17,124	17,295	6,481	15,257	7,651	11,263	17,726	1,436	0.990	0.942	0.861	0.081	39.7	36.6	23.7	7487
Thange	31,641	15,914	15,727	5,920	14,147	7,196	9,953	16,138	1,356	1.012	0.961	0.877	0.084	36.6	39.4	24.0	6789
Ivingoni/Nzambani	32,198	15,920	16,278	6,429	14,826	7,265	9,903	15,946	1,426	0.978	1.019	0.930	0.089	32.7	40.7	26.5	6562

Table 23.2: Employment by County, Constituency and Wards

County Constituency/Wards	Work for pay	Family Business	Family Agri-cultural Holding	Intern/Volunteer	Retired/Home-maker	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
Makueni County	23.2	10.0	22.7	0.9	16.3	20.2	0.8	6.1	445,786
Mbooni Constituency	21.6	8.6	20.7	0.6	19.3	24.3	1.1	4.0	92,964
Tulimani	21.0	7.5	14.1	0.6	26.5	24.1	1.1	5.2	17,584
Mbooni	23.9	9.6	24.5	0.4	14.3	23.6	0.9	3.0	17,423
Kithungo/Kitundu	18.2	11.1	34.6	0.5	7.6	24.7	1.2	2.1	14,009
Kiteta/Kisau	21.9	8.1	15.9	0.6	23.8	23.2	1.2	5.3	18,914
Waia-Kako	24.3	6.2	18.7	0.8	20.7	24.7	0.9	3.8	11,802
Kalawa	20.0	9.0	18.4	0.5	20.6	26.7	1.0	3.8	13,232
Kilome Constituency	24.2	8.6	30.3	0.8	10.3	17.7	0.8	7.4	44,490
Kasikeu	24.4	10.8	27.3	1.0	9.1	18.2	0.7	8.6	19,434
Mukaa	22.9	5.3	35.3	0.5	12.5	16.9	1.1	5.4	13,210
Kiima Kiu/Kalanzeni	25.5	8.5	29.5	0.8	9.8	17.7	0.7	7.7	11,846
Kaiti Constituency	20.6	7.7	26.5	0.7	17.7	19.9	1.0	6.0	59,839
Ukia	20.1	8.7	33.7	0.7	13.9	19.3	1.1	2.6	19,729
Kee	18.7	6.9	23.9	0.9	21.1	21.2	1.2	6.1	10,721
Kilungu	24.1	8.0	15.8	0.6	19.4	20.1	1.1	11.0	16,827
Ilima	18.4	6.7	31.7	0.6	18.4	19.2	0.6	4.4	12,562
Makueni Constituency	22.7	11.3	24.6	0.8	13.6	21.6	0.8	4.7	98,065
Wote	36.9	15.9	13.5	1.1	10.3	16.0	0.5	5.8	14,831
Muvau/Kikumini	20.2	7.6	33.3	0.8	14.8	18.9	0.6	3.9	12,617
Mavindini	17.6	12.5	23.3	0.5	17.3	24.5	0.9	3.5	11,245
Kitise/Kithuki	23.3	8.2	21.4	0.7	17.7	24.5	0.8	3.5	10,749
Kathonzweni	20.9	7.8	16.9	0.7	24.5	22.8	1.0	5.3	15,205
Nzaui/Kilili/Kalamba	18.8	11.0	35.2	0.8	6.8	22.3	0.6	4.6	18,416
Mbitini	20.6	15.2	26.6	0.7	7.2	23.3	1.0	5.5	15,002
Kibwezi West Constituency	26.7	12.1	18.5	1.1	16.5	16.9	0.5	7.8	84,845
Makindu	29.4	13.2	16.9	1.1	14.6	16.6	0.6	7.6	21,997

Nguumo	18.9	13.4	10.4	1.1	24.9	19.3	0.3	11.7	13,806
Kikumbulyu North	22.8	8.4	17.9	0.9	16.9	21.5	0.7	10.9	9,936
Kikumbulyu South	30.5	10.7	15.9	1.7	17.5	14.4	0.7	8.6	13,795
Nguu/Masumba	24.1	10.2	27.4	0.5	20.9	13.8	0.3	2.9	11,819
Emali/Mulala	31.2	15.0	24.8	1.0	5.7	16.7	0.3	5.4	13,492
Kibwezi East Constituency	23.6	10.1	19.4	1.3	18.8	18.2	0.6	8.0	65,583
Masongaleni	24.3	7.6	27.2	0.8	15.9	19.2	0.6	4.4	15,773
Mtito Andei	24.6	10.4	18.4	1.3	20.1	17.6	0.6	7.1	17,726
Thange	24.8	10.0	17.3	2.1	19.8	17.4	0.6	8.0	16,138
Ivingoni/Nzambani	20.7	12.3	14.8	1.0	19.5	18.6	0.7	12.5	15,946

Table 23.3: 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/ Home-maker	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
Makueni	Total	23.2	10.0	22.7	0.9	16.3	20.2	0.8	6.1	445,786
Makueni	None	19.3	8.8	29.6	2.2	27.5	0.9	5.1	6.7	24,441
Makueni	Primary	22.8	10.0	25.1	0.7	18.5	16.1	0.7	6.3	261,224
Makueni	Secondary+	24.6	10.1	17.6	0.9	11.1	29.8	0.3	5.6	160,121
Mbooni Constituency	Total	21.6	8.6	20.7	0.6	19.3	24.3	1.1	4.0	92,964

Mbooni Constituency	None	17.7	6.4	28.8	1.8	33.8	1.2	7.4	2.8	4,706
Mbooni Constituency	Primary	21.7	8.9	23.1	0.4	21.8	19.3	0.9	3.9	53,407
Mbooni Constituency	Secondary+	21.9	8.3	15.9	0.6	13.3	35.3	0.5	4.3	34,851
Tulimani Wards	Total	21.0	7.5	14.1	0.6	26.5	24.1	1.1	5.2	17,584
Tulimani Wards	None	16.4	7.2	16.6	2.5	44.2	1.2	7.8	4.1	679
Tulimani Wards	Primary	21.4	7.5	15.4	0.4	30.1	18.8	1.0	5.5	10,454
Tulimani Wards	Secondary+	20.8	7.4	11.6	0.7	18.9	35.0	0.5	5.0	6,451
Mbooni Wards	Total	23.9	9.6	24.5	0.4	14.3	23.6	0.9	3.0	17,423
Mbooni Wards	None	21.4	7.2	35.0	1.6	24.0	2.2	6.4	2.2	683
Mbooni Wards	Primary	23.1	10.2	28.0	0.3	16.4	18.5	1.0	2.6	9,443
Mbooni Wards	Secondary+	25.1	9.0	18.9	0.3	10.7	32.1	0.3	3.5	7,297
Kithungo/Kitundu Wards	Total	18.2	11.1	34.6	0.5	7.6	24.7	1.2	2.1	14,009
Kithungo/Kitundu Wards	None	16.9	8.3	47.9	1.5	12.6	1.6	8.7	2.3	791
Kithungo/Kitundu Wards	Primary	17.8	12.8	39.1	0.4	8.1	18.9	1.0	1.9	7,976
Kithungo/Kitundu Wards	Secondary+	18.9	8.9	25.7	0.6	6.1	36.9	0.5	2.3	5,242
Kiteta/Kisau Wards	Total	21.9	8.1	15.9	0.6	23.8	23.2	1.2	5.3	18,914
Kiteta/Kisau Wards	None	16.6	4.7	21.7	1.6	41.7	1.4	8.6	3.6	916
Kiteta/Kisau Wards	Primary	22.0	8.1	17.9	0.5	27.6	17.9	1.0	5.0	10,920
Kiteta/Kisau Wards	Secondary+	22.4	8.5	12.1	0.7	15.7	34.2	0.5	6.0	7,078
Waia-Kako Wards	Total	24.3	6.2	18.7	0.8	20.7	24.7	0.9	3.8	11,802
Waia-Kako Wards	None	19.7	5.9	24.9	2.7	39.5	0.6	5.0	1.8	676
Waia-Kako Wards	Primary	25.6	5.8	20.9	0.6	23.4	19.5	0.8	3.5	6,615
Waia-Kako Wards	Secondary+	23.0	6.8	14.6	0.8	14.0	35.9	0.4	4.5	4,511
Kalawa Wards	Total	20.0	9.0	18.4	0.5	20.6	26.7	1.0	3.8	13,232
Kalawa Wards	None	16.4	5.7	26.9	1.4	39.2	0.5	7.3	2.6	961
Kalawa Wards	Primary	20.5	9.3	20.5	0.4	21.9	22.8	0.5	4.0	7,999
Kalawa Wards	Secondary+	19.9	9.1	12.4	0.6	13.8	39.9	0.4	3.8	4,272
Kilome Constituency	Total	24.2	8.6	30.3	0.8	10.3	17.7	0.8	7.4	44,490
Kilome Constituency	None	20.5	9.1	36.6	2.4	18.2	0.8	6.6	5.8	1,678
Kilome Constituency	Primary	24.8	8.4	33.6	0.6	11.7	12.5	0.7	7.7	26,128
Kilome Constituency	Secondary+	23.8	8.7	24.3	0.9	7.4	27.5	0.4	7.0	16,684

Kasikeu Wards	Total	24.4	10.8	27.3	1.0	9.1	18.2	0.7	8.6	19,434
Kasikeu Wards	None	19.8	11.4	36.0	3.2	16.6	0.7	6.1	6.1	752
Kasikeu Wards	Primary	24.4	10.4	31.1	0.7	10.8	13.1	0.5	9.0	11,461
Kasikeu Wards	Secondary+	24.8	11.3	20.4	1.3	5.6	28.2	0.3	8.2	7,221
Mukaa Wards	Total	22.9	5.3	35.3	0.5	12.5	16.9	1.1	5.4	13,210
Mukaa Wards	None	20.9	6.0	36.1	1.4	19.8	1.9	10.1	3.8	368
Mukaa Wards	Primary	23.5	5.2	39.3	0.4	14.0	10.9	1.1	5.7	7,389
Mukaa Wards	Secondary+	22.3	5.4	29.8	0.5	10.1	26.1	0.6	5.2	5,453
Kiima Kiu/Kalanizoni Wards	Total	25.5	8.5	29.5	0.8	9.8	17.7	0.7	7.7	11,846
Kiima Kiu/Kalanizoni Wards	None	21.2	7.9	37.6	2.2	19.2	0.2	5.0	6.8	558
Kiima Kiu/Kalanizoni Wards	Primary	26.7	8.5	31.9	0.7	10.6	13.3	0.5	7.9	7,278
Kiima Kiu/Kalanizoni Wards	Secondary+	23.9	8.5	24.0	0.8	7.0	28.0	0.3	7.4	4,010
Kaiti Constituency	Total	20.6	7.7	26.5	0.7	17.7	19.9	1.0	6.0	59,839
Kaiti Constituency	None	19.0	6.8	32.5	1.7	27.1	1.0	7.2	4.7	2,762
Kaiti Constituency	Primary	20.3	7.9	28.9	0.5	19.8	15.6	0.9	6.0	35,216
Kaiti Constituency	Secondary+	21.3	7.6	21.8	0.8	13.0	29.0	0.4	6.1	21,861
Ukia Wards	Total	20.1	8.7	33.7	0.7	13.9	19.3	1.1	2.6	19,729
Ukia Wards	None	19.0	6.6	40.5	1.9	21.8	1.4	7.2	1.6	1,116
Ukia Wards	Primary	20.1	8.9	36.3	0.5	14.8	16.0	0.9	2.4	11,748
Ukia Wards	Secondary+	20.5	8.7	28.0	0.8	10.9	27.9	0.5	2.9	6,865
Kee Wards	Total	18.7	6.9	23.9	0.9	21.1	21.2	1.2	6.1	10,721
Kee Wards	None	14.3	4.3	32.0	0.9	29.6	1.2	11.9	5.8	328
Kee Wards	Primary	18.5	7.6	26.7	0.8	24.6	15.0	1.2	5.8	5,724
Kee Wards	Secondary+	19.2	6.2	20.0	1.0	16.4	30.3	0.6	6.4	4,669
Kilungu Wards	Total	24.1	8.0	15.8	0.6	19.4	20.1	1.1	11.0	16,827
Kilungu Wards	None	18.1	9.8	21.5	1.8	31.4	0.6	7.3	9.5	713
Kilungu Wards	Primary	24.0	7.7	17.3	0.5	22.5	15.1	1.1	11.9	9,628
Kilungu Wards	Secondary+	24.9	8.2	12.9	0.7	13.4	29.7	0.4	9.9	6,486
Ilima Wards	Total	18.4	6.7	31.7	0.6	18.4	19.2	0.6	4.4	12,562
Ilima Wards	None	22.5	4.8	31.1	1.7	30.4	0.7	4.6	4.3	605
Ilima Wards	Primary	17.7	7.0	33.5	0.4	20.5	16.3	0.4	4.3	8,116

Ilima Wards	Secondary+	19.2	6.5	28.1	0.9	12.0	28.3	0.2	4.8	3,841
Makueni Constituency	Total	22.7	11.3	24.6	0.8	13.6	21.6	0.8	4.7	98,065
Makueni Constituency	None	16.8	10.5	35.7	2.0	24.0	1.0	5.3	4.7	4,919
Makueni Constituency	Primary	21.4	11.4	28.3	0.6	15.7	17.3	0.7	4.6	54,749
Makueni Constituency	Secondary+	25.2	11.3	17.9	0.8	9.2	30.4	0.3	4.9	38,397
Wote Wards	Total	36.9	15.9	13.5	1.1	10.3	16.0	0.5	5.8	14,831
Wote Wards	None	22.1	14.1	26.2	3.8	17.7	2.2	4.2	9.7	497
Wote Wards	Primary	34.3	16.0	18.3	0.8	12.8	12.0	0.6	5.3	6,381
Wote Wards	Secondary+	40.0	16.0	8.8	1.2	7.9	20.0	0.2	5.9	7,953
Muvau/Kikumini Wards	Total	20.2	7.6	33.3	0.8	14.8	18.9	0.6	3.9	12,617
Muvau/Kikumini Wards	None	18.0	4.6	44.4	1.6	23.4	1.1	4.1	3.0	568
Muvau/Kikumini Wards	Primary	19.4	7.7	35.3	0.6	16.7	16.3	0.6	3.3	7,219
Muvau/Kikumini Wards	Secondary+	21.6	7.7	29.0	0.9	10.8	24.9	0.2	4.8	4,830
Mavindini Wards	Total	17.6	12.5	23.3	0.5	17.3	24.5	0.9	3.5	11,245
Mavindini Wards	None	13.2	11.6	29.5	1.9	33.1	1.4	5.7	3.8	584
Mavindini Wards	Primary	16.8	12.7	25.3	0.4	19.7	20.8	0.8	3.5	6,994
Mavindini Wards	Secondary+	19.6	12.1	18.6	0.5	10.2	35.3	0.3	3.3	3,667
Kitise/Kithuki Wards	Total	23.3	8.2	21.4	0.7	17.7	24.5	0.8	3.5	10,749
Kitise/Kithuki Wards	None	20.8	6.8	27.5	1.8	32.3	1.3	4.4	5.2	619
Kitise/Kithuki Wards	Primary	23.5	8.3	23.1	0.6	20.0	20.3	0.8	3.5	6,577
Kitise/Kithuki Wards	Secondary+	23.2	8.2	17.1	0.8	10.9	36.4	0.2	3.2	3,553
Kathonzweni Wards	Total	20.9	7.8	16.9	0.7	24.5	22.8	1.0	5.3	15,205
Kathonzweni Wards	None	13.4	6.6	23.3	1.8	41.2	0.8	7.4	5.7	794
Kathonzweni Wards	Primary	21.0	7.6	18.9	0.7	28.3	17.0	0.8	5.9	8,349
Kathonzweni Wards	Secondary+	21.9	8.4	13.3	0.6	17.2	33.7	0.5	4.5	6,062
Nzau/Kilili/Kalamba Wards	Total	18.8	11.0	35.2	0.8	6.8	22.3	0.6	4.6	18,416
Nzau/Kilili/Kalamba Wards	None	14.2	10.9	53.8	2.0	12.4	0.4	2.9	3.4	1,223
Nzau/Kilili/Kalamba Wards	Primary	17.9	11.6	39.1	0.7	7.4	17.8	0.5	4.8	11,091
Nzau/Kilili/Kalamba Wards	Secondary+	21.3	9.9	24.2	0.7	4.4	34.7	0.2	4.7	6,102
Mbitini Wards	Total	20.6	15.2	26.6	0.7	7.2	23.3	1.0	5.5	15,002
Mbitini Wards	None	20.7	19.6	29.7	1.7	13.7	1.0	9.8	3.9	634

Mbitini Wards	Primary	20.4	16.2	31.7	0.6	8.3	16.8	0.8	5.3	8,138
Mbitini Wards	Secondary+	20.9	13.4	19.5	0.6	5.0	34.2	0.4	6.0	6,230
Kibwezi West Constituency	Total	26.7	12.1	18.5	1.1	16.5	16.9	0.5	7.8	84,845
Kibwezi West Constituency	None	21.3	10.4	24.8	2.5	26.1	0.8	3.0	11.2	5,936
Kibwezi West Constituency	Primary	26.0	11.9	20.1	0.9	18.5	14.1	0.4	8.2	50,116
Kibwezi West Constituency	Secondary+	28.9	12.9	14.4	1.1	10.9	25.2	0.2	6.4	28,793
Makindu Wards	Total	29.4	13.2	16.9	1.1	14.6	16.6	0.6	7.6	21,997
Makindu Wards	None	25.4	11.5	23.0	3.3	25.3	0.5	3.3	7.8	1,291
Makindu Wards	Primary	28.4	13.1	19.0	0.7	17.0	13.8	0.5	7.5	12,881
Makindu Wards	Secondary+	31.9	13.7	12.4	1.3	9.0	23.9	0.2	7.6	7,825
Nguumo Wards	Total	18.9	13.4	10.4	1.1	24.9	19.3	0.3	11.7	13,806
Nguumo Wards	None	17.4	13.1	13.3	2.1	33.3	0.5	1.6	18.8	1,111
Nguumo Wards	Primary	17.6	13.9	11.5	1.0	27.0	17.4	0.3	11.5	8,887
Nguumo Wards	Secondary+	22.4	12.3	7.0	1.1	17.5	29.3	0.2	10.3	3,808
Kikumbulyu North Wards	Total	22.8	8.4	17.9	0.9	16.9	21.5	0.7	10.9	9,936
Kikumbulyu North Wards	None	18.0	8.3	26.6	2.1	25.5	1.0	3.4	15.3	1,042
Kikumbulyu North Wards	Primary	23.5	7.7	18.5	0.7	18.7	18.8	0.5	11.8	6,142
Kikumbulyu North Wards	Secondary+	23.2	9.9	13.3	0.9	9.8	35.4	0.3	7.3	2,752
Kikumbulyu South Wards	Total	30.5	10.7	15.9	1.7	17.5	14.4	0.7	8.6	13,795
Kikumbulyu South Wards	None	24.7	8.5	23.0	2.4	24.8	1.4	4.0	11.2	1,289
Kikumbulyu South Wards	Primary	28.9	9.4	17.5	1.7	20.1	12.6	0.4	9.5	8,270
Kikumbulyu South Wards	Secondary+	35.5	14.0	10.7	1.6	10.2	21.9	0.3	6.0	4,236
Nguu/Masumba Wards	Total	24.1	10.2	27.4	0.5	20.9	13.8	0.3	2.9	11,819
Nguu/Masumba Wards	None	19.4	8.5	33.9	1.6	29.1	0.3	2.3	4.8	684
Nguu/Masumba Wards	Primary	25.5	11.3	29.2	0.4	20.5	10.1	0.2	2.7	6,854
Nguu/Masumba Wards	Secondary+	22.5	8.7	23.5	0.3	20.1	21.9	0.2	2.8	4,281
Emali/Mulala Wards	Total	31.2	15.0	24.8	1.0	5.7	16.7	0.3	5.4	13,492
Emali/Mulala Wards	None	20.6	13.9	42.0	3.1	13.3	1.0	2.7	3.5	519
Emali/Mulala Wards	Primary	31.3	14.1	28.9	0.8	7.0	11.7	0.3	6.0	7,082
Emali/Mulala Wards	Secondary+	31.9	16.1	18.3	1.0	3.5	24.1	0.1	4.9	5,891
Kibwezi East Constituency	Total	23.6	10.1	19.4	1.3	18.8	18.2	0.6	8.0	65,583

Kibwezi East Constituency	None	20.5	8.5	25.5	2.9	30.2	0.6	3.1	8.7	4,440
Kibwezi East Constituency	Primary	22.9	9.9	20.9	1.1	20.9	15.3	0.5	8.5	41,608
Kibwezi East Constituency	Secondary+	25.9	10.8	14.6	1.4	12.0	28.3	0.3	6.7	19,535
Masongaleni Wards	Total	24.3	7.6	27.2	0.8	15.9	19.2	0.6	4.4	15,773
Masongaleni Wards	None	21.5	5.1	32.7	1.9	27.1	0.7	3.6	7.4	1,162
Masongaleni Wards	Primary	25.5	7.7	28.6	0.7	16.7	16.1	0.4	4.4	10,554
Masongaleni Wards	Secondary+	22.0	8.2	22.1	0.7	10.6	32.4	0.2	3.8	4,057
Mtito Andei Wards	Total	24.6	10.4	18.4	1.3	20.1	17.6	0.6	7.1	17,726
Mtito Andei Wards	None	19.5	7.9	23.6	2.5	34.8	0.5	3.4	7.9	1,134
Mtito Andei Wards	Primary	21.8	9.5	20.9	1.1	22.4	16.1	0.6	7.7	11,092
Mtito Andei Wards	Secondary+	31.2	12.6	12.2	1.6	12.2	24.1	0.2	5.9	5,500
Thange Wards	Total	24.8	10.0	17.3	2.1	19.8	17.4	0.6	8.0	16,138
Thange Wards	None	23.0	7.2	25.0	5.1	28.8	0.9	2.0	8.2	1,161
Thange Wards	Primary	24.2	10.3	18.1	1.9	22.3	14.1	0.5	8.8	9,969
Thange Wards	Secondary+	26.5	10.3	13.9	2.0	12.7	27.8	0.4	6.5	5,008
Ivingoni/Nzambani Wards	Total	20.7	12.3	14.8	1.0	19.5	18.6	0.7	12.5	15,946
Ivingoni/Nzambani Wards	None	17.5	15.0	19.6	1.8	30.2	0.4	3.7	11.8	983
Ivingoni/Nzambani Wards	Primary	20.0	12.5	15.7	0.8	22.1	14.7	0.6	13.7	9,993
Ivingoni/Nzambani Wards	Secondary+	22.6	11.3	11.9	1.2	12.2	30.2	0.3	10.2	4,970

Table 23.4: 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 Agri-cultural holding	Internal/ Volunteer	Retired/ Home-maker	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
Makueni	Total	25.8	10.6	22.9	0.8	15.1	17.9	0.7	6.2	284,872
Makueni	None	21.1	8.6	29.7	2.0	25.6	0.9	4.7	7.4	13,138
Makueni	Primary	24.8	10.6	25.4	0.7	17.4	14.1	0.6	6.5	167,770
Makueni	Secondary+	28.0	10.9	17.9	0.9	10.0	26.3	0.3	5.7	103,964
Mbooni Constituency	Total	24.2	9.2	21.5	0.6	17.4	22.0	1.0	4.1	57,268
Mbooni Constituency	None	19.7	6.0	29.5	1.8	30.9	1.3	7.6	3.1	2,481
Mbooni Constituency	Primary	24.0	9.6	24.3	0.4	20.0	16.8	0.9	4.0	32,805
Mbooni Constituency	Secondary+	25.1	8.9	16.4	0.7	11.9	32.1	0.5	4.4	21,982
Tulimani Ward	Total	24.7	7.9	14.9	0.7	23.6	21.2	1.0	6.0	10,227
Tulimani Ward	None	18.8	7.7	16.9	3.7	37.5	1.8	8.9	4.6	325
Tulimani Ward	Primary	24.8	7.6	16.5	0.5	27.2	16.2	0.9	6.3	6,108
Tulimani Ward	Secondary+	25.0	8.3	12.1	0.7	16.7	31.0	0.5	5.6	3,794
Mbooni Ward	Total	25.8	10.1	25.1	0.4	13.5	21.3	0.8	3.0	11,594
Mbooni Ward	None	20.8	6.3	39.5	1.6	21.1	2.9	5.0	2.9	380
Mbooni Ward	Primary	24.5	10.8	28.6	0.3	15.9	16.2	1.0	2.7	6,244
Mbooni Ward	Secondary+	27.8	9.6	19.5	0.4	9.8	29.1	0.3	3.5	4,970
Kithungo/Kitundu Ward	Total	20.0	11.5	35.4	0.5	6.6	22.7	1.2	2.0	9,191
Kithungo/Kitundu Ward	None	16.4	6.2	50.4	1.6	11.6	1.6	9.6	2.7	450
Kithungo/Kitundu Ward	Primary	18.9	13.6	40.1	0.4	7.3	17.1	0.9	1.7	5,268
Kithungo/Kitundu Ward	Secondary+	22.3	8.9	26.5	0.7	5.0	33.8	0.5	2.4	3,473
Kiteta/Kisau Ward	Total	24.4	9.0	16.5	0.6	21.5	21.8	1.1	5.1	11,314
Kiteta/Kisau Ward	None	18.9	4.9	19.6	1.6	40.9	1.1	9.6	3.6	450
Kiteta/Kisau Ward	Primary	24.6	9.0	19.3	0.4	25.8	15.2	0.9	4.7	6,351
Kiteta/Kisau Ward	Secondary+	24.8	9.3	12.3	0.8	13.5	33.1	0.5	5.8	4,513
Waia-Kako Ward	Total	27.8	6.4	18.4	0.9	19.7	21.7	1.0	4.1	6,981
Waia-Kako Ward	None	24.9	6.3	24.0	2.0	36.0	0.3	5.4	1.1	350
Waia-Kako Ward	Primary	28.6	5.7	21.1	0.7	22.0	17.2	0.9	4.0	3,994

Waia-Kako Ward	Secondary+	27.1	7.5	13.5	1.1	14.1	31.3	0.6	4.7	2,637
Kalawa Ward	Total	22.7	9.7	18.5	0.5	19.5	23.8	0.9	4.4	7,961
Kalawa Ward	None	19.6	5.3	24.1	1.1	38.6	0.6	6.8	3.8	526
Kalawa Ward	Primary	23.0	10.3	20.8	0.4	20.7	19.5	0.5	4.7	4,840
Kalawa Ward	Secondary+	22.6	9.4	13.1	0.5	13.4	36.5	0.5	4.0	2,595
Kilome Constituency	Total	27.5	8.9	29.7	0.7	9.5	15.4	0.6	7.7	28,171
Kilome Constituency	None	23.4	10.5	33.9	1.6	18.2	0.4	5.5	6.6	895
Kilome Constituency	Primary	27.5	8.6	33.0	0.6	10.8	10.9	0.6	8.0	16,594
Kilome Constituency	Secondary+	27.7	9.2	24.2	1.0	6.8	23.5	0.3	7.2	10,682
Kasikeu Ward	Total	27.1	11.1	26.3	1.0	8.8	16.1	0.6	9.0	12,421
Kasikeu Ward	None	21.1	12.6	33.8	2.3	16.5	-	6.7	7.0	388
Kasikeu Ward	Primary	26.6	10.6	29.8	0.6	10.6	11.6	0.5	9.6	7,318
Kasikeu Ward	Secondary+	28.6	11.6	20.1	1.5	5.5	24.4	0.2	8.2	4,715
Mukaa Ward	Total	25.6	5.8	35.2	0.4	11.7	14.6	0.8	5.9	8,204
Mukaa Ward	None	22.8	6.7	37.3	0.5	20.2	2.1	6.7	3.6	193
Mukaa Ward	Primary	25.2	5.4	39.3	0.3	13.1	9.7	0.8	6.2	4,634
Mukaa Ward	Secondary+	26.2	6.3	29.6	0.4	9.3	22.2	0.4	5.5	3,377
Kiima Kiu/Kalanzeni Ward	Total	30.0	8.7	29.3	0.8	8.2	15.0	0.5	7.5	7,546
Kiima Kiu/Kalanzeni Ward	None	26.4	10.2	31.8	1.3	19.1	-	3.2	8.0	314
Kiima Kiu/Kalanzeni Ward	Primary	31.3	8.6	31.8	0.6	8.8	11.2	0.4	7.3	4,642
Kiima Kiu/Kalanzeni Ward	Secondary+	28.2	8.7	24.6	0.9	5.9	23.6	0.3	7.7	2,590
Kaiti Constituency	Total	23.0	8.5	27.5	0.6	16.1	17.6	0.9	5.8	36,683
Kaiti Constituency	None	21.0	7.3	33.5	1.5	24.5	1.2	6.7	4.3	1,432
Kaiti Constituency	Primary	22.3	8.6	29.9	0.5	18.2	13.8	0.8	5.9	21,617
Kaiti Constituency	Secondary+	24.2	8.5	23.0	0.8	11.8	25.4	0.5	5.8	13,634
Ukia Ward	Total	21.5	9.4	34.4	0.6	13.0	17.7	1.0	2.4	12,504
Ukia Ward	None	22.0	6.7	39.5	2.2	19.6	1.8	6.8	1.4	555
Ukia Ward	Primary	21.1	9.4	36.9	0.4	14.3	14.7	0.9	2.2	7,431
Ukia Ward	Secondary+	22.1	9.6	29.7	0.7	10.1	24.5	0.6	2.7	4,518
Kee Ward	Total	21.4	7.9	25.3	0.9	19.1	18.1	1.2	6.1	6,374
Kee Ward	None	14.7	5.8	34.0	1.6	27.7	1.0	10.5	4.7	191

Kee Ward	Primary	20.3	8.6	28.3	0.8	22.3	12.5	1.1	6.2	3,433
Kee Ward	Secondary+	23.2	7.2	21.1	1.1	14.5	26.3	0.7	6.0	2,750
Kilungu Ward	Total	27.0	8.6	16.7	0.6	17.7	17.5	1.0	10.9	10,054
Kilungu Ward	None	19.6	11.0	25.4	0.8	28.7	0.6	6.6	7.2	362
Kilungu Ward	Primary	26.8	8.0	18.1	0.5	20.8	12.7	1.1	12.1	5,722
Kilungu Ward	Secondary+	28.0	9.1	13.9	0.8	12.2	26.0	0.4	9.5	3,970
Ilima Ward	Total	21.4	7.4	32.1	0.6	16.4	17.2	0.5	4.3	7,751
Ilima Ward	None	24.7	4.9	32.1	1.2	26.2	0.9	4.3	5.6	324
Ilima Ward	Primary	20.5	7.9	34.2	0.4	18.3	14.4	0.4	3.9	5,031
Ilima Ward	Secondary+	23.0	6.8	27.6	0.8	11.2	25.3	0.2	5.2	2,396
Makueni Constituency	Total	24.5	11.8	25.0	0.8	12.8	19.7	0.7	4.8	64,582
Makueni Constituency	None	17.9	10.0	36.2	1.8	23.1	1.0	4.6	5.4	2,716
Makueni Constituency	Primary	22.8	11.9	28.8	0.6	15.0	15.6	0.7	4.6	36,315
Makueni Constituency	Secondary+	27.7	11.9	18.4	0.8	8.5	27.4	0.3	5.0	25,551
Wote Ward	Total	37.1	16.0	14.2	1.1	10.5	15.4	0.4	5.3	10,416
Wote Ward	None	26.2	13.9	23.8	3.0	17.5	1.7	4.0	9.9	302
Wote Ward	Primary	34.5	15.9	18.8	0.8	12.9	12.0	0.5	4.6	4,592
Wote Ward	Secondary+	39.9	16.2	9.9	1.2	8.1	19.0	0.2	5.7	5,522
Muvau/Kikumini Ward	Total	22.2	8.1	32.7	0.7	14.0	18.0	0.5	3.8	8,882
Muvau/Kikumini Ward	None	18.3	5.0	42.6	1.8	23.1	1.5	3.8	3.8	338
Muvau/Kikumini Ward	Primary	21.0	8.2	35.2	0.5	16.3	15.4	0.4	3.1	5,088
Muvau/Kikumini Ward	Secondary+	24.5	8.4	28.0	0.9	9.8	23.5	0.2	4.7	3,456
Mavindini Ward	Total	19.5	13.6	24.0	0.5	15.7	22.1	0.8	3.8	7,045
Mavindini Ward	None	13.0	9.9	31.0	1.9	33.7	1.9	4.3	4.3	323
Mavindini Ward	Primary	18.3	14.0	26.2	0.4	18.2	18.3	0.9	3.8	4,423
Mavindini Ward	Secondary+	22.7	13.4	19.0	0.4	8.4	32.2	0.2	3.7	2,299
Kitise/Kithuki Ward	Total	25.6	9.0	21.2	0.8	16.6	22.3	0.7	3.8	6,579
Kitise/Kithuki Ward	None	22.2	6.1	28.9	1.2	30.1	0.9	4.3	6.4	329
Kitise/Kithuki Ward	Primary	25.4	9.4	23.0	0.6	19.6	17.6	0.7	3.8	4,045
Kitise/Kithuki Ward	Secondary+	26.5	8.5	16.8	1.0	9.2	34.2	0.3	3.5	2,205
Kathonzweni Ward	Total	23.4	8.5	17.2	0.7	23.4	20.0	1.0	5.8	9,566

Kathonzweni Ward	None	16.2	7.3	23.2	1.4	39.1	0.5	6.1	6.3	427
Kathonzweni Ward	Primary	22.4	8.1	19.0	0.7	27.0	15.6	0.8	6.4	5,342
Kathonzweni Ward	Secondary+	25.6	9.3	14.1	0.6	16.5	28.4	0.6	4.9	3,797
Nzau/Kilili/Kalamba Ward	Total	20.2	11.7	35.2	0.9	6.6	20.2	0.5	4.6	12,242
Nzau/Kilili/Kalamba Ward	None	14.2	10.4	54.9	2.1	12.1	0.6	2.6	3.2	663
Nzau/Kilili/Kalamba Ward	Primary	19.1	12.2	39.3	0.8	7.3	15.9	0.6	4.8	7,496
Nzau/Kilili/Kalamba Ward	Secondary+	23.2	11.1	24.5	0.7	4.5	31.3	0.1	4.5	4,083
Mbitini Ward	Total	22.5	14.8	27.5	0.6	6.7	21.1	0.9	5.9	9,852
Mbitini Ward	None	20.1	18.0	32.9	1.5	12.6	0.6	8.4	6.0	334
Mbitini Ward	Primary	21.6	15.7	32.8	0.6	8.1	14.8	0.8	5.5	5,329
Mbitini Ward	Secondary+	23.8	13.3	20.3	0.6	4.5	30.7	0.4	6.4	4,189
Kibwezi West Constituency	Total	29.2	12.7	18.5	1.0	15.6	14.6	0.4	7.9	55,875
Kibwezi West Constituency	None	23.8	9.3	24.6	2.3	24.6	0.7	2.7	11.9	3,272
Kibwezi West Constituency	Primary	27.7	12.3	20.3	0.9	18.0	12.1	0.3	8.3	33,381
Kibwezi West Constituency	Secondary+	32.7	13.8	14.4	1.1	10.0	21.4	0.2	6.4	19,222
Makindu Ward	Total	31.6	13.7	17.2	1.1	13.8	14.3	0.4	7.8	14,563
Makindu Ward	None	28.6	10.5	22.7	3.6	23.0	0.4	2.8	8.4	688
Makindu Ward	Primary	29.7	13.5	19.4	0.7	16.4	12.1	0.3	7.8	8,633
Makindu Ward	Secondary+	35.1	14.5	12.9	1.4	8.3	19.8	0.2	7.8	5,242
Nguumo Ward	Total	21.6	13.9	10.5	1.1	23.6	17.0	0.3	11.9	8,915
Nguumo Ward	None	19.4	11.3	12.6	2.4	34.0	0.2	1.1	18.9	618
Nguumo Ward	Primary	20.0	14.5	11.7	1.0	25.7	15.2	0.3	11.7	5,818
Nguumo Ward	Secondary+	26.0	13.3	7.2	0.9	16.1	25.6	0.2	10.6	2,479
Kikumbulyu North Ward	Total	25.6	8.8	17.3	0.9	16.1	19.4	0.6	11.4	6,307
Kikumbulyu North Ward	None	20.3	7.4	25.3	1.5	24.3	1.2	2.9	17.0	581
Kikumbulyu North Ward	Primary	25.4	8.3	18.2	0.6	18.1	16.5	0.4	12.4	3,968
Kikumbulyu North Ward	Secondary+	27.8	10.2	12.5	1.2	8.9	31.9	0.2	7.3	1,758
Kikumbulyu South Ward	Total	32.5	11.2	16.1	1.7	16.6	13.0	0.7	8.2	9,432
Kikumbulyu South Ward	None	26.4	8.4	23.8	1.8	22.6	1.2	4.1	11.8	736
Kikumbulyu South Ward	Primary	30.3	9.7	18.0	1.7	19.5	11.2	0.5	9.1	5,704
Kikumbulyu South Ward	Secondary+	38.3	14.6	10.6	1.8	9.5	19.3	0.3	5.6	2,992

Nguu/Masumba Ward	Total	26.3	11.1	27.8	0.5	19.4	11.6	0.3	2.9	7,770
Nguu/Masumba Ward	None	23.6	6.0	35.9	1.1	25.5	0.3	1.9	5.8	365
Nguu/Masumba Ward	Primary	26.4	12.4	29.4	0.4	19.7	8.5	0.2	2.9	4,603
Nguu/Masumba Ward	Secondary+	26.5	9.7	24.1	0.4	18.3	18.2	0.2	2.5	2,802
Emali/Mulala Ward	Total	34.5	15.5	23.9	0.9	6.0	13.7	0.3	5.3	8,888
Emali/Mulala Ward	None	22.9	12.0	41.9	3.2	13.4	0.7	3.2	2.8	284
Emali/Mulala Ward	Primary	33.6	14.1	28.1	0.6	8.0	9.4	0.3	5.8	4,655
Emali/Mulala Ward	Secondary+	36.3	17.4	17.5	0.9	3.2	19.8	0.1	4.8	3,949
Kibwezi East Constituency	Total	26.5	11.1	18.6	1.3	17.5	16.1	0.5	8.5	42,293
Kibwezi East Constituency	None	21.7	8.9	25.7	2.5	27.7	0.6	2.7	10.2	2,342
Kibwezi East Constituency	Primary	25.0	10.9	20.2	1.0	19.9	13.3	0.4	9.1	27,058
Kibwezi East Constituency	Secondary+	30.4	11.8	13.9	1.5	10.6	24.6	0.3	6.9	12,893
Masongaleni Ward	Total	27.5	8.7	25.7	0.7	14.9	17.0	0.5	5.0	9,830
Masongaleni Ward	None	23.7	5.9	31.2	1.6	24.1	0.5	3.5	9.7	632
Masongaleni Ward	Primary	28.2	8.7	26.8	0.5	16.3	14.3	0.4	4.8	6,610
Masongaleni Ward	Secondary+	26.5	9.3	21.7	0.9	9.2	28.0	0.1	4.4	2,588
Mtito Andei Ward	Total	28.1	11.2	17.8	1.4	18.2	15.3	0.5	7.6	11,451
Mtito Andei Ward	None	20.4	8.3	24.3	2.5	32.0	0.5	1.7	10.3	593
Mtito Andei Ward	Primary	24.3	10.3	20.5	1.1	21.2	13.8	0.5	8.3	7,147
Mtito Andei Ward	Secondary+	36.5	13.5	11.5	1.7	10.2	20.5	0.2	5.9	3,711
Thange Ward	Total	27.9	10.8	16.6	2.1	18.7	15.5	0.4	8.0	10,487
Thange Ward	None	22.4	6.7	27.0	4.1	27.9	0.8	1.6	9.5	612
Thange Ward	Primary	26.6	10.9	17.7	1.9	21.3	12.5	0.4	8.8	6,589
Thange Ward	Secondary+	31.5	11.3	12.2	2.1	11.9	24.4	0.3	6.2	3,286
Ivingoni/Nzambani Ward	Total	22.4	13.4	14.9	0.9	18.0	16.6	0.6	13.2	10,525
Ivingoni/Nzambani Ward	None	20.0	16.0	19.0	1.6	26.7	0.6	4.4	11.7	505
Ivingoni/Nzambani Ward	Primary	21.1	13.7	15.9	0.7	20.8	12.8	0.4	14.6	6,712
Ivingoni/Nzambani Ward	Secondary+	25.6	12.3	12.2	1.2	10.9	26.8	0.3	10.7	3,308

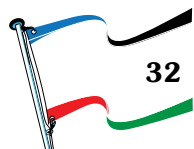
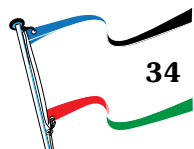


Table 23.5: Employment and Education Levels in Female Headed Households by County, Constituency and Wards

County, Constituency and Wards	Education Level reached	Work for Pay	Family Business	Family Agri-cultural 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
Makueni	Total	18.7%	8.7%	22.3%	.9%	18.5%	24.3%	1.0%	5.7%	161277
Makueni	None	17.1%	9.1%	29.3%	2.5%	29.6%	1.0%	5.5%	5.9%	11314
Makueni	Primary	19.2%	8.8%	24.6%	.7%	20.4%	19.7%	.8%	5.9%	93530
Makueni	Secondary+	18.2%	8.6%	17.1%	.8%	13.0%	36.5%	.3%	5.5%	56433
Mbooni Constituency	Total	17.2%	7.5%	19.2%	.5%	22.1%	28.6%	1.1%	3.7%	35938
Mbooni Constituency	None	15.5%	6.9%	28.0%	1.9%	36.8%	1.3%	7.2%	2.4%	2237
Mbooni Constituency	Primary	18.0%	7.9%	21.2%	.4%	24.8%	23.3%	.9%	3.6%	20597
Mbooni Constituency	Secondary+	16.2%	7.1%	14.7%	.5%	15.5%	41.6%	.4%	4.1%	13104
Tulimani Ward	Total	15.8%	6.9%	12.9%	.5%	30.5%	28.0%	1.1%	4.2%	7352
Tulimani Ward	None	14.1%	6.8%	16.4%	1.4%	50.3%	.6%	6.8%	3.7%	354
Tulimani Ward	Primary	16.6%	7.3%	13.8%	.3%	34.1%	22.5%	1.0%	4.4%	4342
Tulimani Ward	Secondary+	14.9%	6.2%	11.0%	.6%	22.0%	40.7%	.6%	4.1%	2656
Mbooni Ward	Total	20.0%	8.4%	23.2%	.3%	15.9%	28.4%	1.0%	2.7%	5856
Mbooni Ward	None	22.1%	8.3%	29.4%	1.7%	27.7%	1.3%	8.3%	1.3%	303
Mbooni Ward	Primary	20.4%	9.0%	26.8%	.3%	17.4%	22.9%	.9%	2.4%	3199
Mbooni Ward	Secondary+	19.1%	7.6%	17.5%	.2%	12.4%	39.4%	.3%	3.4%	2354
Kithungo/Kitundu Ward	Total	14.6%	10.3%	33.0%	.5%	9.5%	28.5%	1.3%	2.2%	4825
Kithungo/Kitundu Ward	None	17.6%	11.1%	44.6%	1.5%	14.1%	1.8%	7.6%	1.8%	341
Kithungo/Kitundu Ward	Primary	15.6%	11.1%	37.2%	.5%	9.7%	22.5%	1.1%	2.3%	2709
Kithungo/Kitundu Ward	Secondary+	12.6%	9.0%	24.2%	.4%	8.3%	42.9%	.4%	2.2%	1775
Kiteta/Kisau Ward	Total	17.6%	6.6%	14.6%	.7%	26.6%	27.2%	1.3%	5.4%	7813
Kiteta/Kisau Ward	None	14.4%	4.8%	23.4%	2.1%	41.4%	2.7%	7.5%	3.6%	478
Kiteta/Kisau Ward	Primary	18.4%	6.8%	16.0%	.6%	30.2%	21.5%	1.1%	5.3%	4567
Kiteta/Kisau Ward	Secondary+	16.8%	6.5%	10.7%	.6%	18.2%	40.9%	.5%	5.9%	2768
Waia-Kako Ward	Total	19.1%	5.8%	19.2%	.7%	22.2%	29.1%	.7%	3.3%	4821

Waia-Kako Ward	None	14.1%	5.5%	25.8%	3.4%	43.3%	.9%	4.6%	2.5%	326
Waia-Kako Ward	Primary	21.1%	5.9%	20.6%	.6%	25.6%	23.1%	.5%	2.7%	2621
Waia-Kako Ward	Secondary+	17.2%	5.7%	16.1%	.4%	13.8%	42.3%	.2%	4.3%	1874
Kalawa Ward	Total	16.0%	8.0%	18.1%	.5%	22.2%	31.1%	1.1%	2.9%	5271
Kalawa Ward	None	12.6%	6.2%	30.1%	1.6%	40.0%	.5%	7.8%	1.1%	435
Kalawa Ward	Primary	16.6%	7.8%	20.1%	.3%	23.8%	27.9%	.6%	2.9%	3159
Kalawa Ward	Secondary+	15.7%	8.7%	11.4%	.6%	14.5%	45.3%	.4%	3.5%	1677
Kilome Constituency	Total	18.6%	7.9%	31.2%	.9%	11.7%	21.6%	1.1%	6.9%	16312
Kilome Constituency	None	17.3%	7.4%	39.6%	3.5%	18.2%	1.2%	7.9%	5.0%	781
Kilome Constituency	Primary	20.0%	8.1%	34.8%	.7%	13.1%	15.2%	.9%	7.2%	9530
Kilome Constituency	Secondary+	16.7%	7.7%	24.6%	.8%	8.5%	34.5%	.5%	6.7%	6001
Kasikeu Ward	Total	19.4%	10.3%	29.2%	1.1%	9.6%	21.9%	.8%	7.9%	7005
Kasikeu Ward	None	18.5%	10.2%	38.1%	4.1%	16.9%	1.4%	5.5%	5.2%	362
Kasikeu Ward	Primary	20.5%	10.1%	33.4%	.9%	11.1%	15.5%	.6%	7.9%	4139
Kasikeu Ward	Secondary+	17.7%	10.7%	20.9%	.9%	5.9%	35.3%	.4%	8.3%	2504
Mukaa Ward	Total	18.6%	4.6%	35.3%	.7%	13.9%	20.7%	1.6%	4.8%	5007
Mukaa Ward	None	18.9%	5.1%	34.9%	2.3%	19.4%	1.7%	13.7%	4.0%	175
Mukaa Ward	Primary	20.5%	5.0%	39.2%	.5%	15.5%	13.0%	1.5%	4.8%	2755
Mukaa Ward	Secondary+	16.0%	3.9%	30.0%	.7%	11.3%	32.5%	.9%	4.8%	2077
Kiima Kiu/Kalanzoni Ward	Total	17.5%	8.1%	29.9%	.8%	12.5%	22.3%	.9%	8.0%	4300
Kiima Kiu/Kalanzoni Ward	None	14.3%	4.9%	45.1%	3.3%	19.3%	.4%	7.4%	5.3%	244
Kiima Kiu/Kalanzoni Ward	Primary	18.6%	8.3%	32.1%	.7%	13.7%	17.0%	.7%	8.8%	2636
Kiima Kiu/Kalanzoni Ward	Secondary+	16.0%	8.1%	23.0%	.6%	9.1%	36.1%	.2%	6.9%	1420
Kaiti Constituency	Total	16.9%	6.5%	24.8%	.8%	20.1%	23.4%	1.2%	6.3%	23155
Kaiti Constituency	None	16.8%	6.2%	31.4%	1.9%	29.8%	.8%	7.7%	5.3%	1330
Kaiti Constituency	Primary	17.2%	6.8%	27.2%	.6%	22.3%	18.6%	1.0%	6.2%	13600
Kaiti Constituency	Secondary+	16.4%	6.2%	19.9%	.8%	15.0%	34.9%	.4%	6.5%	8225
Ukia Ward	Total	17.8%	7.5%	32.3%	.8%	15.3%	22.1%	1.3%	2.9%	7223
Ukia Ward	None	16.0%	6.6%	41.5%	1.6%	23.9%	1.1%	7.5%	1.8%	561
Ukia Ward	Primary	18.3%	7.9%	35.3%	.7%	15.8%	18.2%	1.1%	2.8%	4317
Ukia Ward	Secondary+	17.3%	6.9%	24.6%	.9%	12.3%	34.4%	.3%	3.3%	2345
Kee Ward	Total	14.8%	5.3%	21.9%	.9%	24.1%	25.8%	1.3%	6.0%	4347
Kee Ward	None	13.9%	2.2%	29.2%	0.0%	32.1%	1.5%	13.9%	7.3%	137
Kee Ward	Primary	15.8%	6.0%	24.3%	.9%	27.8%	18.7%	1.3%	5.2%	2291
Kee Ward	Secondary+	13.5%	4.7%	18.4%	.9%	19.0%	36.0%	.4%	7.0%	1919
Kilungu Ward	Total	19.8%	7.0%	14.3%	.7%	21.8%	23.9%	1.2%	11.2%	6774
Kilungu Ward	None	16.5%	8.5%	17.4%	2.8%	34.2%	.6%	8.0%	12.0%	351
Kilungu Ward	Primary	20.0%	7.1%	16.0%	.6%	24.9%	18.6%	1.2%	11.6%	3907
Kilungu Ward	Secondary+	20.0%	6.6%	11.3%	.5%	15.3%	35.5%	.4%	10.4%	2516
Ilima Ward	Total	13.4%	5.5%	31.1%	.7%	21.5%	22.4%	.7%	4.6%	4811
Ilima Ward	None	19.9%	4.6%	29.9%	2.1%	35.2%	.4%	5.0%	2.8%	281
Ilima Ward	Primary	13.1%	5.4%	32.3%	.4%	24.1%	19.3%	.6%	4.9%	3085
Ilima Ward	Secondary+	12.8%	6.1%	28.9%	1.0%	13.3%	33.4%	.2%	4.2%	1445
Makueni Constituency	Total	19.1%	10.2%	23.9%	.8%	15.1%	25.6%	1.0%	4.4%	33522
Makueni Constituency	None	15.5%	11.1%	35.0%	2.3%	25.1%	1.0%	6.2%	3.8%	2203
Makueni Constituency	Primary	18.7%	10.3%	27.3%	.6%	17.0%	20.9%	.8%	4.4%	18482
Makueni Constituency	Secondary+	20.3%	10.0%	17.1%	.8%	10.5%	36.4%	.3%	4.6%	12837
Wote Ward	Total	36.0%	15.6%	11.6%	1.1%	9.9%	18.4%	.7%	6.7%	4462



Wote Ward	None	15.9%	14.4%	29.7%	5.1%	17.9%	3.1%	4.6%	9.2%	195
Wote Ward	Primary	32.8%	15.7%	16.3%	.7%	12.1%	14.6%	.9%	6.8%	1839
Wote Ward	Secondary+	40.1%	15.6%	6.5%	1.2%	7.5%	22.5%	.2%	6.4%	2428
Muvau/Kikumini Ward	Total	15.3%	6.3%	34.8%	1.0%	16.6%	20.9%	1.1%	4.1%	3734
Muvau/Kikumini Ward	None	17.4%	3.9%	47.0%	1.3%	23.9%	.4%	4.3%	1.7%	230
Muvau/Kikumini Ward	Primary	15.8%	6.7%	35.5%	1.0%	17.8%	18.3%	1.2%	3.7%	2130
Muvau/Kikumini Ward	Secondary+	14.2%	6.0%	31.7%	1.1%	13.4%	28.3%	.4%	5.0%	1374
Mavindini Ward	Total	14.4%	10.5%	22.1%	.5%	19.9%	28.6%	1.0%	3.0%	4193
Mavindini Ward	None	13.4%	13.8%	27.6%	1.9%	32.2%	.8%	7.3%	3.1%	261
Mavindini Ward	Primary	14.4%	10.4%	23.7%	.3%	22.3%	25.1%	.7%	3.1%	2569
Mavindini Ward	Secondary+	14.5%	10.0%	18.0%	.7%	13.2%	40.5%	.5%	2.6%	1363
Kitise/Kithuki Ward	Total	19.6%	6.9%	21.6%	.6%	19.4%	28.0%	.9%	3.0%	4170
Kitise/Kithuki Ward	None	19.3%	7.6%	25.9%	2.4%	34.8%	1.7%	4.5%	3.8%	290
Kitise/Kithuki Ward	Primary	20.6%	6.4%	23.2%	.6%	20.7%	24.5%	.9%	3.1%	2533
Kitise/Kithuki Ward	Secondary+	17.7%	7.6%	17.7%	.4%	13.7%	40.1%	.1%	2.7%	1347
Kathonzweni Ward	Total	16.8%	6.6%	16.3%	.8%	26.4%	27.5%	1.0%	4.5%	5639
Kathonzweni Ward	None	10.1%	5.7%	23.4%	2.2%	43.6%	1.1%	9.0%	4.9%	367
Kathonzweni Ward	Primary	18.4%	6.6%	18.8%	.7%	30.5%	19.4%	.6%	5.0%	3007
Kathonzweni Ward	Secondary+	15.7%	6.8%	12.0%	.7%	18.2%	42.6%	.3%	3.8%	2265
Nzau/Kilili/Kalamba Ward	Total	16.0%	9.5%	35.0%	.7%	7.1%	26.4%	.7%	4.6%	6174
Nzau/Kilili/Kalamba Ward	None	14.1%	11.4%	52.5%	2.0%	12.9%	.2%	3.4%	3.6%	560
Nzau/Kilili/Kalamba Ward	Primary	15.5%	10.4%	38.7%	.6%	7.8%	21.9%	.4%	4.6%	3595
Nzau/Kilili/Kalamba Ward	Secondary+	17.2%	7.3%	23.6%	.5%	4.3%	41.8%	.3%	5.0%	2019
Mbitini Ward	Total	17.0%	15.9%	24.7%	.7%	8.0%	27.6%	1.3%	4.8%	5150
Mbitini Ward	None	21.3%	21.3%	26.0%	2.0%	15.0%	1.3%	11.3%	1.7%	300
Mbitini Ward	Primary	18.0%	16.9%	29.6%	.5%	8.8%	20.4%	.9%	4.8%	2809
Mbitini Ward	Secondary+	14.8%	13.6%	17.9%	.8%	5.9%	41.4%	.5%	5.1%	2041
Kibwezi West Constituency	Total	21.7%	11.1%	18.5%	1.1%	18.1%	21.4%	.6%	7.7%	29018
Kibwezi West Constituency	None	18.2%	11.9%	24.9%	2.7%	27.9%	.9%	3.3%	10.2%	2664
Kibwezi West Constituency	Primary	22.5%	10.9%	19.8%	.9%	19.5%	18.0%	.4%	7.9%	16761
Kibwezi West Constituency	Secondary+	21.3%	11.1%	14.4%	.9%	12.8%	32.9%	.2%	6.5%	9593
Makindu Ward	Total	25.2%	12.3%	16.2%	1.1%	16.2%	21.1%	.9%	7.0%	7435
Makindu Ward	None	21.7%	12.8%	23.4%	3.0%	27.9%	.5%	3.8%	7.0%	603
Makindu Ward	Primary	25.6%	12.3%	18.2%	.8%	18.0%	17.4%	.8%	6.9%	4249
Makindu Ward	Secondary+	25.3%	12.1%	11.3%	1.0%	10.5%	32.1%	.3%	7.2%	2583
Nguumo Ward	Total	13.9%	12.4%	10.2%	1.1%	27.2%	23.4%	.3%	11.4%	4890
Nguumo Ward	None	14.8%	15.2%	14.2%	1.6%	32.5%	.8%	2.2%	18.5%	492
Nguumo Ward	Primary	13.0%	12.8%	11.0%	1.0%	29.4%	21.5%	.2%	11.1%	3070
Nguumo Ward	Secondary+	15.7%	10.6%	6.6%	1.3%	20.1%	36.0%	0.0%	9.6%	1328
Kikumbulyu North Ward	Total	17.9%	7.7%	18.9%	.9%	18.4%	25.2%	.9%	10.0%	3631
Kikumbulyu North Ward	None	15.0%	9.3%	28.2%	2.8%	27.1%	.7%	3.9%	13.0%	461
Kikumbulyu North Ward	Primary	19.9%	6.6%	18.9%	.7%	19.8%	22.9%	.6%	10.6%	2176
Kikumbulyu North Ward	Secondary+	15.0%	9.5%	14.8%	.3%	11.3%	41.5%	.3%	7.3%	994
Kikumbulyu South Ward	Total	26.0%	9.8%	15.5%	1.8%	19.5%	17.5%	.7%	9.2%	4363
Kikumbulyu South Ward	None	22.4%	8.7%	22.1%	3.3%	27.8%	1.6%	3.8%	10.3%	553
Kikumbulyu South Ward	Primary	25.6%	8.7%	16.4%	1.7%	21.3%	15.8%	.3%	10.2%	2566
Kikumbulyu South Ward	Secondary+	28.6%	12.5%	10.8%	1.2%	11.9%	28.1%	.2%	6.7%	1244
Nguu/Masumba Ward	Total	19.8%	8.3%	26.5%	.5%	23.7%	18.0%	.4%	2.8%	4049

Nguu/Masumba Ward	None	14.7%	11.3%	31.7%	2.2%	33.2%	.3%	2.8%	3.8%	319
Nguu/Masumba Ward	Primary	23.7%	9.0%	28.6%	.4%	22.3%	13.4%	.2%	2.4%	2251
Nguu/Masumba Ward	Secondary+	15.0%	6.7%	22.2%	.2%	23.7%	28.8%	.1%	3.3%	1479
Emali/Mulala Ward	Total	24.6%	13.9%	26.2%	1.2%	5.0%	23.2%	.3%	5.6%	4650
Emali/Mulala Ward	None	17.8%	16.1%	41.9%	3.4%	13.1%	1.3%	2.1%	4.2%	236
Emali/Mulala Ward	Primary	26.7%	14.0%	30.0%	1.0%	5.1%	16.9%	.2%	6.1%	2449
Emali/Mulala Ward	Secondary+	22.8%	13.5%	19.7%	1.1%	4.0%	33.6%	.2%	5.0%	1965
Kibwezi East Constituency	Total	18.5%	8.3%	20.7%	1.4%	21.2%	22.0%	.8%	7.0%	23332
Kibwezi East Constituency	None	19.1%	8.1%	25.3%	3.3%	33.0%	.7%	3.6%	7.0%	2099
Kibwezi East Constituency	Primary	18.9%	8.1%	22.3%	1.2%	22.6%	18.9%	.7%	7.4%	14560
Kibwezi East Constituency	Secondary+	17.5%	8.8%	15.9%	1.2%	14.6%	35.4%	.3%	6.2%	6673
Masongaleni Ward	Total	19.0%	5.9%	29.7%	1.0%	17.5%	22.8%	.7%	3.5%	5939
Masongaleni Ward	None	18.9%	4.2%	34.4%	2.3%	30.8%	.9%	3.8%	4.7%	529
Masongaleni Ward	Primary	20.9%	5.9%	31.6%	1.0%	17.3%	19.2%	.5%	3.6%	3941
Masongaleni Ward	Secondary+	14.2%	6.4%	22.9%	.5%	13.0%	40.2%	.2%	2.7%	1469
Mtito Andei Ward	Total	18.7%	8.7%	19.5%	1.2%	23.3%	21.6%	.9%	6.1%	6321
Mtito Andei Ward	None	18.4%	7.4%	23.2%	2.4%	37.8%	.6%	5.2%	5.2%	543
Mtito Andei Ward	Primary	17.4%	8.0%	21.7%	1.0%	24.7%	20.1%	.7%	6.5%	3958
Mtito Andei Ward	Secondary+	21.6%	10.7%	13.6%	1.2%	16.0%	31.1%	.2%	5.6%	1820
Thange Ward	Total	19.1%	8.7%	18.6%	2.3%	21.6%	21.0%	.8%	8.0%	5651
Thange Ward	None	23.7%	7.7%	22.8%	6.2%	29.7%	.9%	2.4%	6.7%	549
Thange Ward	Primary	19.5%	9.1%	18.7%	1.8%	24.1%	17.4%	.7%	8.7%	3380
Thange Ward	Secondary+	16.8%	8.4%	17.0%	1.9%	14.2%	34.4%	.4%	7.0%	1722
Ivingoni/Nzambani Ward	Total	17.2%	10.1%	14.6%	1.2%	22.5%	22.6%	.8%	11.0%	5421
Ivingoni/Nzambani Ward	None	14.9%	13.8%	20.3%	2.1%	33.9%	.2%	2.9%	11.9%	478
Ivingoni/Nzambani Ward	Primary	17.9%	9.9%	15.4%	1.0%	24.7%	18.5%	.8%	11.8%	3281
Ivingoni/Nzambani Ward	Secondary+	16.7%	9.3%	11.4%	1.3%	14.8%	36.9%	.3%	9.3%	1662

Table 23.6: 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
Makueni County	0.023	2,200	0.015	0.376
Mbooni Constituency	0.005	2,240	0.0032	0.331
Tulimani	0.001	2,450	0.0007	0.314
Mbooni	0.001	2,730	0.0007	0.335
Kithungo/Kitundu	0.001	1,930	0.0004	0.308
Kiteta/Kisau	0.001	2,280	0.0007	0.316
Waia-Kako	0.001	2,310	0.0004	0.321
Kalawa	0.001	1,540	0.0003	0.290
Kilome Constituency	0.002	2,590	0.0017	0.346
Kasikeu	0.001	2,550	0.0007	0.371
Mukaa	0.001	2,560	0.0005	0.317
Kiima Kiu/Kalanzeni	0.001	2,700	0.0005	0.332
Kaiti Constituency	0.003	2,470	0.0023	0.331
Ukia	0.001	2,440	0.0007	0.345

Kee	0.001	2,830	0.0005	0.294
Kilungu	0.001	2,650	0.0007	0.327
Ilima	0.001	1,980	0.0004	0.302
Makueni Constituency	0.005	2,140	0.0032	0.399
Wote	0.001	4,880	0.0009	0.384
Muvau/Kikumini	0.001	2,490	0.0005	0.279
Mavindini	0.001	1,320	0.0002	0.270
Kitise/Kithuki	0.001	1,180	0.0002	0.252
Kathonzweni	0.001	1,470	0.0003	0.305
Nzaui/Kiili/Kalamba	0.001	1,850	0.0005	0.320
Mbitini	0.001	2,020	0.0005	0.313
Kibwezi West Constituency	0.004	2,240	0.0028	0.416
Makindu	0.001	2,450	0.0008	0.426
Nguumo	0.001	1,730	0.0004	0.319
Kikumbulyu North	0.001	1,460	0.0002	0.300
Kikumbulyu South	0.001	2,470	0.0005	0.448
Nguu/Masumba	0.001	1,730	0.0003	0.313
Emali/Mulala	0.001	3,340	0.0007	0.441
Kibwezi East Constituency	0.003	1,670	0.0017	0.353
Masongaleni	0.001	1,300	0.0003	0.269
Mtito Andei	0.001	1,800	0.0005	0.398
Thange	0.001	1,940	0.0005	0.374
Ivingoni/Nzambani	0.001	1,650	0.0004	0.316

Table 23.7: 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
Makueni County	17.2	62.0	20.8	795,029
Mbooni Constituency	17.3	61.2	21.5	167,746
Tulimani	16.6	62.7	20.8	32,019
Mbooni	15.3	60.0	24.7	30,628
Kithungo/Kitundu	17.3	61.4	21.3	25,569
Kiteta/Kisau	17.6	60.6	21.8	33,631
Waia-Kako	18.3	59.9	21.9	21,194
Kalawa	19.5	62.8	17.8	24,705
Kilome Constituency	15.5	62.7	21.9	79,128
Kasikeu	15.7	62.6	21.7	34,425
Mukaa	14.4	61.9	23.7	24,075
Kiima Kiu/Kalanzoni	16.3	63.8	20.0	20,628
Kaiti Constituency	16.8	62.4	20.8	109,068
Ukia	17.6	62.1	20.2	34,979
Kee	15.1	59.8	25.2	19,262
Kilungu	16.9	61.2	21.9	30,876
Ilima	16.9	66.6	16.6	23,951

Makueni Constituency	16.9	60.4	22.7	173,957
Wote	12.3	50.4	37.3	21,902
Muvau/Kikumini	16.3	61.3	22.4	22,191
Mavindini	18.3	63.9	17.8	21,159
Kitise/Kithuki	18.9	62.8	18.3	19,896
Kathonzweni	17.0	60.5	22.5	27,843
Nzaui/Kilili/Kalamba	18.3	63.0	18.7	33,528
Mbitini	16.6	59.9	23.5	27,438
Kibwezi West Constituency	17.8	62.2	20.0	147,851
Makindu	16.4	62.1	21.6	37,076
Nguumo	19.1	65.5	15.4	25,257
Kikumbulyu North	21.3	63.0	15.7	18,197
Kikumbulyu South	19.9	61.2	18.9	22,984
Nguu/Masumba	17.3	62.3	20.5	21,567
Emali/Mulala	14.4	59.1	26.5	22,770
Kibwezi East Constituency	18.2	64.6	17.1	117,279
Masongaleni	19.1	66.4	14.4	28,902
Mtito Andei	17.0	64.7	18.3	30,957
Thange	18.4	63.6	18.0	28,517
Ivingoni/Nzambani	18.5	63.7	17.7	28,903

Table 23.8: 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
Makueni County	15.2	62.7	22.1	384,630	19.1	61.4	19.5	410,399
Mbooni Constituency	15.3	62.0	22.7	79,612	19.1	60.5	20.3	88,134
Tulimani	14.9	64.0	21.2	15,182	18.1	61.5	20.4	16,837
Mbooni	13.6	60.1	26.3	14,462	16.8	59.9	23.3	16,166
Kithungo/Kitundu	15.7	60.9	23.4	12,087	18.8	61.8	19.4	13,482
Kiteta/Kisau	15.3	61.7	23.0	15,916	19.7	59.6	20.7	17,715
Waia-Kako	16.0	61.6	22.5	10,314	20.5	58.3	21.2	10,880
Kalawa	16.8	63.9	19.3	11,651	21.8	61.8	16.4	13,054
Kilome Constituency	13.8	62.9	23.3	38,671	17.1	62.5	20.5	40,457
Kasikeu	13.9	62.5	23.6	16,798	17.5	62.6	19.9	17,627
Mukaa	13.2	61.8	25.1	11,451	15.6	62.0	22.5	12,624
Kiima Kiu/Kalanzeni	14.3	64.8	21.0	10,422	18.3	62.8	18.9	10,206

Kaiti Constituency	14.9	62.8	22.3	51,664	18.6	62.1	19.3	57,404
Ukia	14.8	62.9	22.4	16,942	20.3	61.5	18.2	18,037
Kee	13.8	60.0	26.3	9,053	16.2	59.7	24.2	10,209
Kilungu	15.6	61.6	22.9	14,527	18.2	60.8	21.0	16,349
Ilima	15.0	66.5	18.5	11,142	18.5	66.6	14.9	12,809
Makueni Constituency	14.8	61.2	24.0	84,248	18.8	59.7	21.5	89,709
Wote	11.1	51.8	37.2	11,029	13.6	48.9	37.5	10,873
Muvau/Kikumini	13.9	62.1	24.1	11,045	18.7	60.6	20.7	11,146
Mavindini	16.6	64.4	19.1	10,121	19.9	63.4	16.7	11,038
Kitise/Kithuki	16.9	63.5	19.7	9,473	20.8	62.1	17.1	10,423
Kathonzweni	15.2	61.6	23.2	13,245	18.7	59.6	21.8	14,598
Nzau/Kilili/Kalamba	15.5	64.3	20.2	16,205	20.9	61.9	17.2	17,323
Mbitini	14.7	59.9	25.4	13,130	18.4	59.9	21.7	14,308
Kibwezi West Constituency	15.6	63.1	21.3	72,566	20.0	61.3	18.7	75,285
Makindu	14.4	62.4	23.2	18,178	18.3	61.7	20.0	18,898
Nguumo	16.8	66.4	16.9	12,170	21.4	64.6	14.0	13,087
Kikumbulyu North	18.8	64.3	17.0	8,925	23.8	61.7	14.5	9,272
Kikumbulyu South	17.5	62.5	20.0	11,413	22.3	59.9	17.8	11,571
Nguu/Masumba	14.6	64.1	21.3	10,718	19.9	60.5	19.6	10,849
Emali/Mulala	12.7	59.5	27.8	11,162	16.1	58.6	25.3	11,608
Kibwezi East Constituency	16.3	65.3	18.5	57,869	20.2	64.0	15.8	59,410
Masongaleni	17.3	67.3	15.3	14,019	20.9	65.6	13.6	14,883
Mtito Andei	14.7	65.1	20.2	15,379	19.3	64.4	16.3	15,578
Thange	16.2	64.4	19.4	14,247	20.5	62.9	16.7	14,270
Ivingoni/Nzambani	17.0	64.3	18.8	14,224	20.1	63.3	16.7	14,679

Table 23.9: 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
Makueni County	0.1	2.8	0.6	0.3	84.8	11.2	0.1	0.1	184,494

Mbooni Constituency	0.0	1.4	0.3	0.2	91.2	6.8	0.0	0.0	38,236
Tulimani	-	1.1	0.3	0.1	92.0	6.4	0.1	0.1	7,540
Mbooni	0.1	1.5	0.4	0.2	84.2	13.5	0.0	0.0	7,005
Kithungo/Kitundu	-	0.4	0.1	0.0	94.7	4.7	0.0	0.0	5,435
Kiteta/Kisau	0.1	2.0	0.6	0.2	91.7	5.3	0.1	0.0	7,924
Waia-Kako	0.0	1.9	0.2	0.2	92.4	5.1	0.0	0.1	4,830
Kalawa	-	1.1	0.2	0.1	94.0	4.5	0.0	0.0	5,502
Kilome Constituency	0.2	2.3	0.6	0.2	86.5	10.1	0.0	0.1	19,453
Kasikeu	0.2	2.9	0.7	0.3	82.8	12.8	0.0	0.3	8,351
Mukaa	0.1	0.6	0.4	0.1	92.5	6.2	0.0	0.0	5,771
Kiima Kiu/Kalanzoni	0.2	3.1	0.7	0.2	85.8	9.9	-	0.1	5,331
Kaiti Constituency	0.1	1.0	0.4	0.2	91.4	6.8	0.1	0.0	24,726
Ukia	0.1	1.5	0.3	0.2	89.8	8.0	0.0	0.0	7,717
Kee	0.0	0.7	0.3	0.3	94.3	4.3	0.1	0.0	4,590
Kilungu	0.1	1.2	0.7	0.2	87.9	9.7	0.1	0.0	7,116
Ilima	0.1	0.4	0.2	0.1	96.1	3.1	0.1	0.0	5,303
Makueni Constituency	0.1	3.4	0.7	0.3	84.9	10.4	0.0	0.1	38,720
Wote	0.2	14.5	3.0	1.3	41.3	39.1	0.1	0.6	6,436
Muvau/Kikumini	0.0	0.2	0.2	0.1	96.9	2.5	-	0.1	4,598
Mavindini	-	0.5	0.1	0.1	95.3	3.8	0.0	0.0	4,355
Kitise/Kithuki	-	0.9	0.2	0.3	94.7	3.9	-	-	4,105
Kathonzweni	0.0	2.3	0.4	0.2	89.5	7.4	0.0	0.1	5,760
Nzaui/Kilili/Kalamba	0.0	1.7	0.4	0.1	91.9	5.8	0.1	0.1	7,539
Mbitini	-	0.9	0.3	0.1	95.0	3.6	0.1	0.0	5,927
Kibwezi West Constituency	0.3	4.7	0.8	0.4	74.1	19.3	0.1	0.4	36,028
Makindu	0.4	4.3	0.7	0.7	68.4	25.1	0.1	0.2	9,616
Nguumo	0.2	1.1	0.1	0.1	85.6	12.8	-	0.0	5,738
Kikumbulyu North	0.2	1.1	0.0	0.3	91.6	6.8	0.1	-	3,787
Kikumbulyu South	0.3	5.1	1.4	0.7	64.7	26.7	0.1	0.8	5,862
Nguu/Masumba	0.0	0.7	0.1	0.1	95.1	3.8	0.1	0.0	4,776
Emali/Mulala	0.4	13.2	2.0	0.2	54.6	28.6	0.0	1.1	6,249
Kibwezi East Constituency	0.2	3.8	0.6	0.2	82.7	12.4	0.1	0.1	27,331
Masongaleni	0.1	0.5	0.2	0.1	95.0	4.1	0.1	0.0	6,493
Mtito Andei	0.4	9.0	1.3	0.3	72.4	16.3	0.1	0.2	7,487
Thange	0.1	2.5	0.5	0.1	79.7	17.0	0.1	0.0	6,789
Ivingoni/Nzambani	0.2	2.4	0.5	0.1	85.6	11.3	0.0	0.0	6,562

Table 23.10: 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
Makueni County	0.2	3.1	0.7	0.3	83.4	12.1	0.1	0.2	108,060
Mbooni Constituency	0.0	1.7	0.4	0.2	90.0	7.5	0.1	0.1	21,097
Tulimani	0.0	1.6	0.5	0.2	90.7	6.7	0.1	0.2	3,941

Mbooni	0.1	1.5	0.6	0.2	83.4	14.1	0.0	0.0	4,118
Kithungo/Kitundu	0.0	0.6	0.0	0.0	94.5	4.8	0.1	0.0	3,132
Kiteta/Kisau	0.1	2.6	0.8	0.2	89.8	6.3	0.1	0.0	4,241
Waia-Kako	0.0	2.3	0.3	0.4	90.6	6.2	0.1	0.1	2,682
Kalawa	0.0	1.3	0.2	0.1	93.3	5.0	0.1	0.0	2,983
Kilome Constituency	0.2	2.4	0.7	0.3	85.4	10.8	0.0	0.2	11,342
Kasikeu	0.2	3.2	0.7	0.4	81.2	13.8	0.1	0.4	4,875
Mukaa	0.2	1.0	0.5	0.1	91.1	7.1	0.0	0.0	3,231
Kiima Kiu/Kalanzoni	0.2	2.7	0.9	0.2	85.9	9.9	0.0	0.1	3,236
Kaiti Constituency	0.1	1.2	0.5	0.2	91.0	6.9	0.1	0.1	13,556
Ukia	0.2	1.6	0.4	0.2	89.8	7.8	0.1	0.0	4,481
Kee	0.0	0.8	0.4	0.4	93.8	4.5	0.1	0.1	2,393
Kilungu	0.1	1.5	0.9	0.3	87.1	9.9	0.2	0.1	3,797
Ilima	0.1	0.5	0.1	0.1	95.8	3.4	0.1	0.1	2,885
Makueni Constituency	0.0	3.7	0.8	0.3	84.0	10.9	0.0	0.2	23,388
Wote	0.2	14.8	3.1	1.0	41.9	38.2	0.0	0.8	4,245
Muvau/Kikumini	0.0	0.2	0.2	0.1	96.6	2.8	0.0	0.1	2,991
Mavindini	0.0	0.6	0.2	0.1	95.0	4.1	0.0	0.1	2,479
Kitise/Kithuki	0.0	0.9	0.3	0.5	94.2	4.2	0.0	0.0	2,288
Kathonzweni	0.0	2.3	0.5	0.2	89.4	7.5	0.0	0.0	3,383
Nzaui/Kilili/Kalamba	0.0	1.8	0.4	0.1	91.9	5.5	0.1	0.1	4,507
Mbitini	0.0	1.1	0.3	0.1	94.4	3.9	0.1	0.1	3,495
Kibwezi West Constituency	0.3	4.9	0.9	0.4	72.9	20.0	0.1	0.6	22,272
Makindu	0.5	4.3	0.8	0.6	67.6	25.8	0.1	0.3	5,982
Nguumo	0.4	1.1	0.2	0.1	86.2	12.1	0.0	0.0	3,416
Kikumbulyu North	0.2	1.2	0.0	0.3	90.1	8.2	0.0	0.0	2,250
Kikumbulyu South	0.4	5.4	1.6	0.7	63.8	26.9	0.1	1.2	3,843
Nguu/Masumba	0.0	1.0	0.1	0.1	94.0	4.6	0.1	0.0	2,949
Emali/Mulala	0.4	13.8	2.1	0.2	52.0	29.6	0.1	1.8	3,832
Kibwezi East Constituency	0.2	3.9	0.7	0.2	80.8	14.1	0.1	0.1	16,405
Masongaleni	0.1	0.6	0.2	0.1	94.2	4.8	0.1	0.0	3,725
Mtito Andei	0.5	9.0	1.5	0.3	70.1	18.3	0.0	0.2	4,479
Thange	0.1	2.5	0.6	0.1	75.9	20.6	0.0	0.0	4,195
Ivingoni/Nzambani	0.2	2.6	0.4	0.1	85.4	11.1	0.1	0.0	4,006

Table 23.11: 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
Makueni County	0.1	2.4	0.4	0.2	86.8	9.9	0.0	0.0	76,434
Mbooni Constituency	0.0	1.0	0.2	0.1	92.7	5.9	0.0	0.0	17,139
Tulimani	-	0.4	0.2	0.1	93.4	5.9	0.0	-	3,599
Mbooni	0.1	1.4	0.2	0.2	85.2	12.8	0.1	-	2,887
Kithungo/Kitundu	-	0.2	0.2	0.0	95.0	4.6	-	-	2,303
Kiteta/Kisau	0.0	1.4	0.4	0.2	93.8	4.1	0.0	-	3,683

Waia-Kako	-	1.3	0.1	0.1	94.7	3.7	-	0.0	2,148
Kalawa	-	0.9	0.2	0.2	94.8	3.9	-	-	2,519
Kilome Constituency	0.1	2.0	0.4	0.1	88.1	9.1	0.0	0.0	8,111
Kasikeu	0.2	2.4	0.5	0.1	85.1	11.5	0.0	0.1	3,476
Mukaa	-	0.2	0.3	0.1	94.3	5.1	-	-	2,540
Kiima Kiu/Kalanzeni	0.2	3.7	0.4	0.1	85.5	10.0	-	-	2,095
Kaiti Constituency	0.1	0.8	0.3	0.2	91.9	6.6	0.0	0.0	11,170
Ukia	0.1	1.4	0.2	0.3	89.7	8.3	-	0.1	3,236
Kee	0.1	0.6	0.1	0.1	94.9	4.2	0.0	-	2,197
Kilungu	0.1	0.9	0.4	0.2	88.9	9.5	0.1	0.0	3,319
Ilima	0.0	0.3	0.2	0.1	96.5	2.8	0.0	-	2,418
Makueni Constituency	0.1	2.9	0.6	0.4	86.2	9.7	0.0	0.1	15,332
Wote	0.4	13.8	2.7	1.8	40.3	40.8	0.1	0.1	2,191
Muvau/Kikumini	0.1	0.1	0.2	0.1	97.5	2.0	-	-	1,607
Mavindini	-	0.4	0.1	0.2	95.8	3.5	0.1	-	1,876
Kitise/Kithuki	-	0.9	0.2	0.1	95.2	3.6	-	-	1,817
Kathonzweni	0.0	2.4	0.3	0.2	89.7	7.2	0.1	0.2	2,377
Nzau/Kiili/Kalamba	0.1	1.5	0.4	0.1	91.8	6.2	0.1	0.0	3,032
Mbitini	-	0.6	0.2	0.1	95.8	3.2	-	-	2,432
Kibwezi West Constituency	0.2	4.3	0.6	0.4	76.1	18.1	0.1	0.1	13,756
Makindu	0.4	4.3	0.6	0.9	69.8	23.9	0.1	0.1	3,634
Nguumo	0.0	1.2	0.0	0.1	84.7	13.8	-	0.0	2,322
Kikumbulyu North	0.1	1.0	0.1	0.3	93.8	4.6	0.1	-	1,537
Kikumbulyu South	0.2	4.6	1.1	0.8	66.5	26.5	0.1	0.0	2,019
Nguu/Masumba	-	0.3	0.1	0.1	96.9	2.5	0.1	0.1	1,827
Emali/Mulala	0.3	12.1	1.8	0.1	58.7	26.9	0.0	0.0	2,417
Kibwezi East Constituency	0.1	3.6	0.5	0.2	85.6	9.8	0.1	0.0	10,926
Masongaleni	0.1	0.4	0.2	0.2	96.1	3.0	0.0	-	2,768
Mtito Andei	0.2	9.1	1.2	0.3	75.7	13.4	0.1	0.1	3,008
Thange	0.0	2.4	0.2	0.2	85.8	11.3	0.2	-	2,594
Ivingoni/Nzambani	0.1	2.1	0.5	0.1	85.7	11.5	-	-	2,556

Table 23.12: 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
Makueni County	5.7	0.4	63.4	25.4	0.5	0.6	3.8	0.3	108,060
Mbooni Constituency	2.1	0.6	62.7	29.3	0.4	0.4	4.3	0.1	21,097
Tulimani	1.5	0.7	62.6	29.5	0.3	0.2	5.1	0.1	3,941
Mbooni	4.8	0.8	60.5	28.7	0.8	0.2	4.0	0.1	4,118
Kithungo/Kitundu	0.1	1.1	51.3	42.8	0.2	0.3	4.0	0.1	3,132
Kiteta/Kisau	2.7	0.3	63.0	28.5	0.2	0.5	4.6	0.1	4,241
Waia-Kako	1.7	0.3	73.4	18.9	0.5	0.5	4.5	0.3	2,682
Kalawa	1.1	0.2	67.2	26.5	0.4	1.0	3.5	0.1	2,983
Kilome Constituency	5.9	0.4	68.0	20.8	0.7	0.5	3.2	0.4	11,342

Kasikeu	7.7	0.5	65.5	21.6	0.8	0.5	2.9	0.5	4,875
Mukaa	4.4	0.4	68.9	20.9	0.7	0.2	4.4	0.2	3,231
Kiima Kiu/Kalanzoni	4.6	0.4	71.0	19.7	0.5	0.8	2.3	0.6	3,236
Kaiti Constituency	2.9	0.4	68.7	21.9	0.4	0.7	5.0	0.1	13,556
Ukia	3.3	0.3	64.6	27.1	0.3	0.4	3.8	0.1	4,481
Kee	0.4	0.4	77.6	17.3	0.3	0.2	3.7	0.0	2,393
Kilungu	6.1	0.5	69.8	17.6	0.5	0.2	5.1	0.1	3,797
Ilima	0.2	0.2	65.5	24.1	0.5	2.0	7.5	0.0	2,885
Makueni Constituency	5.9	0.4	69.3	19.0	0.5	0.7	4.0	0.3	23,388
Wote	27.0	0.6	54.1	13.7	0.3	0.2	3.1	0.8	4,245
Muvau/Kikumini	0.5	0.7	78.8	14.3	0.5	0.7	4.3	0.2	2,991
Mavindini	0.3	0.1	72.1	23.3	0.5	0.3	3.1	0.2	2,479
Kitise/Kithuki	0.1	0.2	74.9	19.1	0.5	0.6	4.4	0.2	2,288
Kathonzweni	4.0	0.4	66.1	23.5	0.7	0.2	4.8	0.3	3,383
Nzau/Kilili/Kalamba	3.3	0.3	71.2	19.6	0.5	1.7	3.2	0.2	4,507
Mbitini	0.3	0.4	72.9	20.1	0.5	0.6	5.0	0.2	3,495
Kibwezi West Constituency	10.7	0.4	57.3	27.4	0.5	0.7	2.6	0.3	22,272
Makindu	13.8	0.2	59.7	23.1	0.4	0.4	2.2	0.2	5,982
Nguumo	5.7	1.0	50.0	39.0	0.7	1.3	2.2	0.1	3,416
Kikumbulyu North	2.7	0.4	51.6	40.8	0.4	0.6	3.3	0.1	2,250
Kikumbulyu South	17.4	0.6	43.5	34.2	0.5	0.3	3.3	0.2	3,843
Nguu/Masumba	0.1	0.2	71.1	22.3	0.8	1.8	3.7	0.1	2,949
Emali/Mulala	17.3	0.3	66.1	12.9	0.2	0.5	1.7	1.1	3,832
Kibwezi East Constituency	6.2	0.3	55.7	32.8	0.4	0.6	3.5	0.4	16,405
Masongaleni	0.6	0.3	55.6	37.9	0.4	0.8	4.2	0.2	3,725
Mtito Andei	13.9	0.4	52.2	29.9	0.4	0.7	2.5	0.1	4,479
Thange	3.3	0.4	56.6	34.0	0.4	0.3	4.0	1.1	4,195
Ivingoni/Nzambani	6.1	0.2	59.1	30.0	0.3	0.7	3.5	0.2	4,006

Table 23.13: 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
Makueni County	6.2	0.5	62.2	25.7	0.4	0.6	4.0	0.4	108,060
Mbooni Constituency	2.5	0.6	61.6	29.6	0.3	0.4	4.8	0.2	21,097
Tulimani	1.9	0.7	60.8	30.5	0.2	0.2	5.5	0.2	3,941
Mbooni	5.5	0.8	60.4	27.6	0.8	0.3	4.6	0.1	4,118
Kithungo/Kitundu	0.1	1.3	50.7	43.1	0.2	0.3	4.3	0.1	3,132
Kiteta/Kisau	3.2	0.4	61.2	28.7	0.1	0.5	5.6	0.2	4,241
Waia-Kako	2.0	0.4	72.0	19.6	0.4	0.4	4.7	0.4	2,682
Kalawa	1.1	0.3	66.6	27.2	0.3	0.7	3.7	0.1	2,983
Kilome Constituency	6.6	0.5	66.2	21.6	0.6	0.6	3.4	0.5	11,342

Kasikeu	8.8	0.5	63.5	22.4	0.7	0.6	3.0	0.6	4,875
Mukaa	5.2	0.4	67.3	21.2	0.5	0.3	4.8	0.2	3,231
Kiima Kiu/Kalanzoni	4.8	0.6	69.0	20.8	0.5	0.8	2.7	0.8	3,236
Kaiti Constituency	3.1	0.5	67.9	22.2	0.4	0.6	5.2	0.1	13,556
Ukia	3.2	0.4	64.7	26.6	0.3	0.4	4.3	0.1	4,481
Kee	0.5	0.5	76.5	18.4	0.2	0.1	3.8	0.0	2,393
Kilungu	6.8	0.7	68.8	17.7	0.5	0.2	5.2	0.1	3,797
Ilima	0.2	0.2	64.7	24.5	0.5	1.9	7.9	0.0	2,885
Makueni Constituency	6.0	0.4	68.9	18.9	0.5	0.6	4.3	0.4	23,388
Wote	25.4	0.6	55.3	13.8	0.4	0.2	3.3	1.0	4,245
Muvau/Kikumini	0.6	0.6	79.3	13.9	0.6	0.4	4.5	0.1	2,991
Mavindini	0.4	0.2	71.6	23.2	0.6	0.3	3.6	0.2	2,479
Kitise/Kithuki	0.1	0.2	74.3	19.3	0.6	0.5	4.9	0.2	2,288
Kathonzweni	4.3	0.5	64.9	23.6	0.6	0.1	5.5	0.4	3,383
Nzau/Kilili/Kalamba	3.1	0.3	70.8	20.1	0.4	1.7	3.2	0.2	4,507
Mbitini	0.3	0.3	72.8	19.8	0.4	0.6	5.6	0.2	3,495
Kibwezi West Constituency	11.2	0.4	56.2	27.9	0.5	0.7	2.7	0.4	22,272
Makindu	13.9	0.2	58.9	23.5	0.4	0.3	2.4	0.3	5,982
Nguumo	5.4	1.0	48.3	40.4	0.7	1.4	2.5	0.1	3,416
Kikumbulyu North	3.2	0.4	50.0	42.0	0.4	0.6	3.3	0.2	2,250
Kikumbulyu South	17.6	0.5	43.3	34.2	0.4	0.3	3.5	0.2	3,843
Nguu/Masumba	0.1	0.3	71.0	22.7	0.9	1.8	3.2	0.0	2,949
Emali/Mulala	18.8	0.4	64.1	13.0	0.3	0.4	1.6	1.4	3,832
Kibwezi East Constituency	6.8	0.3	54.3	33.3	0.4	0.6	3.7	0.6	16,405
Masongaleni	0.7	0.3	54.8	38.0	0.3	0.8	4.7	0.3	3,725
Mtito Andei	15.1	0.5	50.2	30.2	0.4	0.7	2.8	0.1	4,479
Thange	3.8	0.3	54.5	35.2	0.4	0.3	3.8	1.6	4,195
Ivingoni/Nzambani	6.4	0.2	58.0	30.5	0.3	0.7	3.8	0.2	4,006

Table 23.14: 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	Households
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
Makueni County	5.0	0.4	65.0	25.0	0.5	0.6	3.4	0.2	76,434
Mbooni Constituency	1.7	0.5	64.2	28.9	0.4	0.5	3.8	0.1	17,139
Tulimani	1.1	0.8	64.6	28.4	0.3	0.1	4.8	0.0	3,599
Mbooni	3.8	0.9	60.5	30.3	0.9	0.1	3.3	0.0	2,887
Kithungo/Kitundu	0.1	0.8	52.1	42.4	0.3	0.3	3.7	0.2	2,303
Kiteta/Kisau	2.2	0.2	65.1	28.2	0.3	0.5	3.5	0.0	3,683
Waia-Kako	1.3	0.1	75.1	18.0	0.5	0.6	4.2	0.1	2,148
Kalawa	1.1	0.1	68.0	25.7	0.5	1.3	3.2	0.1	2,519
Kilome Constituency	4.8	0.4	70.7	19.8	0.8	0.4	2.8	0.3	8,111
Kasikeu	6.1	0.5	68.4	20.4	1.1	0.4	2.8	0.4	3,476

Mukaa	3.4	0.4	70.9	20.4	0.9	0.1	3.8	0.1	2,540
Kiima Kiu/Kalanzoni	4.3	0.2	74.1	17.9	0.4	0.8	1.8	0.4	2,095
Kaiti Constituency	2.7	0.3	69.6	21.5	0.4	0.7	4.6	0.1	11,170
Ukia	3.6	0.2	64.4	27.8	0.3	0.4	3.2	0.1	3,236
Kee	0.3	0.3	78.8	16.2	0.4	0.4	3.6	-	2,197
Kilungu	5.3	0.4	71.0	17.5	0.5	0.3	4.9	0.2	3,319
Ilima	0.2	0.2	66.5	23.6	0.5	2.1	6.9	0.0	2,418
Makueni Constituency	5.7	0.4	69.8	19.2	0.5	0.8	3.4	0.2	15,332
Wote	30.3	0.7	51.8	13.5	0.1	0.3	2.8	0.5	2,191
Muvau/Kikumini	0.4	1.1	78.0	15.0	0.3	1.2	3.7	0.3	1,607
Mavindini	0.2	0.1	72.8	23.5	0.4	0.4	2.5	0.1	1,876
Kitise/Kithuki	0.1	0.2	75.8	18.8	0.5	0.7	3.9	0.2	1,817
Kathonzweni	3.5	0.3	68.0	23.3	0.8	0.3	3.7	0.1	2,377
Nzau/Kiili/Kalamba	3.5	0.2	71.7	18.9	0.7	1.7	3.2	0.1	3,032
Mbitini	0.2	0.7	73.0	20.6	0.7	0.6	4.2	0.1	2,432
Kibwezi West Constituency	10.0	0.5	59.0	26.6	0.5	0.8	2.5	0.2	13,756
Makindu	13.6	0.2	61.0	22.4	0.4	0.4	1.9	0.1	3,634
Nguumo	6.1	1.0	52.4	36.8	0.8	1.2	1.7	0.1	2,322
Kikumbulyu North	2.1	0.3	53.9	39.2	0.5	0.7	3.3	0.1	1,537
Kikumbulyu South	17.2	0.8	43.8	34.1	0.6	0.3	3.0	0.1	2,019
Nguu/Masumba	0.1	0.2	71.4	21.5	0.5	1.8	4.5	0.1	1,827
Emali/Mulala	14.9	0.3	69.1	12.6	0.0	0.6	1.9	0.5	2,417
Kibwezi East Constituency	5.3	0.3	57.9	32.2	0.4	0.6	3.1	0.2	10,926
Masongaleni	0.4	0.3	56.7	37.8	0.5	0.7	3.5	0.1	2,768
Mtito Andei	12.1	0.2	55.0	29.5	0.4	0.6	2.0	0.1	3,008
Thange	2.5	0.4	59.9	32.1	0.3	0.3	4.2	0.2	2,594
Ivingoni/Nzambani	5.6	0.2	60.7	29.2	0.3	0.9	3.0	0.1	2,556

Table 23.15: 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
Makueni County	45.5	0.6	0.2	53.5	0.2	184,494
Mbooni Constituency	44.0	0.6	0.3	55.0	0.1	38,236
Tulimani	49.3	0.6	0.2	49.9	0.1	7,540
Mbooni	49.8	0.8	0.5	48.7	0.3	7,005
Kithungo/Kitundu	32.6	0.3	0.2	66.8	0.1	5,435
Kiteta/Kisau	47.3	0.5	0.3	51.8	0.1	7,924
Waia-Kako	47.3	0.8	0.1	51.8	0.1	4,830
Kalawa	33.4	0.4	0.2	65.8	0.1	5,502
Kilome Constituency	47.0	0.7	0.2	51.8	0.3	19,453
Kasikeu	48.5	0.6	0.1	50.7	0.1	8,351
Mukaa	50.1	1.0	0.3	48.5	0.1	5,771
Kiima Kiu/Kalanzoni	41.1	0.4	0.2	57.2	1.1	5,331
Kaiti Constituency	49.0	0.9	0.2	49.8	0.1	24,726
Ukia	46.8	0.6	0.1	52.4	0.0	7,717

Kee	57.3	1.1	0.0	41.5	0.1	4,590
Kilungu	51.8	1.5	0.4	46.3	0.0	7,116
Ilima	41.1	0.5	0.2	58.1	0.1	5,303
Makueni Constituency	46.8	0.5	0.1	52.3	0.2	38,720
Wote	79.8	0.6	0.1	19.5	0.0	6,436
Muvau/Kikumini	38.6	0.5	0.2	60.7	0.1	4,598
Mavindini	39.6	0.4	0.1	59.7	0.1	4,355
Kitise/Kithuki	33.7	0.6	0.1	65.6	0.1	4,105
Kathonzweni	48.0	0.5	0.2	50.6	0.7	5,760
Nzau/Kiili/Kalamba	38.5	0.5	0.2	60.8	0.1	7,539
Mbitini	41.4	0.5	0.2	57.9	0.1	5,927
Kibwezi West Constituency	46.1	0.6	0.2	52.9	0.2	36,028
Makindu	51.1	0.8	0.2	47.9	0.0	9,616
Nguumo	30.9	0.3	0.1	68.6	0.1	5,738
Kikumbulyu North	30.7	0.4	0.2	67.8	0.8	3,787
Kikumbulyu South	51.6	1.0	0.2	47.0	0.3	5,862
Nguu/Masumba	33.9	0.5	0.4	65.2	0.0	4,776
Emali/Mulala	66.0	0.5	0.2	33.1	0.2	6,249
Kibwezi East Constituency	41.0	0.5	0.2	58.2	0.1	27,331
Masongaleni	28.5	0.3	0.3	70.9	0.0	6,493
Mtito Andei	47.1	0.5	0.1	52.1	0.2	7,487
Thange	47.4	0.5	0.1	51.8	0.1	6,789
Ivingoni/Nzambani	39.7	0.7	0.3	59.3	0.0	6,562

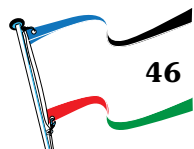


Table 23.16: Main Material of the Floor in Male and Female Headed Households by County, Constituency and Ward

County/Constituency/wards	Cement	Tiles	Wood	Earth	Other	Households	Cement	Tiles	Wood	Earth	Other	Households
Kenya	42.8	1.6	0.8	54.2	0.6	5,762,320	37.7	1.4	0.7	59.8	0.5	2,731,060
Rural	22.1	0.3	0.7	76.4	0.4	3,413,616	22.2	0.3	0.6	76.6	0.3	1,826,263
Urban	72.9	3.5	0.9	21.9	0.8	2,348,704	69.0	3.6	0.9	25.8	0.8	904,797
Makueni County	45.4	0.6	0.2	53.6	0.2	108,060	45.8	0.6	0.2	53.2	0.2	76,434
Mbooni Constituency	43.7	0.6	0.3	55.3	0.1	21,097	44.5	0.5	0.3	54.6	0.2	17,139
Tulimani	49.0	0.7	0.3	49.9	0.1	3,941	49.5	0.4	0.1	49.9	0.1	3,599
Mbooni	48.7	0.9	0.4	49.7	0.3	4,118	51.3	0.7	0.6	47.1	0.3	2,887
Kithungo/Kitundu	31.4	0.4	0.2	67.9	0.1	3,132	34.2	0.1	0.3	65.2	0.2	2,303
Kiteta/Kisau	47.7	0.6	0.3	51.3	0.1	4,241	46.8	0.4	0.4	52.3	0.2	3,683
Waia-Kako	47.2	0.8	0.2	51.7	0.1	2,682	47.3	0.7	0.1	51.8	0.0	2,148
Kalawa	33.7	0.3	0.2	65.6	0.2	2,983	33.1	0.5	0.3	66.0	0.1	2,519
Kilome Constituency	46.1	0.6	0.2	52.6	0.4	11,342	48.2	0.8	0.2	50.7	0.2	8,111
Kasikeu	48.1	0.6	0.2	51.1	0.0	4,875	49.1	0.7	0.1	50.1	0.1	3,476
Mukaa	49.6	0.9	0.3	49.1	0.1	3,231	50.7	1.0	0.4	47.8	0.1	2,540
Kiima Kiu/Kalanzeni	39.5	0.3	0.2	58.5	1.5	3,236	43.6	0.6	0.2	55.2	0.4	2,095
Kaiti Constituency	48.7	0.9	0.2	50.1	0.1	13,556	49.3	1.0	0.3	49.5	0.1	11,170
Ukia	46.6	0.5	0.1	52.8	0.0	4,481	47.1	0.7	0.2	51.9	0.0	3,236
Kee	57.1	1.2	0.0	41.6	0.0	2,393	57.4	1.0	0.0	41.4	0.1	2,197
Kilungu	52.5	1.4	0.4	45.6	0.1	3,797	50.9	1.6	0.4	47.0	0.0	3,319
Ilina	40.0	0.6	0.1	59.1	0.1	2,885	42.5	0.4	0.2	56.8	0.1	2,418
Makueni Constituency	46.6	0.5	0.1	52.6	0.1	23,388	47.2	0.5	0.1	51.9	0.3	15,332
Wote	79.0	0.6	0.1	20.3	0.0	4,245	81.5	0.5	0.1	17.8	0.0	2,191
Muvau/Kikumini	38.2	0.5	0.1	61.1	0.1	2,991	39.1	0.6	0.2	60.0	0.1	1,607
Mavindini	38.2	0.4	0.1	61.1	0.2	2,479	41.5	0.3	0.2	58.0	0.1	1,876
Kitise/Kituki	32.7	0.7	0.2	66.3	0.1	2,288	34.8	0.5	-	64.6	0.1	1,817
Kathonzwani	48.3	0.3	0.1	51.0	0.2	3,383	47.5	0.8	0.3	50.0	1.4	2,377
Nzau/Kilili/Kalamba	37.1	0.5	0.2	62.1	0.1	4,507	40.7	0.4	0.1	58.8	0.0	3,032

Mbitini	40.4	0.5	0.3	58.8	0.1	3,495	42.8	0.5	0.1	56.5	0.0	2,432
Kibwezi West Constituency	45.9	0.7	0.3	53.0	0.2	22,272	46.5	0.5	0.1	52.6	0.2	13,756
Makindu	50.3	0.9	0.2	48.5	0.0	5,982	52.3	0.7	0.2	46.8	0.0	3,634
Nguumo	29.7	0.4	0.2	69.7	0.0	3,416	32.8	0.3	-	66.9	0.1	2,322
Kikumbuyu North	29.9	0.5	0.3	68.6	0.7	2,250	31.8	0.3	0.1	66.7	1.0	1,537
Kikumbuyu South	51.6	0.9	0.2	47.0	0.3	3,843	51.6	1.1	0.2	46.9	0.3	2,019
Nguu/Masumba	33.4	0.6	0.5	65.4	0.1	2,949	34.6	0.4	0.2	64.9	-	1,827
Enali/Mulala	66.5	0.7	0.2	32.4	0.2	3,832	65.1	0.4	0.0	34.3	0.2	2,417
Kibwezi East Constituency	41.7	0.5	0.2	57.4	0.1	16,405	39.9	0.5	0.2	59.3	0.1	10,926
Masongaleni	28.5	0.2	0.3	70.9	-	3,725	28.4	0.4	0.3	70.8	0.0	2,768
Mtito Andei	48.0	0.5	0.2	51.0	0.3	4,479	45.8	0.4	0.1	53.7	0.1	3,008
Thange	49.1	0.5	0.1	50.2	0.1	4,195	44.8	0.6	0.2	54.4	0.1	2,594
Ivingoni/Nzambani	39.3	0.5	0.4	59.7	0.0	4,006	40.3	0.8	0.2	58.6	0.0	2,556

Table 23.17: 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
Makueni County	86.6	0.8	0.1	1.2	11.0	0.2	0.1	0.0	0.1	184,494
Mbooni Constituency	91.5	0.6	0.0	1.4	6.1	0.1	0.1	0.0	0.1	38,236
Tulimani	93.2	0.5	0.0	1.8	4.2	0.1	0.1	0.0	0.1	7,540
Mbooni	97.5	0.8	0.0	0.1	1.1	0.1	0.1	0.0	0.3	7,005
Kithungo/Kitundu	89.6	0.8	0.0	2.2	6.8	0.4	0.0	0.0	0.1	5,435
Kiteta/Kisau	93.1	0.6	0.0	2.3	3.6	0.2	0.1	0.0	0.1	7,924
Waia-Kako	90.8	0.8	0.1	0.3	7.9	0.0	0.0	0.0	0.0	4,830
Kalawa	81.8	0.5	0.0	1.4	16.2	0.0	0.0	0.1	0.1	5,502
Kilome Constituency	87.2	0.6	0.3	1.5	9.8	0.2	0.1	0.0	0.2	19,453
Kasikeu	86.4	0.7	0.4	1.4	10.8	0.2	0.0	0.0	0.1	8,351
Mukaa	92.1	0.3	0.0	3.0	4.3	0.2	0.0	0.0	0.0	5,771
Kiima Kiu/Kalanzeni	83.1	0.8	0.4	0.3	14.1	0.1	0.4	0.0	0.8	5,331
Kaiti Constituency	92.7	0.7	0.2	1.0	5.1	0.1	0.1	0.0	0.0	24,726
Ukia	87.3	1.0	0.0	1.8	9.6	0.1	0.1	0.0	0.0	7,717
Kee	95.7	0.5	0.1	0.0	3.4	0.1	0.1	0.0	0.0	4,590
Kilungu	96.9	0.4	0.7	0.2	1.4	0.1	0.2	0.1	0.0	7,116
Ilima	92.2	0.8	0.1	1.7	4.8	0.1	0.1	0.1	0.1	5,303
Makueni Constituency	79.6	0.7	0.1	0.7	18.6	0.0	0.0	0.0	0.1	38,720
Wote	93.4	0.8	0.1	1.6	4.1	0.0	0.0	0.0	0.0	6,436
Muvau/Kikumini	72.0	0.6	0.1	0.5	26.7	0.0	0.0	0.0	0.0	4,598
Mavindini	74.4	0.6	0.0	1.4	23.5	0.0	0.0	0.1	0.0	4,355
Kitise/Kithuki	76.6	1.2	0.0	1.1	21.1	0.0	0.0	0.0	0.0	4,105
Kathonzweni	77.8	0.8	0.1	0.2	20.5	0.0	0.0	0.0	0.7	5,760
Nzaui/Kilili/Kalamba	72.6	0.5	0.1	0.5	26.1	0.1	0.0	0.0	0.1	7,539
Mbitini	87.5	0.5	0.2	0.1	11.6	0.1	0.0	0.0	0.1	5,927
Kibwezi West Constituency	86.6	0.8	0.2	0.8	11.2	0.3	0.1	0.0	0.1	36,028
Makindu	84.9	0.6	0.0	1.4	12.3	0.8	0.0	0.0	0.0	9,616
Nguumo	86.8	0.7	0.1	0.2	12.0	0.2	0.0	0.1	0.1	5,738
Kikumbulyu North	88.2	1.6	0.1	0.1	9.7	0.0	0.0	0.1	0.1	3,787
Kikumbulyu South	92.7	0.9	0.4	1.9	3.5	0.1	0.3	0.0	0.2	5,862
Nguu/Masumba	76.4	0.6	0.0	0.2	22.4	0.2	0.0	0.1	0.1	4,776
Emali/Mulala	90.0	0.7	0.4	0.2	8.4	0.0	0.0	0.0	0.2	6,249
Kibwezi East Constituency	83.4	1.1	0.2	1.9	12.9	0.4	0.0	0.1	0.1	27,331
Masongaleni	85.5	1.0	0.0	0.2	12.9	0.1	0.0	0.2	0.0	6,493
Mtito Andei	85.1	1.5	0.4	2.9	9.2	0.8	0.0	0.0	0.0	7,487
Thange	84.2	1.0	0.2	0.3	13.9	0.2	0.0	0.0	0.1	6,789
Ivingoni/Nzambani	78.5	0.9	0.1	4.2	16.0	0.2	0.1	0.0	0.0	6,562

Table 23.18: 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
Makueni County	85.9	0.8	0.2	1.2	11.5	0.2	0.1	0.0	0.1	108,060
Mbooni Constituency	91.2	0.6	0.0	1.4	6.3	0.2	0.1	0.0	0.1	21,097
Tulimani	92.6	0.5	-	2.0	4.6	0.1	0.1	0.1	0.1	3,941
Mbooni	97.5	0.7	-	0.1	1.3	0.1	0.0	-	0.3	4,118
Kithungo/Kitundu	89.6	0.7	0.0	2.0	7.0	0.5	0.1	-	0.1	3,132
Kiteta/Kisau	92.2	0.7	0.0	2.5	4.1	0.3	0.1	-	0.1	4,241
Waia-Kako	90.0	1.0	0.0	0.3	8.7	-	-	-	0.1	2,682
Kalawa	82.2	0.4	0.0	1.2	16.1	-	-	0.0	0.2	2,983
Kilome Constituency	86.7	0.7	0.3	1.6	9.9	0.2	0.1	0.0	0.3	11,342
Kasikeu	85.9	0.8	0.4	1.5	11.0	0.2	0.1	0.0	0.0	4,875
Mukaa	91.7	0.5	-	2.8	4.7	0.3	-	-	-	3,231
Kiima Kiu/Kalanzeni	83.0	0.9	0.5	0.4	13.5	0.2	0.4	0.0	1.1	3,236
Kaiti Constituency	92.3	0.7	0.3	1.1	5.3	0.1	0.1	0.0	0.0	13,556
Ukia	87.0	0.9	-	2.0	9.8	0.1	0.1	-	0.0	4,481
Kee	95.8	0.5	0.1	0.0	3.1	0.2	0.1	-	0.1	2,393
Kilungu	96.8	0.4	0.8	0.2	1.5	0.1	0.2	0.0	-	3,797
Ilima	91.6	1.1	0.2	1.9	5.0	0.1	0.1	0.1	-	2,885
Makueni Constituency	79.1	0.7	0.1	0.7	19.2	0.0	0.0	0.0	0.1	23,388
Wote	93.4	0.8	0.1	1.4	4.3	-	0.0	-	0.0	4,245
Muvau/Kikumini	71.9	0.6	0.1	0.5	26.8	0.0	0.0	-	0.1	2,991
Mavindini	72.3	0.6	-	1.1	25.9	-	0.0	0.1	-	2,479
Kitise/Kithuki	75.9	1.1	-	1.0	22.0	-	-	-	0.0	2,288
Kathonzweni	76.9	0.7	0.1	0.2	21.8	-	-	-	0.3	3,383
Nzau/Kilili/Kalamba	71.8	0.5	0.1	0.8	26.6	0.1	0.1	-	0.1	4,507
Mbitini	86.6	0.5	0.2	0.1	12.4	0.1	0.0	-	0.1	3,495
Kibwezi West Constituency	86.1	0.8	0.2	0.9	11.4	0.3	0.1	0.0	0.1	22,272

Makindu	83.7	0.7	0.0	1.7	13.0	0.9	0.0	-	0.1	5,982
Nguumo	85.9	0.7	0.2	0.1	12.8	0.1	0.0	0.0	0.1	3,416
Kikumbulyu North	88.0	1.9	0.1	0.1	9.7	-	-	0.1	0.1	2,250
Kikumbulyu South	92.5	0.8	0.4	2.2	3.3	0.1	0.3	0.0	0.3	3,843
Nguu/Masumba	76.3	0.5	0.0	0.2	22.4	0.2	0.0	0.1	0.2	2,949
Emali/Mulala	90.2	0.7	0.5	0.2	8.1	0.0	-	-	0.2	3,832
Kibwezi East Constituency	82.6	1.3	0.2	2.0	13.3	0.5	0.0	0.1	0.1	16,405
Masongaleni	84.2	1.1	-	0.2	14.0	0.2	0.1	0.2	0.1	3,725
Mtito Andei	84.8	1.9	0.5	2.8	8.9	1.1	0.0	-	0.0	4,479
Thange	83.1	1.1	0.3	0.5	14.6	0.3	-	0.0	0.1	4,195
Ivingoni/Nzambani	78.1	1.0	0.1	4.3	16.1	0.2	0.1	0.0	0.0	4,006

Table 23.19: 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
Makueni County	87.5	0.7	0.1	1.1	10.3	0.1	0.1	0.0	0.1	76,434
Mbooni Constituency	91.9	0.6	0.0	1.4	5.7	0.1	0.0	0.0	0.2	17,139
Tulimani	93.7	0.5	-	1.6	3.9	0.1	0.1	-	0.2	3,599
Mbooni	97.6	1.0	-	0.1	0.8	0.0	0.1	0.0	0.4	2,887
Kithungo/Kitundu	89.7	0.9	-	2.4	6.6	0.3	-	-	0.2	2,303
Kiteta/Kisau	94.2	0.4	0.0	2.0	3.0	0.1	0.1	-	0.1	3,683
Waia-Kako	91.9	0.7	0.1	0.4	6.9	0.0	-	-	-	2,148
Kalawa	81.3	0.6	-	1.6	16.3	-	-	0.1	0.1	2,519
Kilome Constituency	87.8	0.5	0.3	1.5	9.6	0.1	0.1	0.0	0.1	8,111
Kasikeu	87.2	0.6	0.4	1.1	10.6	0.1	-	-	0.1	3,476
Mukaa	92.5	0.2	0.1	3.2	3.7	0.2	0.0	-	0.0	2,540
Kiima Kiu/Kalanzoni	83.2	0.7	0.3	0.2	14.9	0.0	0.4	0.0	0.2	2,095
Kaiti Constituency	93.2	0.7	0.2	0.8	4.8	0.1	0.1	0.1	0.0	11,170

Ukia	87.7	1.2	0.0	1.5	9.3	0.1	0.1	0.0	0.0	3,236
Kee	95.6	0.6	-	-	3.6	0.0	0.1	-	-	2,197
Kilungu	97.0	0.4	0.6	0.2	1.4	0.1	0.2	0.1	-	3,319
Ilima	92.9	0.5	-	1.6	4.7	-	0.1	0.1	0.1	2,418
Makueni Constituency	80.4	0.7	0.1	0.8	17.7	0.0	0.0	0.0	0.2	15,332
Wote	93.3	0.8	0.1	2.1	3.6	0.0	-	-	-	2,191
Muvau/Kikumini	72.1	0.6	0.1	0.6	26.6	-	-	-	-	1,607
Mavindini	77.1	0.7	-	1.7	20.4	-	-	-	-	1,876
Kitise/Kithuki	77.4	1.3	0.1	1.2	20.0	-	-	-	-	1,817
Kathonzweni	79.0	0.9	-	0.2	18.6	-	-	-	1.3	2,377
Nzaui/Kilili/Kalamba	73.7	0.6	-	0.2	25.4	0.1	-	-	-	3,032
Mbitini	88.8	0.4	0.1	0.1	10.4	0.1	0.0	0.0	0.0	2,432
Kibwezi West Constituency	87.3	0.7	0.1	0.6	10.9	0.3	0.0	0.0	0.1	13,756
Makindu	86.8	0.3	0.0	1.0	11.1	0.7	0.0	-	0.0	3,634
Nguumo	88.1	0.7	0.0	0.2	10.7	0.2	-	0.1	-	2,322
Kikumbulyu North	88.7	1.3	-	0.1	9.8	0.1	-	0.1	-	1,537
Kikumbulyu South	93.0	0.9	0.3	1.5	3.9	-	0.2	-	0.1	2,019
Nguu/Masumba	76.6	0.8	0.1	0.1	22.3	0.2	-	0.1	-	1,827
Emali/Mulala	89.8	0.6	0.3	0.2	8.9	0.0	-	-	0.2	2,417
Kibwezi East Constituency	84.6	0.9	0.1	1.8	12.3	0.2	0.0	0.1	0.0	10,926
Masongaleni	87.3	0.9	0.0	0.0	11.4	0.1	-	0.2	0.0	2,768
Mtito Andei	85.7	0.9	0.2	3.0	9.6	0.5	0.0	0.0	0.0	3,008
Thange	85.9	0.9	0.1	0.1	12.9	0.1	-	-	0.1	2,594
Ivingoni/Nzambani	79.0	0.8	0.1	4.0	16.0	0.0	0.0	-	0.0	2,556

Table 23.20: Main material of the wall by County, Constituency and Wards

County/Constituency/ Wards	Stone	Brick/Block	Mud/ Wood	Mud/Cement	Wood only	Corrugat- ed Iron Sheets	Grass/ Reeds	Tin	Other	House- holds
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

Makueni County	2.6	72.6	19.8	3.8	0.4	0.5	0.2	0.0	0.1	184,494
Mbooni Constituency	2.7	82.5	11.4	2.7	0.1	0.1	0.1	0.0	0.2	38,236
Tulimani	7.3	84.0	7.1	1.2	0.1	0.1	0.1	0.0	0.1	7,540
Mbooni	3.7	87.3	5.7	3.0	0.1	0.1	0.0	0.0	0.3	7,005
Kithungo/Kitundu	0.8	87.6	9.4	1.8	0.1	0.1	0.1	0.0	0.1	5,435
Kiteta/Kisau	1.4	85.8	10.3	2.0	0.1	0.2	0.1	0.1	0.1	7,924
Waia-Kako	1.0	71.5	21.4	5.5	0.2	0.1	0.1	0.0	0.2	4,830
Kalawa	0.6	74.6	19.3	4.1	0.3	0.2	0.1	0.0	0.7	5,502
Kilome Constituency	6.5	64.1	22.6	3.6	0.4	2.5	0.1	0.1	0.2	19,453
Kasikeu	6.5	61.8	22.2	4.2	0.7	4.4	0.2	0.0	0.1	8,351
Mukaa	9.8	68.4	18.0	3.6	0.1	0.1	0.1	0.0	0.1	5,771
Kiima Kiu/Kalanzeni	2.9	63.0	28.1	2.5	0.3	2.0	0.2	0.3	0.8	5,331
Kaiti Constituency	2.8	77.8	15.4	3.6	0.1	0.1	0.1	0.0	0.1	24,726
Ukia	0.6	77.6	16.8	4.6	0.2	0.1	0.1	0.0	0.0	7,717
Kee	9.8	85.6	3.6	0.6	0.1	0.2	0.1	0.0	0.0	4,590
Kilungu	2.5	72.8	19.6	4.8	0.1	0.1	0.1	0.0	0.0	7,116
Ilima	0.5	77.9	17.9	3.3	0.1	0.0	0.1	0.0	0.2	5,303
Makueni Constituency	1.1	71.8	21.9	4.7	0.1	0.1	0.2	0.0	0.2	38,720
Wote	3.2	85.6	7.4	3.4	0.1	0.2	0.0	0.0	0.0	6,436
Muvau/Kikumini	0.4	61.3	32.9	4.6	0.1	0.0	0.5	0.0	0.2	4,598
Mavindini	0.2	72.2	21.4	5.7	0.2	0.0	0.3	0.0	0.0	4,355
Kitise/Kithuki	0.3	72.6	22.6	4.1	0.1	0.0	0.1	0.0	0.1	4,105
Kathonzweni	0.3	72.2	18.9	7.4	0.3	0.1	0.1	0.0	0.6	5,760
Nzaui/Kilili/Kalamba	1.3	60.5	32.6	5.3	0.0	0.0	0.1	0.0	0.1	7,539
Mbitini	1.3	77.9	18.0	2.4	0.0	0.1	0.2	0.0	0.1	5,927
Kibwezi West Constituency	1.6	70.4	22.9	3.5	0.3	0.7	0.5	0.0	0.1	36,028
Makindu	0.9	76.5	18.5	3.0	0.1	0.4	0.5	0.1	0.1	9,616
Nguumo	3.5	51.3	37.5	5.5	0.7	0.1	1.3	0.0	0.1	5,738
Kikumbulyu North	0.2	64.2	29.8	4.8	0.4	0.3	0.3	0.0	0.0	3,787
Kikumbulyu South	2.2	80.0	14.1	2.8	0.1	0.2	0.2	0.1	0.3	5,862
Nguu/Masumba	0.8	56.6	35.1	5.9	0.2	1.0	0.3	0.1	0.1	4,776

Emali/Mulala	2.0	83.8	11.0	0.7	0.1	2.1	0.1	0.0	0.2	6,249
Kibwezi East Constituency	2.5	63.8	26.7	5.0	1.4	0.3	0.3	0.0	0.0	27,331
Masongaleni	0.3	62.4	29.4	7.1	0.3	0.2	0.3	0.0	0.0	6,493
Mtito Andei	2.0	71.0	21.2	5.1	0.2	0.5	0.1	0.0	0.0	7,487
Thange	5.2	68.1	21.3	3.6	0.9	0.3	0.5	0.0	0.1	6,789
Ivingoni/Nzambani	2.3	52.7	35.9	4.3	4.2	0.1	0.4	0.0	0.0	6,562

Table 23.21: 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
Makueni County	2.6	71.9	20.3	3.8	0.4	0.6	0.2	0.0	0.1	108,060
Mbooni Constituency	2.7	82.5	11.4	2.7	0.2	0.1	0.1	0.0	0.2	21,097
Tulimani	7.3	84.3	6.7	1.2	0.1	0.1	0.2	-	0.1	3,941
Mbooni	3.5	88.1	5.4	2.6	0.1	0.1	0.0	-	0.2	4,118
Kithungo/Kitundu	0.9	87.1	9.9	1.7	0.0	0.1	0.2	0.0	0.1	3,132
Kiteta/Kisau	1.6	85.0	10.7	2.0	0.2	0.2	0.1	0.1	0.0	4,241
Waia-Kako	1.0	71.6	21.1	5.5	0.3	0.2	0.1	0.0	0.2	2,682
Kalawa	0.6	74.1	19.4	4.4	0.3	0.3	0.1	-	0.8	2,983
Kilome Constituency	6.3	62.3	23.7	3.4	0.5	3.1	0.1	0.1	0.4	11,342
Kasikeu	6.7	60.6	22.3	4.1	0.9	5.1	0.2	0.1	0.0	4,875
Mukaa	9.2	69.0	18.2	3.3	0.1	0.1	0.1	-	0.1	3,231
Kiima Kiu/Kalanzoni	2.9	58.3	31.3	2.5	0.3	2.9	0.2	0.4	1.1	3,236
Kaiti Constituency	2.6	78.2	15.2	3.6	0.1	0.1	0.1	0.0	0.0	13,556
Ukia	0.6	77.5	16.9	4.7	0.2	0.1	0.0	0.0	0.0	4,481
Kee	9.0	86.4	3.4	0.7	0.1	0.2	0.2	-	-	2,393
Kilungu	2.4	73.6	18.9	4.6	0.2	0.2	0.1	-	0.0	3,797
Ilima	0.5	78.6	17.6	3.0	0.1	0.0	0.1	-	0.1	2,885
Makueni Constituency	1.3	71.2	22.3	4.7	0.1	0.1	0.1	0.0	0.1	23,388

Wote	3.2	85.2	7.7	3.4	0.1	0.3	0.0	0.0	0.0	4,245
Muvau/Kikumini	0.5	60.9	32.9	5.0	0.1	0.1	0.4	-	0.1	2,991
Mavindini	0.3	70.5	22.7	6.1	0.1	0.0	0.3	-	0.0	2,479
Kitise/Kithuki	0.3	71.6	24.0	3.5	0.1	0.0	0.1	-	0.2	2,288
Kathonzweni	0.4	71.7	19.8	7.3	0.4	0.1	0.1	-	0.2	3,383
Nzau/Kilili/Kalamba	1.5	59.9	32.9	5.4	0.0	0.0	0.1	0.0	0.1	4,507
Mbitini	1.4	77.3	18.6	2.4	0.0	0.1	0.1	0.0	0.1	3,495
Kibwezi West Constituency	1.7	70.2	22.8	3.6	0.2	0.7	0.5	0.1	0.2	22,272
Makindu	1.0	76.0	18.6	3.1	0.2	0.5	0.6	0.1	0.1	5,982
Nguumo	3.8	49.7	38.9	5.3	0.8	0.1	1.2	-	0.1	3,416
Kikumbulyu North	0.3	65.4	29.4	4.1	0.3	0.3	0.2	-	-	2,250
Kikumbulyu South	2.0	79.5	14.4	3.2	0.1	0.3	0.2	0.1	0.4	3,843
Nguu/Masumba	0.8	56.2	34.4	6.2	0.2	1.4	0.4	0.1	0.2	2,949
Emali/Mulala	2.1	83.9	10.9	0.6	0.1	2.0	0.1	0.1	0.2	3,832
Kibwezi East Constituency	2.8	62.9	27.2	4.8	1.6	0.4	0.3	0.0	0.0	16,405
Masongaleni	0.4	60.5	30.8	7.2	0.5	0.3	0.3	0.1	0.0	3,725
Mtito Andei	2.3	70.5	21.1	4.9	0.2	0.7	0.1	0.0	0.0	4,479
Thange	5.9	67.1	21.3	3.3	1.3	0.4	0.5	-	0.1	4,195
Ivingoni/Nzambani	2.2	52.2	36.7	4.0	4.3	0.1	0.4	0.0	0.0	4,006

Table 23.22: 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	Corrugated 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
Makueni County	2.6	73.5	19.1	3.9	0.3	0.3	0.2	0.0	0.1	76,434
Mbooni Constituency	2.7	82.6	11.5	2.8	0.1	0.1	0.1	-	0.3	17,139
Tulimani	7.3	83.6	7.5	1.2	0.0	0.1	0.1	-	0.2	3,599
Mbooni	3.9	86.1	6.0	3.5	0.0	0.0	0.1	-	0.3	2,887
Kithungo/Kitundu	0.7	88.1	8.8	1.9	0.1	0.0	0.1	-	0.2	2,303
Kiteta/Kisau	1.2	86.7	9.9	2.0	0.0	0.1	0.0	-	0.1	3,683

Waia-Kako	0.9	71.4	21.7	5.4	0.1	-	0.0	-	0.3	2,148
Kalawa	0.5	75.3	19.3	3.7	0.4	0.2	0.1	-	0.7	2,519
Kilome Constituency	6.7	66.5	21.0	3.7	0.2	1.6	0.1	0.0	0.1	8,111
Kasikeu	6.2	63.5	22.0	4.3	0.3	3.4	0.2	0.0	0.1	3,476
Mukaa	10.5	67.6	17.8	3.9	0.0	0.0	0.1	-	0.0	2,540
Kiima Kiu/Kalanzoni	3.0	70.2	23.2	2.5	0.2	0.6	0.2	0.1	0.1	2,095
Kaiti Constituency	3.2	77.2	15.6	3.7	0.1	0.1	0.1	0.0	0.1	11,170
Ukia	0.6	77.8	16.6	4.4	0.1	0.2	0.1	0.0	0.0	3,236
Kee	10.6	84.8	3.7	0.6	0.2	0.1	0.0	0.0	-	2,197
Kilungu	2.6	71.8	20.4	4.9	0.1	0.0	0.1	0.0	-	3,319
Ilima	0.6	77.0	18.3	3.7	-	-	0.1	-	0.3	2,418
Makueni Constituency	1.0	72.7	21.1	4.7	0.1	0.0	0.2	0.0	0.2	15,332
Wote	3.1	86.2	7.0	3.4	0.1	0.0	0.0	-	-	2,191
Muvau/Kikumini	0.4	62.0	32.9	3.7	0.1	-	0.7	-	0.2	1,607
Mavindini	0.1	74.4	19.8	5.3	0.2	0.1	0.2	-	-	1,876
Kitise/Kithuki	0.3	73.9	20.8	4.7	0.2	-	0.1	-	-	1,817
Kathonzweni	0.3	72.9	17.6	7.6	0.1	0.1	0.0	-	1.3	2,377
Nzaui/Kilili/Kalamba	1.1	61.5	32.2	5.1	0.0	-	0.1	-	-	3,032
Mbitini	1.1	78.9	17.1	2.5	0.0	-	0.2	0.0	0.0	2,432
Kibwezi West Constituency	1.5	70.7	23.0	3.5	0.3	0.5	0.4	0.0	0.1	13,756
Makindu	0.9	77.3	18.3	2.7	0.1	0.2	0.5	-	0.1	3,634
Nguumo	3.1	53.7	35.4	5.8	0.7	-	1.4	-	-	2,322
Kikumbulyu North	-	62.5	30.4	5.9	0.7	0.3	0.3	-	-	1,537
Kikumbulyu South	2.6	81.1	13.6	2.1	0.0	0.0	0.1	0.1	0.2	2,019
Nguu/Masumba	0.7	57.4	36.2	5.3	0.2	0.3	-	-	-	1,827
Emali/Mulala	1.8	83.5	11.2	0.9	0.1	2.3	0.0	0.0	0.2	2,417
Kibwezi East Constituency	2.1	65.3	25.9	5.3	1.0	0.1	0.3	0.0	0.0	10,926
Masongaleni	0.3	64.9	27.4	7.0	0.1	0.1	0.2	0.0	-	2,768
Mtito Andei	1.5	71.8	21.2	5.4	0.1	0.0	0.1	0.0	-	3,008
Thange	4.1	69.8	21.2	4.0	0.3	0.1	0.4	0.0	0.1	2,594
Ivingoni/Nzambani	2.6	53.5	34.5	4.7	4.0	0.2	0.4	-	0.0	2,556

Table 23.23: Source of Water by County, Constituency and Ward

County/Constituency/ Wards	Pond	Dam	Lake	Stream/ River	Unprotected Spring	Unprotected Well	Jabia	Water vendor	Other	Unimproved Sources	Protected Spring	Protected Well	Borehole	Piped into Dwelling	Piped	Rain Water Collection	Improved Sources	Number of Individuals
Kenya	2.7	2.4	1.2	23.2	5.0	6.9	0.3	5.2	0.4	47.4	7.6	7.7	11.6	5.9	19.2	0.7	52.6	37,919,647
Rural	3.6	3.2	1.5	29.6	6.4	8.7	0.4	2.2	0.5	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
Makueni County	0.3	5.0	0.0	34.9	10.2	10.7	0.1	3.0	0.0	64.3	3.1	7.5	5.0	2.1	17.7	0.4	35.7	874,323
Mbooni Constituency	0.3	5.7	0.1	40.8	19.7	17.6	0.1	1.2	0.0	85.5	5.5	3.5	1.6	0.7	2.8	0.4	14.5	183,475
Tulimani	0.0	8.1	0.1	42.0	21.6	12.2	0.1	1.8	0.0	85.9	4.4	4.8	1.0	0.9	2.5	0.4	14.1	35,039
Mbooni	0.4	0.4	0.2	13.1	29.9	21.7	0.1	3.5	0.0	69.3	18.5	6.7	0.3	1.1	3.0	1.1	30.7	33,546
Kithungo/Kitundu	1.4	1.0	0.0	5.7	51.1	25.5	0.1	0.2	0.0	85.1	6.5	6.2	0.1	0.5	1.4	0.3	14.9	28,097
Kiteta/Kisau	0.1	5.7	0.0	67.1	9.5	8.8	0.1	0.1	0.0	91.4	1.5	1.4	0.3	1.2	4.1	0.2	8.6	36,678
Waia-Kako	0.0	13.7	0.0	73.8	2.9	5.3	0.1	0.7	0.0	96.4	0.1	0.5	0.7	0.1	2.3	0.0	3.6	23,045
Kalawa	0.0	7.5	0.0	46.5	0.3	33.5	0.0	0.3	0.0	88.1	0.1	0.4	8.0	0.2	3.2	0.0	11.9	27,070
Kilome Constituency	0.9	7.6	0.0	28.9	7.7	8.0	0.2	2.5	0.0	55.8	2.2	3.5	12.1	2.1	23.5	0.8	44.2	86,468
Kasikeu	0.2	0.0	0.0	33.1	10.3	8.8	0.1	3.7	0.0	56.1	1.1	3.0	7.8	3.7	28.0	0.2	43.9	37,549
Mukaa	1.8	2.8	0.0	45.1	10.2	6.3	0.5	2.4	0.0	69.1	5.4	4.2	5.4	0.2	13.7	1.9	30.9	26,285
Kiima Kiu/Kalanzeni	1.1	25.6	0.0	3.1	0.6	8.8	0.1	0.7	0.0	40.0	0.2	3.4	26.8	1.5	27.6	0.5	60.0	22,634
Kaiti Constituency	0.4	4.5	0.1	28.6	26.3	21.3	0.5	1.4	0.0	83.1	8.1	4.8	0.6	0.7	1.6	1.1	16.9	119,511
Ukia	0.7	0.7	0.1	45.7	7.7	31.6	0.1	2.7	0.0	89.3	1.1	5.5	0.9	1.3	1.4	0.4	10.7	38,271
Kee	0.4	21.4	0.1	42.2	6.8	18.1	1.0	0.4	0.0	90.4	2.7	1.6	0.9	0.0	1.8	2.6	9.6	20,926
Kilungu	0.1	1.9	0.0	14.3	47.3	10.1	0.9	1.7	0.0	76.3	17.1	3.6	0.3	0.3	1.0	1.5	23.7	33,866

Ilina	0.2	0.0	0.0	0.0	11.5	41.6	23.3	0.1	0.1	0.0	76.9	10.9	7.7	0.5	0.9	2.6	0.4	23.1	26,448
Makueni Constituency	0.0	10.8	0.0	0.0	48.5	6.5	10.1	0.1	4.7	0.0	80.8	2.3	6.6	4.1	0.7	5.4	0.1	19.2	190,865
Wote	0.1	3.5	0.0	0.0	35.5	0.1	15.6	0.1	29.3	0.0	84.3	0.2	1.1	9.9	1.6	2.7	0.3	15.7	23,755
Muvau/Kikumini	0.0	29.6	0.1	0.1	28.1	4.9	15.8	0.0	0.8	0.0	79.4	1.5	14.5	4.1	0.0	0.3	0.1	20.6	24,286
Mavindini	0.1	29.3	0.1	0.1	62.0	2.3	0.4	0.0	1.2	0.0	95.5	0.2	1.3	2.8	0.0	0.1	0.1	4.5	23,236
Kilise/Kithuki	0.0	3.1	0.0	0.0	52.9	0.3	23.4	0.0	0.8	0.0	80.7	0.3	5.6	2.0	0.2	11.2	0.1	19.3	21,847
Kathonzweni	0.0	16.5	0.1	0.1	48.5	0.2	11.2	0.4	2.7	0.0	79.6	0.3	13.1	3.0	0.4	3.5	0.1	20.4	30,486
Nzau/Kilili/Kalamba	0.0	0.0	0.0	0.0	59.6	6.2	5.8	0.0	1.0	0.0	72.7	2.5	6.2	3.8	2.1	12.7	0.0	27.3	36,951
Mbitini	0.0	0.1	0.0	0.0	47.8	27.3	3.3	0.1	0.4	0.0	79.0	9.4	3.3	3.5	0.1	4.4	0.2	21.0	30,304
Kibwezi West Constituency	0.1	0.1	0.0	0.0	32.5	0.7	1.4	0.0	4.6	0.0	39.6	0.2	5.5	6.6	5.7	42.4	0.1	60.4	163,590
Makindu	0.1	0.1	0.0	0.0	30.2	1.7	0.8	0.0	3.4	0.0	36.3	0.1	1.3	4.0	11.2	47.0	0.0	63.7	41,073
Nguumo	0.2	0.0	0.0	0.0	0.2	0.2	3.3	0.0	2.5	0.0	6.5	0.1	22.7	16.6	3.9	50.3	0.0	93.5	28,135
Kikumbulyu North	0.2	0.0	0.0	0.0	28.2	0.0	0.2	0.1	14.7	0.0	43.5	0.1	0.1	0.1	4.4	51.7	0.1	56.5	20,064
Kikumbulyu South	0.1	0.4	0.1	0.1	31.8	1.1	2.3	0.0	2.8	0.0	38.5	0.8	1.0	0.9	8.6	50.2	0.0	61.5	25,571
Nguu/Masumba	0.0	0.2	0.0	0.0	76.3	0.1	0.3	0.0	1.1	0.0	78.0	0.4	7.3	13.8	0.1	0.3	0.1	22.0	23,741
Emali/Mulala	0.1	0.0	0.1	0.1	35.3	0.5	1.4	0.0	5.9	0.0	43.4	0.1	0.3	3.7	2.2	50.1	0.2	56.6	25,006
Kibwezi East Constituency	0.4	0.5	0.0	0.0	19.6	1.0	5.7	0.1	2.7	0.0	30.0	0.3	21.9	8.6	2.5	36.6	0.1	70.0	130,414
Masongaleni	1.1	2.0	0.0	0.0	39.7	0.0	2.2	0.0	1.7	0.0	46.9	0.1	4.2	3.8	1.2	43.7	0.1	53.1	32,156
Mtito Andei	0.1	0.0	0.0	0.0	28.0	0.9	5.2	0.3	6.1	0.0	40.7	0.1	3.6	8.2	3.4	43.9	0.1	59.3	34,419
Thange	0.3	0.0	0.0	0.0	8.6	1.7	9.9	0.0	2.2	0.0	22.8	0.5	41.1	8.1	1.6	25.9	0.0	77.2	31,641
Ivingoni/Nzambani	0.0	0.1	0.0	0.0	1.3	1.3	5.7	0.0	0.5	0.0	9.0	0.4	40.2	14.2	3.8	32.3	0.0	91.0	32,198

Table 23.24: Source of Water of Male headed Household by County, Constituency and Ward

County/Constituency/ Wards	Pond	Dam	Lake	Stream/ River	Unpro- tected Spring	Unpro- tected Well	Jabia	Water vendor	Other	Unimproved Sources	Protected Spring	Protect- ed Well	Borehole	Piped into Dwelling	Piped	Rain Water Collection	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	25,755,066
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
Makueni County	0.3	4.9	0.0	34.3	9.9	10.5	0.1	3.1	0.0	63.2	3.1	7.7	5.2	2.3	18.2	0.4	36.8	533,546
Mbooni Constituency	0.3	5.3	0.1	39.3	20.3	17.6	0.1	1.4	-	84.3	6.1	3.7	1.7	0.9	3.0	0.4	15.7	106,590
Tulimani	-	8.0	0.2	42.7	20.6	12.2	0.1	2.2	-	86.0	3.9	4.6	1.2	0.9	2.9	0.5	14.0	19,253
Mbooni	0.4	0.3	0.2	12.4	29.4	20.2	0.1	3.8	-	66.7	20.4	6.8	0.4	1.6	3.0	1.1	33.3	21,060
Kithungo/Kitundu	1.4	0.6	-	4.7	52.3	25.4	0.1	0.2	-	84.8	6.1	6.8	0.1	0.6	1.2	0.4	15.2	17,424
Kiteta/Kisau	0.1	5.4	0.0	65.6	9.6	9.3	0.1	0.2	-	90.4	1.8	1.3	0.3	1.2	4.6	0.2	9.6	20,380
Waia-Kako	0.0	12.9	0.1	74.5	2.8	5.2	0.1	0.7	-	96.3	0.1	0.5	0.5	0.1	2.6	-	3.7	13,154
Kalawa	0.0	7.0	0.1	46.1	0.3	33.4	-	0.4	-	87.3	0.1	0.4	8.6	0.2	3.2	0.1	12.7	15,319
Kilome Constituency	1.0	7.2	0.0	28.1	7.4	7.6	0.2	2.5	0.0	54.1	2.1	3.5	12.3	2.2	24.9	0.8	45.9	51,945
Kasikeu	0.2	0.0	0.0	32.0	9.8	8.5	0.1	3.7	0.0	54.4	1.1	3.1	8.0	4.0	29.3	0.2	45.6	22,902
Mukaa	2.1	3.0	-	44.9	10.0	5.7	0.6	2.1	0.0	68.4	5.4	4.3	5.6	0.2	14.1	2.1	31.6	15,467
Kiima Kiu/Kalanzoni	1.2	24.2	0.0	2.4	0.4	8.4	0.1	0.8	-	37.5	0.2	3.2	27.1	1.5	29.9	0.6	62.5	13,576
Kaiti Constituency	0.3	4.4	0.1	29.0	25.6	21.2	0.5	1.4	0.0	82.5	8.1	4.9	0.6	0.9	1.8	1.2	17.5	69,725
Ukia	0.6	0.6	0.1	45.7	8.0	31.4	0.1	2.4	-	89.0	1.0	5.6	0.9	1.7	1.4	0.5	11.0	23,291
Kee	0.3	21.5	0.0	43.5	6.5	17.0	0.9	0.3	-	90.0	2.4	1.7	0.9	-	1.9	3.0	10.0	11,761
Kilungu	0.0	1.9	0.0	14.6	46.5	9.4	1.0	2.0	-	75.6	17.6	3.6	0.2	0.3	1.0	1.8	24.4	19,145

Ilima	0.3	-	0.1	10.7	40.9	23.5	0.1	0.1	0.0	75.7	11.3	7.9	0.5	1.0	3.2	0.3	24.3	15,528
Makueni Constituency	0.1	10.9	0.1	47.4	6.6	10.3	0.1	4.7	0.0	80.2	2.3	7.0	4.2	0.8	5.4	0.1	19.8	120,943
Wote	0.1	3.4	0.0	36.0	0.1	15.5	0.1	28.9	0.0	84.0	0.2	1.2	10.3	1.6	2.4	0.3	16.0	16,341
Muvau/Kikumini	0.0	29.2	0.1	26.6	5.0	16.7	0.0	0.9	-	78.4	1.6	15.5	4.0	0.1	0.3	0.1	21.6	16,230
Mavindini	0.1	30.0	0.1	61.4	2.3	0.5	0.0	1.1	-	95.5	0.2	1.5	2.5	-	0.1	0.2	4.5	13,903
Klitise/Kithuki	-	3.3	-	52.7	0.3	23.0	0.0	0.8	-	80.1	0.3	5.8	1.8	0.2	11.6	0.1	19.9	12,754
Kathonzwani	0.1	17.4	0.1	46.6	0.1	11.6	0.3	1.6	0.0	77.7	0.3	13.9	3.0	0.4	4.5	0.1	22.3	18,776
Nzau/Kilili/Kalamba	0.0	0.0	-	59.5	5.5	6.3	0.0	0.9	0.1	72.2	2.5	6.4	4.3	2.2	12.3	-	27.8	23,753
Mbitini	0.0	0.1	0.1	46.9	28.6	3.1	0.1	0.5	0.0	79.4	9.0	3.6	3.2	0.1	4.4	0.3	20.6	19,186
Kibwezi West Constituency	0.1	0.1	0.0	32.0	0.8	1.4	0.0	4.6	0.0	39.1	0.3	5.7	6.4	6.1	42.4	0.1	60.9	104,010
Makindu	0.1	0.1	-	30.0	1.9	0.6	0.0	3.4	-	36.2	0.1	1.2	3.6	11.4	47.5	0.0	63.8	26,332
Nguumo	0.3	0.1	-	0.3	0.2	3.2	0.1	1.9	-	6.0	0.1	24.5	15.7	4.2	49.5	0.0	94.0	17,590
Kikumbulyu North	0.1	0.0	0.0	26.0	0.1	0.3	0.1	15.0	-	41.6	0.1	0.1	0.2	4.7	53.2	0.1	58.4	12,266
Kikumbulyu South	0.1	0.4	0.1	32.8	1.1	2.4	-	2.4	-	39.4	0.9	0.9	0.8	9.2	48.8	0.0	60.6	16,988
Nguu/Masumba	-	0.2	-	75.1	0.1	0.3	0.0	1.3	-	77.0	0.5	7.7	14.4	0.1	0.3	-	23.0	14,997
Enali/Mulala	0.1	-	0.1	33.8	0.4	1.4	-	6.6	0.0	42.4	0.1	0.4	3.9	2.7	50.5	0.2	57.6	15,837
Kibwezi East Constituency	0.3	0.5	0.0	19.5	1.1	5.6	0.1	2.7	-	29.9	0.3	21.9	9.0	2.7	36.2	0.1	70.1	80,333
Masongaleni	0.9	2.1	0.0	41.7	0.1	2.0	0.0	1.7	-	48.6	0.2	3.9	3.8	1.3	42.1	0.1	51.4	19,032
Mtito Andei	0.1	0.1	-	27.5	0.9	5.1	0.5	6.4	-	40.4	0.1	3.5	8.6	3.4	43.8	0.2	59.6	21,092
Thange	0.4	0.0	-	8.3	1.9	9.2	0.0	2.1	-	21.9	0.6	39.8	8.7	1.8	27.2	0.0	78.1	19,766
Ivingoni/Nzambani	0.0	0.1	-	1.3	1.3	6.0	0.0	0.5	-	9.3	0.4	40.2	14.4	4.2	31.6	0.0	90.7	20,443

Table 23.25: Source of Water of Female headed Household by County, Constituency and Ward

County/Constituency/ Wards	Pond	Dam	Lake	Stream/ River	Unpro- tected Spring	Unpro- tected Well	Jabia	Water vendor	Other	Unim- proved Sources	Protected Spring	Protected Well	Borehole	Piped into Dwelling	Piped	Rain Water Collection	Improved Sources	Number of Individuals
Kenya	2.8	2.7	1.3	25.2	5.3	7.4	0.3	4.4	0.3	49.7	8.1	7.7	11.3	5.1	17.5	0.7	50.3	11,164,581
Rural	3.4	3.5	1.6	30.6	6.5	8.9	0.3	1.8	0.4	57.0	9.5	8.0	11.5	1.6	11.7	0.8	43.0	8,058,724
Urban	1.0	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
Makueni County	0.3	5.2	0.0	35.9	10.6	11.1	0.1	2.8	0.0	66.2	3.0	7.1	4.8	1.7	16.9	0.3	33.8	340,777
Mbooni Constituency	0.3	6.4	0.0	42.9	18.9	17.5	0.1	0.9	0.0	87.1	4.7	3.2	1.5	0.5	2.6	0.3	12.9	76,885
Tulimani	0.1	8.3	-	41.0	22.8	12.2	0.1	1.4	-	85.9	5.0	5.0	0.8	0.9	2.1	0.3	14.1	15,786
Mbooni	0.4	0.6	0.1	14.2	30.8	24.4	0.0	3.1	0.0	73.7	15.3	6.3	0.1	0.4	3.1	1.0	26.3	12,486
Kithungo/Kitundu	1.5	1.7	-	7.3	49.2	25.6	0.1	0.2	-	85.5	7.0	5.2	0.2	0.2	1.7	0.2	14.5	10,673
Kiteta/Kisau	0.0	5.9	0.0	69.0	9.5	8.1	0.0	0.1	-	92.6	1.1	1.4	0.2	1.0	3.5	0.1	7.4	16,298
Waia-Kako	-	14.6	-	73.0	2.9	5.3	0.0	0.7	-	96.6	0.0	0.5	1.0	0.1	1.8	-	3.4	9,891
Kalawa	-	8.1	-	47.0	0.3	33.5	0.1	0.1	-	89.1	-	0.4	7.2	0.2	3.1	-	10.9	11,751
Kilome Constituency	0.8	8.1	0.0	30.1	8.1	8.5	0.2	2.6	-	58.4	2.3	3.5	11.8	1.8	21.5	0.7	41.6	34,523
Kasikeu	0.2	0.0	-	34.8	11.0	9.1	0.1	3.7	-	58.9	1.2	2.9	7.6	3.3	26.0	0.1	41.1	14,647
Mukaa	1.4	2.6	-	45.4	10.4	7.1	0.4	2.8	-	70.1	5.5	4.2	5.2	0.2	13.1	1.7	29.9	10,818
Kiima Kiu/Kalanizoni	1.0	27.7	0.1	4.1	0.8	9.2	0.1	0.6	-	43.6	0.1	3.8	26.4	1.4	24.2	0.5	56.4	9,058
Kaiti Constituency	0.4	4.7	0.1	28.1	27.1	21.6	0.5	1.4	-	83.9	8.1	4.6	0.6	0.5	1.5	0.9	16.1	49,786
Ukia	0.9	0.7	0.2	45.8	7.2	32.0	0.0	3.1	-	89.9	1.2	5.5	0.8	0.8	1.4	0.3	10.1	14,980
Kee	0.4	21.3	0.1	40.5	7.1	19.6	1.1	0.5	-	90.9	2.9	1.5	0.8	-	1.8	2.1	9.1	9,165
Kilungu	0.1	1.8	0.0	14.0	48.4	11.1	0.8	1.2	-	77.3	16.4	3.6	0.4	0.3	1.0	1.1	22.7	14,721

Ilima	0.1	-	-	12.6	42.7	23.1	0.1	0.1	-	78.6	10.4	7.5	0.5	0.6	1.9	0.4	21.4	10,920
Makueni Constituency	0.0	10.6	0.0	50.3	6.4	9.8	0.1	4.6	-	81.9	2.3	5.9	3.8	0.6	5.3	0.1	18.1	69,922
Wote	0.1	3.7	-	34.2	0.2	16.1	0.2	30.2	-	84.7	0.1	0.7	9.2	1.5	3.3	0.5	15.3	7,414
Muvau/Kikumini	-	30.6	0.1	31.1	4.9	14.1	-	0.6	-	81.4	1.3	12.6	4.2	-	0.4	0.1	18.6	8,056
Mavindini	0.1	28.3	0.2	62.9	2.3	0.3	-	1.3	-	95.4	0.2	1.0	3.3	-	0.1	0.0	4.6	9,333
Klitse/Kithuki	-	2.9	-	53.3	0.3	24.1	-	0.8	-	81.4	0.3	5.3	2.3	0.1	10.5	0.1	18.6	9,093
Kathonzwani	0.0	15.2	-	51.4	0.2	10.7	0.6	4.5	-	82.7	0.1	11.8	3.0	0.3	2.0	0.1	17.3	11,710
Nzau/Kilili/Kalamba	0.0	0.0	-	59.8	7.4	5.0	0.0	1.3	-	73.6	2.4	5.7	2.8	1.9	13.5	0.0	26.4	13,198
Mbitini	0.0	0.0	-	49.4	25.1	3.5	0.1	0.3	-	78.4	10.3	2.8	4.0	0.1	4.3	0.2	21.6	11,118
Kibwezi West Constituency	0.1	0.1	0.0	33.3	0.6	1.5	0.0	4.6	-	40.4	0.2	5.0	6.9	5.1	42.3	0.1	59.6	59,580
Makindu	0.1	0.1	-	30.6	1.4	1.0	-	3.3	-	36.5	0.0	1.5	4.9	10.9	46.2	0.1	63.5	14,741
Nguumo	0.1	-	-	0.0	0.2	3.5	-	3.4	-	7.2	0.1	19.7	18.0	3.3	51.7	-	92.8	10,545
Kikumbulyu North	0.3	-	0.0	31.8	-	0.1	0.1	14.2	-	46.6	0.0	0.1	0.1	3.9	49.4	-	53.4	7,798
Kikumbulyu South	0.2	0.3	0.1	29.6	0.9	2.2	-	3.6	-	36.9	0.5	1.2	1.0	7.2	53.1	-	63.1	8,583
Nguu/Masumba	0.1	0.3	-	78.3	0.0	0.3	0.0	0.8	-	79.8	0.3	6.7	12.7	0.1	0.2	0.2	20.2	8,744
Enaili/Mulala	0.1	0.1	-	38.0	0.6	1.5	0.0	4.8	-	45.1	0.1	0.2	3.5	1.4	49.5	0.2	54.9	9,169
Kibwezi East Constituency	0.5	0.5	0.0	19.8	0.9	6.0	0.0	2.6	0.0	30.3	0.3	21.9	8.0	2.2	37.2	0.1	69.7	50,081
Masongaleni	1.5	2.0	-	36.7	0.0	2.5	-	1.8	-	44.4	0.1	4.6	3.8	1.0	45.9	0.1	55.6	13,124
Mtito Andei	0.1	-	-	28.9	0.9	5.4	0.1	5.5	0.0	41.1	0.1	3.8	7.5	3.4	43.9	0.1	58.9	13,327
Thange	0.2	0.1	0.0	9.2	1.3	11.1	-	2.3	-	24.3	0.5	43.1	7.3	1.2	23.7	-	75.7	11,875
Ivingoni/Nzambani	0.0	0.0	-	1.3	1.4	5.2	-	0.5	0.0	8.5	0.5	40.3	14.0	3.2	33.5	0.1	91.5	11,755

Table 23.26: Human Waste Disposal by County, Constituency and Ward

County/ Constituency	Main Sewer	Septic Tank	Cess Pool	VIP Latrine	Pit Latrine	Improved Sanitation	Pit Latrine Uncovered	Bucket	Bush	Other	Unimproved Sanitation	Number of HH Memmbers
Kenya	5.91	2.76	0.27	4.57	47.62	61.14	20.87	0.27	17.58	0.14	38.86	37,919,647
Rural	0.14	0.37	0.08	3.97	48.91	53.47	22.32	0.07	24.01	0.13	46.53	26,075,195
Urban	18.61	8.01	0.70	5.90	44.80	78.02	17.67	0.71	3.42	0.18	21.98	11,844,452
Makueni County	0.34	0.23	0.09	5.27	50.01	55.95	42.35	0.04	1.63	0.03	44.05	874,323
Mbooni Constituency	0.02	0.11	0.04	3.35	31.17	34.68	63.79	0.02	1.47	0.04	65.32	183,475
Tulimani	0.02	0.07	0.02	1.65	39.90	41.67	57.55	0.01	0.69	0.09	58.33	35,039
Mbooni	0.00	0.32	0.01	6.89	43.04	50.27	49.11	0.06	0.57	0.00	49.73	33,546
Kithungo/Kitundu	0.02	0.03	0.05	1.61	10.25	11.95	87.54	0.01	0.51	0.00	88.05	28,097
Kiteta/Kisau	0.03	0.15	0.04	1.10	14.76	16.08	82.75	0.01	1.14	0.02	83.92	36,678
Waia-Kako	0.01	0.05	0.02	9.43	30.90	40.41	57.21	0.00	2.31	0.08	59.59	23,045
Kalawa	0.01	0.01	0.09	0.82	49.31	50.25	45.34	0.02	4.35	0.05	49.75	27,070
Kilome Constituency	0.45	0.25	0.21	4.21	39.17	44.30	54.81	0.01	0.84	0.03	55.70	86,468
Kasikeu	0.97	0.26	0.40	6.11	33.97	41.71	56.98	0.01	1.29	0.01	58.29	37,549
Mukaa	0.08	0.02	0.05	1.50	45.49	47.14	52.44	0.02	0.31	0.09	52.86	26,285
Kiima Kiu/Kalan-zoni	0.02	0.52	0.08	4.21	40.46	45.29	53.98	0.00	0.72	0.01	54.71	22,634
Kaiti Constituency	0.05	0.14	0.03	5.53	53.28	59.03	40.37	0.02	0.54	0.03	40.97	119,511
Ukia	0.10	0.08	0.01	7.62	29.48	37.28	61.66	0.01	1.04	0.01	62.72	38,271
Kee	0.00	0.11	0.01	4.46	66.91	71.49	28.13	0.02	0.36	0.00	28.51	20,926
Kilungu	0.00	0.30	0.09	3.63	80.13	84.14	15.60	0.05	0.19	0.02	15.86	33,866
Ilima	0.08	0.05	0.02	5.76	42.57	48.48	50.99	0.01	0.43	0.09	51.52	26,448
Makueni Constituency	0.12	0.13	0.04	5.88	65.64	71.81	27.17	0.04	0.95	0.03	28.19	190,865
Wote	0.60	0.47	0.06	21.65	67.17	89.95	9.70	0.00	0.32	0.03	10.05	23,755
Muvau/Kikumini	0.11	0.00	0.08	5.77	41.33	47.29	51.17	0.07	1.46	0.01	52.71	24,286
Mavindini	0.00	0.09	0.03	5.54	66.64	72.30	26.08	0.00	1.62	0.00	27.70	23,236
Kitise/Kithuki	0.00	0.01	0.03	2.64	60.34	63.02	35.60	0.11	1.25	0.02	36.98	21,847
Kathonzweni	0.02	0.10	0.00	2.10	68.39	70.62	28.69	0.02	0.65	0.02	29.38	30,486
Nzaui/Kiili/Kalamba	0.02	0.16	0.03	2.68	80.61	83.49	15.43	0.06	0.97	0.04	16.51	36,951
Mbitini	0.15	0.05	0.06	3.92	66.00	70.19	29.18	0.02	0.57	0.04	29.81	30,304
Kibwezi West Constituency	0.24	0.52	0.24	6.91	53.00	60.91	36.30	0.07	2.70	0.02	39.09	163,590
Makindu	0.09	0.48	0.64	8.03	59.61	68.86	29.28	0.04	1.80	0.02	31.14	41,073
Nguumo	0.09	0.09	0.04	5.00	48.80	54.01	42.83	0.02	3.12	0.01	45.99	28,135
Kikumbulyu North	0.02	0.14	0.05	7.52	54.85	62.60	30.53	0.00	6.86	0.01	37.40	20,064
Kikumbulyu South	1.04	1.90	0.05	4.26	64.09	71.34	25.15	0.30	3.20	0.02	28.66	25,571
Nguu/Masumba	0.03	0.06	0.05	6.10	75.93	82.17	16.07	0.00	1.76	0.00	17.83	23,741
Emali/Mulala	0.22	0.39	0.33	10.20	12.26	23.40	75.75	0.04	0.75	0.06	76.60	25,006
Kibwezi East Constituency	1.46	0.26	0.05	5.50	54.05	61.32	35.56	0.08	3.00	0.04	38.68	130,414
Masongaleni	0.04	0.12	0.00	3.78	51.95	55.90	40.74	0.06	3.21	0.09	44.10	32,156
Mtito Andei	1.63	0.12	0.13	4.69	51.70	58.27	38.33	0.15	3.22	0.03	41.73	34,419
Thange	4.16	0.56	0.03	5.73	62.14	72.61	25.36	0.04	1.98	0.00	27.39	31,641
Ivingoni/Nzambani	0.03	0.25	0.02	7.88	50.71	58.90	37.44	0.06	3.56	0.03	41.10	32,198

Table 23.27: Human Waste Disposal in Male Headed household by County, Constituency and Ward

County/ Constituency/wards	Main Sewer	Septic Tank	Cess Pool	VIP Latrine	Pit Latrine	Improved Sanitation	Pit Latrine Uncovered	Bucket	Bush	Other	Unimproved Sanitation	Number of HH Memmbers
Kenya	6.30	2.98	0.29	4.60	47.65	61.81	20.65	0.28	17.12	0.14	38.19	26,755,066
Rural	0.15	0.40	0.08	3.97	49.08	53.68	22.22	0.07	23.91	0.12	46.32	18,016,471
Urban	18.98	8.29	0.73	5.89	44.69	78.58	17.41	0.70	3.13	0.18	21.42	8,738,595
Makueni County	0.41	0.26	0.11	5.52	50.11	56.41	41.93	0.05	1.58	0.03	43.59	533,546
Mbooni Constituency	0.01	0.14	0.04	3.56	31.54	35.28	63.20	0.02	1.45	0.05	64.72	106,590
Tulimani	0.00	0.10	0.03	1.65	38.93	40.71	58.51	0.00	0.69	0.10	59.29	19,253
Mbooni	0.00	0.40	0.00	7.22	43.96	51.59	47.69	0.09	0.64	0.00	48.41	21,060
Kithungo/Kitundu	0.03	0.00	0.00	1.52	10.66	12.21	87.21	0.01	0.57	0.00	87.79	17,424
Kiteta/Kisau	0.00	0.17	0.06	1.08	15.77	17.09	81.59	0.00	1.29	0.03	82.91	20,380
Waia-Kako	0.00	0.05	0.04	10.12	31.06	41.27	56.48	0.00	2.14	0.10	58.73	13,154
Kalawa	0.01	0.02	0.10	0.90	50.31	51.34	44.40	0.00	4.18	0.08	48.66	15,319
Kilome Constituency	0.52	0.26	0.30	4.54	37.78	43.39	55.69	0.02	0.88	0.03	56.61	51,945
Kasikeu	1.09	0.22	0.59	6.55	32.10	40.55	58.12	0.01	1.31	0.01	59.45	22,902
Mukaa	0.12	0.02	0.01	1.58	44.54	46.27	53.18	0.04	0.45	0.06	53.73	15,467
Kiima Kiu/Kalanzeni	0.01	0.59	0.13	4.52	39.67	44.91	54.43	0.01	0.64	0.01	55.09	13,576
Kaiti Constituency	0.06	0.14	0.01	5.83	52.90	58.95	40.53	0.02	0.45	0.05	41.05	69,725
Ukia	0.13	0.09	0.01	7.87	29.91	38.02	61.05	0.00	0.91	0.02	61.98	23,291
Kee	0.00	0.14	0.02	4.73	67.72	72.60	27.25	0.00	0.15	0.00	27.40	11,761
Kilungu	0.00	0.27	0.02	3.95	80.51	84.75	14.93	0.09	0.19	0.04	15.25	19,145
Ilima	0.07	0.06	0.00	5.91	42.12	48.17	51.38	0.00	0.32	0.13	51.83	15,528
Makueni Constituency	0.11	0.15	0.05	6.23	65.22	71.75	27.32	0.05	0.86	0.02	28.25	120,943
Wote	0.48	0.52	0.04	21.98	66.92	89.93	9.78	0.00	0.29	0.00	10.07	16,341
Muvau/Kikumini	0.13	0.00	0.08	5.95	40.33	46.49	52.06	0.07	1.35	0.02	53.51	16,230
Mavindini	0.00	0.12	0.05	5.44	66.42	72.02	26.46	0.00	1.52	0.00	27.98	13,903
Kitise/Kithuki	0.00	0.02	0.05	3.11	58.91	62.09	36.55	0.20	1.16	0.00	37.91	12,754
Kathonzweni	0.04	0.10	0.00	2.43	68.36	70.93	28.48	0.01	0.58	0.01	29.07	18,776
Nzaui/Kilili/Kalamba	0.03	0.16	0.05	2.58	81.04	83.87	15.15	0.08	0.85	0.06	16.13	23,753
Mbitini	0.09	0.08	0.07	3.90	65.47	69.62	29.71	0.03	0.58	0.05	30.38	19,186
Kibwezi West Constituency	0.29	0.57	0.27	6.91	53.00	61.04	36.26	0.09	2.59	0.02	38.96	104,010
Makindu	0.11	0.57	0.76	7.58	60.28	69.29	28.96	0.06	1.67	0.02	30.71	26,332
Nguumo	0.14	0.12	0.02	4.66	48.16	53.09	43.88	0.00	3.02	0.01	46.91	17,590
Kikumbulyu North	0.04	0.04	0.05	7.87	53.12	61.12	32.24	0.00	6.63	0.02	38.88	12,266
Kikumbulyu South	1.22	1.88	0.07	4.71	63.62	71.50	24.85	0.45	3.18	0.02	28.50	16,988
Nguu/Masumba	0.00	0.10	0.05	5.90	76.17	82.22	16.12	0.00	1.65	0.00	17.78	14,997
Emali/Mulala	0.24	0.55	0.32	10.84	12.88	24.83	74.34	0.01	0.75	0.07	75.17	15,837
Kibwezi East Constituency	1.78	0.30	0.06	5.66	53.77	61.57	35.35	0.08	2.96	0.04	38.43	80,333
Masongaleni	0.07	0.15	0.00	3.51	52.67	56.41	40.22	0.01	3.25	0.12	43.59	19,032
Mtito Andei	2.29	0.13	0.16	4.63	51.36	58.57	37.94	0.20	3.26	0.04	41.43	21,092
Thange	4.68	0.65	0.04	6.58	60.72	72.66	25.40	0.05	1.90	0.00	27.34	19,766
Ivingoni/Nzambani	0.04	0.29	0.03	7.82	50.58	58.77	37.77	0.04	3.40	0.01	41.23	20,443

Table 23.28: 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	Pit Latrine 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
Makueni	0.2	0.2	0.1	4.9	49.8	55.2	43.0	0.0	1.7	0.0	44.8	340,777.0
Mbooni	0.0	0.1	0.0	3.1	30.6	33.8	64.6	0.0	1.5	0.0	66.2	76,885.0
Tulimani	0.1	0.0	0.0	1.6	41.1	42.8	56.4	0.0	0.7	0.1	57.2	15,786.0
Mbooni	0.0	0.2	0.0	6.3	41.5	48.0	51.5	0.0	0.4	0.0	52.0	12,486.0
Kithungo/Kitundu	0.0	0.1	0.1	1.8	9.6	11.5	88.1	0.0	0.4	0.0	88.5	10,673.0
Kiteta/Kisau	0.1	0.1	0.0	1.1	13.5	14.8	84.2	0.0	1.0	0.0	85.2	16,298.0
Waia-Kako	0.0	0.1	0.0	8.5	30.7	39.3	58.2	0.0	2.5	0.1	60.7	9,891.0
Kalawa	0.0	0.0	0.1	0.7	48.0	48.8	46.6	0.0	4.6	0.0	51.2	11,751.0
Kilome	0.3	0.2	0.1	3.7	41.3	45.7	53.5	0.0	0.8	0.0	54.3	34,523.0
Kasikeu	0.8	0.3	0.1	5.4	36.9	43.5	55.2	0.0	1.3	0.0	56.5	14,647.0
Mukaa	0.0	0.0	0.1	1.4	46.8	48.4	51.4	0.0	0.1	0.1	51.6	10,818.0
Kiima Kiu/ Kalanzoni	0.0	0.4	0.0	3.8	41.6	45.9	53.3	0.0	0.8	0.0	54.1	9,058.0
Kaiti	0.0	0.1	0.1	5.1	53.8	59.1	40.2	0.0	0.7	0.0	40.9	49,786.0
Ukia	0.1	0.0	0.0	7.2	28.8	36.1	62.6	0.0	1.2	0.0	63.9	14,980.0
Kee	0.0	0.1	0.0	4.1	65.9	70.1	29.3	0.0	0.6	0.0	29.9	9,165.0
Kilungu	0.0	0.4	0.2	3.2	79.6	83.4	16.5	0.0	0.2	0.0	16.6	14,721.0
Ilima	0.1	0.0	0.0	5.5	43.2	48.9	50.4	0.0	0.6	0.0	51.1	10,920.0
Makueni	0.1	0.1	0.0	5.3	66.4	71.9	26.9	0.0	1.1	0.0	28.1	69,922.0
Wote	0.9	0.4	0.1	20.9	67.7	90.0	9.5	0.0	0.4	0.1	10.0	7,414.0
Muvau/Kikumini	0.1	0.0	0.1	5.4	43.3	48.9	49.4	0.1	1.7	0.0	51.1	8,056.0
Mavindini	0.0	0.0	0.0	5.7	67.0	72.7	25.5	0.0	1.8	0.0	27.3	9,333.0
Kitise/Kithuki	0.0	0.0	0.0	2.0	62.3	64.3	34.3	0.0	1.4	0.0	35.7	9,093.0
Kathonzweni	0.0	0.1	0.0	1.6	68.4	70.1	29.0	0.0	0.8	0.1	29.9	11,710.0
Nzaui/Kilili/Kalamba	0.0	0.1	0.0	2.8	79.8	82.8	15.9	0.0	1.2	0.0	17.2	13,198.0
Mbitini	0.2	0.0	0.1	4.0	66.9	71.2	28.3	0.0	0.6	0.0	28.8	11,118.0
Kibwezi West	0.2	0.4	0.2	6.9	53.0	60.7	36.4	0.0	2.9	0.0	39.3	59,580.0
Makindu	0.1	0.3	0.4	8.8	58.4	68.1	29.8	0.0	2.0	0.0	31.9	14,741.0
Nguumo	0.0	0.0	0.1	5.6	49.9	55.5	41.1	0.1	3.3	0.0	44.5	10,545.0
Kikumbulyu North	0.0	0.3	0.1	7.0	57.6	64.9	27.9	0.0	7.2	0.0	35.1	7,798.0
Kikumbulyu South	0.7	2.0	0.0	3.4	65.0	71.0	25.8	0.0	3.2	0.0	29.0	8,583.0
Nguu/Masumba	0.1	0.0	0.0	6.5	75.5	82.1	16.0	0.0	2.0	0.0	17.9	8,744.0
Emali/Mulala	0.2	0.1	0.4	9.1	11.2	20.9	78.2	0.1	0.8	0.0	79.1	9,169.0
Kibwezi East	0.9	0.2	0.0	5.3	54.5	60.9	35.9	0.1	3.1	0.0	39.1	50,081.0
Masongaleni	0.0	0.1	0.0	4.2	50.9	55.2	41.5	0.1	3.2	0.0	44.8	13,124.0
Mtito Andei	0.6	0.1	0.1	4.8	52.2	57.8	38.9	0.1	3.2	0.0	42.2	13,327.0
Thange	3.3	0.4	0.0	4.3	64.5	72.5	25.3	0.0	2.1	0.0	27.5	11,875.0
Ivingoni/Nzambani	0.0	0.2	0.0	8.0	50.9	59.1	36.9	0.1	3.8	0.1	40.9	11,755.0



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