

# Exploring Kenya's Inequality

Pulling Apart or Pooling Together?

Samburu County



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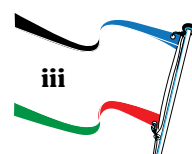
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# Foreword

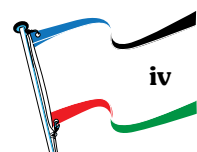
Kenya, like all African countries, focused on poverty alleviation at independence, perhaps due to the level of vulnerability of its populations but also as a result of the 'trickle down' economic discourses of the time, which assumed that poverty rather than distribution mattered – in other words, that 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?'

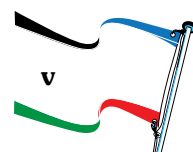


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# Striking Features on Intra-County Inequality in Kenya

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

|                    |   |
|--------------------|---|
| <b>AMADPOC</b>     | African Migration and Development Policy Centre         |
| <b>CRA</b>         | Commission on Revenue Allocation                        |
| <b>DANIDA</b>      | Danish International Development Agency                 |
| <b>DAP</b>         | Drivers of Accountability Programme                     |
| <b>EAs</b>         | Enumeration Areas                                       |
| <b>HDI</b>         | Human Development Index                                 |
| <b>IBP</b>         | International Budget Partnership                        |
| <b>IEA</b>         | Institute of Economic Affairs                           |
| <b>IPAR</b>        | Institute of Policy Analysis and Research               |
| <b>KIHBS</b>       | Kenya Intergraded Household Budget Survey               |
| <b>KIPPRA</b>      | Kenya Institute for Public Policy Research and Analysis |
| <b>KNBS</b>        | Kenya National Bureau of Statistics                     |
| <b>LPG</b>         | Liquefied Petroleum Gas                                 |
| <b>NCIC</b>        | National Cohesion and Integration Commission            |
| <b>NTA</b>         | National Taxpayers Association                          |
| <b>PCA</b>         | Principal Component Analysis                            |
| <b>SAEs</b>        | Small Area Estimation                                   |
| <b>SID</b>         | Society for International Development                   |
| <b>TISA</b>        | The Institute for Social Accountability                 |
| <b>VIP latrine</b> | Ventilated-Improved Pit latrine                         |
| <b>VOCs</b>        | Volatile Organic Carbons                                |
| <b>WDR</b>         | 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:

$$Gini = 1 - \frac{\sum_{i=1}^N (x_i - x_{i-1})(y_i + y_{i-1})}{\sum_{i=1}^N (x_i - x_{i-1})^2}$$

An Illustration of the Lorenz Curve



### Small Area Estimation (SAE)

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

## Concepts and definitions

### Inequality

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

### Equality and Equity

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

### Poverty

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

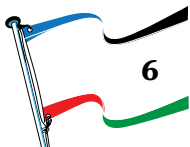
### Spatial Dimensions

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

### Employment

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

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



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

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

## **Education**

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

## **Water**

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

## **Sanitation**

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

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

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

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

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

### **Energy fuel for cooking and lighting**

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



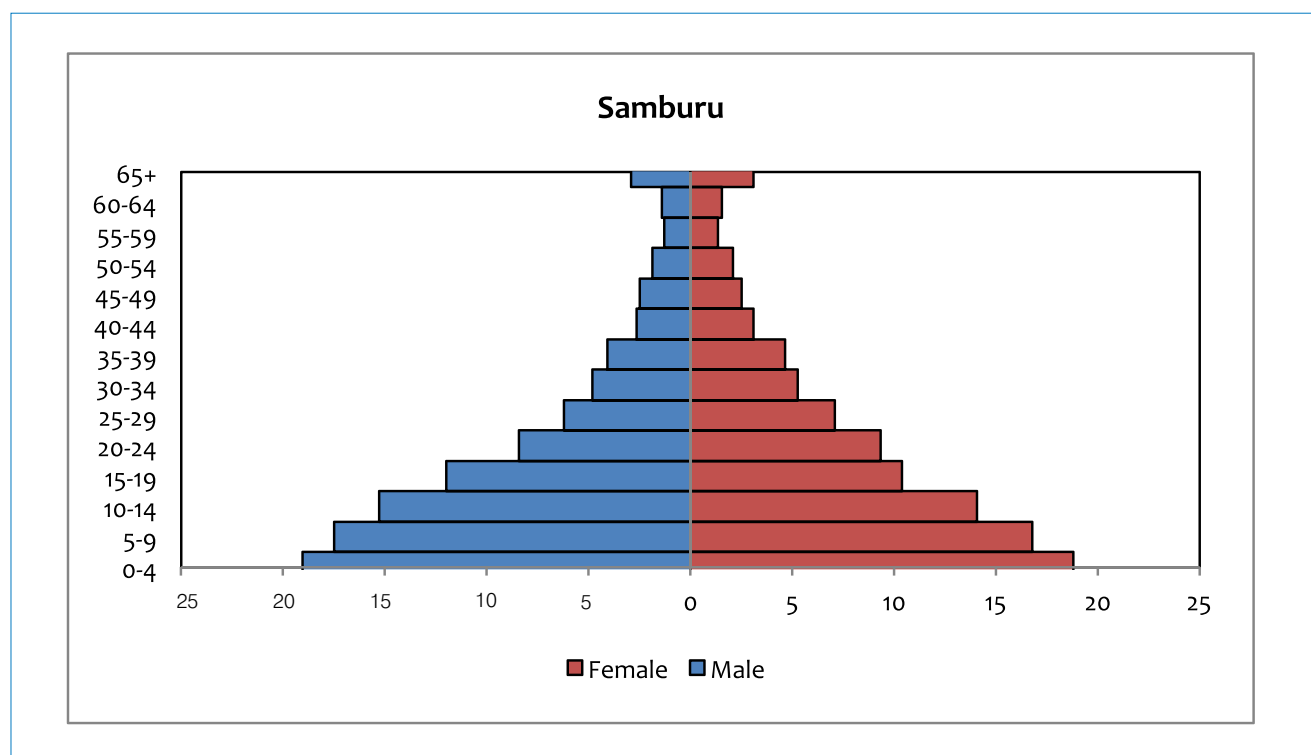


# **Samburu County**



## SAMBURU COUNTY

**Figure 37.1: Samburu Population Pyramid**



### Population

Samburu County has a child rich population, where 0-14 year olds constitute 51% of the total population. This is due to high fertility rates among women as shown by the highest percentage household size of 4-6 members at 44%.

### 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 37.3 up to ward level.

**Table 37: Overall Employment by Education Levels in Samburu County**

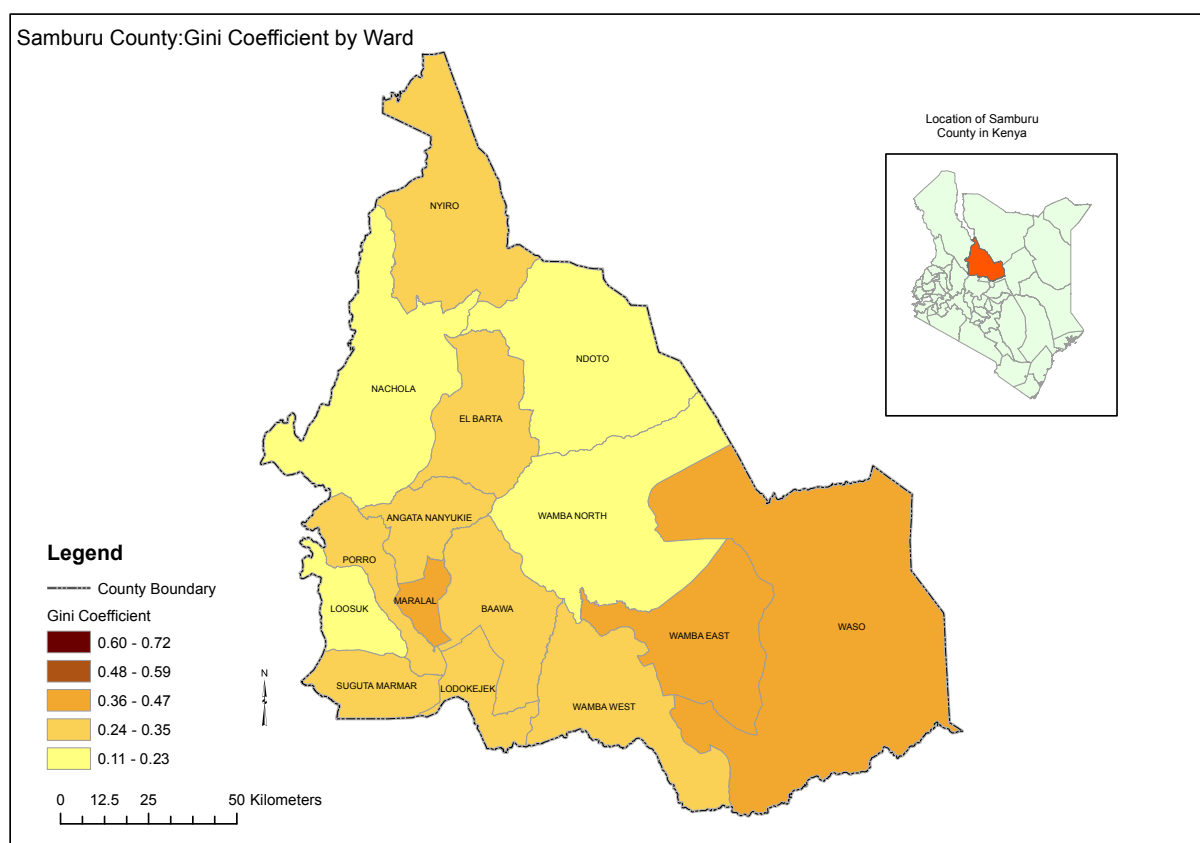
| Education Level   | Work for pay | Family Business | Family Agricultural Holding | Intern/ Volunteer | Retired/ Home-maker | Fulltime Student | Incapacitated | No work | Number of Individuals |
|-------------------|--------------|-----------------|-----------------------------|-------------------|---------------------|------------------|---------------|---------|-----------------------|
| <b>Total</b>      | 10.4         | 16.2            | 43.4                        | 1.1               | 11.5                | 5.9              | 0.4           | 11.1    | 102,415               |
| <b>None</b>       | 4.6          | 17.1            | 53.2                        | 1.1               | 12.9                | 0.1              | 0.5           | 10.5    | 69,336                |
| <b>Primary</b>    | 13.9         | 14.4            | 28.7                        | 1.0               | 10.2                | 18.7             | 0.3           | 12.8    | 20,999                |
| <b>Secondary+</b> | 37.2         | 14.2            | 12.8                        | 1.8               | 5.6                 | 16.6             | 0.1           | 11.6    | 12,080                |

In Samburu County, 5% of the residents with no formal education, 14% of those with primary education and 37% of those with a secondary level of education or above are working for pay. Work for pay is highest in Nairobi at 49% and this is 12 percentage points above the level in Samburu for those with secondary or above level of education.

## Gini Coefficient

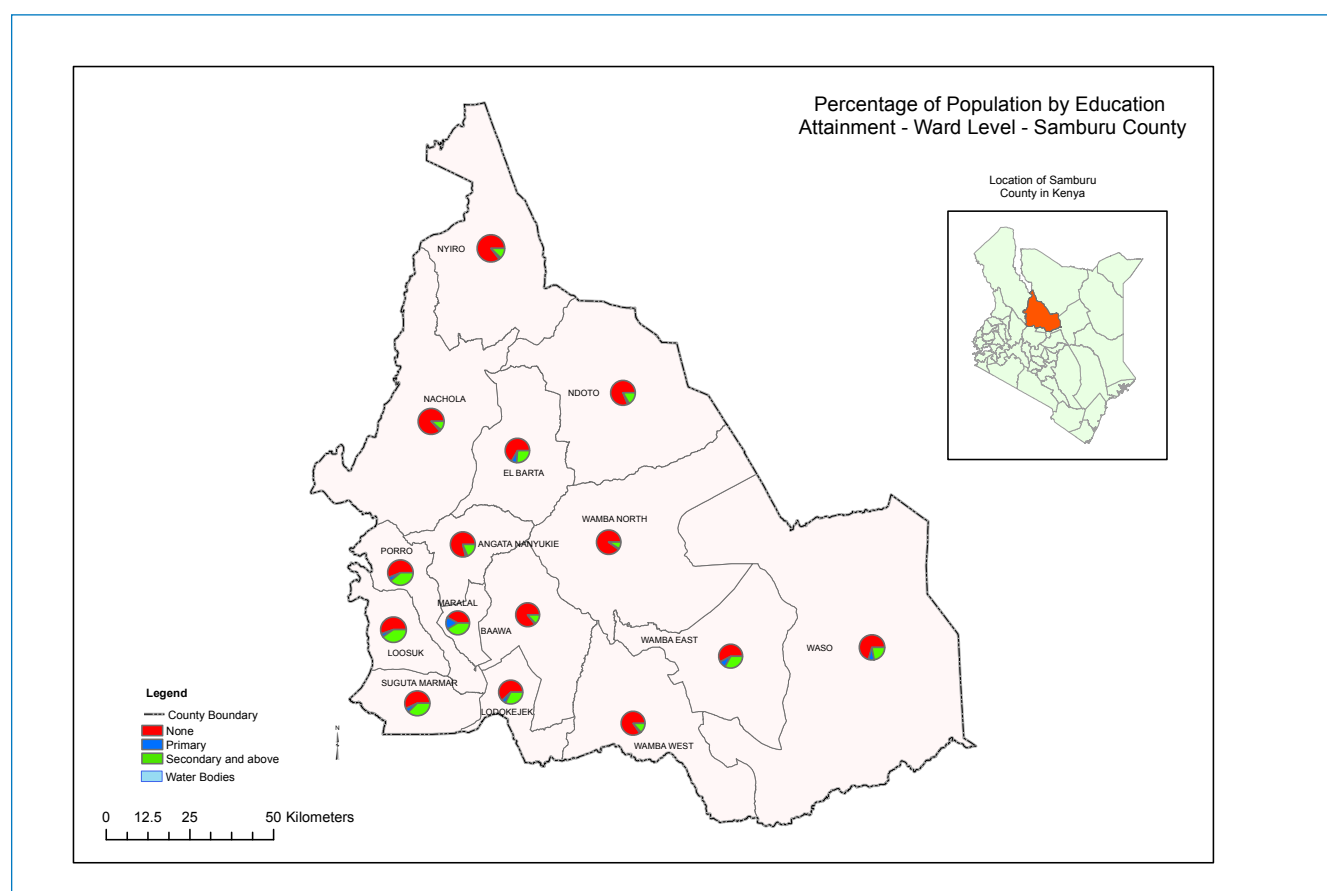
In this report, the Gini index measures the extent to which the distribution of consumption expenditure among individuals or households within an economy deviates from a perfectly equal distribution. A Gini index of '0' represents perfect equality, while an index of '1' implies perfect inequality. Samburu County's Gini index is 0.318 compared with Turkana County, which has the least inequality nationally (0.283).

**Figure 37.2: Samburu County-Gini Coefficient by Ward**



## Education

**Figure 37.3: Samburu County-Percentage of Population by Education Attainment by Ward**



Only 6% of Samburu County residents have a secondary level of education or above. Samburu West constituency has the highest share of residents with a secondary level of education or above at 10%. This is 7 percentage points above Samburu North constituency, which has the lowest share of residents with a secondary level of education or above. Samburu West constituency is 4 percentage points above the county average. Maralal ward has the highest share of residents with a secondary level of education or above at 17%. This is 16 percentage points above Wamba North ward, which has the lowest share of residents with a secondary level of education or above. Maralal ward is 11 percentage points above the county average.

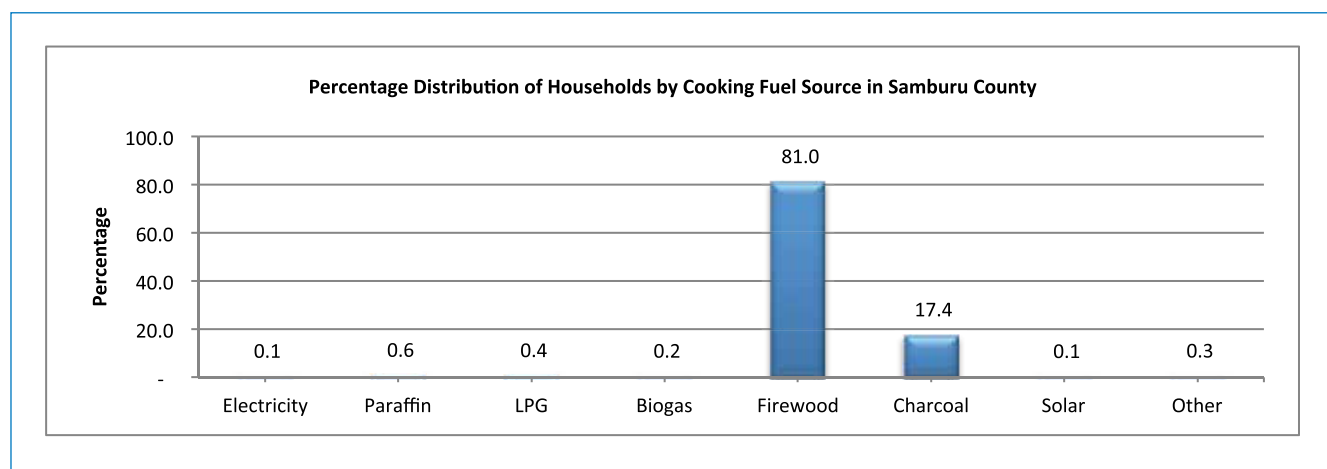
A total of 26% of Samburu County residents have a primary level of education only. Samburu West constituency has the highest share of residents with a primary level of education only at 39%. This is twice Samburu North constituency, which has the lowest share of residents with a primary level of education only. Samburu West constituency is 13 percentage points above the county average. Maralal ward has the highest share of residents with a primary level of education only at 41%. This is almost five times Wamba North ward, which has the lowest share of residents with a primary level of education only. Maralal ward is 15 percentage points above the county average.

A total of 68% of Samburu County residents have no formal education. Samburu North constituency has the highest share of residents with no formal education at 81%. This is 30 percentage points above Samburu West constituency, which has the lowest share of residents with no formal education. Samburu North constituency is 13 percentage points above the county average. Wamba North ward has the highest percentage of residents with no formal education at 90%. This is twice Maralal ward, which has the lowest percentage of residents with no formal education. Wamba North ward is 22 percentage points above the county average.

## Energy

### Cooking Fuel

**Figure 37.4: Percentage Distribution of Households by Source of Cooking Fuel in Samburu County**



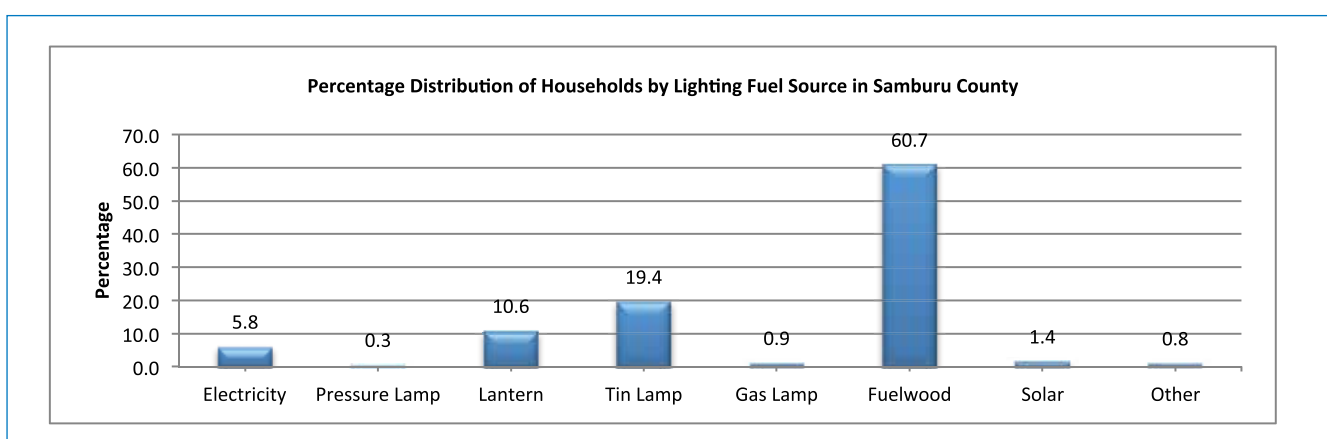
Less than 1% of residents in Samburu County use liquefied petroleum gas (LPG), and 1% use paraffin. 81% use firewood and 17% use charcoal. Firewood is the most common cooking fuel by gender with 77% of male headed households and 85% in female headed households using it.

Samburu North constituency has the highest level of firewood use in Samburu County at 92%. This is 24 percentage points above Samburu West constituency, which has the lowest share. Samburu North is 11 percentage points above the county average. Wamba North ward has the highest level of firewood use in Samburu County at 99%. This is 53 percentage points above Maralal ward at 46%. Wamba North ward is 18 percentage points above the county average.

Samburu West constituency has the highest level of charcoal use in Samburu County at 30%. This is 22 percentage points above Samburu North constituency, which has the lowest share. Samburu West constituency is 13 percentage points above the county average. Maralal ward has the highest level of charcoal use in Samburu County at 51%. This is 50 percentage points more than Wamba North ward, which has the lowest share. Maralal ward is 34 percentage points above the county average.

### Lighting

**Figure 37.5: Percentage Distribution of Households by Source of Lighting Fuel in Samburu County**



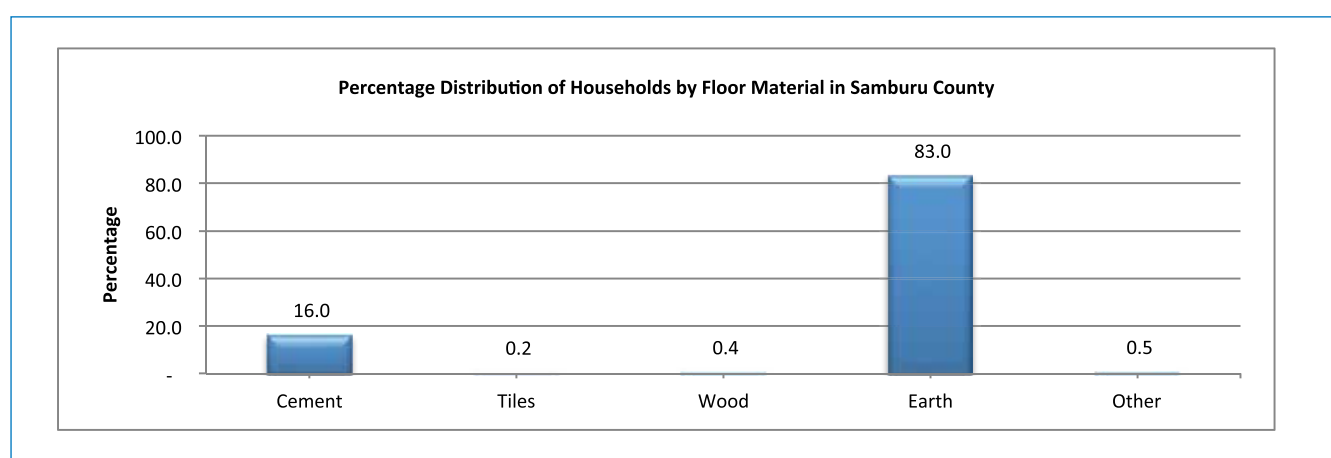
Only 6% of residents in Samburu County use electricity as their main source of lighting. A further 11% use lanterns, and 19% use tin lamps. 61% use fuel wood. Electricity use is mostly common in male headed households at 8% as compared with female headed households at 4%.

Samburu West constituency has the highest level of electricity use at 14%. That is 14 percentage points above Samburu North constituency, which has the lowest level of electricity use. Samburu West constituency is 8 percentage points above the county average. Maralal ward has the highest level of electricity use at 27%. That is 27 percentage points above Ndoto, Wamba West, and Wamba North wards, which have no level of electricity use. Maralal ward is 21 percentage points above the county average.

## Housing

### Flooring

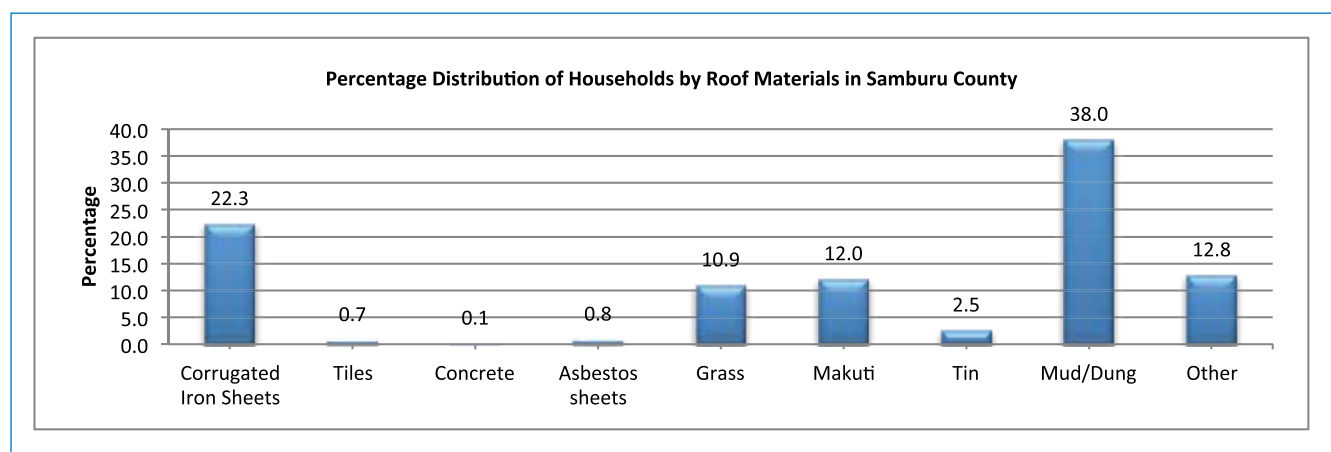
**Figure 37.6: Percentage Distribution of Households by Floor Material in Samburu County**



In Samburu County, 16% of residents have homes with cement floors, while 83% have earth floors. Less than 1% has wood or tile floors. Samburu West constituency has the highest share of cement floors at 27%. That is 20 percentage points above Samburu North constituency, which has the lowest share of cement floors. Samburu West constituency is 11 percentage points above the county average. Maralal ward has the highest share of cement floors at 43%. That is 42 percentage points above Wamba North ward, which has the lowest share of cement floors. Maralal ward is 27 percentage points above the county average.

### Roofing

**Figure 37.7: Percentage Distribution of Households by Roof Material in Samburu County**



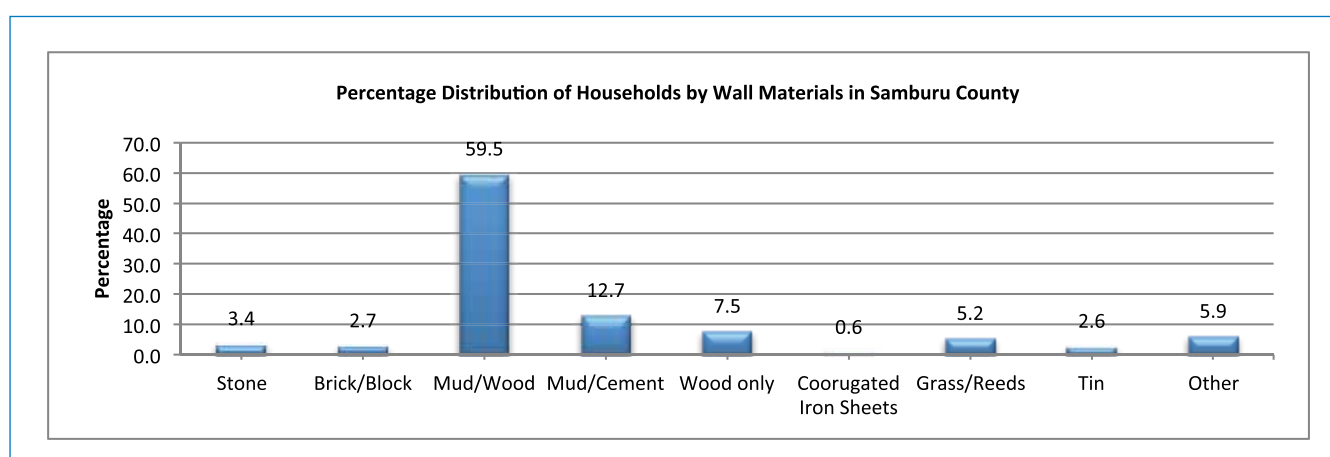
In Samburu County, less than 1% of residents have homes with concrete roofs, while 22% have corrugated iron sheet roofs. Grass and makuti roofs constitute 23% of homes, and 38% have mud/dung roofs.

Samburu West constituency has the highest share of corrugated iron sheet roofs at 38%. That is 28 percentage points above Samburu North constituency, which has the lowest share of corrugated iron sheet roofs. Samburu West constituency is 16 percentage points above the county average. Maralal ward has the highest share of corrugated iron sheet roofs at 60%. That is 30 times Wamba North ward, which has the lowest share of corrugated iron sheet roofs. Maralal ward is 38 percentage points above the county average.

Samburu North constituency has the highest share of grass/makuti roofs at 31%. That is twice Samburu West constituency, which has the lowest share of grass/makuti roofs. Samburu North constituency is 8 percentage points above the county average. Nachola ward has the highest share of grass/makuti roofs at 61%. This is 30 times Lodokejek ward, which has the lowest share. Nachola ward is 38 percentage points above the county average.

## Walls

**Figure 37.8: Percentage Distribution of Households by Wall Material in Samburu County**



In Samburu County, 6% of homes have either brick or stone walls. 72% of homes have mud/wood or mud/cement walls. 8% have wood walls. 1% has corrugated iron walls. 5% have grass/thatched walls. 8% have tin or other walls.

Samburu East constituency has the highest share of brick/stone walls at 9%. That is twice Samburu North constituency, which has the lowest share of brick/stone walls. Samburu East constituency is 3 percentage points above the county average. Waso ward has the highest share of brick/stone walls at 19%. That is 18 percentage points above Baawa ward, which has the lowest share of brick/stone walls. Waso ward is 13 percentage points above the county average.

Samburu West constituency has the highest share of mud with wood/cement walls at 90%. That is 29 percentage points above Samburu East constituency, which has the lowest share of mud with wood/cement walls. Samburu West constituency is 18 percentage points above the county average. Two wards, Porro and Lodokejek, have the highest share of mud with wood/cement walls at 96% each. That is almost thrice Nyiro ward, which has the lowest share of mud with wood/cement walls. Porro and Lodokejek are 24 percentage points above the county average.



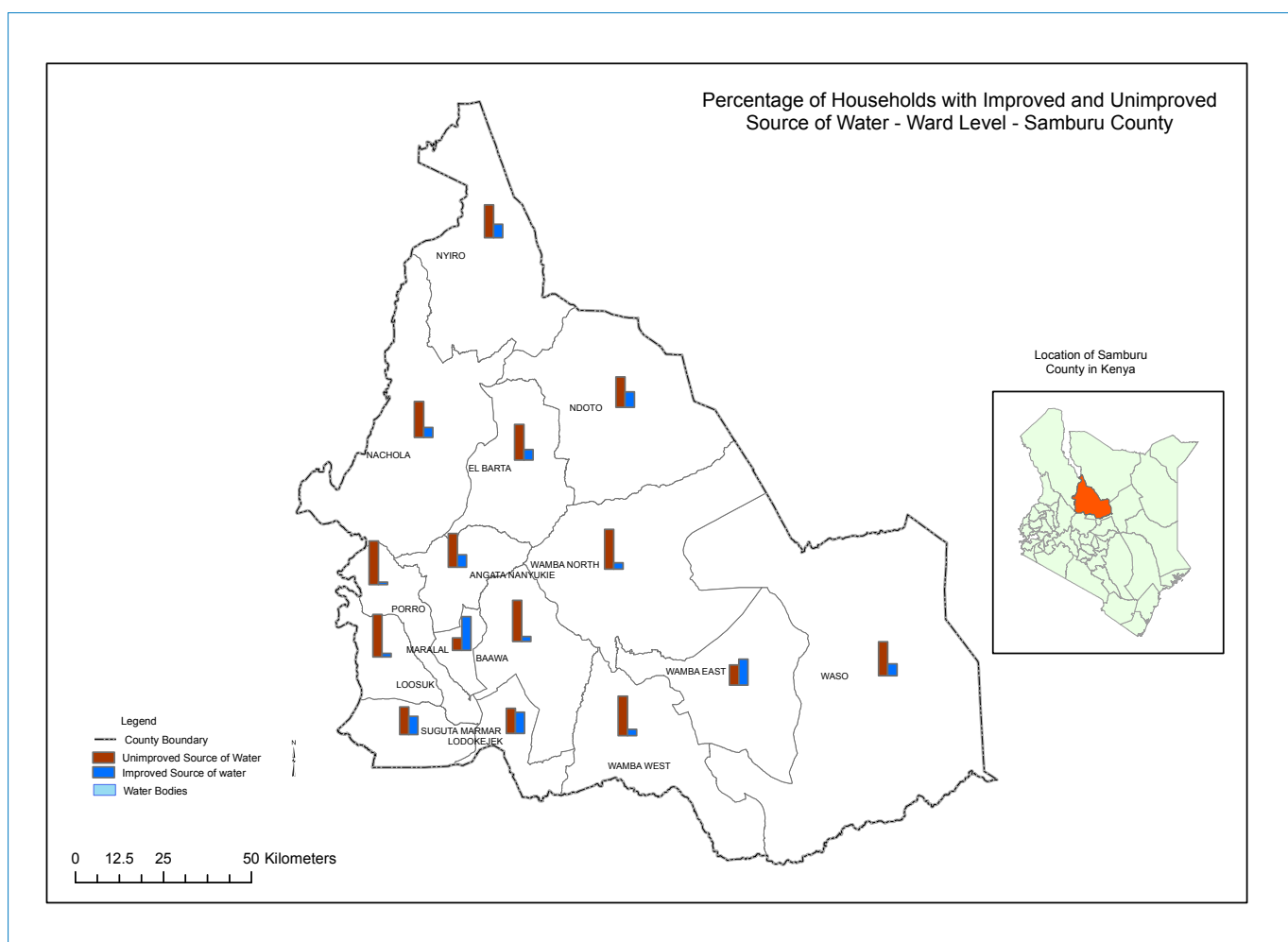
## Water

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

In Samburu County, 34% of residents use improved sources of water, with the rest relying on unimproved sources. There is no significant gender differential in use of improved sources as 35% of male headed households and 33% in female headed households.

Samburu West constituency has the highest share of residents using improved sources of water at 46%. That is almost twice Samburu North constituency, which has the lowest share using improved sources of water. Samburu West constituency is 12 percentage points above the county average. Maralal ward has the highest share of residents using improved sources of water at 72%. That is 12 times Porro ward, which has the lowest share using improved sources of water. Maralal ward is 38 percentage points above the county average.

**Figure 37.9: Samburu County-Percentage of Households with Improved and Unimproved Sources of Water by Ward**

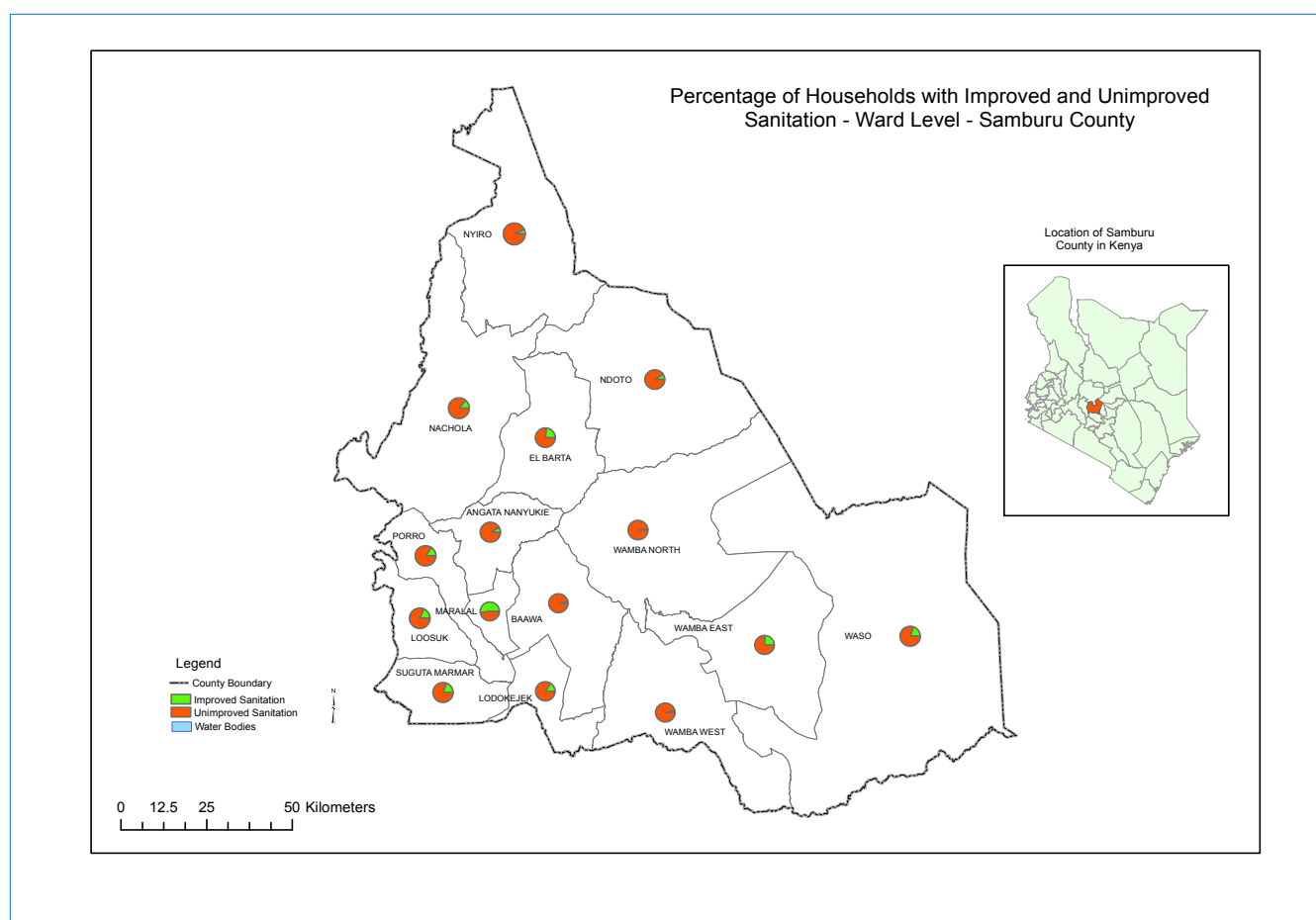


## Sanitation

A total of 20% of residents in Samburu County use improved sanitation, while the rest use unimproved sanitation. Use of improved sanitation is slightly higher in male headed households at 21% as compared with female headed households at 18%.

Samburu West constituency has the highest share of residents using improved sanitation at 33%. That is three times Samburu North constituency, which has the lowest share using improved sanitation. Samburu West constituency is 13 percentage points above the county average. Maralal ward has the highest share of residents using improved sanitation at 52%. That is 51 percentage points above Wamba North ward, which has the lowest share using improved sanitation. Maralal ward is 32 percentage points above the county average.

**Figure 37.10: Samburu County –Percentage of Households with Improved and Unimproved Sanitation by Ward**



## Samburu County Annex Tables

## 37. SAMBURU

Table 37.1: Gender, Age group, Demographic Indicators and Households Size by County Constituency and Wards

| County/Constituency/<br>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<br>Ratio           | Total de-<br>pendancy<br>Ratio | Child de-<br>pendancy<br>Ratio | aged de-<br>pendancy<br>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 |
| Samburu County                | 221,285    | 110,080    | 111,205    | 50,490    | 112,230    | 52,923    | 70,272     | 102,415    | 6,640     |  | 0.990                  | 1.161                          | 1.096                          | 0.065                         | 32.7                      | 44.3 | 23.0 | 45,363    |
| Samburu West Constituency     | 82,112     | 39,606     | 42,506     | 19,587    | 41,786     | 18,625    | 25,708     | 37,751     | 2,575     |  | 0.932                  | 1.175                          | 1.107                          | 0.068                         | 33.7                      | 43.2 | 23.1 | 16,955    |
| Lodokejek                     | 13,961     | 6,323      | 7,638      | 3,757     | 7,578      | 2,990     | 3,880      | 5,849      | 534       |  | 0.828                  | 1.387                          | 1.296                          | 0.091                         | 33.8                      | 44.6 | 21.6 | 2,838     |
| SugutaMarmar                  | 11,662     | 5,688      | 5,974      | 2,758     | 6,177      | 2,827     | 3,501      | 5,145      | 340       |  | 0.952                  | 1.267                          | 1.201                          | 0.066                         | 28.7                      | 45.8 | 25.5 | 2,297     |
| Maralal                       | 35,701     | 17,319     | 18,382     | 7,915     | 17,151     | 7,986     | 11,965     | 17,520     | 1,030     |  | 0.942                  | 1.038                          | 0.979                          | 0.059                         | 38.4                      | 40.2 | 21.4 | 7,751     |
| Loosuk                        | 10,220     | 5,119      | 5,101      | 2,481     | 5,236      | 2,371     | 3,231      | 4,655      | 329       |  | 1.004                  | 1.195                          | 1.125                          | 0.071                         | 26.6                      | 48.5 | 25.0 | 2,006     |
| Porro                         | 10,568     | 5,157      | 5,411      | 2,676     | 5,644      | 2,451     | 3,131      | 4,582      | 342       |  | 0.953                  | 1.306                          | 1.232                          | 0.075                         | 28.3                      | 44.9 | 26.9 | 2,063     |
| Samburu North Constituency    | 81,051     | 42,115     | 38,936     | 17,467    | 41,059     | 21,039    | 26,296     | 37,721     | 2,271     |  | 1.082                  | 1.149                          | 1.088                          | 0.060                         | 28.3                      | 46.7 | 25.0 | 15,824    |
| El Barta                      | 13,554     | 6,719      | 6,835      | 3,104     | 6,818      | 3,267     | 4,235      | 6,262      | 474       |  | 0.983                  | 1.164                          | 1.089                          | 0.076                         | 32.8                      | 47.1 | 20.1 | 2,862     |
| Nachola                       | 11,612     | 6,573      | 5,039      | 2,097     | 5,567      | 3,277     | 4,142      | 5,754      | 291       |  | 1.304                  | 1.018                          | 0.968                          | 0.051                         | 21.7                      | 43.4 | 34.9 | 1,970     |
| Ndoto                         | 14,901     | 7,407      | 7,494      | 3,430     | 7,708      | 3,509     | 4,644      | 6,755      | 438       |  | 0.988                  | 1.206                          | 1.141                          | 0.065                         | 31.3                      | 49.0 | 19.7 | 3,146     |
| Nyiro                         | 19,544     | 10,624     | 8,920      | 3,638     | 10,024     | 6,001     | 6,515      | 9,098      | 422       |  | 1.191                  | 1.148                          | 1.102                          | 0.046                         | 19.8                      | 44.3 | 36.0 | 3,354     |
| AngataNanyukie                | 9,704      | 5,264      | 4,440      | 2,178     | 4,694      | 2,340     | 3,415      | 4,753      | 257       |  | 1.186                  | 1.042                          | 0.988                          | 0.054                         | 27.9                      | 49.4 | 22.8 | 1,928     |
| Baawa                         | 11,736     | 5,528      | 6,208      | 3,020     | 6,248      | 2,645     | 3,345      | 5,099      | 389       |  | 0.890                  | 1.302                          | 1.225                          | 0.076                         | 36.2                      | 46.8 | 17.0 | 2,564     |

| Samburu East Constituency | 58,122 | 28,359 | 29,763 | 13,436 | 29,385 | 13,259 | 18,268 | 26,943 | 1,794 | 0.953 | 1.157 | 1.091 | 0.067 | 36.8 | 42.8 | 20.4 | 12584 |
|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|------|------|------|-------|
| Waso                      | 17,311 | 8,996  | 8,315  | 3,867  | 8,574  | 3,995  | 5,773  | 8,328  | 409   | 1.082 | 1.079 | 1.030 | 0.049 | 34.4 | 41.3 | 24.2 | 3566  |
| Wamba West                | 13,648 | 6,114  | 7,534  | 3,401  | 7,179  | 2,958  | 3,892  | 5,965  | 504   | 0.812 | 1.288 | 1.204 | 0.084 | 38.8 | 41.4 | 19.8 | 2958  |
| Wamba East                | 15,722 | 7,706  | 8,016  | 3,616  | 7,828  | 3,671  | 5,045  | 7,371  | 523   | 0.961 | 1.133 | 1.062 | 0.071 | 39.9 | 42.4 | 17.7 | 3612  |
| Wamba North               | 11,441 | 5,543  | 5,898  | 2,552  | 5,804  | 2,635  | 3,558  | 5,279  | 358   | 0.940 | 1.167 | 1.099 | 0.068 | 33.2 | 47.3 | 19.6 | 2448  |

Table 37.2: Employment by County, Constituency and Wards

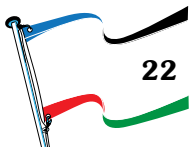
| County/Constituency/Wards  | Work for pay | Family Business | Family Agri-cultural Holding | Intern/ Volunteer | Retired/ Home-maker | Fulltime Student | Incapacitated | No work | Number of Individuals |
|----------------------------|--------------|-----------------|------------------------------|-------------------|---------------------|------------------|---------------|---------|-----------------------|
| 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             |
| Samburu County             | 10.4         | 16.2            | 43.4                         | 1.1               | 11.5                | 5.9              | 0.4           | 11.1    | 102,415               |
| Samburu West Constituency  | 16.2         | 14.2            | 29.8                         | 1.5               | 15.7                | 10.1             | 0.6           | 11.9    | 37,751                |
| Lodokejek                  | 10.7         | 13.5            | 31.7                         | 1.4               | 21.7                | 8.2              | 0.6           | 12.3    | 5,849                 |
| SugutaMarmar               | 9.5          | 9.9             | 35.5                         | 0.8               | 23.6                | 13.0             | 0.5           | 7.1     | 5,145                 |
| Maralal                    | 23.7         | 16.9            | 19.8                         | 1.9               | 12.6                | 9.9              | 0.7           | 14.5    | 17,520                |
| Loosuk                     | 11.0         | 9.3             | 39.8                         | 0.9               | 16.5                | 11.1             | 0.5           | 10.8    | 4,655                 |
| Porro                      | 7.5          | 14.8            | 48.6                         | 1.7               | 10.1                | 8.9              | 0.5           | 7.9     | 4,582                 |
| Samburu North Constituency | 5.3          | 18.7            | 57.8                         | 0.8               | 8.3                 | 2.9              | 0.3           | 6.0     | 37,721                |
| El Barta                   | 8.8          | 25.3            | 43.6                         | 1.0               | 2.7                 | 7.4              | 0.4           | 10.9    | 6,262                 |
| Nachola                    | 6.3          | 15.7            | 72.5                         | 0.2               | 1.5                 | 1.8              | 0.2           | 1.8     | 5,754                 |
| Ndoto                      | 2.7          | 24.5            | 54.5                         | 0.3               | 10.0                | 0.9              | 0.4           | 6.6     | 6,755                 |
| Nyiro                      | 3.5          | 17.4            | 58.9                         | 0.3               | 11.9                | 1.6              | 0.2           | 6.2     | 9,098                 |
| AngataNanyukie             | 6.8          | 18.0            | 52.3                         | 2.3               | 10.5                | 4.6              | 0.3           | 5.2     | 4,753                 |
| Baawa                      | 4.8          | 9.0             | 66.0                         | 1.4               | 12.5                | 1.6              | 0.3           | 4.3     | 5,099                 |
| Samburu East Constituency  | 9.3          | 15.6            | 42.4                         | 1.0               | 10.0                | 4.1              | 0.4           | 17.2    | 26,943                |
| Waso                       | 11.6         | 7.9             | 45.6                         | 1.3               | 7.7                 | 4.2              | 0.3           | 21.4    | 8,328                 |
| Wamba West                 | 5.0          | 21.5            | 41.7                         | 1.1               | 11.9                | 2.1              | 0.6           | 16.1    | 5,965                 |
| Wamba East                 | 15.3         | 17.0            | 29.9                         | 1.0               | 12.8                | 8.0              | 0.3           | 15.7    | 7,371                 |
| Wamba North                | 2.2          | 18.8            | 55.6                         | 0.6               | 7.8                 | 1.0              | 0.4           | 13.6    | 5,279                 |

Table 37.3: Employment and Education Levels by County, Constituency and Wards

| County /constituency/Wards | Education Totallevel | Work for pay | Family Business | Family Agri-cultural 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  |
| Samburu                   | Total      | 10.4 | 16.2 | 43.4 | 1.1 | 11.5 | 5.9  | 0.4 | 11.1 | 102,415    |
| Samburu                   | None       | 4.6  | 17.1 | 53.2 | 1.1 | 12.9 | 0.1  | 0.5 | 10.5 | 69,336     |
| Samburu                   | Primary    | 13.9 | 14.4 | 28.7 | 1.0 | 10.2 | 18.7 | 0.3 | 12.8 | 20,999     |
| Samburu                   | Secondary+ | 37.2 | 14.2 | 12.8 | 1.8 | 5.6  | 16.6 | 0.1 | 11.6 | 12,080     |
| Samburu West Constituency | Total      | 16.2 | 14.2 | 29.8 | 1.5 | 15.7 | 10.1 | 0.6 | 11.9 | 37,751     |
| Samburu West Constituency | None       | 8.2  | 13.3 | 40.0 | 1.7 | 22.3 | 0.2  | 1.0 | 13.3 | 18,534     |
| Samburu West Constituency | Primary    | 15.8 | 14.5 | 25.0 | 1.1 | 11.3 | 20.9 | 0.3 | 11.0 | 12,013     |
| Samburu West Constituency | Secondary+ | 37.3 | 16.1 | 11.3 | 2.0 | 6.1  | 17.6 | 0.1 | 9.6  | 7,204      |
| Lodokejek Wards           | Total      | 10.7 | 13.5 | 31.7 | 1.4 | 21.7 | 8.2  | 0.6 | 12.3 | 5,849      |
| Lodokejek Wards           | None       | 5.6  | 14.0 | 39.5 | 1.5 | 27.7 | 0.2  | 0.8 | 10.7 | 3,659      |
| Lodokejek Wards           | Primary    | 12.7 | 12.3 | 22.1 | 0.7 | 14.8 | 22.7 | 0.5 | 14.3 | 1,530      |
| Lodokejek Wards           | Secondary+ | 34.1 | 13.3 | 10.6 | 2.1 | 3.9  | 19.2 | 0.2 | 16.5 | 660        |
| SugutaMarmar Wards        | Total      | 9.5  | 9.9  | 35.5 | 0.8 | 23.6 | 13.0 | 0.5 | 7.1  | 5,145      |
| SugutaMarmar Wards        | None       | 4.9  | 9.3  | 45.6 | 0.7 | 31.8 | 0.3  | 0.7 | 6.7  | 3,017      |
| SugutaMarmar Wards        | Primary    | 8.8  | 10.7 | 25.2 | 0.9 | 14.5 | 32.8 | 0.2 | 7.0  | 1,511      |
| SugutaMarmar Wards        | Secondary+ | 33.7 | 11.2 | 11.2 | 1.5 | 6.2  | 27.1 | 0.3 | 8.9  | 617        |
| Maralal Wards             | Total      | 23.7 | 16.9 | 19.8 | 1.9 | 12.6 | 9.9  | 0.7 | 14.5 | 17,520     |
| Maralal Wards             | None       | 12.7 | 14.9 | 29.4 | 2.4 | 19.4 | 0.1  | 1.5 | 19.6 | 6,719      |
| Maralal Wards             | Primary    | 22.8 | 18.1 | 18.2 | 1.3 | 10.3 | 15.9 | 0.3 | 13.2 | 5,700      |
| Maralal Wards             | Secondary+ | 39.2 | 18.0 | 9.1  | 2.0 | 6.5  | 16.1 | 0.1 | 9.1  | 5,101      |
| Loosuk Wards              | Total      | 11.0 | 9.3  | 39.8 | 0.9 | 16.5 | 11.1 | 0.5 | 10.8 | 4,655      |
| Loosuk Wards              | None       | 6.7  | 9.8  | 45.3 | 0.8 | 23.4 | 0.2  | 0.6 | 13.1 | 2,484      |
| Loosuk Wards              | Primary    | 10.8 | 8.9  | 36.7 | 0.9 | 9.5  | 24.5 | 0.5 | 8.3  | 1,784      |
| Loosuk Wards              | Secondary+ | 39.5 | 8.3  | 18.9 | 1.8 | 4.1  | 19.6 | 0.3 | 7.5  | 387        |
| Porro Wards               | Total      | 7.5  | 14.8 | 48.6 | 1.7 | 10.1 | 8.9  | 0.5 | 7.9  | 4,582      |
| Porro Wards               | None       | 5.8  | 16.2 | 56.1 | 1.8 | 10.6 | 0.3  | 0.7 | 8.6  | 2,655      |
| Porro Wards               | Primary    | 5.9  | 13.4 | 40.3 | 1.3 | 10.5 | 21.6 | 0.3 | 6.8  | 1,488      |

|                            |            |      |      |      |     |      |      |     |      |        |
|----------------------------|------------|------|------|------|-----|------|------|-----|------|--------|
| Porro Wards                | Secondary+ | 23.2 | 11.2 | 31.4 | 2.7 | 6.2  | 17.8 | 0.2 | 7.3  | 439    |
| Samburu North Constituency | Total      | 5.3  | 18.7 | 57.8 | 0.8 | 8.3  | 2.9  | 0.3 | 6.0  | 37,721 |
| Samburu North Constituency | None       | 3.1  | 19.7 | 62.2 | 0.8 | 8.6  | 0.1  | 0.4 | 5.2  | 31,239 |
| Samburu North Constituency | Primary    | 7.2  | 15.2 | 43.5 | 0.7 | 8.1  | 16.5 | 0.1 | 8.7  | 4,348  |
| Samburu North Constituency | Secondary+ | 32.5 | 11.1 | 22.1 | 1.4 | 4.7  | 15.7 | 0.1 | 12.5 | 2,134  |
| El Barta Wards             | Total      | 8.8  | 25.3 | 43.6 | 1.0 | 2.7  | 7.4  | 0.4 | 10.9 | 6,262  |
| El Barta Wards             | None       | 3.8  | 29.3 | 52.6 | 0.9 | 3.3  | 0.2  | 0.5 | 9.4  | 4,359  |
| El Barta Wards             | Primary    | 8.6  | 18.8 | 29.3 | 1.0 | 1.4  | 27.2 | -   | 13.7 | 1,059  |
| El Barta Wards             | Secondary+ | 34.6 | 12.3 | 15.1 | 1.5 | 1.2  | 20.1 | 0.1 | 15.1 | 844    |
| Nachola Wards              | Total      | 6.3  | 15.7 | 72.5 | 0.2 | 1.5  | 1.8  | 0.2 | 1.8  | 5,754  |
| Nachola Wards              | None       | 4.7  | 16.6 | 75.1 | 0.1 | 1.5  | 0.1  | 0.3 | 1.8  | 5,197  |
| Nachola Wards              | Primary    | 7.1  | 10.0 | 59.3 | 0.3 | 2.4  | 18.6 | -   | 2.4  | 339    |
| Nachola Wards              | Secondary+ | 43.1 | 3.2  | 32.6 | 0.9 | 0.9  | 17.4 | -   | 1.8  | 218    |
| Ndoto Wards                | Total      | 2.7  | 24.5 | 54.5 | 0.3 | 10.0 | 0.9  | 0.4 | 6.6  | 6,755  |
| Ndoto Wards                | None       | 1.3  | 24.6 | 56.7 | 0.3 | 10.5 | 0.0  | 0.4 | 6.2  | 5,607  |
| Ndoto Wards                | Primary    | 4.6  | 24.5 | 49.5 | 0.3 | 8.8  | 5.0  | 0.2 | 7.0  | 874    |
| Ndoto Wards                | Secondary+ | 25.2 | 22.6 | 26.3 | 1.8 | 3.7  | 5.5  | -   | 15.0 | 274    |
| Nyiro Wards                | Total      | 3.5  | 17.4 | 58.9 | 0.3 | 11.9 | 1.6  | 0.2 | 6.2  | 9,098  |
| Nyiro Wards                | None       | 2.0  | 18.7 | 61.8 | 0.2 | 11.1 | -    | 0.3 | 5.9  | 7,843  |
| Nyiro Wards                | Primary    | 6.8  | 10.6 | 46.1 | 0.4 | 16.8 | 12.0 | 0.2 | 7.0  | 839    |
| Nyiro Wards                | Secondary+ | 26.0 | 6.5  | 29.1 | 0.5 | 15.1 | 11.1 | -   | 11.8 | 416    |
| AngataNanyukie Wards       | Total      | 6.8  | 18.0 | 52.3 | 2.3 | 10.5 | 4.6  | 0.3 | 5.2  | 4,753  |
| AngataNanyukie Wards       | None       | 5.0  | 20.0 | 55.4 | 2.6 | 11.9 | 0.2  | 0.4 | 4.5  | 3,790  |
| AngataNanyukie Wards       | Primary    | 9.4  | 10.7 | 46.1 | 0.4 | 5.4  | 22.5 | 0.1 | 5.4  | 723    |
| AngataNanyukie Wards       | Secondary+ | 28.3 | 8.8  | 22.5 | 2.5 | 3.8  | 19.2 | -   | 15.0 | 240    |
| Baawa Wards                | Total      | 4.8  | 9.0  | 66.0 | 1.4 | 12.5 | 1.6  | 0.3 | 4.3  | 5,099  |
| Baawa Wards                | None       | 3.4  | 9.0  | 70.0 | 1.4 | 12.5 | 0.1  | 0.3 | 3.3  | 4,443  |
| Baawa Wards                | Primary    | 6.4  | 9.3  | 44.6 | 1.8 | 14.2 | 11.1 | 0.2 | 12.5 | 514    |
| Baawa Wards                | Secondary+ | 43.7 | 10.6 | 19.0 | 1.4 | 4.2  | 14.1 | -   | 7.0  | 142    |
| Samburu East Constituency  | Total      | 9.3  | 15.6 | 42.4 | 1.0 | 10.0 | 4.1  | 0.4 | 17.2 | 26,943 |
| Samburu East Constituency  | None       | 3.5  | 16.5 | 51.3 | 1.0 | 10.9 | 0.1  | 0.4 | 16.3 | 19,563 |



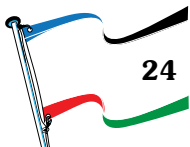


|                           |            |      |      |      |     |      |      |     |      |       |
|---------------------------|------------|------|------|------|-----|------|------|-----|------|-------|
| Samburu East Constituency | Primary    | 15.2 | 13.6 | 24.1 | 0.9 | 9.3  | 15.2 | 0.3 | 21.5 | 4,638 |
| Samburu East Constituency | Secondary+ | 40.8 | 11.9 | 9.6  | 1.8 | 5.2  | 14.7 | 0.1 | 16.0 | 2,742 |
| Waso Wards                | Total      | 11.6 | 7.9  | 45.6 | 1.3 | 7.7  | 4.2  | 0.3 | 21.4 | 8,328 |
| Waso Wards                | None       | 3.2  | 7.9  | 61.4 | 1.3 | 7.8  | 0.1  | 0.3 | 18.1 | 5,637 |
| Waso Wards                | Primary    | 17.6 | 7.2  | 17.5 | 1.0 | 9.8  | 13.6 | 0.3 | 33.1 | 1,525 |
| Waso Wards                | Secondary+ | 44.6 | 8.9  | 6.2  | 1.5 | 4.8  | 11.8 | -   | 22.2 | 1,166 |
| Wamba West Wards          | Total      | 5.0  | 21.5 | 41.7 | 1.1 | 11.9 | 2.1  | 0.6 | 16.1 | 5,965 |
| Wamba West Wards          | None       | 2.9  | 22.3 | 42.8 | 1.2 | 12.9 | 0.0  | 0.7 | 17.2 | 5,059 |
| Wamba West Wards          | Primary    | 10.8 | 18.3 | 39.0 | 0.6 | 7.7  | 12.1 | 0.2 | 11.4 | 677   |
| Wamba West Wards          | Secondary+ | 33.6 | 13.5 | 26.2 | 0.4 | 1.8  | 17.5 | -   | 7.0  | 229   |
| Wamba East Wards          | Total      | 15.3 | 17.0 | 29.9 | 1.0 | 12.8 | 8.0  | 0.3 | 15.7 | 7,371 |
| Wamba East Wards          | None       | 6.8  | 19.6 | 40.9 | 0.7 | 15.8 | 0.1  | 0.4 | 15.7 | 4,099 |
| Wamba East Wards          | Primary    | 17.0 | 13.7 | 21.0 | 1.0 | 10.5 | 18.4 | 0.3 | 18.1 | 2,030 |
| Wamba East Wards          | Secondary+ | 40.7 | 14.0 | 8.1  | 1.9 | 6.3  | 17.0 | 0.2 | 11.9 | 1,242 |
| Wamba North Wards         | Total      | 2.2  | 18.8 | 55.6 | 0.6 | 7.8  | 1.0  | 0.4 | 13.6 | 5,279 |
| Wamba North Wards         | None       | 1.7  | 18.0 | 57.5 | 0.5 | 8.1  | 0.0  | 0.4 | 13.8 | 4,768 |
| Wamba North Wards         | Primary    | 4.4  | 28.8 | 39.9 | 0.5 | 4.4  | 9.9  | 0.5 | 11.6 | 406   |
| Wamba North Wards         | Secondary+ | 15.2 | 17.1 | 30.5 | 5.7 | 3.8  | 12.4 | -   | 15.2 | 105   |

Table 37.4: 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 |
| Samburu                   | Total      | 12.4 | 18.1 | 43.3 | 1.1 | 9.4  | 5.0  | 0.3 | 10.4 | 62,033    |
| Samburu                   | None       | 4.7  | 19.4 | 54.4 | 0.9 | 10.3 | 0.1  | 0.4 | 9.8  | 41,025    |
| Samburu                   | Primary    | 16.9 | 15.9 | 28.6 | 1.0 | 9.7  | 15.3 | 0.2 | 12.4 | 12,695    |
| Samburu                   | Secondary+ | 43.2 | 15.2 | 11.2 | 1.6 | 4.8  | 13.6 | 0.0 | 10.3 | 8,313     |
| Samburu West Constituency | Total      | 19.8 | 15.7 | 28.9 | 1.5 | 13.0 | 8.9  | 0.4 | 11.8 | 22,354    |
| Samburu West Constituency | None       | 9.2  | 14.7 | 41.2 | 1.5 | 18.5 | 0.1  | 0.7 | 13.9 | 10,012    |
| Samburu West Constituency | Primary    | 18.8 | 16.0 | 25.1 | 1.3 | 10.8 | 16.6 | 0.3 | 11.1 | 7,319     |
| Samburu West Constituency | Secondary+ | 42.3 | 17.3 | 10.0 | 1.8 | 5.3  | 14.9 | 0.1 | 8.4  | 5,023     |
| Lodokejek Ward            | Total      | 15.4 | 14.4 | 31.9 | 1.1 | 16.8 | 7.5  | 0.5 | 12.4 | 2,794     |
| Lodokejek Ward            | None       | 7.5  | 15.5 | 41.3 | 1.4 | 21.8 | 0.2  | 0.6 | 11.7 | 1,595     |
| Lodokejek Ward            | Primary    | 17.2 | 12.7 | 24.8 | 0.6 | 13.5 | 17.5 | 0.4 | 13.1 | 777       |
| Lodokejek Ward            | Secondary+ | 41.9 | 13.3 | 9.7  | 0.7 | 3.8  | 16.8 | -   | 13.7 | 422       |
| SugutaMarmar Ward         | Total      | 13.7 | 12.7 | 39.7 | 0.8 | 16.3 | 9.7  | 0.4 | 6.9  | 2,773     |
| SugutaMarmar Ward         | None       | 4.7  | 12.6 | 53.3 | 0.7 | 21.0 | 0.1  | 0.6 | 7.0  | 1,556     |
| SugutaMarmar Ward         | Primary    | 11.3 | 13.6 | 29.1 | 0.8 | 12.8 | 24.9 | 0.1 | 7.3  | 794       |
| SugutaMarmar Ward         | Secondary+ | 51.3 | 11.1 | 9.2  | 1.4 | 5.2  | 16.3 | -   | 5.4  | 423       |
| Maralal Ward              | Total      | 26.6 | 18.3 | 18.7 | 1.9 | 11.2 | 9.1  | 0.4 | 13.9 | 11,348    |
| Maralal Ward              | None       | 13.5 | 15.8 | 30.0 | 2.3 | 17.5 | 0.1  | 0.8 | 20.0 | 3,971     |
| Maralal Ward              | Primary    | 25.4 | 19.5 | 17.1 | 1.5 | 10.1 | 13.5 | 0.3 | 12.7 | 3,768     |
| Maralal Ward              | Secondary+ | 42.2 | 19.7 | 7.9  | 1.9 | 5.4  | 14.5 | 0.1 | 8.4  | 3,609     |
| Loosuk Ward               | Total      | 13.4 | 10.1 | 36.4 | 0.9 | 16.9 | 10.1 | 0.6 | 11.6 | 2,686     |
| Loosuk Ward               | None       | 7.3  | 10.7 | 41.2 | 0.6 | 24.6 | 0.2  | 0.8 | 14.5 | 1,341     |
| Loosuk Ward               | Primary    | 12.8 | 9.9  | 35.2 | 1.2 | 10.2 | 21.2 | 0.4 | 9.0  | 1,084     |
| Loosuk Ward               | Secondary+ | 47.1 | 8.0  | 16.5 | 1.1 | 4.6  | 14.9 | -   | 7.7  | 261       |
| Porro Ward                | Total      | 8.7  | 15.0 | 50.1 | 1.6 | 9.7  | 7.0  | 0.5 | 7.4  | 2,753     |
| Porro Ward                | None       | 6.1  | 16.6 | 57.8 | 1.2 | 10.0 | 0.1  | 0.7 | 7.4  | 1,549     |
| Porro Ward                | Primary    | 6.5  | 13.6 | 43.4 | 1.7 | 10.5 | 16.2 | 0.1 | 8.0  | 896       |
| Porro Ward                | Secondary+ | 27.9 | 11.0 | 30.8 | 2.9 | 6.2  | 15.3 | 0.3 | 5.5  | 308       |



|                            |            |      |      |      |     |      |      |     |      |        |
|----------------------------|------------|------|------|------|-----|------|------|-----|------|--------|
| Samburu North Constituency | Total      | 5.6  | 21.6 | 57.2 | 0.7 | 6.9  | 2.3  | 0.2 | 5.5  | 24,344 |
| Samburu North Constituency | None       | 2.8  | 22.9 | 61.5 | 0.6 | 7.1  | 0.1  | 0.2 | 4.8  | 20,292 |
| Samburu North Constituency | Primary    | 9.0  | 17.5 | 43.7 | 0.5 | 7.5  | 13.9 | 0.1 | 7.8  | 2,624  |
| Samburu North Constituency | Secondary+ | 39.3 | 11.8 | 20.3 | 1.7 | 3.6  | 12.5 | -   | 10.9 | 1,428  |
| El Barta Ward              | Total      | 9.9  | 28.7 | 40.6 | 1.1 | 3.1  | 6.3  | 0.3 | 10.0 | 3,688  |
| El Barta Ward              | None       | 3.3  | 33.2 | 49.2 | 0.9 | 3.8  | 0.2  | 0.4 | 9.0  | 2,582  |
| El Barta Ward              | Primary    | 10.6 | 22.9 | 26.2 | 0.9 | 1.7  | 25.8 | -   | 12.0 | 577    |
| El Barta Ward              | Secondary+ | 41.8 | 13.0 | 14.4 | 2.1 | 1.5  | 14.9 | -   | 12.3 | 529    |
| Nachola Ward               | Total      | 6.0  | 19.6 | 70.1 | 0.1 | 1.1  | 1.1  | 0.1 | 1.9  | 4,100  |
| Nachola Ward               | None       | 4.0  | 20.6 | 72.2 | 0.1 | 1.2  | -    | 0.2 | 1.9  | 3,767  |
| Nachola Ward               | Primary    | 9.9  | 11.5 | 61.8 | -   | 1.0  | 14.1 | -   | 1.6  | 191    |
| Nachola Ward               | Secondary+ | 52.8 | 3.5  | 26.8 | 0.7 | -    | 14.1 | -   | 2.1  | 142    |
| Ndoto Ward                 | Total      | 3.4  | 26.4 | 53.0 | 0.4 | 8.8  | 0.7  | 0.3 | 7.1  | 4,168  |
| Ndoto Ward                 | None       | 1.3  | 26.4 | 55.5 | 0.3 | 9.2  | 0.0  | 0.4 | 6.9  | 3,427  |
| Ndoto Ward                 | Primary    | 6.4  | 26.5 | 47.7 | 0.4 | 9.0  | 3.7  | -   | 6.4  | 547    |
| Ndoto Ward                 | Secondary+ | 31.4 | 24.7 | 23.2 | 2.6 | 1.5  | 3.6  | -   | 12.9 | 194    |
| Nyiro Ward                 | Total      | 3.7  | 20.0 | 60.3 | 0.3 | 9.0  | 1.6  | 0.1 | 5.0  | 6,594  |
| Nyiro Ward                 | None       | 1.9  | 21.6 | 63.3 | 0.3 | 8.3  | -    | 0.1 | 4.5  | 5,720  |
| Nyiro Ward                 | Primary    | 8.6  | 11.7 | 46.4 | 0.3 | 13.7 | 12.2 | 0.2 | 6.9  | 591    |
| Nyiro Ward                 | Secondary+ | 29.7 | 5.7  | 27.6 | 0.7 | 12.0 | 11.7 | -   | 12.7 | 283    |
| AngataNanyukie Ward        | Total      | 6.9  | 24.1 | 50.2 | 1.7 | 8.4  | 3.8  | 0.2 | 4.9  | 3,120  |
| AngataNanyukie Ward        | None       | 4.3  | 26.9 | 52.7 | 1.9 | 9.6  | 0.2  | 0.2 | 4.2  | 2,477  |
| AngataNanyukie Ward        | Primary    | 10.1 | 13.9 | 47.4 | 0.4 | 3.9  | 17.8 | 0.2 | 6.2  | 466    |
| AngataNanyukie Ward        | Secondary+ | 34.5 | 11.3 | 22.0 | 2.3 | 2.8  | 16.4 | -   | 10.7 | 177    |
| Baawa Ward                 | Total      | 5.8  | 8.9  | 67.6 | 1.1 | 11.5 | 1.0  | 0.2 | 4.0  | 2,674  |
| Baawa Ward                 | None       | 3.1  | 8.7  | 72.1 | 1.2 | 11.6 | 0.0  | 0.2 | 3.1  | 2,319  |
| Baawa Ward                 | Primary    | 9.5  | 9.9  | 48.4 | 0.8 | 14.3 | 6.0  | -   | 11.1 | 252    |
| Baawa Ward                 | Secondary+ | 57.3 | 9.7  | 13.6 | 1.0 | 1.0  | 10.7 | -   | 6.8  | 103    |
| Samburu East Constituency  | Total      | 12.3 | 16.0 | 42.3 | 1.0 | 8.2  | 3.7  | 0.3 | 16.2 | 15,335 |
| Samburu East Constituency  | None       | 4.2  | 17.2 | 53.3 | 1.0 | 8.7  | 0.0  | 0.4 | 15.2 | 10,721 |
| Samburu East Constituency  | Primary    | 19.4 | 14.1 | 23.3 | 0.8 | 8.9  | 12.9 | 0.3 | 20.4 | 2,752  |

|                           |            |      |      |      |     |      |      |     |      |       |
|---------------------------|------------|------|------|------|-----|------|------|-----|------|-------|
| Samburu East Constituency | Secondary+ | 48.7 | 11.9 | 7.3  | 1.2 | 4.5  | 11.1 | -   | 15.3 | 1,862 |
| Waso Ward                 | Total      | 15.3 | 8.8  | 45.4 | 1.2 | 5.8  | 3.5  | 0.3 | 19.7 | 5,352 |
| Waso Ward                 | None       | 3.6  | 8.8  | 63.7 | 1.4 | 5.5  | 0.0  | 0.3 | 16.7 | 3,493 |
| Waso Ward                 | Primary    | 23.4 | 8.6  | 17.1 | 0.9 | 8.8  | 10.9 | 0.2 | 30.1 | 989   |
| Waso Ward                 | Secondary+ | 52.9 | 9.0  | 4.4  | 0.9 | 3.6  | 9.2  | -   | 20.1 | 870   |
| Wamba West Ward           | Total      | 7.0  | 21.2 | 39.5 | 1.1 | 10.1 | 2.2  | 0.6 | 18.3 | 2,813 |
| Wamba West Ward           | None       | 3.7  | 22.6 | 40.3 | 1.3 | 11.4 | -    | 0.7 | 19.9 | 2,311 |
| Wamba West Ward           | Primary    | 14.8 | 15.8 | 40.7 | -   | 5.2  | 11.5 | -   | 12.0 | 366   |
| Wamba West Ward           | Secondary+ | 42.6 | 11.0 | 21.3 | 0.7 | 0.7  | 14.7 | -   | 8.8  | 136   |
| Wamba East Ward           | Total      | 18.1 | 19.0 | 28.8 | 1.0 | 11.6 | 6.9  | 0.3 | 14.4 | 4,351 |
| Wamba East Ward           | None       | 7.5  | 22.3 | 40.8 | 0.9 | 13.7 | 0.1  | 0.3 | 14.5 | 2,366 |
| Wamba East Ward           | Primary    | 19.6 | 15.0 | 19.7 | 1.1 | 11.1 | 16.6 | 0.4 | 16.5 | 1,180 |
| Wamba East Ward           | Secondary+ | 47.1 | 15.0 | 6.7  | 1.1 | 6.1  | 12.8 | -   | 11.2 | 805   |
| Wamba North Ward          | Total      | 3.0  | 19.9 | 60.1 | 0.6 | 5.6  | 0.5  | 0.3 | 10.0 | 2,819 |
| Wamba North Ward          | None       | 2.3  | 19.0 | 62.3 | 0.5 | 5.8  | 0.0  | 0.3 | 9.8  | 2,551 |
| Wamba North Ward          | Primary    | 7.8  | 30.9 | 41.9 | -   | 4.1  | 3.7  | 0.5 | 11.1 | 217   |
| Wamba North Ward          | Secondary+ | 19.6 | 15.7 | 29.4 | 9.8 | 3.9  | 7.8  | -   | 13.7 | 51    |

Table 37.5: 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 |
| Samburu                    | Total      | 7.4   | 13.2  | 43.3  | 1.2  | 14.6  | 7.4   | .6   | 12.2  | 40562   |
| Samburu                    | None       | 4.4   | 13.7  | 51.4  | 1.2  | 16.7  | .2    | .8   | 11.6  | 28311   |
| Samburu                    | Primary    | 9.3   | 12.2  | 28.7  | .9   | 10.9  | 24.3  | .4   | 13.4  | 8348    |
| Samburu                    | Secondary+ | 25.1  | 11.8  | 15.9  | 2.2  | 7.2   | 23.9  | .2   | 13.7  | 3903    |
| Samburu West Constituency  | Total      | 11.4  | 11.9  | 30.6  | 1.6  | 19.4  | 12.2  | .9   | 11.9  | 15538   |
| Samburu West Constituency  | None       | 7.1   | 11.7  | 38.5  | 1.8  | 26.7  | .3    | 1.3  | 12.6  | 8520    |
| Samburu West Constituency  | Primary    | 11.2  | 12.1  | 24.9  | .8   | 12.0  | 27.5  | .4   | 11.0  | 4701    |
| Samburu West Constituency  | Secondary+ | 27.5  | 12.4  | 13.4  | 2.4  | 7.4   | 25.1  | .2   | 11.6  | 2317    |
| Lodokejek Ward             | Total      | 6.4   | 12.6  | 31.4  | 1.6  | 26.1  | 8.9   | .8   | 12.1  | 3055    |
| Lodokejek Ward             | None       | 4.2   | 12.8  | 38.1  | 1.6  | 32.3  | .2    | .9   | 9.9   | 2064    |
| Lodokejek Ward             | Primary    | 8.0   | 11.8  | 19.3  | .7   | 16.2  | 28.0  | .7   | 15.4  | 753     |
| Lodokejek Ward             | Secondary+ | 20.2  | 13.4  | 12.2  | 4.6  | 4.2   | 23.5  | .4   | 21.4  | 238     |
| SugutaMarmar Ward          | Total      | 7.6   | 6.5   | 29.7  | .8   | 31.3  | 16.5  | .7   | 7.1   | 2448    |
| SugutaMarmar Ward          | None       | 5.1   | 5.7   | 37.4  | .6   | 43.3  | .5    | .9   | 6.4   | 1461    |
| SugutaMarmar Ward          | Primary    | 6.0   | 7.4   | 20.9  | 1.0  | 16.3  | 41.4  | .3   | 6.7   | 717     |
| SugutaMarmar Ward          | Secondary+ | 24.8  | 8.1   | 11.1  | 1.1  | 5.9   | 36.3  | .7   | 11.9  | 270     |
| Maralal Ward               | Total      | 18.2  | 14.2  | 21.7  | 2.0  | 15.1  | 12.3  | 1.2  | 15.4  | 6239    |
| Maralal Ward               | None       | 11.5  | 13.7  | 28.6  | 2.5  | 22.0  | .2    | 2.4  | 19.1  | 2747    |
| Maralal Ward               | Primary    | 17.7  | 15.4  | 20.2  | 1.0  | 10.6  | 20.7  | .3   | 14.1  | 1939    |
| Maralal Ward               | Secondary+ | 30.7  | 13.3  | 11.5  | 2.2  | 8.7   | 23.2  | .1   | 10.4  | 1553    |
| Loosuk Ward                | Total      | 7.7   | 8.2   | 44.5  | 1.0  | 15.9  | 12.5  | .5   | 9.7   | 1969    |
| Loosuk Ward                | None       | 6.0   | 8.7   | 50.1  | 1.0  | 22.0  | .2    | .3   | 11.5  | 1143    |
| Loosuk Ward                | Primary    | 7.6   | 7.3   | 39.0  | .4   | 8.4   | 29.6  | .6   | 7.1   | 700     |
| Loosuk Ward                | Secondary+ | 23.8  | 8.7   | 23.8  | 3.2  | 3.2   | 29.4  | .8   | 7.1   | 126     |
| Porro Ward                 | Total      | 5.7   | 14.6  | 46.3  | 2.0  | 10.6  | 11.7  | .6   | 8.6   | 1827    |
| Porro Ward                 | None       | 5.4   | 15.7  | 53.6  | 2.6  | 11.2  | .5    | .7   | 10.3  | 1105    |
| Porro Ward                 | Primary    | 4.9   | 13.2  | 35.5  | .7   | 10.5  | 29.9  | .5   | 4.9   | 592     |
| Porro Ward                 | Secondary+ | 12.3  | 11.5  | 33.1  | 2.3  | 5.4   | 23.8  | 0.0  | 11.5  | 130     |
| Samburu North Constituency | Total      | 4.6   | 13.2  | 58.7  | 1.0  | 10.8  | 4.1   | .5   | 7.0   | 13415   |
| Samburu North Constituency | None       | 3.8   | 13.7  | 63.4  | 1.1  | 11.4  | .1    | .6   | 6.0   | 10949   |
| Samburu North Constituency | Primary    | 4.3   | 11.5  | 42.4  | 1.0  | 8.9   | 21.8  | .2   | 9.8   | 1760    |
| Samburu North Constituency | Secondary+ | 18.7  | 9.6   | 25.8  | .8   | 6.9   | 22.1  | .1   | 15.9  | 706     |
| El Barta Ward              | Total      | 7.1   | 20.2  | 47.7  | .9   | 2.0   | 9.4   | .5   | 12.2  | 2587    |
| El Barta Ward              | None       | 4.6   | 23.6  | 57.5  | .8   | 2.5   | .2    | .7   | 9.9   | 1779    |
| El Barta Ward              | Primary    | 6.1   | 13.6  | 32.5  | 1.2  | 1.0   | 30.0  | 0.0  | 15.6  | 493     |
| El Barta Ward              | Secondary+ | 22.5  | 11.1  | 16.2  | .6   | .6    | 28.9  | .3   | 19.7  | 315     |
| Nachola Ward               | Total      | 7.0   | 6.1   | 78.5  | .3   | 2.5   | 3.4   | .5   | 1.7   | 1654    |
| Nachola Ward               | None       | 6.4   | 6.1   | 82.7  | .2   | 2.3   | .2    | .6   | 1.5   | 1430    |
| Nachola Ward               | Primary    | 3.4   | 8.1   | 56.1  | .7   | 4.1   | 24.3  | 0.0  | 3.4   | 148     |
| Nachola Ward               | Secondary+ | 25.0  | 2.6   | 43.4  | 1.3  | 2.6   | 23.7  | 0.0  | 1.3   | 76      |
| Ndoto Ward                 | Total      | 1.6   | 21.6  | 57.1  | .2   | 12.0  | 1.3   | .4   | 5.8   | 2587    |
| Ndoto Ward                 | None       | 1.3   | 21.8  | 58.6  | .2   | 12.6  | .0    | .4   | 5.0   | 2180    |
| Ndoto Ward                 | Primary    | 1.5   | 21.1  | 52.6  | .3   | 8.6   | 7.3   | .6   | 8.0   | 327     |
| Ndoto Ward                 | Secondary+ | 10.0  | 17.5  | 33.8  | 0.0  | 8.8   | 10.0  | 0.0  | 20.0  | 80      |
| Nyiro Ward                 | Total      | 3.1   | 10.5  | 55.2  | .2   | 19.4  | 1.7   | .6   | 9.4   | 2504    |
| Nyiro Ward                 | None       | 2.3   | 10.9  | 57.7  | .1   | 18.7  | 0.0   | .6   | 9.7   | 2123    |

|                           |            |      |      |      |     |      |      |     |      |       |
|---------------------------|------------|------|------|------|-----|------|------|-----|------|-------|
| Nyiro Ward                | Primary    | 2.4  | 8.1  | 45.6 | .4  | 24.2 | 11.7 | .4  | 7.3  | 248   |
| Nyiro Ward                | Secondary+ | 18.0 | 8.3  | 32.3 | 0.0 | 21.8 | 9.8  | 0.0 | 9.8  | 133   |
| AngataNanyukie Ward       | Total      | 6.7  | 6.3  | 55.5 | 3.4 | 14.3 | 7.6  | .5  | 5.7  | 1658  |
| AngataNanyukie Ward       | None       | 6.3  | 6.9  | 60.4 | 4.1 | 16.1 | .3   | .7  | 5.1  | 1313  |
| AngataNanyukie Ward       | Primary    | 7.4  | 4.3  | 39.7 | .4  | 7.4  | 37.2 | 0.0 | 3.5  | 282   |
| AngataNanyukie Ward       | Secondary+ | 11.1 | 1.6  | 23.8 | 3.2 | 6.3  | 27.0 | 0.0 | 27.0 | 63    |
| Baawa Ward                | Total      | 3.8  | 9.2  | 64.3 | 1.8 | 13.5 | 2.2  | .5  | 4.7  | 2425  |
| Baawa Ward                | None       | 3.7  | 9.2  | 67.8 | 1.6 | 13.5 | .1   | .5  | 3.6  | 2124  |
| Baawa Ward                | Primary    | 3.4  | 8.8  | 40.8 | 2.7 | 14.1 | 16.0 | .4  | 13.7 | 262   |
| Baawa Ward                | Secondary+ | 7.7  | 12.8 | 33.3 | 2.6 | 12.8 | 23.1 | 0.0 | 7.7  | 39    |
| Samburu East Constituency | Total      | 5.3  | 15.0 | 42.5 | 1.0 | 12.5 | 4.7  | .5  | 18.5 | 11609 |
| Samburu East Constituency | None       | 2.7  | 15.7 | 49.0 | .8  | 13.6 | .1   | .5  | 17.6 | 8842  |
| Samburu East Constituency | Primary    | 9.1  | 12.9 | 25.3 | 1.1 | 9.9  | 18.5 | .3  | 23.0 | 1887  |
| Samburu East Constituency | Secondary+ | 24.0 | 11.9 | 14.5 | 2.8 | 6.7  | 22.2 | .2  | 17.6 | 880   |
| Waso Ward                 | Total      | 5.0  | 6.4  | 45.9 | 1.3 | 11.2 | 5.4  | .3  | 24.5 | 2976  |
| Waso Ward                 | None       | 2.4  | 6.5  | 57.6 | 1.1 | 11.5 | .1   | .3  | 20.5 | 2144  |
| Waso Ward                 | Primary    | 7.1  | 4.5  | 18.3 | 1.1 | 11.6 | 18.7 | .4  | 38.4 | 536   |
| Waso Ward                 | Secondary+ | 20.3 | 8.8  | 11.5 | 3.0 | 8.4  | 19.6 | 0.0 | 28.4 | 296   |
| Wamba West Ward           | Total      | 3.1  | 21.8 | 43.8 | 1.1 | 13.5 | 1.9  | .6  | 14.1 | 3153  |
| Wamba West Ward           | None       | 2.2  | 22.0 | 44.9 | 1.2 | 14.2 | .0   | .7  | 14.8 | 2748  |
| Wamba West Ward           | Primary    | 6.1  | 21.5 | 36.9 | 1.3 | 10.6 | 12.8 | .3  | 10.6 | 312   |
| Wamba West Ward           | Secondary+ | 20.4 | 17.2 | 33.3 | 0.0 | 3.2  | 21.5 | 0.0 | 4.3  | 93    |
| Wamba East Ward           | Total      | 11.3 | 14.2 | 31.5 | 1.1 | 14.5 | 9.4  | .5  | 17.6 | 3020  |
| Wamba East Ward           | None       | 5.8  | 15.8 | 41.0 | .5  | 18.8 | 0.0  | .6  | 17.4 | 1733  |
| Wamba East Ward           | Primary    | 13.3 | 12.0 | 22.8 | .9  | 9.6  | 20.8 | .2  | 20.2 | 850   |
| Wamba East Ward           | Secondary+ | 28.8 | 12.1 | 10.5 | 3.4 | 6.6  | 24.7 | .5  | 13.3 | 437   |
| Wamba North Ward          | Total      | 1.2  | 17.6 | 50.4 | .6  | 10.2 | 1.7  | .4  | 17.8 | 2460  |
| Wamba North Ward          | None       | 1.0  | 16.9 | 52.0 | .5  | 10.8 | .0   | .5  | 18.4 | 2217  |
| Wamba North Ward          | Primary    | .5   | 26.5 | 37.6 | 1.1 | 4.8  | 16.9 | .5  | 12.2 | 189   |
| Wamba North Ward          | Secondary+ | 11.1 | 18.5 | 31.5 | 1.9 | 3.7  | 16.7 | 0.0 | 16.7 | 54    |

Table 37.6: 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 |
| Samburu County             | 0.006      | 1,920 | 0.003          | 0.332 |
| Samburu West Constituency  | 0.002      | 2,010 | 0.0013         | 0.344 |
| Lodokejek                  | 0.000      | 1,610 | 0.0002         | 0.255 |
| SugutaMarmar               | 0.000      | 1,690 | 0.0002         | 0.304 |
| Maralal                    | 0.001      | 2,550 | 0.0007         | 0.372 |
| Loosuk                     | 0.000      | 1,360 | 0.0001         | 0.222 |
| Porro                      | 0.000      | 1,670 | 0.0001         | 0.258 |
| Samburu North Constituency | 0.002      | 1,740 | 0.0011         | 0.276 |
| El Barta                   | 0.000      | 2,600 | 0.0003         | 0.336 |
| Nachola                    | 0.000      | 1,380 | 0.0001         | 0.200 |
| Ndoto                      | 0.000      | 1,360 | 0.0002         | 0.198 |

|                           |       |       |        |       |
|---------------------------|-------|-------|--------|-------|
| Nyiro                     | 0.001 | 1,490 | 0.0002 | 0.206 |
| AngataNanyukie            | 0.000 | 1,960 | 0.0002 | 0.269 |
| Baawa                     | 0.000 | 1,790 | 0.0002 | 0.236 |
| Samburu East Constituency | 0.002 | 2,070 | 0.0009 | 0.376 |
| Waso                      | 0.000 | 2,150 | 0.0003 | 0.385 |
| Wamba West                | 0.000 | 1,560 | 0.0002 | 0.244 |
| Wamba East                | 0.000 | 2,970 | 0.0004 | 0.417 |
| Wamba North               | 0.000 | 1,330 | 0.0001 | 0.200 |

Table 37.7: 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 |
| Samburu County             | 68.1 | 25.6    | 6.3        | 195,312    |
| Samburu West Constituency  | 51.0 | 38.8    | 10.3       | 71,811     |
| Lodokejek                  | 62.1 | 32.3    | 5.6        | 11,984     |
| SugutaMarmar               | 56.6 | 37.4    | 6.1        | 10,284     |
| Maralal                    | 42.1 | 41.3    | 16.5       | 31,575     |
| Loosuk                     | 55.4 | 40.3    | 4.4        | 8,916      |
| Porro                      | 56.3 | 38.7    | 4.9        | 9,052      |
| Samburu North Constituency | 80.9 | 16.0    | 3.0        | 72,287     |
| El Barta                   | 66.8 | 26.0    | 7.2        | 11,972     |
| Nachola                    | 86.7 | 11.2    | 2.1        | 10,645     |
| Ndoto                      | 81.2 | 16.7    | 2.1        | 13,153     |
| Nyiro                      | 85.4 | 12.2    | 2.4        | 17,813     |
| AngataNanyukie             | 78.5 | 18.7    | 2.8        | 8,565      |
| Baawa                      | 85.6 | 13.0    | 1.4        | 10,139     |
| Samburu East Constituency  | 74.1 | 20.5    | 5.5        | 51,214     |
| Waso                       | 70.3 | 22.0    | 7.7        | 15,358     |
| Wamba West                 | 84.5 | 13.6    | 2.0        | 11,828     |
| Wamba East                 | 57.9 | 32.9    | 9.2        | 13,904     |
| Wamba North                | 89.9 | 9.0     | 1.0        | 10,124     |

Table 37.8: 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  |
| Samburu County            | 63.4 | 28.4    | 8.2        | 96,953     |  | 72.8 | 22.8    | 4.4        | 98,359     |
| Samburu West Constituency | 43.7 | 43.2    | 13.1       | 34,393     |  | 57.6 | 34.7    | 7.7        | 37,418     |
| Lodokejek                 | 54.0 | 37.8    | 8.2        | 5,329      |  | 68.5 | 27.9    | 3.6        | 6,655      |



|                            |      |      |      |        |  |      |      |      |        |
|----------------------------|------|------|------|--------|--|------|------|------|--------|
| SugutaMarmar               | 48.6 | 42.8 | 8.7  | 4,970  |  | 64.0 | 32.3 | 3.7  | 5,314  |
| Maralal                    | 36.1 | 44.2 | 19.7 | 15,224 |  | 47.7 | 38.6 | 13.6 | 16,351 |
| Loosuk                     | 47.3 | 46.1 | 6.6  | 4,465  |  | 63.4 | 34.4 | 2.2  | 4,451  |
| Porro                      | 48.4 | 44.0 | 7.6  | 4,405  |  | 63.9 | 33.7 | 2.4  | 4,647  |
| Samburu North Constituency | 77.6 | 18.2 | 4.2  | 37,678 |  | 84.6 | 13.8 | 1.7  | 34,609 |
| El Barta                   | 62.1 | 28.2 | 9.8  | 5,904  |  | 71.4 | 23.9 | 4.7  | 6,068  |
| Nachola                    | 86.3 | 10.8 | 2.9  | 6,065  |  | 87.1 | 11.8 | 1.1  | 4,580  |
| Ndoto                      | 75.3 | 21.3 | 3.4  | 6,517  |  | 87.0 | 12.1 | 0.9  | 6,636  |
| Nyiro                      | 82.7 | 14.0 | 3.3  | 9,757  |  | 88.6 | 10.1 | 1.3  | 8,056  |
| AngataNanyukie             | 75.1 | 21.0 | 3.9  | 4,716  |  | 82.6 | 15.9 | 1.5  | 3,849  |
| Baawa                      | 81.1 | 16.4 | 2.5  | 4,719  |  | 89.5 | 10.0 | 0.5  | 5,420  |
| Samburu East Constituency  | 68.9 | 23.5 | 7.6  | 24,882 |  | 79.0 | 17.6 | 3.4  | 26,332 |
| Waso                       | 66.5 | 23.3 | 10.2 | 7,999  |  | 74.5 | 20.6 | 4.9  | 7,359  |
| Wamba West                 | 77.9 | 18.9 | 3.2  | 5,228  |  | 89.7 | 9.4  | 1.0  | 6,600  |
| Wamba East                 | 52.6 | 35.2 | 12.2 | 6,767  |  | 62.9 | 30.7 | 6.4  | 7,137  |
| Wamba North                | 85.8 | 12.5 | 1.7  | 4,888  |  | 93.8 | 5.8  | 0.4  | 5,236  |

Table 37.9: Cooking Fuel by County, Constituency and Wards

| County/Constituency/<br>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  |
| Samburu County                | 0.1         | 0.6      | 0.4  | 0.2    | 81.0     | 17.4     | 0.1   | 0.3   | 45,363     |
| Samburu West Constituency     | 0.2         | 1.1      | 0.6  | 0.2    | 67.6     | 30.0     | 0.1   | 0.2   | 16,955     |
| Lodokejek                     | 0.4         | 0.7      | 0.1  | 0.2    | 87.0     | 11.6     | 0.1   | 0.0   | 2,838      |
| SugutaMarmar                  | 0.0         | 0.5      | 0.3  | 0.1    | 81.5     | 17.5     | 0.0   | 0.1   | 2,297      |
| Maralal                       | 0.3         | 1.8      | 1.2  | 0.2    | 45.6     | 50.5     | 0.1   | 0.3   | 7,751      |
| Loosuk                        | -           | 0.6      | -    | 0.1    | 87.2     | 11.9     | -     | 0.1   | 2,006      |
| Porro                         | 0.1         | 0.4      | 0.1  | 0.1    | 88.9     | 9.7      | 0.3   | 0.2   | 2,063      |
| Samburu North Constituency    | 0.1         | 0.1      | 0.1  | 0.1    | 91.9     | 7.6      | 0.0   | 0.2   | 15,824     |
| El Barta                      | 0.1         | 0.3      | 0.1  | 0.1    | 77.1     | 22.1     | 0.0   | 0.2   | 2,862      |
| Nachola                       | 0.1         | -        | -    | 0.1    | 91.7     | 8.1      | -     | 0.1   | 1,970      |
| Ndoto                         | 0.0         | -        | 0.2  | 0.0    | 97.1     | 2.4      | 0.2   | 0.2   | 3,146      |
| Nyiro                         | 0.1         | 0.1      | 0.1  | 0.0    | 95.1     | 4.5      | -     | 0.1   | 3,354      |
| AngataNanyukie                | 0.1         | 0.1      | -    | 0.1    | 92.4     | 7.3      | 0.1   | 0.1   | 1,928      |
| Baawa                         | -           | 0.0      | 0.0  | 0.0    | 97.5     | 1.6      | -     | 0.7   | 2,564      |

|                           |     |     |     |     |      |      |     |     |        |
|---------------------------|-----|-----|-----|-----|------|------|-----|-----|--------|
| Samburu East Constituency | 0.1 | 0.4 | 0.6 | 0.4 | 85.4 | 12.6 | 0.0 | 0.4 | 12,584 |
| Waso                      | 0.4 | 0.8 | 1.4 | 1.0 | 79.5 | 16.5 | 0.1 | 0.2 | 3,566  |
| Wamba West                | -   | 0.1 | 0.1 | 0.1 | 95.9 | 3.5  | -   | 0.3 | 2,958  |
| Wamba East                | 0.1 | 0.5 | 0.7 | 0.2 | 73.8 | 24.0 | -   | 0.7 | 3,612  |
| Wamba North               | -   | -   | -   | 0.0 | 98.7 | 1.1  | -   | 0.2 | 2,448  |

Table 37.10: 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  |
| Samburu County             | 0.2         | 0.9      | 0.7  | 0.2    | 77.2     | 20.5     | 0.1   | 0.3   | 23,787     |
| Samburu West Constituency  | 0.3         | 1.7      | 1.0  | 0.2    | 60.9     | 35.4     | 0.1   | 0.3   | 8,837      |
| Lodokejek                  | 0.4         | 0.8      | 0.2  | 0.2    | 83.6     | 14.7     | 0.2   | 0.0   | 1,109      |
| SugutaMarmar               | 0.1         | 0.8      | 0.6  | 0.1    | 77.7     | 20.5     | 0.0   | 0.2   | 1,027      |
| Maralal                    | 0.5         | 2.7      | 1.8  | 0.2    | 40.4     | 54.0     | 0.1   | 0.4   | 4,563      |
| Loosuk                     | 0.0         | 0.9      | 0.0  | 0.1    | 83.6     | 15.4     | 0.0   | 0.0   | 1,061      |
| Porro                      | 0.2         | 0.6      | 0.1  | 0.1    | 86.4     | 12.0     | 0.5   | 0.2   | 1,077      |
| Samburu North Constituency | 0.1         | 0.1      | 0.1  | 0.1    | 90.8     | 8.6      | 0.0   | 0.2   | 8,848      |
| El Barta                   | 0.1         | 0.5      | 0.1  | 0.1    | 74.7     | 24.3     | 0.0   | 0.1   | 1,467      |
| Nachola                    | 0.1         | 0.0      | 0.0  | 0.1    | 90.5     | 9.2      | 0.0   | 0.2   | 1,297      |
| Ndoto                      | 0.0         | 0.0      | 0.3  | 0.1    | 96.2     | 3.0      | 0.2   | 0.2   | 1,651      |
| Nyiro                      | 0.1         | 0.1      | 0.0  | 0.0    | 94.9     | 4.9      | 0.0   | 0.0   | 2,182      |
| AngataNanyukie             | 0.2         | 0.1      | 0.0  | 0.1    | 90.2     | 9.4      | 0.0   | 0.1   | 1,111      |
| Baawa                      | 0.0         | 0.1      | 0.1  | 0.1    | 96.9     | 2.2      | 0.0   | 0.6   | 1,140      |
| Samburu East Constituency  | 0.2         | 0.7      | 1.0  | 0.6    | 80.9     | 16.2     | 0.1   | 0.4   | 6,102      |
| Waso                       | 0.5         | 1.2      | 2.1  | 1.5    | 75.1     | 18.9     | 0.2   | 0.3   | 2,010      |
| Wamba West                 | 0.0         | 0.3      | 0.2  | 0.2    | 92.7     | 6.5      | 0.0   | 0.3   | 1,131      |
| Wamba East                 | 0.1         | 0.8      | 1.0  | 0.2    | 69.7     | 27.8     | 0.0   | 0.5   | 1,876      |
| Wamba North                | 0.0         | 0.0      | 0.0  | 0.0    | 98.7     | 1.1      | 0.0   | 0.2   | 1,085      |

Table 37.11: 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    |
| Samburu County            | 0.1         | 0.2      | 0.2  | 0.1    | 85.2     | 13.9     | 0.0   | 0.3   | 21,576     |
| Samburu West Constituency | 0.1         | 0.4      | 0.2  | 0.2    | 74.8     | 24.1     | 0.0   | 0.1   | 8,118      |
| Lodokejek                 | 0.3         | 0.6      | 0.1  | 0.2    | 89.2     | 9.5      | -     | 0.1   | 1,729      |
| SugutaMarmar              | -           | 0.2      | -    | 0.1    | 84.5     | 15.1     | 0.1   | -     | 1,270      |
| Maralal                   | 0.2         | 0.5      | 0.4  | 0.2    | 53.1     | 45.5     | -     | 0.1   | 3,188      |
| Loosuk                    | -           | 0.2      | -    | 0.2    | 91.3     | 8.0      | -     | 0.2   | 945        |

|                            |     |     |     |     |      |      |     |     |       |
|----------------------------|-----|-----|-----|-----|------|------|-----|-----|-------|
| Porro                      | -   | 0.3 | 0.2 | 0.2 | 91.7 | 7.3  | 0.1 | 0.2 | 986   |
| Samburu North Constituency | 0.0 | 0.0 | 0.0 | 0.0 | 93.2 | 6.3  | 0.1 | 0.3 | 6,976 |
| El Barta                   | -   | 0.1 | 0.1 | 0.1 | 79.6 | 19.8 | 0.1 | 0.3 | 1,395 |
| Nachola                    | -   | -   | -   | -   | 93.9 | 6.1  | -   | -   | 673   |
| Ndoto                      | 0.1 | -   | -   | -   | 98.0 | 1.7  | 0.1 | 0.1 | 1,495 |
| Nyiro                      | -   | 0.1 | 0.2 | 0.1 | 95.5 | 3.9  | -   | 0.3 | 1,172 |
| AngataNanyukie             | -   | -   | -   | -   | 95.3 | 4.4  | 0.1 | 0.1 | 817   |
| Baawa                      | -   | -   | -   | -   | 98.0 | 1.2  | -   | 0.8 | 1,424 |
| Samburu East Constituency  | 0.1 | 0.1 | 0.2 | 0.2 | 89.7 | 9.2  | -   | 0.4 | 6,482 |
| Waso                       | 0.3 | 0.3 | 0.5 | 0.4 | 85.2 | 13.3 | -   | 0.1 | 1,556 |
| Wamba West                 | -   | 0.1 | -   | -   | 97.9 | 1.7  | -   | 0.3 | 1,827 |
| Wamba East                 | 0.1 | 0.2 | 0.5 | 0.2 | 78.2 | 20.0 | -   | 0.8 | 1,736 |
| Wamba North                | -   | -   | -   | 0.1 | 98.6 | 1.0  | -   | 0.3 | 1,363 |

Table 37.12: 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  |
| Samburu County             | 5.8         | 0.3           | 10.6    | 19.4     | 0.9      | 60.7     | 1.4   | 0.8   | 23,787     |
| Samburu West Constituency  | 14.2        | 0.2           | 14.8    | 34.9     | 1.0      | 32.9     | 1.4   | 0.5   | 8,837      |
| Lodokejek                  | 3.7         | 0.2           | 10.4    | 52.4     | 0.3      | 31.0     | 1.7   | 0.4   | 1,109      |
| SugutaMarmar               | 7.7         | 0.2           | 11.1    | 29.6     | 0.4      | 50.1     | 0.4   | 0.6   | 1,027      |
| Maralal                    | 27.0        | 0.3           | 18.9    | 31.5     | 1.5      | 18.8     | 1.6   | 0.4   | 4,563      |
| Loosuk                     | 1.3         | 0.3           | 11.2    | 26.4     | 1.2      | 58.7     | 0.8   | 0.1   | 1,061      |
| Porro                      | 0.6         | 0.1           | 13.3    | 37.9     | 0.9      | 43.9     | 1.8   | 1.6   | 1,077      |
| Samburu North Constituency | 0.4         | 0.1           | 6.1     | 10.7     | 1.1      | 80.2     | 0.9   | 0.6   | 8,848      |
| El Barta                   | 1.4         | 0.1           | 14.6    | 35.3     | 3.4      | 43.9     | 1.3   | 0.1   | 1,467      |
| Nachola                    | 0.1         | 0.1           | 5.5     | 13.5     | 0.7      | 79.8     | 0.2   | 0.2   | 1,297      |
| Ndoto                      | 0.0         | 0.0           | 3.8     | 3.2      | 0.5      | 91.3     | 0.9   | 0.2   | 1,651      |
| Nyiro                      | 0.1         | 0.1           | 5.3     | 1.3      | 0.7      | 90.1     | 1.0   | 1.5   | 2,182      |
| AngataNanyukie             | 0.3         | 0.0           | 6.3     | 3.4      | 0.5      | 87.6     | 1.8   | 0.2   | 1,111      |
| Baawa                      | 0.2         | 0.1           | 1.1     | 8.0      | 0.5      | 88.6     | 0.4   | 1.1   | 1,140      |
| Samburu East Constituency  | 1.4         | 0.9           | 10.5    | 9.4      | 0.6      | 73.8     | 2.0   | 1.5   | 6,102      |
| Waso                       | 3.8         | 0.1           | 16.9    | 6.5      | 0.6      | 69.0     | 1.8   | 1.3   | 2,010      |
| Wamba West                 | 0.0         | 0.1           | 2.9     | 2.9      | 0.3      | 91.1     | 0.5   | 2.2   | 1,131      |
| Wamba East                 | 1.3         | 2.8           | 17.0    | 22.9     | 0.8      | 49.1     | 4.4   | 1.7   | 1,876      |
| Wamba North                | 0.0         | 0.0           | 0.8     | 1.4      | 0.6      | 96.3     | 0.3   | 0.5   | 1,085      |

Table 37.13: 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 |
| Samburu County             | 7.8  | 0.3 | 11.9 | 17.9 | 1.0 | 58.6 | 1.7 | 0.8 | 23,787    |
| Samburu West Constituency  | 19.0 | 0.2 | 15.9 | 31.5 | 1.1 | 30.3 | 1.5 | 0.6 | 8,837     |
| Lodokejek                  | 4.9  | 0.3 | 12.6 | 52.8 | 0.5 | 26.6 | 1.9 | 0.5 | 1,109     |
| SugutaMarmar               | 10.7 | 0.2 | 11.6 | 27.8 | 0.3 | 48.1 | 0.7 | 0.7 | 1,027     |
| Maralal                    | 32.7 | 0.3 | 18.5 | 28.3 | 1.4 | 17.1 | 1.5 | 0.4 | 4,563     |
| Loosuk                     | 1.4  | 0.1 | 13.9 | 25.1 | 1.4 | 56.9 | 0.9 | 0.2 | 1,061     |
| Porro                      | 0.6  | 0.1 | 14.1 | 33.1 | 1.0 | 47.3 | 2.1 | 1.7 | 1,077     |
| Samburu North Constituency | 0.5  | 0.1 | 7.0  | 9.5  | 1.2 | 80.0 | 1.1 | 0.7 | 8,848     |
| El Barta                   | 1.8  | 0.1 | 15.1 | 33.7 | 3.8 | 43.6 | 1.8 | 0.1 | 1,467     |
| Nachola                    | 0.2  | 0.0 | 7.0  | 10.9 | 0.7 | 80.9 | 0.2 | 0.2 | 1,297     |
| Ndoto                      | 0.0  | 0.1 | 5.0  | 2.8  | 0.6 | 90.1 | 1.2 | 0.2 | 1,651     |
| Nyiro                      | 0.1  | 0.0 | 5.5  | 1.5  | 0.7 | 89.5 | 0.8 | 1.8 | 2,182     |
| AngataNanyukie             | 0.5  | 0.0 | 8.2  | 3.7  | 0.6 | 84.5 | 2.3 | 0.2 | 1,111     |
| Baawa                      | 0.4  | 0.2 | 1.2  | 7.8  | 0.8 | 88.3 | 0.4 | 0.8 | 1,140     |
| Samburu East Constituency  | 2.2  | 0.6 | 13.4 | 10.5 | 0.5 | 68.5 | 2.7 | 1.5 | 6,102     |
| Waso                       | 5.7  | 0.0 | 18.4 | 6.7  | 0.6 | 64.9 | 2.5 | 1.1 | 2,010     |
| Wamba West                 | 0.1  | 0.1 | 5.3  | 3.5  | 0.1 | 87.7 | 0.9 | 2.3 | 1,131     |
| Wamba East                 | 1.1  | 2.0 | 20.1 | 23.8 | 0.9 | 45.0 | 5.4 | 1.7 | 1,876     |
| Wamba North                | 0.0  | 0.0 | 1.2  | 1.8  | 0.4 | 95.4 | 0.5 | 0.8 | 1,085     |

Table 37.14: 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    |
| Samburu County             | 3.7         | 0.4           | 9.1     | 21.0     | 0.9      | 63.1     | 1.1   | 0.8   | 21,576     |
| Samburu West Constituency  | 9.1         | 0.3           | 13.7    | 38.6     | 1.0      | 35.6     | 1.3   | 0.5   | 8,118      |
| Lodokejek                  | 2.9         | 0.2           | 9.0     | 52.1     | 0.2      | 33.8     | 1.5   | 0.3   | 1,729      |
| SugutaMarmar               | 5.2         | 0.2           | 10.7    | 31.1     | 0.6      | 51.7     | 0.2   | 0.5   | 1,270      |
| Maralal                    | 18.9        | 0.3           | 19.6    | 36.2     | 1.7      | 21.4     | 1.7   | 0.3   | 3,188      |
| Loosuk                     | 1.3         | 0.5           | 8.0     | 27.8     | 1.0      | 60.6     | 0.6   | 0.1   | 945        |
| Porro                      | 0.6         | 0.1           | 12.5    | 43.0     | 0.7      | 40.2     | 1.4   | 1.5   | 986        |
| Samburu North Constituency | 0.2         | 0.0           | 5.1     | 12.1     | 0.9      | 80.4     | 0.7   | 0.5   | 6,976      |
| El Barta                   | 1.1         | -             | 14.1    | 36.9     | 2.9      | 44.2     | 0.8   | 0.1   | 1,395      |
| Nachola                    | -           | 0.1           | 2.7     | 18.6     | 0.6      | 77.9     | 0.1   | -     | 673        |
| Ndoto                      | 0.1         | -             | 2.5     | 3.7      | 0.5      | 92.6     | 0.6   | 0.1   | 1,495      |
| Nyiro                      | -           | 0.2           | 4.9     | 0.9      | 0.5      | 91.3     | 1.2   | 0.9   | 1,172      |
| AngataNanyukie             | -           | -             | 3.8     | 3.1      | 0.4      | 91.7     | 1.0   | 0.1   | 817        |
| Baawa                      | 0.1         | -             | 0.9     | 8.1      | 0.4      | 88.8     | 0.4   | 1.4   | 1,424      |
| Samburu East Constituency  | 0.7         | 1.0           | 7.7     | 8.3      | 0.6      | 78.8     | 1.2   | 1.5   | 6,482      |
| Waso                       | 1.3         | 0.1           | 14.8    | 6.4      | 0.7      | 74.4     | 0.8   | 1.5   | 1,556      |
| Wamba West                 | -           | 0.1           | 1.4     | 2.5      | 0.4      | 93.2     | 0.3   | 2.1   | 1,827      |
| Wamba East                 | 1.4         | 3.7           | 13.7    | 21.8     | 0.7      | 53.6     | 3.4   | 1.7   | 1,736      |
| Wamba North                | -           | 0.1           | 0.5     | 1.2      | 0.7      | 97.0     | 0.2   | 0.3   | 1,363      |

Table 37.15: 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  |
| Samburu County             | 16.0   | 0.2   | 0.4  | 83.0  | 0.5   | 45,363     |
| Samburu West Constituency  | 26.5   | 0.4   | 0.3  | 72.7  | 0.1   | 16,955     |
| Lodokejek                  | 13.7   | 0.1   | 0.4  | 85.6  | 0.2   | 2,838      |
| SugutaMarmar               | 16.8   | -     | 0.5  | 82.6  | 0.2   | 2,297      |
| Maralal                    | 42.6   | 0.7   | 0.2  | 56.4  | 0.1   | 7,751      |
| Loosuk                     | 10.8   | 0.0   | 0.2  | 88.9  | 0.0   | 2,006      |
| Porro                      | 9.9    | 0.0   | 0.8  | 89.1  | 0.1   | 2,063      |
| Samburu North Constituency | 7.0    | 0.1   | 0.3  | 92.3  | 0.4   | 15,824     |
| El Barta                   | 18.2   | 0.1   | 0.3  | 80.3  | 1.1   | 2,862      |
| Nachola                    | 3.1    | 0.1   | 0.2  | 96.4  | 0.2   | 1,970      |
| Ndoto                      | 3.5    | 0.0   | 0.2  | 96.2  | 0.1   | 3,146      |
| Nyiro                      | 6.3    | 0.1   | 0.4  | 92.6  | 0.6   | 3,354      |
| AngataNanyukie             | 7.8    | -     | 0.3  | 92.0  | -     | 1,928      |
| Baawa                      | 2.0    | 0.0   | 0.4  | 97.4  | 0.2   | 2,564      |
| Samburu East Constituency  | 13.2   | 0.1   | 0.5  | 85.1  | 1.1   | 12,584     |
| Waso                       | 19.7   | 0.1   | 0.6  | 78.9  | 0.7   | 3,566      |
| Wamba West                 | 2.9    | 0.0   | 0.3  | 95.9  | 0.8   | 2,958      |
| Wamba East                 | 23.6   | 0.1   | 0.3  | 73.7  | 2.3   | 3,612      |
| Wamba North                | 0.8    | 0.0   | 0.8  | 98.0  | 0.3   | 2,448      |

Table 37.16: 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    |
| Samburu County             | 19.4   | 0.3   | 0.3  | 79.4  | 0.6   | 23,787     | 12.2   | 0.1   | 0.4  | 87.0  | 0.3   | 21,576     |
| Samburu West Constituency  | 32.2   | 0.5   | 0.2  | 67.0  | 0.1   | 8,837      | 20.4   | 0.2   | 0.4  | 78.9  | 0.1   | 8,118      |
| Lodokejek                  | 17.7   | 0.2   | 0.3  | 81.8  | 0.1   | 1,109      | 11.2   | 0.1   | 0.5  | 88.0  | 0.2   | 1,729      |
| SugutaMarmar               | 20.8   | -     | 0.2  | 78.7  | 0.3   | 1,027      | 13.5   | -     | 0.7  | 85.7  | 0.1   | 1,270      |
| Maralal                    | 48.0   | 0.9   | 0.1  | 50.9  | 0.1   | 4,563      | 35.0   | 0.4   | 0.2  | 64.3  | 0.1   | 3,188      |
| Loosuk                     | 12.3   | 0.1   | 0.4  | 87.2  | -     | 1,061      | 9.0    | -     | -    | 90.9  | 0.1   | 945        |
| Porro                      | 10.7   | 0.1   | 0.5  | 88.6  | 0.2   | 1,077      | 9.0    | -     | 1.1  | 89.8  | 0.1   | 986        |
| Samburu North Constituency | 8.1    | 0.1   | 0.3  | 91.1  | 0.4   | 8,848      | 5.5    | 0.0   | 0.2  | 93.8  | 0.4   | 6,976      |
| El Barta                   | 21.1   | 0.1   | 0.3  | 77.6  | 0.8   | 1,467      | 15.3   | -     | 0.2  | 83.2  | 1.4   | 1,395      |

|                           |      |     |     |      |     |       |      |     |     |      |     |       |
|---------------------------|------|-----|-----|------|-----|-------|------|-----|-----|------|-----|-------|
| Nachola                   | 2.9  | -   | 0.2 | 96.6 | 0.3 | 1,297 | 3.7  | 0.1 | -   | 96.1 | -   | 673   |
| Ndoto                     | 5.0  | 0.1 | 0.2 | 94.6 | 0.1 | 1,651 | 1.9  | -   | 0.2 | 97.9 | -   | 1,495 |
| Nyiro                     | 6.7  | 0.1 | 0.6 | 92.1 | 0.5 | 2,182 | 5.5  | 0.1 | 0.1 | 93.6 | 0.7 | 1,172 |
| AngataNanyukie            | 10.1 | -   | 0.4 | 89.6 | -   | 1,111 | 4.7  | -   | 0.1 | 95.2 | -   | 817   |
| Baawa                     | 2.8  | 0.1 | 0.1 | 96.7 | 0.4 | 1,140 | 1.3  | -   | 0.6 | 98.0 | 0.1 | 1,424 |
| Samburu East Constituency | 17.4 | 0.1 | 0.5 | 80.3 | 1.7 | 6,102 | 9.2  | 0.0 | 0.5 | 89.7 | 0.5 | 6,482 |
| Waso                      | 24.2 | 0.2 | 0.6 | 74.0 | 1.0 | 2,010 | 13.9 | 0.1 | 0.6 | 85.2 | 0.3 | 1,556 |
| Wamba West                | 5.8  | -   | 0.4 | 91.9 | 1.9 | 1,131 | 1.0  | 0.1 | 0.3 | 98.5 | 0.2 | 1,827 |
| Wamba East                | 26.3 | 0.1 | 0.2 | 70.4 | 3.0 | 1,876 | 20.6 | 0.1 | 0.5 | 77.4 | 1.5 | 1,736 |
| Wamba North               | 1.4  | 0.1 | 0.8 | 97.1 | 0.6 | 1,085 | 0.4  | -   | 0.8 | 98.8 | -   | 1,363 |

Table 37.17: 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  |
| Samburu County             | 22.3                   | 0.7   | 0.1      | 0.8             | 10.9  | 12.0   | 2.5  | 38.0      | 12.8  | 45,363     |
| Samburu West Constituency  | 37.9                   | 0.6   | 0.0      | 1.3             | 9.2   | 6.0    | 0.3  | 39.8      | 4.8   | 16,955     |
| Lodokejek                  | 15.9                   | 0.4   | 0.1      | 1.0             | 0.6   | 1.8    | 0.0  | 80.0      | 0.2   | 2,838      |
| SugutaMarmar               | 21.9                   | 0.2   | 0.0      | 0.5             | 7.6   | 0.0    | 0.4  | 66.6      | 2.8   | 2,297      |
| Maralal                    | 59.7                   | 0.9   | 0.0      | 1.9             | 6.7   | 5.6    | 0.6  | 21.9      | 2.7   | 7,751      |
| Loosuk                     | 22.3                   | 0.1   | 0.0      | 0.9             | 16.7  | 14.4   | 0.0  | 27.9      | 17.6  | 2,006      |
| Porro                      | 19.8                   | 0.5   | 0.1      | 0.8             | 24.7  | 11.9   | 0.0  | 33.9      | 8.3   | 2,063      |
| Samburu North Constituency | 9.6                    | 0.1   | 0.1      | 0.3             | 15.7  | 15.3   | 2.9  | 35.7      | 20.3  | 15,824     |
| El Barta                   | 24.9                   | 0.1   | 0.1      | 0.5             | 6.3   | 18.7   | 4.5  | 33.6      | 11.3  | 2,862      |
| Nachola                    | 7.8                    | 0.1   | 0.1      | 0.0             | 55.2  | 5.6    | 8.0  | 8.3       | 15.0  | 1,970      |
| Ndoto                      | 4.1                    | 0.1   | 0.0      | 0.2             | 7.1   | 30.0   | 0.3  | 29.7      | 28.6  | 3,146      |
| Nyiro                      | 7.1                    | 0.3   | 0.0      | 0.5             | 13.8  | 17.1   | 5.1  | 13.4      | 42.7  | 3,354      |
| AngataNanyukie             | 9.0                    | 0.1   | 0.5      | 0.2             | 22.5  | 0.2    | 0.1  | 57.8      | 9.8   | 1,928      |
| Baawa                      | 4.1                    | 0.2   | 0.0      | 0.1             | 3.9   | 10.1   | 0.0  | 79.0      | 2.7   | 2,564      |
| Samburu East Constituency  | 17.2                   | 1.6   | 0.1      | 0.8             | 7.1   | 16.0   | 4.8  | 38.3      | 14.1  | 12,584     |
| Waso                       | 23.4                   | 0.4   | 0.1      | 2.4             | 9.7   | 13.7   | 10.9 | 23.4      | 16.0  | 3,566      |
| Wamba West                 | 3.2                    | 1.9   | 0.0      | 0.2             | 7.0   | 20.9   | 4.1  | 52.0      | 10.7  | 2,958      |
| Wamba East                 | 33.0                   | 0.3   | 0.2      | 0.2             | 4.4   | 16.1   | 1.7  | 25.6      | 18.5  | 3,612      |
| Wamba North                | 1.6                    | 4.9   | 0.0      | 0.0             | 7.5   | 13.4   | 1.5  | 62.2      | 8.9   | 2,448      |

Table 37.18: 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  |
| Samburu County             | 25.9                   | 0.7   | 0.1      | 1.0             | 11.5  | 11.7   | 2.1 | 31.7     | 15.2  | 23,787     |
| Samburu West Constituency  | 44.0                   | 0.8   | 0.1      | 1.6             | 9.7   | 6.7    | 0.3 | 31.4     | 5.5   | 8,837      |
| Lodokejek                  | 19.7                   | 0.6   | 0.3      | 0.8             | 0.5   | 2.3    | -   | 75.2     | 0.5   | 1,109      |
| SugutaMarmar               | 26.2                   | 0.3   | -        | 0.8             | 9.1   | -      | 0.4 | 58.7     | 4.6   | 1,027      |
| Maralal                    | 63.9                   | 1.1   | 0.0      | 2.2             | 6.3   | 5.6    | 0.4 | 17.9     | 2.6   | 4,563      |
| Loosuk                     | 24.1                   | 0.3   | -        | 1.6             | 17.9  | 15.8   | 0.1 | 20.0     | 20.2  | 1,061      |
| Porro                      | 21.6                   | 0.2   | 0.1      | 0.7             | 26.4  | 13.1   | 0.1 | 28.1     | 9.7   | 1,077      |
| Samburu North Constituency | 10.7                   | 0.1   | 0.1      | 0.3             | 15.8  | 14.6   | 2.6 | 30.9     | 24.8  | 8,848      |
| El Barta                   | 26.9                   | 0.2   | 0.1      | 0.5             | 6.6   | 18.7   | 3.6 | 28.6     | 14.8  | 1,467      |
| Nachola                    | 8.3                    | 0.1   | 0.1      | -               | 53.1  | 8.2    | 6.2 | 7.6      | 16.4  | 1,297      |
| Ndoto                      | 5.7                    | -     | -        | 0.4             | 6.1   | 29.0   | 0.4 | 26.9     | 31.6  | 1,651      |
| Nyiro                      | 7.6                    | 0.3   | -        | 0.5             | 11.4  | 15.0   | 4.2 | 14.3     | 46.8  | 2,182      |
| AngataNanyukie             | 11.3                   | -     | 0.8      | 0.4             | 19.8  | 0.2    | 0.2 | 51.2     | 16.1  | 1,111      |
| Baawa                      | 5.1                    | -     | -        | 0.1             | 3.4   | 9.5    | -   | 78.5     | 3.4   | 1,140      |
| Samburu East Constituency  | 21.9                   | 1.5   | 0.1      | 1.0             | 8.1   | 14.7   | 4.1 | 33.4     | 15.3  | 6,102      |
| Waso                       | 27.1                   | 0.3   | 0.1      | 2.5             | 11.5  | 14.3   | 8.4 | 19.3     | 16.5  | 2,010      |
| Wamba West                 | 6.0                    | 1.6   | -        | 0.3             | 9.6   | 20.2   | 4.4 | 49.2     | 8.8   | 1,131      |
| Wamba East                 | 37.2                   | 0.3   | 0.2      | 0.2             | 3.1   | 14.1   | 1.3 | 22.7     | 20.9  | 1,876      |
| Wamba North                | 2.2                    | 5.4   | -        | -               | 8.6   | 10.8   | 0.6 | 61.9     | 10.4  | 1,085      |

Table 37.19: 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 | tHouseholds |
|---------------------------|------------------------|-------|----------|-----------------|-------|--------|-----|----------|-------|-------------|
| 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     |



|                            |      |     |     |     |      |      |      |      |      |        |
|----------------------------|------|-----|-----|-----|------|------|------|------|------|--------|
| Samburu County             | 18.2 | 0.7 | 0.0 | 0.6 | 10.2 | 12.4 | 2.9  | 44.8 | 10.1 | 21,576 |
| Samburu West Constituency  | 31.3 | 0.4 | 0.0 | 1.0 | 8.6  | 5.3  | 0.4  | 49.0 | 3.9  | 8,118  |
| Lodokejek                  | 13.4 | 0.3 | 0.1 | 1.2 | 0.6  | 1.4  | 0.1  | 83.0 | -    | 1,729  |
| SugutaMarmar               | 18.5 | 0.1 | -   | 0.3 | 6.4  | -    | 0.4  | 72.9 | 1.4  | 1,270  |
| Maralal                    | 53.6 | 0.6 | -   | 1.6 | 7.4  | 5.6  | 0.8  | 27.4 | 2.9  | 3,188  |
| Loosuk                     | 20.3 | -   | -   | 0.1 | 15.3 | 12.8 | -    | 36.7 | 14.7 | 945    |
| Porro                      | 17.7 | 0.8 | 0.1 | 0.9 | 22.9 | 10.5 | -    | 40.2 | 6.8  | 986    |
| Samburu North Constituency | 8.1  | 0.2 | 0.0 | 0.2 | 15.6 | 16.2 | 3.3  | 41.8 | 14.6 | 6,976  |
| El Barta                   | 22.9 | 0.1 | 0.1 | 0.4 | 5.9  | 18.8 | 5.4  | 38.9 | 7.7  | 1,395  |
| Nachola                    | 6.8  | 0.1 | -   | -   | 59.1 | 0.6  | 11.3 | 9.8  | 12.2 | 673    |
| Ndoto                      | 2.3  | 0.1 | -   | -   | 8.2  | 31.1 | 0.1  | 32.8 | 25.4 | 1,495  |
| Nyiro                      | 6.2  | 0.3 | -   | 0.6 | 18.3 | 21.0 | 6.7  | 11.9 | 35.0 | 1,172  |
| AngataNanyukie             | 5.9  | 0.1 | -   | -   | 26.1 | 0.1  | -    | 66.7 | 1.1  | 817    |
| Baawa                      | 3.2  | 0.4 | -   | 0.1 | 4.3  | 10.5 | -    | 79.4 | 2.0  | 1,424  |
| Samburu East Constituency  | 12.8 | 1.7 | 0.0 | 0.6 | 6.2  | 17.3 | 5.6  | 42.9 | 12.9 | 6,482  |
| Waso                       | 18.6 | 0.4 | -   | 2.3 | 7.4  | 13.0 | 14.2 | 28.7 | 15.4 | 1,556  |
| Wamba West                 | 1.5  | 2.0 | -   | 0.1 | 5.4  | 21.3 | 3.9  | 53.8 | 11.9 | 1,827  |
| Wamba East                 | 28.4 | 0.3 | 0.2 | 0.2 | 5.8  | 18.3 | 2.2  | 28.7 | 16.0 | 1,736  |
| Wamba North                | 1.2  | 4.5 | -   | -   | 6.6  | 15.5 | 2.2  | 62.4 | 7.6  | 1,363  |

Table 37.20: Main material of the wall by County, Constituency and Wards

| County/Constituency/Wards  | Stone | Brick/Block | Mud/Wood | Mud/Cement | Wood only | Corrugated Iron Sheets | Grass/Reeds | Tin | Other | Households |
|----------------------------|-------|-------------|----------|------------|-----------|------------------------|-------------|-----|-------|------------|
| Kenya                      | 16.7  | 16.9        | 36.5     | 7.7        | 11.1      | 6.7                    | 3.0         | 0.3 | 1.2   | 8,493,380  |
| Rural                      | 5.7   | 13.8        | 50.0     | 7.6        | 14.4      | 2.5                    | 4.4         | 0.3 | 1.4   | 5,239,879  |
| Urban                      | 34.5  | 21.9        | 14.8     | 7.8        | 5.8       | 13.3                   | 0.8         | 0.3 | 0.9   | 3,253,501  |
| Samburu County             | 3.4   | 2.7         | 59.5     | 12.7       | 7.5       | 0.6                    | 5.2         | 2.6 | 5.9   | 45,363     |
| Samburu West Constituency  | 2.7   | 2.9         | 69.3     | 20.5       | 1.9       | 0.3                    | 0.3         | 0.1 | 2.0   | 16,955     |
| Lodokejek                  | 0.6   | 1.5         | 80.2     | 15.8       | 1.3       | 0.1                    | 0.0         | 0.1 | 0.5   | 2,838      |
| SugutaMarmar               | 1.7   | 1.3         | 76.4     | 14.6       | 3.1       | 0.3                    | 1.0         | 0.3 | 1.2   | 2,297      |
| Maralal                    | 5.1   | 4.9         | 55.4     | 28.6       | 2.2       | 0.6                    | 0.2         | 0.1 | 2.9   | 7,751      |
| Loosuk                     | 0.0   | 1.0         | 81.8     | 13.4       | 1.4       | 0.0                    | 0.3         | 0.0 | 2.0   | 2,006      |
| Porro                      | 0.4   | 0.6         | 86.3     | 10.0       | 0.7       | 0.1                    | 0.1         | 0.0 | 1.7   | 2,063      |
| Samburu North Constituency | 2.9   | 1.3         | 55.2     | 7.5        | 11.7      | 0.5                    | 9.7         | 1.8 | 9.5   | 15,824     |
| El Barta                   | 2.0   | 3.6         | 54.8     | 19.6       | 7.5       | 0.2                    | 6.3         | 1.2 | 4.8   | 2,862      |
| Nachola                    | 8.7   | 0.9         | 52.5     | 3.1        | 20.5      | 2.6                    | 10.3        | 0.3 | 1.2   | 1,970      |
| Ndoto                      | 1.4   | 0.6         | 48.5     | 3.7        | 15.6      | 0.3                    | 15.7        | 3.7 | 10.5  | 3,146      |

|                           |      |     |      |      |      |     |      |      |      |        |
|---------------------------|------|-----|------|------|------|-----|------|------|------|--------|
| Nyiro                     | 4.8  | 0.9 | 31.0 | 2.1  | 16.0 | 0.1 | 12.4 | 3.2  | 29.5 | 3,354  |
| AngataNanyukie            | 1.0  | 1.3 | 81.1 | 5.4  | 2.9  | 0.1 | 7.4  | 0.3  | 0.5  | 1,928  |
| Baawa                     | 0.1  | 0.2 | 77.7 | 10.9 | 6.0  | 0.2 | 3.9  | 0.5  | 0.6  | 2,564  |
| Samburu East Constituency | 5.0  | 4.3 | 51.7 | 8.8  | 9.9  | 1.0 | 6.0  | 6.9  | 6.5  | 12,584 |
| Waso                      | 10.8 | 8.6 | 33.4 | 4.3  | 7.0  | 1.1 | 12.8 | 14.5 | 7.6  | 3,566  |
| Wamba West                | 0.6  | 0.8 | 66.2 | 6.3  | 7.7  | 1.2 | 4.2  | 7.3  | 5.8  | 2,958  |
| Wamba East                | 6.1  | 5.8 | 44.9 | 17.9 | 13.5 | 1.1 | 1.7  | 2.7  | 6.3  | 3,612  |
| Wamba North               | 0.2  | 0.2 | 70.8 | 5.0  | 11.4 | 0.3 | 4.5  | 1.6  | 5.9  | 2,448  |

Table 37.21: 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  |
| Samburu County              | 4.5   | 3.6          | 54.4      | 13.5        | 8.5       | 0.8                    | 5.8          | 2.0  | 7.0   | 23,787     |
| Samburu West Constituency   | 3.7   | 3.8          | 64.6      | 22.7        | 1.9       | 0.5                    | 0.4          | 0.1  | 2.4   | 8,837      |
| Lodokejek                   | 1.1   | 2.2          | 76.8      | 17.8        | 1.2       | 0.2                    | -            | 0.2  | 0.6   | 1,109      |
| SugutaMarmar                | 1.9   | 1.8          | 71.2      | 17.5        | 2.9       | 0.6                    | 2.0          | 0.4  | 1.8   | 1,027      |
| Maralal                     | 6.3   | 6.0          | 51.8      | 30.0        | 2.2       | 0.7                    | 0.2          | 0.0  | 2.8   | 4,563      |
| Loosuk                      | 0.1   | 1.3          | 79.5      | 14.0        | 1.4       | -                      | 0.2          | 0.1  | 3.3   | 1,061      |
| Porro                       | 0.4   | 0.6          | 85.7      | 10.3        | 0.7       | 0.1                    | 0.1          | -    | 2.0   | 1,077      |
| Samburu North Constituency  | 4.2   | 1.5          | 49.2      | 7.5         | 13.6      | 0.8                    | 10.6         | 1.4  | 11.3  | 8,848      |
| El Barta                    | 2.5   | 4.3          | 47.2      | 20.7        | 8.7       | 0.3                    | 7.8          | 1.1  | 7.4   | 1,467      |
| Nachola                     | 13.0  | 0.8          | 46.6      | 2.4         | 19.7      | 3.9                    | 12.6         | 0.3  | 0.8   | 1,297      |
| Ndoto                       | 1.7   | 1.0          | 45.9      | 3.9         | 20.0      | 0.3                    | 14.4         | 3.1  | 9.8   | 1,651      |
| Nyiro                       | 5.3   | 1.0          | 29.6      | 2.2         | 16.5      | 0.0                    | 10.9         | 2.1  | 32.4  | 2,182      |
| AngataNanyukie              | 1.6   | 1.9          | 72.0      | 6.8         | 4.2       | 0.2                    | 12.8         | 0.1  | 0.5   | 1,111      |
| Baawa                       | 0.3   | 0.3          | 74.8      | 12.5        | 7.3       | 0.4                    | 3.5          | 0.3  | 0.7   | 1,140      |
| Samburu East Constituency   | 6.1   | 6.2          | 47.0      | 8.8         | 10.8      | 1.2                    | 6.9          | 5.6  | 7.5   | 6,102      |
| Waso                        | 11.8  | 11.3         | 28.7      | 4.0         | 8.6       | 1.6                    | 14.8         | 10.6 | 8.5   | 2,010      |
| Wamba West                  | 1.3   | 1.7          | 65.3      | 5.4         | 8.8       | 1.1                    | 4.1          | 6.3  | 6.1   | 1,131      |
| Wamba East                  | 6.3   | 6.8          | 43.1      | 18.6        | 13.3      | 1.2                    | 1.4          | 2.1  | 7.1   | 1,876      |
| Wamba North                 | 0.1   | 0.4          | 68.5      | 4.5         | 12.8      | 0.5                    | 4.3          | 1.4  | 7.6   | 1,085      |

Table 37.22: Main Material of the Wall in Female Headed Households by County, Constituency and Ward

| County/ Constituency       | Stone | Brick/<br>Block | Mud/<br>Wood | Mud/<br>Cement | Wood<br>only | Corrugat-<br>ed Iron<br>Sheets | Grass/<br>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    |
| Samburu County             | 2.2   | 1.8             | 65.1         | 11.9           | 6.4          | 0.3                            | 4.4             | 3.2  | 4.6   | 21,576     |
| Samburu West Constituency  | 1.7   | 1.9             | 74.3         | 18.1           | 1.9          | 0.2                            | 0.2             | 0.1  | 1.6   | 8,118      |
| Lodokejek                  | 0.2   | 1.0             | 82.3         | 14.5           | 1.3          | 0.1                            | 0.1             | 0.1  | 0.4   | 1,729      |
| SugutaMarmar               | 1.7   | 0.9             | 80.6         | 12.3           | 3.3          | -                              | 0.2             | 0.2  | 0.8   | 1,270      |
| Maralal                    | 3.3   | 3.4             | 60.7         | 26.7           | 2.1          | 0.4                            | 0.3             | 0.1  | 2.9   | 3,188      |
| Loosuk                     | -     | 0.6             | 84.3         | 12.6           | 1.5          | -                              | 0.4             | -    | 0.5   | 945        |
| Porro                      | 0.5   | 0.6             | 87.0         | 9.6            | 0.6          | 0.1                            | 0.1             | -    | 1.4   | 986        |
| Samburu North Constituency | 1.2   | 0.9             | 62.7         | 7.6            | 9.4          | 0.1                            | 8.6             | 2.3  | 7.2   | 6,976      |
| El Barta                   | 1.5   | 2.9             | 62.9         | 18.4           | 6.2          | 0.1                            | 4.7             | 1.3  | 1.9   | 1,395      |
| Nachola                    | 0.4   | 1.0             | 63.9         | 4.6            | 22.0         | 0.1                            | 5.8             | 0.3  | 1.8   | 673        |
| Ndoto                      | 1.1   | 0.1             | 51.5         | 3.5            | 10.8         | 0.2                            | 17.2            | 4.3  | 11.2  | 1,495      |
| Nyiro                      | 3.8   | 0.7             | 33.7         | 2.0            | 15.1         | 0.1                            | 15.2            | 5.3  | 24.1  | 1,172      |
| AngataNanyukie             | 0.1   | 0.6             | 93.5         | 3.5            | 1.1          | -                              | 0.1             | 0.5  | 0.5   | 817        |
| Baawa                      | -     | 0.1             | 79.9         | 9.6            | 4.9          | -                              | 4.3             | 0.6  | 0.6   | 1,424      |
| Samburu East Constituency  | 4.0   | 2.5             | 56.1         | 8.8            | 9.0          | 0.8                            | 5.2             | 8.2  | 5.5   | 6,482      |
| Waso                       | 9.5   | 4.9             | 39.5         | 4.6            | 4.8          | 0.6                            | 10.2            | 19.5 | 6.4   | 1,556      |
| Wamba West                 | 0.1   | 0.3             | 66.7         | 6.8            | 7.1          | 1.2                            | 4.2             | 8.0  | 5.6   | 1,827      |
| Wamba East                 | 5.9   | 4.6             | 46.8         | 17.2           | 13.7         | 1.1                            | 2.0             | 3.3  | 5.4   | 1,736      |
| Wamba North                | 0.4   | 0.1             | 72.7         | 5.4            | 10.3         | 0.1                            | 4.6             | 1.7  | 4.6   | 1,363      |

Table 37.23: Source of Water by County, Constituency and Ward

| County/Constituency/<br>Wards | Pond | Dam  | Lake | Stream/<br>River | Unprotect-<br>ed Spring | Unprotect-<br>ed Well | Jabia | Water<br>vendor | Other | Unim-<br>proved<br>Sources | Protected<br>Spring | Protected<br>Well | Borehole | Piped<br>into<br>Dwelling | Piped | Rain<br>Water<br>Collection | Im-<br>proved<br>Sources | Number of<br>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               |
| Samburu County                | 1.4  | 4.6  | 0.9  | 25.0             | 2.1                     | 30.8                  | 0.1   | 1.3             | 0.1   | 66.2                       | 1.0                 | 4.0               | 15.7     | 0.9                       | 11.9  | 0.2                         | 33.8                     | 221,285                  |
| Samburu West<br>Constituency  | 2.4  | 8.7  | 0.1  | 25.8             | 2.7                     | 11.8                  | 0.0   | 2.6             | 0.1   | 54.2                       | 1.2                 | 3.0               | 19.5     | 1.6                       | 20.1  | 0.3                         | 45.8                     | 82,112                   |
| Lodokejek                     | 0.8  | 6.7  | 0.0  | 23.8             | 4.3                     | 19.2                  | 0.0   | 1.3             | 0.0   | 56.2                       | 4.9                 | 1.4               | 31.7     | 0.3                       | 5.4   | 0.1                         | 43.8                     | 13,961                   |
| SugutaMamar                   | 2.5  | 12.8 | 0.1  | 13.7             | 9.0                     | 24.4                  | 0.1   | 0.2             | 0.0   | 62.8                       | 0.6                 | 10.4              | 15.7     | 0.5                       | 10.0  | 0.0                         | 37.2                     | 11,662                   |
| Maralal                       | 1.6  | 6.3  | 0.1  | 8.0              | 0.6                     | 6.1                   | 0.0   | 5.3             | 0.3   | 28.2                       | 0.5                 | 1.3               | 25.3     | 3.3                       | 40.8  | 0.5                         | 71.8                     | 35,701                   |
| Loosuk                        | 2.6  | 15.5 | 0.7  | 62.4             | 1.1                     | 9.4                   | 0.0   | 0.1             | 0.0   | 91.7                       | 0.5                 | 5.5               | 1.5      | 0.0                       | 0.3   | 0.4                         | 8.3                      | 10,220                   |
| Porro                         | 6.8  | 8.0  | 0.1  | 67.0             | 2.1                     | 9.6                   | 0.0   | 0.1             | 0.0   | 93.6                       | 0.2                 | 0.4               | 5.4      | 0.0                       | 0.0   | 0.3                         | 6.4                      | 10,568                   |
| Samburu North<br>Constituency | 0.8  | 2.7  | 2.3  | 19.1             | 1.9                     | 46.2                  | 0.0   | 0.7             | 0.0   | 73.8                       | 0.6                 | 5.4               | 13.0     | 0.5                       | 6.6   | 0.1                         | 26.2                     | 81,051                   |
| ElBarta                       | 0.5  | 12.5 | 0.1  | 24.7             | 2.1                     | 37.5                  | 0.0   | 1.0             | 0.0   | 78.6                       | 0.5                 | 16.9              | 3.9      | 0.0                       | 0.0   | 0.1                         | 21.4                     | 13,554                   |
| Nachola                       | 0.0  | 0.1  | 0.0  | 12.3             | 0.1                     | 61.6                  | 0.0   | 2.9             | 0.0   | 77.1                       | 0.0                 | 4.3               | 18.5     | 0.1                       | 0.0   | 0.0                         | 22.9                     | 11,612                   |
| Ndoto                         | 0.2  | 0.0  | 0.0  | 6.0              | 0.4                     | 60.3                  | 0.0   | 0.0             | 0.0   | 67.0                       | 0.9                 | 4.1               | 22.4     | 0.1                       | 5.3   | 0.1                         | 33.0                     | 14,901                   |
| Nyiro                         | 0.5  | 0.1  | 9.5  | 20.6             | 1.5                     | 34.3                  | 0.1   | 0.3             | 0.0   | 66.8                       | 0.4                 | 2.3               | 8.1      | 0.6                       | 21.7  | 0.0                         | 33.2                     | 19,544                   |
| AngataNanyukie                | 4.4  | 2.5  | 0.0  | 20.0             | 5.9                     | 37.2                  | 0.0   | 0.1             | 0.0   | 70.1                       | 1.3                 | 4.0               | 21.4     | 0.0                       | 3.2   | 0.0                         | 29.9                     | 9,704                    |
| Baawa                         | 0.0  | 2.1  | 0.0  | 32.8             | 3.0                     | 50.0                  | 0.0   | 0.5             | 0.0   | 88.5                       | 0.2                 | 1.3               | 7.5      | 2.4                       | 0.1   | 0.0                         | 11.5                     | 11,736                   |
| Samburu East<br>Constituency  | 0.8  | 1.4  | 0.0  | 32.2             | 1.5                     | 36.4                  | 0.2   | 0.2             | 0.1   | 72.6                       | 1.3                 | 3.6               | 14.1     | 0.4                       | 7.6   | 0.3                         | 27.4                     | 58,122                   |

|             |     |     |     |      |     |      |     |     |     |     |      |     |     |      |     |      |     |      |        |
|-------------|-----|-----|-----|------|-----|------|-----|-----|-----|-----|------|-----|-----|------|-----|------|-----|------|--------|
| Waso        | 0.0 | 0.1 | 0.0 | 38.2 | 2.9 | 32.5 | 0.0 | 0.0 | 0.5 | 0.0 | 74.3 | 3.9 | 6.5 | 12.0 | 0.0 | 3.3  | 0.0 | 25.7 | 17,311 |
| Wamba West  | 0.2 | 2.7 | 0.0 | 37.1 | 0.8 | 48.1 | 0.0 | 0.1 | 0.0 | 0.0 | 89.1 | 0.2 | 3.2 | 5.9  | 0.1 | 0.1  | 1.4 | 10.9 | 13,648 |
| Wamba East  | 0.9 | 0.0 | 0.0 | 18.3 | 0.9 | 23.3 | 0.7 | 0.3 | 0.2 | 0.2 | 44.4 | 0.1 | 0.4 | 29.3 | 1.5 | 24.4 | 0.0 | 55.6 | 15,722 |
| Wamba North | 2.4 | 3.6 | 0.0 | 36.2 | 0.9 | 46.2 | 0.0 | 0.0 | 0.0 | 0.0 | 89.4 | 0.2 | 4.1 | 6.4  | 0.0 | 0.0  | 0.0 | 10.6 | 11,441 |

Table 37.24: Source of Water of Male headed Household by County Constituency and Ward

| County/Constituency/<br>Wards | Pond | Dam  | Lake | Stream/<br>River | Unpro-<br>tected<br>Spring | Unpro-<br>tected<br>Well | Jabia | Water<br>vendor | Other | Unim-<br>proved<br>Sources | Pro-<br>tected<br>Spring | Protect-<br>ed Well | Borehole | Piped<br>into<br>Dwelling | Piped | Rain<br>Water<br>Collection | Improved<br>Sources | Number of<br>Individuals |
|-------------------------------|------|------|------|------------------|----------------------------|--------------------------|-------|-----------------|-------|----------------------------|--------------------------|---------------------|----------|---------------------------|-------|-----------------------------|---------------------|--------------------------|
| Kenya                         | 2.7  | 2.3  | 1.1  | 22.4             | 4.8                        | 6.7                      | 0.4   | 5.6             | 0.4   | 46.4                       | 7.4                      | 7.7                 | 11.7     | 6.2                       | 19.9  | 0.7                         | 53.6                | 26,755,066               |
| Rural                         | 3.7  | 3.1  | 1.4  | 29.1             | 6.3                        | 8.6                      | 0.4   | 2.4             | 0.5   | 55.6                       | 9.2                      | 8.2                 | 12.1     | 1.9                       | 12.2  | 0.8                         | 44.4                | 18,016,471               |
| Urban                         | 0.8  | 0.6  | 0.5  | 8.5              | 1.8                        | 2.8                      | 0.2   | 12.1            | 0.1   | 27.5                       | 3.8                      | 6.7                 | 10.8     | 14.9                      | 35.8  | 0.5                         | 72.5                | 8,738,595                |
| Samburu County                | 1.4  | 4.2  | 1.4  | 23.7             | 2.0                        | 30.9                     | 0.1   | 1.5             | 0.1   | 65.3                       | 1.1                      | 3.7                 | 15.6     | 1.0                       | 13.0  | 0.2                         | 34.7                | 124,552                  |
| Samburu West<br>Constituency  | 2.6  | 8.7  | 0.1  | 24.9             | 2.2                        | 10.7                     | 0.0   | 2.8             | 0.1   | 52.0                       | 1.4                      | 2.7                 | 18.4     | 1.9                       | 23.2  | 0.4                         | 48.0                | 45,017                   |
| Lodokejek                     | 0.6  | 7.4  | 0.0  | 20.5             | 4.3                        | 19.8                     | -     | 1.6             | -     | 54.2                       | 6.3                      | 1.4                 | 31.7     | 0.6                       | 5.5   | 0.3                         | 45.8                | 6,276                    |
| SugutaMamar                   | 3.1  | 15.9 | 0.1  | 12.6             | 7.4                        | 20.6                     | 0.2   | 0.3             | -     | 60.2                       | 0.9                      | 10.6                | 17.7     | 0.4                       | 10.3  | -                           | 39.8                | 5,646                    |
| Maralal                       | 1.4  | 5.4  | 0.1  | 7.5              | 0.7                        | 6.5                      | 0.0   | 5.2             | 0.3   | 26.9                       | 0.6                      | 1.2                 | 23.0     | 3.7                       | 44.2  | 0.5                         | 73.1                | 21,473                   |
| Loosuk                        | 2.7  | 14.2 | 0.5  | 65.3             | 1.1                        | 8.1                      | -     | 0.1             | -     | 92.1                       | 0.7                      | 4.4                 | 1.7      | 0.0                       | 0.5   | 0.6                         | 7.9                 | 5,645                    |
| Porro                         | 8.3  | 9.6  | 0.1  | 65.4             | 1.8                        | 9.2                      | -     | 0.2             | -     | 94.5                       | 0.3                      | 0.2                 | 4.6      | -                         | -     | 0.3                         | 5.5                 | 5,977                    |
| Samburu North<br>Constituency | 0.8  | 2.2  | 3.3  | 18.4             | 1.9                        | 46.7                     | 0.0   | 1.1             | -     | 74.5                       | 0.6                      | 5.0                 | 13.0     | 0.4                       | 6.4   | 0.1                         | 25.5                | 48,964                   |
| El Barta                      | 0.4  | 11.4 | 0.1  | 24.0             | 1.9                        | 37.6                     | 0.0   | 1.7             | -     | 77.2                       | 0.5                      | 17.2                | 5.0      | -                         | -     | 0.2                         | 22.8                | 7,413                    |
| Nachola                       | -    | 0.1  | -    | 14.8             | 0.2                        | 58.8                     | -     | 4.3             | -     | 78.1                       | -                        | 3.1                 | 18.7     | 0.1                       | -     | -                           | 21.9                | 7,779                    |

|                           |     |     |      |      |     |      |     |     |     |     |     |      |     |     |      |     |      |     |      |        |
|---------------------------|-----|-----|------|------|-----|------|-----|-----|-----|-----|-----|------|-----|-----|------|-----|------|-----|------|--------|
| Ndoto                     | 0.2 | -   | -    | 5.0  | 0.5 | 60.3 | -   | -   | -   | -   | -   | 66.0 | 1.3 | 3.3 | 23.0 | 0.1 | 6.1  | 0.2 | 34.0 | 8,619  |
| Nyiro                     | 0.6 | 0.1 | 12.1 | 18.1 | 1.8 | 37.9 | 0.1 | 0.1 | -   | -   | -   | 70.9 | 0.4 | 2.5 | 7.9  | 0.5 | 17.9 | 0.0 | 29.1 | 13,378 |
| Angata/Nanyukie           | 4.8 | 1.7 | -    | 24.1 | 5.6 | 36.9 | -   | 0.0 | -   | -   | -   | 73.1 | 1.4 | 3.6 | 18.1 | 0.0 | 3.7  | 0.0 | 26.9 | 6,015  |
| Baawa                     | -   | 1.9 | -    | 30.9 | 3.1 | 52.4 | -   | 1.0 | -   | -   | -   | 89.2 | -   | 1.3 | 7.2  | 2.2 | -    | 0.1 | 10.8 | 5,760  |
| Samburu East Constituency | 0.8 | 0.9 | -    | 30.5 | 1.9 | 35.3 | 0.2 | 0.3 | 0.1 | 0.1 | 0.1 | 70.1 | 1.7 | 3.4 | 15.7 | 0.5 | 8.5  | 0.3 | 29.9 | 30,571 |
| Waso                      | -   | 0.1 | -    | 37.0 | 3.8 | 32.5 | -   | 0.7 | 0.0 | 0.0 | 0.0 | 74.1 | 4.4 | 4.5 | 13.1 | -   | 3.8  | -   | 25.9 | 10,264 |
| Wamba West                | 0.5 | 2.4 | -    | 35.4 | 0.9 | 46.5 | 0.1 | -   | -   | -   | -   | 85.8 | 0.3 | 3.6 | 8.5  | 0.2 | 0.3  | 1.3 | 14.2 | 5,940  |
| Wamba East                | 0.8 | 0.1 | -    | 16.4 | 1.1 | 24.1 | 0.8 | 0.2 | 0.2 | 0.2 | 0.2 | 43.7 | 0.2 | 0.5 | 28.8 | 1.5 | 25.3 | 0.0 | 56.3 | 8,638  |
| Wamba North               | 2.4 | 2.3 | -    | 35.2 | 0.8 | 45.7 | -   | -   | -   | -   | -   | 86.4 | 0.4 | 5.4 | 7.9  | -   | -    | -   | 13.6 | 5,729  |

Table 37.25: Source of Water of Female headed Household by County Constituency and Ward

| County/Constituency/<br>Wards | Pond | Dam  | Lake | Stream/<br>River | Unpro-<br>tected<br>Spring | Unpro-<br>tected<br>Well | Jabia | Water<br>vendor | Other | Unim-<br>proved<br>Sources | Protected<br>Spring | Protected<br>Well | Borehole | Piped<br>into<br>Dwelling | Piped | Rain<br>Water<br>Collection | Im-<br>proved<br>Sources | Number of<br>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                |
| Samburu County                | 1.3  | 5.0  | 0.3  | 26.8             | 2.2                        | 30.8                     | 0.0   | 1.0             | 0.1   | 67.4                       | 0.8                 | 4.4               | 15.9     | 0.8                       | 10.5  | 0.2                         | 32.6                     | 96,733                   |
| Samburu West<br>Constituency  | 2.1  | 8.7  | 0.1  | 27.0             | 3.3                        | 13.2                     | 0.0   | 2.3             | 0.1   | 56.8                       | 1.1                 | 3.4               | 20.8     | 1.2                       | 16.4  | 0.3                         | 43.2                     | 37,095                   |
| Lodokejek                     | 1.0  | 6.1  | 0.0  | 26.5             | 4.4                        | 18.7                     | -     | 1.1             | -     | 57.8                       | 3.8                 | 1.3               | 31.6     | 0.1                       | 5.3   | 0.0                         | 42.2                     | 7,685                    |
| Suguta/Marmar                 | 1.9  | 10.0 | -    | 14.7             | 10.6                       | 27.9                     | -     | 0.1             | 0.1   | 65.3                       | 0.4                 | 10.2              | 13.9     | 0.5                       | 9.8   | -                           | 34.7                     | 6,016                    |
| Maralal                       | 1.9  | 7.7  | 0.0  | 8.7              | 0.5                        | 5.7                      | 0.0   | 5.4             | 0.2   | 30.2                       | 0.4                 | 1.5               | 28.8     | 2.9                       | 35.7  | 0.5                         | 69.8                     | 14,228                   |

|                               |     |      |     |      |     |      |     |     |     |      |     |      |      |     |      |     |      |        |
|-------------------------------|-----|------|-----|------|-----|------|-----|-----|-----|------|-----|------|------|-----|------|-----|------|--------|
| Loosuk                        | 2.3 | 17.0 | 0.9 | 58.8 | 1.1 | 11.0 | -   | -   | -   | 91.2 | 0.2 | 6.9  | 1.3  | -   | 0.2  | 0.2 | 8.8  | 4,575  |
| Porro                         | 4.8 | 6.0  | 0.1 | 69.1 | 2.3 | 10.2 | -   | -   | -   | 92.5 | 0.1 | 0.6  | 6.5  | -   | -    | 0.3 | 7.5  | 4,591  |
| Samburu North<br>Constituency | 0.7 | 3.5  | 0.7 | 20.2 | 2.0 | 45.3 | 0.0 | 0.2 | -   | 72.7 | 0.5 | 6.1  | 13.1 | 0.7 | 6.9  | -   | 27.3 | 32,087 |
| ElBarta                       | 0.7 | 13.8 | 0.1 | 25.7 | 2.2 | 37.3 | 0.1 | 0.3 | -   | 80.2 | 0.6 | 16.5 | 2.7  | -   | -    | -   | 19.8 | 6,141  |
| Nachola                       | -   | -    | -   | 7.4  | -   | 67.4 | -   | 0.3 | -   | 75.1 | -   | 6.7  | 18.3 | -   | -    | -   | 24.9 | 3,833  |
| Ndoto                         | 0.2 | -    | -   | 7.4  | 0.4 | 60.4 | -   | -   | -   | 68.4 | 0.5 | 5.2  | 21.6 | 0.2 | 4.2  | -   | 31.6 | 6,282  |
| Nyiro                         | 0.4 | -    | 3.7 | 25.9 | 0.9 | 26.5 | -   | 0.5 | -   | 58.0 | 0.6 | 2.0  | 8.6  | 0.8 | 29.9 | -   | 42.0 | 6,166  |
| AngataNanyukie                | 3.8 | 3.7  | -   | 13.3 | 6.4 | 37.7 | -   | 0.1 | -   | 65.1 | 1.1 | 4.7  | 26.7 | -   | 2.3  | -   | 34.9 | 3,689  |
| Baawa                         | -   | 2.3  | -   | 34.7 | 3.0 | 47.7 | -   | -   | -   | 87.7 | 0.4 | 1.4  | 7.8  | 2.6 | 0.1  | -   | 12.3 | 5,976  |
| Samburu East<br>Constituency  | 0.7 | 1.9  | 0.0 | 34.0 | 0.9 | 37.5 | 0.1 | 0.2 | 0.0 | 75.4 | 0.9 | 3.8  | 12.4 | 0.4 | 6.6  | 0.4 | 24.6 | 27,551 |
| Waso                          | -   | 0.1  | -   | 40.0 | 1.5 | 32.6 | -   | 0.3 | -   | 74.5 | 3.2 | 9.3  | 10.5 | 0.0 | 2.6  | -   | 25.5 | 7,047  |
| Wamba West                    | 0.0 | 3.0  | 0.1 | 38.5 | 0.7 | 49.3 | -   | 0.1 | -   | 91.7 | 0.2 | 2.8  | 3.9  | -   | -    | 1.5 | 8.3  | 7,708  |
| Wamba East                    | 0.9 | -    | -   | 20.5 | 0.6 | 22.2 | 0.5 | 0.3 | 0.2 | 45.1 | 0.1 | 0.3  | 29.8 | 1.4 | 23.2 | -   | 54.9 | 7,084  |
| Wamba North                   | 2.3 | 5.0  | -   | 37.3 | 1.1 | 46.7 | -   | -   | -   | 92.4 | 0.1 | 2.7  | 4.9  | -   | -    | -   | 7.6  | 5,712  |

Table 37.26: 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            |
| Samburu County             | 0.13       | 0.52        | 0.06      | 1.52        | 17.43       | 19.66               | 4.93                  | 0.04   | 75.30 | 0.06  | 80.34                 | 221,285               |
| Samburu West Constituency  | 0.12       | 0.96        | 0.16      | 2.57        | 28.65       | 32.45               | 4.23                  | 0.03   | 63.26 | 0.03  | 67.55                 | 82,112                |
| Lodokejek                  | 0.00       | 0.32        | 0.09      | 0.97        | 14.98       | 16.35               | 1.40                  | 0.01   | 82.22 | 0.02  | 83.65                 | 13,961                |
| SugutaMarmar               | 0.06       | 0.00        | 0.00      | 1.31        | 17.96       | 19.33               | 0.46                  | 0.00   | 80.21 | 0.00  | 80.67                 | 11,662                |
| Maralal                    | 0.26       | 2.06        | 0.33      | 4.53        | 44.81       | 51.98               | 7.19                  | 0.06   | 40.74 | 0.03  | 48.02                 | 35,701                |
| Loosuk                     | 0.00       | 0.00        | 0.00      | 0.36        | 18.05       | 18.41               | 4.12                  | 0.00   | 77.46 | 0.01  | 81.59                 | 10,220                |
| Porro                      | 0.00       | 0.05        | 0.00      | 1.56        | 14.20       | 15.81               | 2.20                  | 0.00   | 81.89 | 0.09  | 84.19                 | 10,568                |
| Samburu North Constituency | 0.00       | 0.03        | 0.00      | 0.14        | 10.72       | 10.89               | 8.12                  | 0.06   | 80.86 | 0.07  | 89.11                 | 81,051                |
| El Barta                   | 0.00       | 0.00        | 0.03      | 0.11        | 23.37       | 23.51               | 24.32                 | 0.11   | 51.94 | 0.12  | 76.49                 | 13,554                |
| Nachola                    | 0.00       | 0.00        | 0.00      | 0.07        | 14.17       | 14.24               | 11.96                 | 0.09   | 73.67 | 0.03  | 85.76                 | 11,612                |
| Ndoto                      | 0.00       | 0.00        | 0.00      | 0.07        | 9.68        | 9.76                | 5.99                  | 0.02   | 84.19 | 0.04  | 90.24                 | 14,901                |
| Nyiro                      | 0.00       | 0.08        | 0.00      | 0.23        | 6.85        | 7.15                | 4.50                  | 0.08   | 88.23 | 0.05  | 92.85                 | 19,544                |
| AngataNanyukie             | 0.00       | 0.06        | 0.00      | 0.09        | 8.02        | 8.17                | 0.73                  | 0.07   | 90.83 | 0.20  | 91.83                 | 9,704                 |
| Baawa                      | 0.00       | 0.00        | 0.00      | 0.20        | 2.70        | 2.91                | 0.43                  | 0.00   | 96.66 | 0.00  | 97.09                 | 11,736                |
| Samburu East Constituency  | 0.33       | 0.58        | 0.02      | 1.98        | 10.93       | 13.83               | 1.50                  | 0.01   | 84.55 | 0.11  | 86.17                 | 58,122                |
| Waso                       | 0.43       | 1.68        | 0.00      | 4.77        | 13.22       | 20.10               | 1.05                  | 0.01   | 78.58 | 0.26  | 79.90                 | 17,311                |
| Wamba West                 | 0.00       | 0.15        | 0.07      | 0.14        | 3.04        | 3.40                | 0.03                  | 0.00   | 96.51 | 0.06  | 96.60                 | 13,648                |
| Wamba East                 | 0.74       | 0.11        | 0.00      | 1.91        | 22.29       | 25.05               | 4.03                  | 0.01   | 70.87 | 0.04  | 74.95                 | 15,722                |
| Wamba North                | 0.00       | 0.06        | 0.00      | 0.06        | 1.27        | 1.39                | 0.45                  | 0.03   | 98.10 | 0.03  | 98.61                 | 11,441                |

Table 37.27: Human Waste Disposal in Male Headed household by County, Constituency and Ward

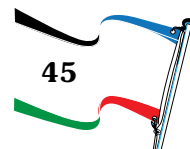
| County/ Constituency/ wards | Main Sewer | Septic Tank | Cess Pool | VIP Latrine | Pit Latrine | Improved Sanitation | Pit Latrine Uncovered | Bucket | Bush  | Other | Unimproved Sanitation | Number of HH Memmbers |
|-----------------------------|------------|-------------|-----------|-------------|-------------|---------------------|-----------------------|--------|-------|-------|-----------------------|-----------------------|
| 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             |
| Samburu County              | 0.15       | 0.71        | 0.08      | 1.63        | 18.80       | 21.37               | 4.60                  | 0.03   | 73.91 | 0.08  | 78.63                 | 124,552               |
| Samburu West Constituency   | 0.17       | 1.27        | 0.20      | 2.93        | 30.90       | 35.46               | 4.46                  | 0.00   | 60.05 | 0.03  | 64.54                 | 45,017                |
| Lodokejek                   | 0.00       | 0.61        | 0.06      | 1.18        | 16.05       | 17.89               | 1.34                  | 0.00   | 80.72 | 0.05  | 82.11                 | 6,276                 |
| SugutaMarmar                | 0.12       | 0.00        | 0.00      | 1.70        | 19.48       | 21.31               | 0.50                  | 0.00   | 78.20 | 0.00  | 78.69                 | 5,646                 |
| Maralal                     | 0.32       | 2.49        | 0.39      | 4.78        | 46.16       | 54.13               | 6.92                  | 0.00   | 38.94 | 0.00  | 45.87                 | 21,473                |
| Loosuk                      | 0.00       | 0.00        | 0.00      | 0.50        | 18.39       | 18.88               | 4.87                  | 0.00   | 76.23 | 0.02  | 81.12                 | 5,645                 |
| Porro                       | 0.00       | 0.00        | 0.00      | 1.54        | 14.29       | 15.83               | 2.28                  | 0.00   | 81.73 | 0.17  | 84.17                 | 5,977                 |
| Samburu North Constituency  | 0.00       | 0.02        | 0.01      | 0.11        | 11.49       | 11.63               | 6.64                  | 0.07   | 81.58 | 0.08  | 88.37                 | 48,964                |
| El Barta                    | 0.00       | 0.00        | 0.05      | 0.07        | 26.36       | 26.48               | 19.20                 | 0.00   | 54.27 | 0.05  | 73.52                 | 7,413                 |
| Nachola                     | 0.00       | 0.00        | 0.00      | 0.05        | 14.27       | 14.32               | 8.90                  | 0.14   | 76.60 | 0.04  | 85.68                 | 7,779                 |
| Ndoto                       | 0.00       | 0.00        | 0.00      | 0.06        | 10.92       | 10.98               | 5.51                  | 0.03   | 83.41 | 0.07  | 89.02                 | 8,619                 |
| Nyiro                       | 0.00       | 0.07        | 0.00      | 0.16        | 6.32        | 6.55                | 4.28                  | 0.10   | 89.00 | 0.07  | 93.45                 | 13,378                |
| AngataNanyukie              | 0.00       | 0.03        | 0.00      | 0.05        | 9.76        | 9.84                | 1.10                  | 0.07   | 88.69 | 0.30  | 90.16                 | 6,015                 |



|                           |      |      |      |      |       |       |      |      |       |      |       |        |
|---------------------------|------|------|------|------|-------|-------|------|------|-------|------|-------|--------|
| Baawa                     | 0.00 | 0.00 | 0.00 | 0.24 | 3.26  | 3.51  | 0.43 | 0.00 | 96.06 | 0.00 | 96.49 | 5,760  |
| Samburu East Constituency | 0.35 | 1.00 | 0.03 | 2.18 | 12.68 | 16.24 | 1.54 | 0.02 | 82.04 | 0.16 | 83.76 | 30,571 |
| Waso                      | 0.56 | 2.64 | 0.00 | 4.68 | 14.35 | 22.22 | 0.94 | 0.02 | 76.41 | 0.41 | 77.78 | 10,264 |
| Wamba West                | 0.00 | 0.30 | 0.17 | 0.12 | 4.71  | 5.30  | 0.03 | 0.00 | 94.53 | 0.13 | 94.70 | 5,940  |
| Wamba East                | 0.57 | 0.10 | 0.00 | 1.99 | 23.59 | 26.26 | 4.14 | 0.00 | 69.60 | 0.00 | 73.74 | 8,638  |
| Wamba North               | 0.00 | 0.12 | 0.00 | 0.12 | 1.50  | 1.75  | 0.28 | 0.07 | 97.91 | 0.00 | 98.25 | 5,729  |

Table 37.28: 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           |
| Samburu              | 0.1        | 0.3         | 0.0       | 1.4         | 15.7        | 17.5                | 5.4                   | 0.0    | 77.1 | 0.0   | 82.5                  | 96,733.0              |
| Samburu West         | 0.1        | 0.6         | 0.1       | 2.1         | 25.9        | 28.8                | 3.9                   | 0.1    | 67.2 | 0.0   | 71.2                  | 37,095.0              |
| Lodokejek            | 0.0        | 0.1         | 0.1       | 0.8         | 14.1        | 15.1                | 1.4                   | 0.0    | 83.4 | 0.0   | 84.9                  | 7,685.0               |
| SugutaMarmar         | 0.0        | 0.0         | 0.0       | 0.9         | 16.5        | 17.5                | 0.4                   | 0.0    | 82.1 | 0.0   | 82.5                  | 6,016.0               |
| Maralal              | 0.2        | 1.4         | 0.2       | 4.1         | 42.8        | 48.7                | 7.6                   | 0.1    | 43.5 | 0.1   | 51.3                  | 14,228.0              |
| Loosuk               | 0.0        | 0.0         | 0.0       | 0.2         | 17.6        | 17.8                | 3.2                   | 0.0    | 79.0 | 0.0   | 82.2                  | 4,575.0               |
| Porro                | 0.0        | 0.1         | 0.0       | 1.6         | 14.1        | 15.8                | 2.1                   | 0.0    | 82.1 | 0.0   | 84.2                  | 4,591.0               |
| Samburu North        | 0.0        | 0.0         | 0.0       | 0.2         | 9.6         | 9.8                 | 10.4                  | 0.1    | 79.8 | 0.0   | 90.2                  | 32,087.0              |
| El Barta             | 0.0        | 0.0         | 0.0       | 0.2         | 19.8        | 19.9                | 30.5                  | 0.2    | 49.1 | 0.2   | 80.1                  | 6,141.0               |
| Nachola              | 0.0        | 0.0         | 0.0       | 0.1         | 14.0        | 14.1                | 18.2                  | 0.0    | 67.7 | 0.0   | 85.9                  | 3,833.0               |
| Ndoto                | 0.0        | 0.0         | 0.0       | 0.1         | 8.0         | 8.1                 | 6.7                   | 0.0    | 85.3 | 0.0   | 91.9                  | 6,282.0               |
| Nyiro                | 0.0        | 0.1         | 0.0       | 0.4         | 8.0         | 8.4                 | 5.0                   | 0.0    | 86.5 | 0.0   | 91.6                  | 6,166.0               |
| AngataNanyukie       | 0.0        | 0.1         | 0.0       | 0.2         | 5.2         | 5.4                 | 0.1                   | 0.1    | 94.3 | 0.0   | 94.6                  | 3,689.0               |
| Baawa                | 0.0        | 0.0         | 0.0       | 0.2         | 2.2         | 2.3                 | 0.4                   | 0.0    | 97.2 | 0.0   | 97.7                  | 5,976.0               |
| Samburu East         | 0.3        | 0.1         | 0.0       | 1.8         | 9.0         | 11.2                | 1.4                   | 0.0    | 87.3 | 0.0   | 88.8                  | 27,551.0              |
| Waso                 | 0.2        | 0.3         | 0.0       | 4.9         | 11.6        | 17.0                | 1.2                   | 0.0    | 81.7 | 0.0   | 83.0                  | 7,047.0               |
| Wamba West           | 0.0        | 0.0         | 0.0       | 0.2         | 1.8         | 1.9                 | 0.0                   | 0.0    | 98.0 | 0.0   | 98.1                  | 7,708.0               |
| Wamba East           | 0.9        | 0.1         | 0.0       | 1.8         | 20.7        | 23.6                | 3.9                   | 0.0    | 72.4 | 0.1   | 76.4                  | 7,084.0               |
| Wamba North          | 0.0        | 0.0         | 0.0       | 0.0         | 1.0         | 1.0                 | 0.6                   | 0.0    | 98.3 | 0.1   | 99.0                  | 5,712.0               |





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