

Exploring Kenya's Inequality

Pulling Apart or Pooling Together?

Turkana County



Published by



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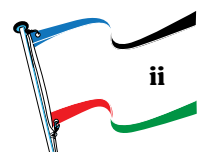


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Foreword

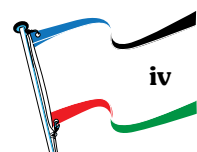
Kenya, like all African countries, focused on poverty alleviation at independence, perhaps due to the level of vulnerability of its populations but also as a result of the 'trickle down' economic discourses of the time, which assumed that poverty rather than distribution mattered – in other words, that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

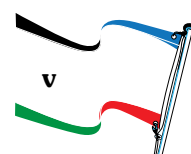


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Managing Director,
SID



Striking Features on Intra-County Inequality in Kenya

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

Income/expenditure inequalities

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

Access to Education

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



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

Access to Improved Sanitation

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

Access to Improved Sources of Water

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

Access to Improved Sources of Lighting

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

Access to Improved Housing

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

Overall ranking of the variables

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

Abbreviations

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

Introduction

Background

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

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

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

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

Methodology

Gini-coefficient of inequality

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



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

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

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 equivalent¹ per month for rural and urban households respectively. Nationally, 45.2 percent of the population lives below the poverty line (2009 estimates) down from 46 percent in 2005/06.

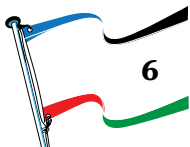
Spatial Dimensions

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

Employment

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

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



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

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

Education

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

Water

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

Sanitation

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

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

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

Housing Conditions (Roof, Wall and Floor)

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

Energy fuel for cooking and lighting

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

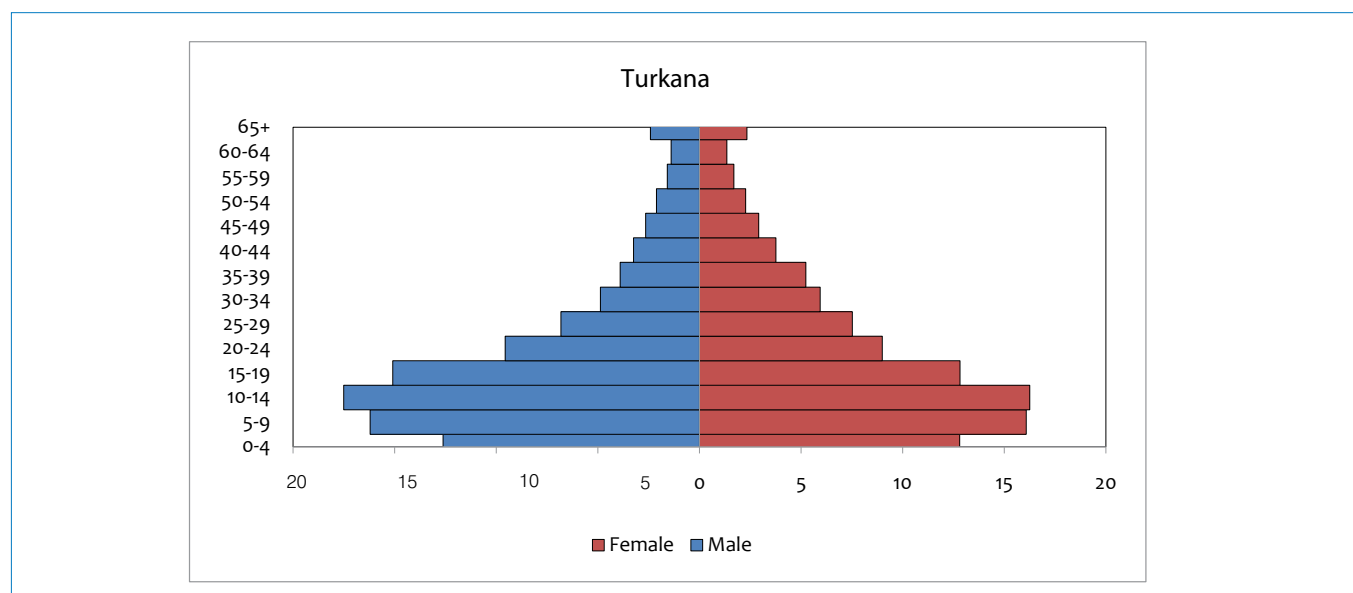


Turkana County



TURKANA COUNTY

Figure 43.1: Turkana Population Pyramid



Population

Turkana County has a child rich population, where 0-14 year olds constitute 46% of the total population. This is due to high fertility rates among women as shown by the highest percentage household size of more than 7 members at 59%. The lower proportion of 0-4 year olds is due to high infant and under five mortality rates

Employment

The 2009 population and housing census covered in brief the labour status as tabulated below. The main variable of interest for inequality discussed in the text is work for pay by level of education. The other variables, notably family business, family agricultural holdings, intern/volunteer, retired/homemaker, fulltime student, incapacitated and no work are tabulated and presented in the annex table 43.3 up to ward level.

Table 43: Overall Employment by Education Levels in Turkana County

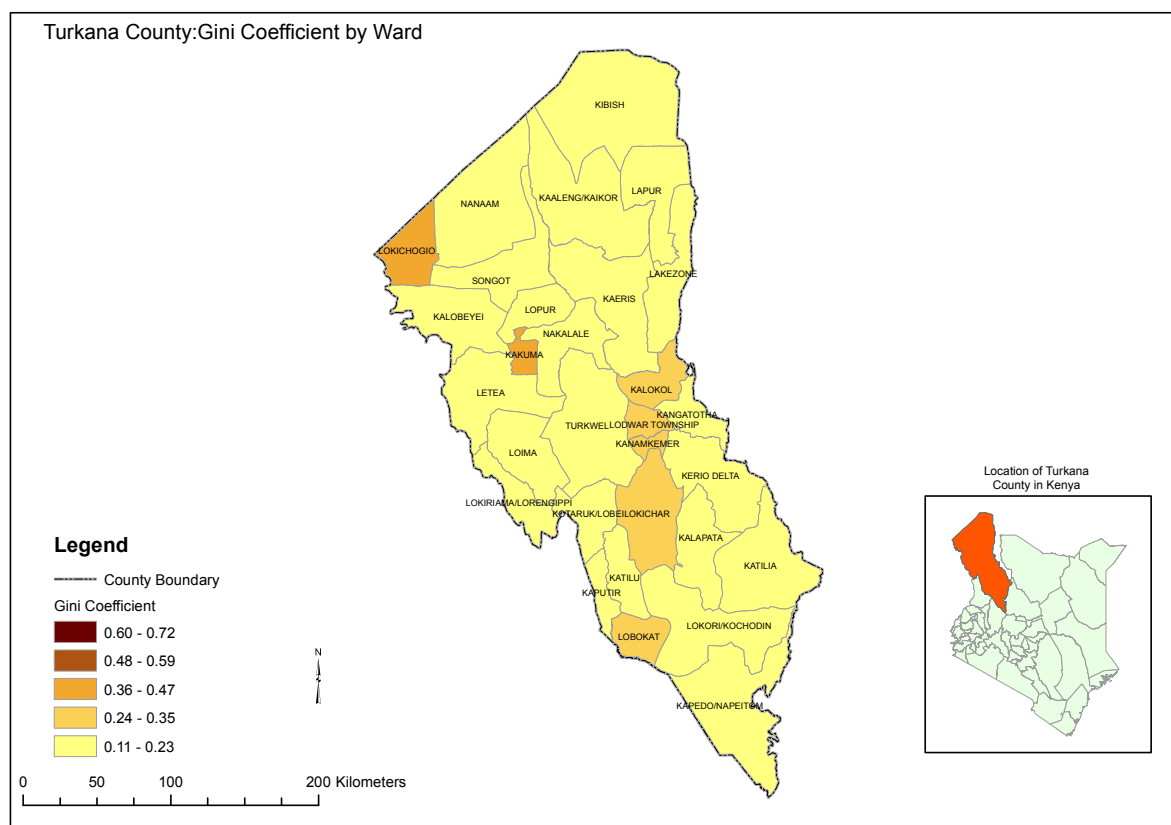
Education Level	Work for pay	Family Business	Family Agricultural Holding	Intern/Volunteer	Retired/ Home-maker	Fulltime Student	Incapacitated	No work	Number of Individuals
Total	5.6	16.9	50.1	1.5	6.5	4.0	0.5	14.9	422,657
None	3.4	17.5	55.4	1.5	6.6	0.1	0.5	15.1	353,488
Primary	9.8	15.2	27.3	1.7	7.7	23.3	0.6	14.4	44,792
Secondary+	28.8	11.7	15.0	2.3	4.0	24.6	0.2	13.4	24,377

In Turkana County, 3% of the residents with no formal education are working for pay, 10% of those with primary education and 29% of those with secondary level of education or above. Work for pay is highest in Nairobi at 49% and this is 20 percentage points above the level in Turkana for those with secondary or above level of education.

Gini Coefficient

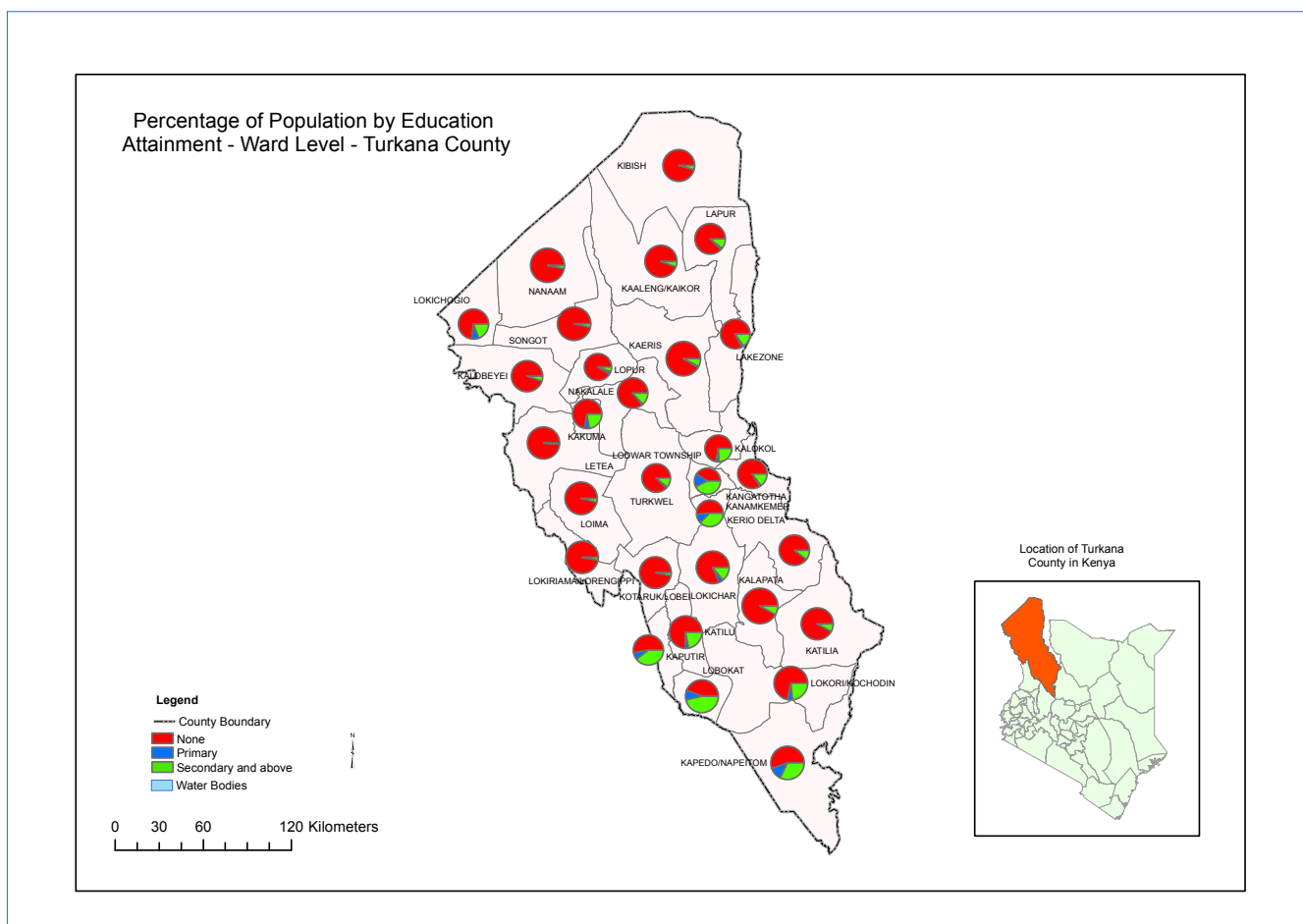
In this report, the Gini index measures the extent to which the distribution of consumption expenditure among individuals or households within an economy deviates from a perfectly equal distribution. A Gini index of '0' represents perfect equality, while an index of '1' implies perfect inequality. Turkana County's Gini index is 0.283. This is the most equitable county in the country.

Figure 43.2: Turkana County-Gini Coefficient by Ward



Education

Figure 43.3: Turkana County-Percentage of Population by Education Attainment by Ward



Only 3% of Turkana County residents have a secondary level of education or above. Turkana Central constituency has the highest share of residents with a secondary level of education or above at 7%. This is 6 percentage points above Loima constituency, which has the lowest share of residents with a secondary level of education or above. Turkana Central constituency is 4 percentage points above the county average. Lodwar Township ward has the highest share of residents with a secondary level of education or above at 16%. This is 15 percentage points above Letea ward, which has the lowest share of residents with a secondary level of education or above. Lodwar Township ward is 13 percentage points above the county average.

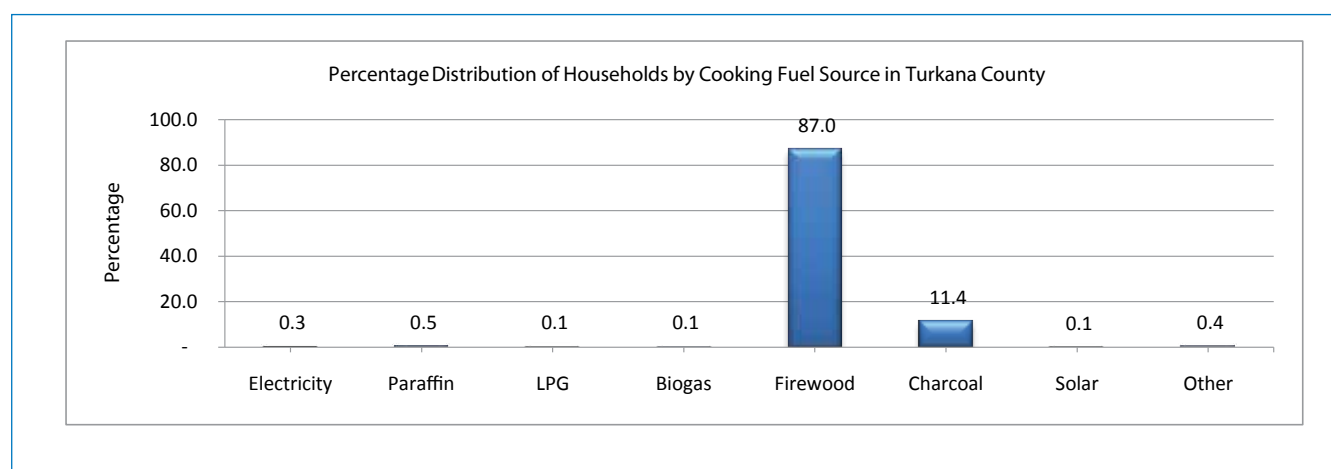
A total of 15% of Turkana County residents have a primary level of education only. Turkana Central constituency has the highest share of residents with a primary level of education only at 26%. This is four times Loima constituency, which has the lowest share of residents with a primary level of education only. Turkana Central constituency is 11 percentage points above the county average. Lobokat ward has the highest share of residents with a primary level of education only at 46%. This is almost 45 percentage points above Letea ward, which has the lowest share of residents with a primary level of education only. Lobokat ward is 31 percentage points above the county average.

As many as 82% of, Turkana County residents have no formal education. Loima constituency has the highest share of residents with no formal education at 93%. This is 25 percentage points above Turkana Central constituency, which has the lowest share of residents with no formal education. Loima constituency is 11 percentage points above the county average. Letea ward has the highest percentage of residents with no formal education at 99%. This is twice Lodwar Township ward, which has the lowest percentage of residents with no formal education. Letea ward is 17 percentage points above the county average.

Energy

Cooking Fuel

Figure 43.4: Percentage Distribution of Households by Source of Cooking Fuel in Turkana County



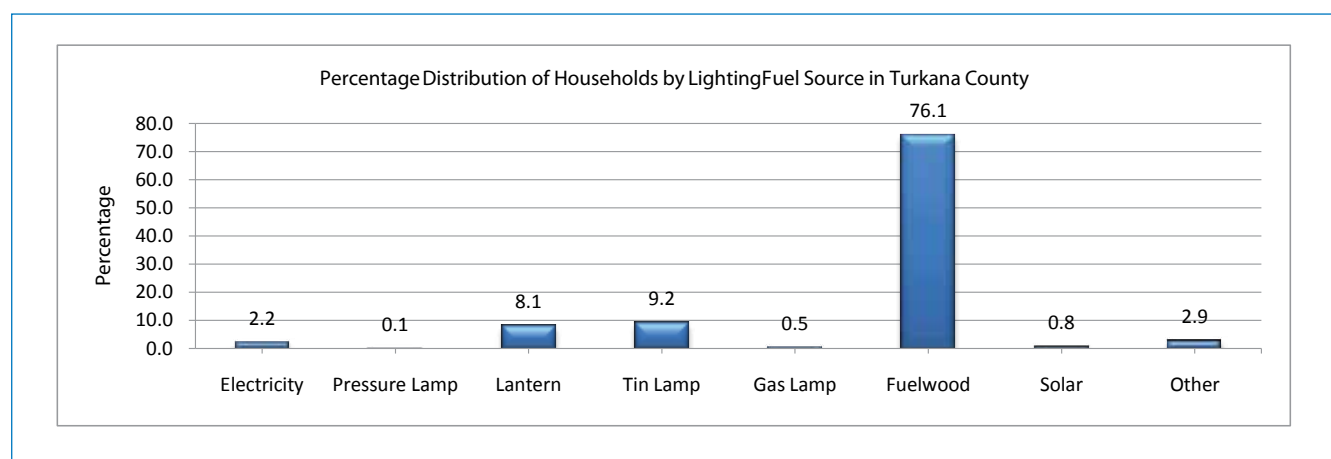
Less than 1% of residents in Turkana County use liquefied petroleum gas (LPG), and 1% use paraffin. 87% use firewood and 11% use charcoal. Firewood is the most common cooking fuel by gender with 86% in male and 89% in female headed households.

Loima constituency has the highest level of firewood use in Turkana County at 97%. This is 26 percentage points above Turkana Central constituency, which has the lowest share. Loima constituency is about 10 percentage points above the county average. Katilia ward has the highest level of firewood use in Turkana County at 99%. This is 57 percentage points above Lodwar Township ward, which has the lowest share. Katilia ward is 12 percentage points above the county average.

Turkana Central constituency has the highest level of charcoal use in Turkana County at 26%. This is 23 percentage points above Loima constituency, which has the lowest share. Turkana Central is 15 points above the county average. Lodwar Township ward has the highest level of charcoal use in Turkana County at 53%. This is 52 percentage points more than Katilia ward, which has the lowest share. Lodwar Township is 42 percentage points above the county average.

Lighting

Figure 43.5: Percentage Distribution of Households by Source of Lighting Fuel in Turkana County



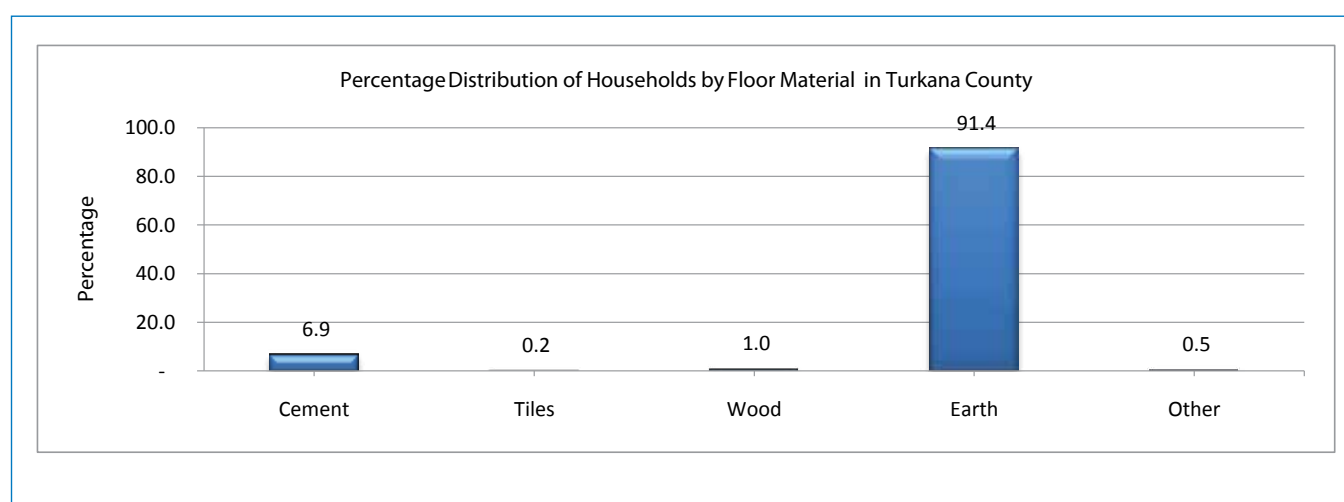
Only 2% of residents in Turkana County use electricity as their main source of lighting. A further 8% use lanterns, and 9% use tin lamps. 76% use fuel wood. Electricity use is mostly common in male headed households at 3% as compared with female headed households at 2%.

Turkana Central constituency has the highest level of electricity use at 7%. That is 7 percentage points above Loima constituency, which has the lowest level of electricity use. Turkana Central constituency is 5 percentage points above the county average. Lodwar Township ward has the highest level of electricity use at 19%. That is 19 percentage points above Kerio Delta, Kotaruk/Lobei, Turkwel, Loima, Katilia, Kalapata, Katilu and Lokirama/Lorengippi wards, which have no level of electricity use. Lodwar Township ward is 17 percentage points above the county average.

Housing

Flooring

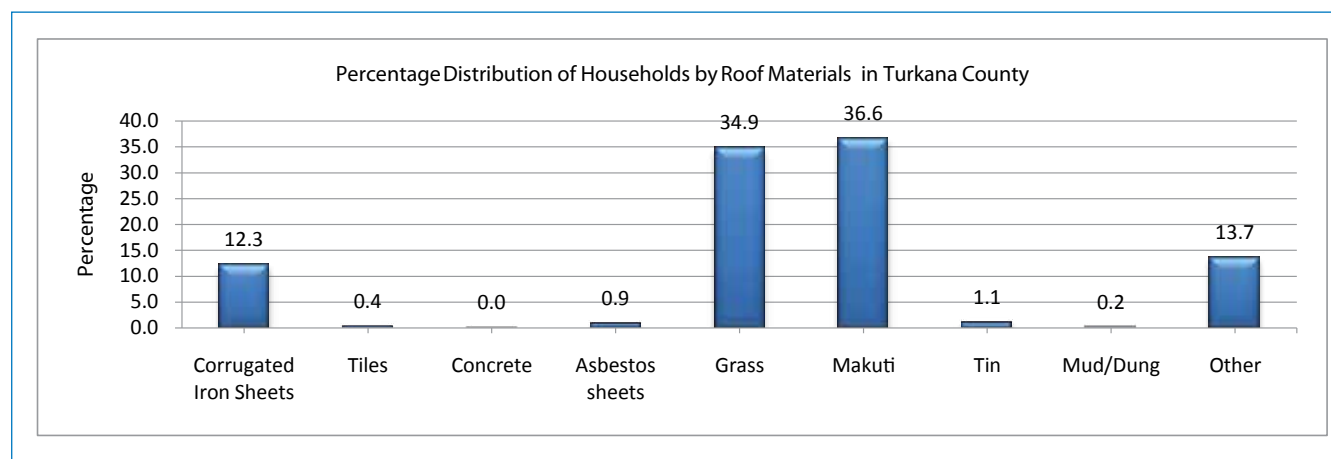
Figure 43.6: Percentage Distribution of Households by Floor Material in Turkana County



In Turkana County, 7% of residents have homes with cement floors, while 91% has earth floors. 1% has wood and less than 1% has tile floors. Turkana Central constituency has the highest share of cement floors at 16%. That is 15 percentage points above Loima constituency, which has the lowest share of cement floors. Turkana Central is 9 percentage points above the county average. Lodwar Township ward has the highest share of cement floors at 37%. That is 37 percentage points above Letea, Songot, Kerio Delta, Lokirama/Lorengippi, Kalapata and Katilu ward, which have the lowest share of cement floors. Lodwar Township ward is 30 percentage points above the county average.

Roofing

Figure 43.7: Percentage Distribution of Households by Roof Material in Turkana County



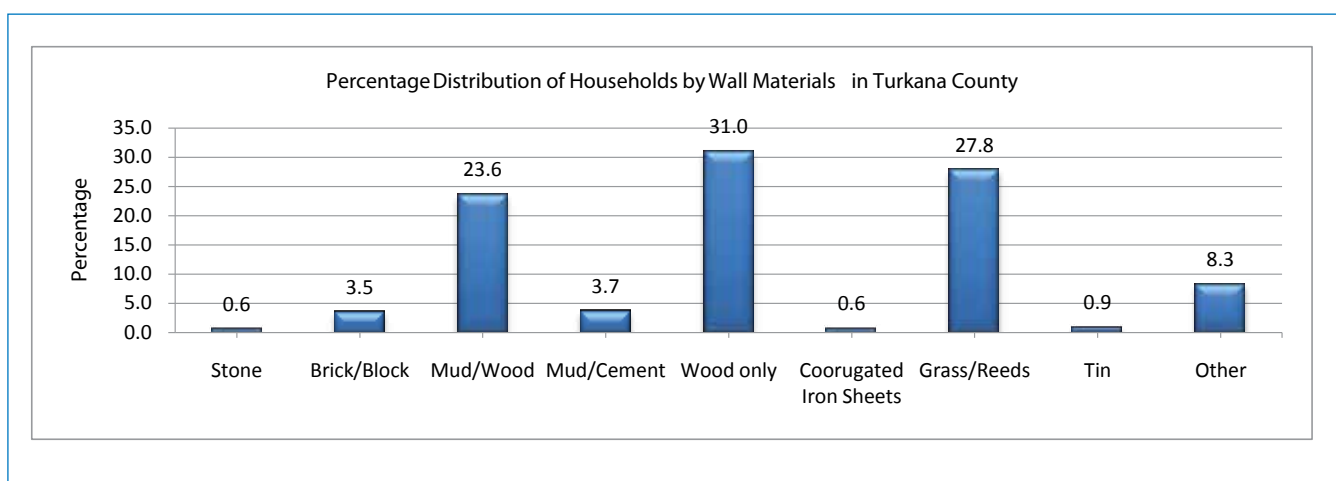
In Turkana County, none of the residents have homes with concrete roofs, while 12% have corrugated iron roofs. Grass and makuti roofs constitute 72% of homes, and less than 1% has mud/dung roofs.

Turkana Central constituency has the highest share of corrugated iron sheet roofs at 25%. That is 23 percentage points above Loima constituency, which has the lowest share of corrugated iron sheet roofs. Turkana Central constituency is 13 percentage points above the county average. Lobokat ward has the highest share of corrugated iron sheet roofs at 59%. That is 59 percentage points above Letea ward, which has the lowest share of corrugated iron sheet roofs. Lobokat ward is 47 percentage points above the county average.

Turkana East constituency has the highest share of grass/makuti roofs at 81%. That is 18 percentage points above Turkana Central constituency, which has the lowest share of grass/makuti roofs. Turkana East constituency is 9 percentage points above the county average. Kalapata ward has the highest share of grass/makuti roofs at 100%. This is three times Lobokat ward, which has the lowest share. Kalapata ward is 28 percentage points above the county average.

Walls

Figure 43.8: Percentage Distribution of Households by Wall Material in Turkana County



In Turkana County, 4% of homes have either brick or stone walls. 27% of homes have mud/wood or mud/cement walls. 31% has wood walls. 1% has corrugated iron walls. 28% have grass/thatched walls. 9% have tin or other walls.

Turkana Central constituency, which has the highest share of brick/stone walls at 11%. That is 11 percentage points above Loima constituency, which has the lowest share of brick/stone walls. Turkana Central constituency is 7 percentage points above the county average. Lodwar Township ward has the highest share of brick/stone walls at 29%. That is 29 percentage points above Kalapata ward, which has no share of brick/stone walls. Lodwar Township ward is 25 percentage points above the county average.

Turkana East constituency has the highest share of mud with wood/cement walls at 54%. That is 47 percentage points above Turkana North constituency, which has the lowest share of mud with wood/cement. Turkana East constituency is 27 percentage points above the county average. Lobokat ward has the highest share of mud with wood/cement walls at 76%. That is 38 times Lake Zone ward, which has the lowest share of mud with wood/cement walls. Lobokat ward is 49 percentage points above the county average.

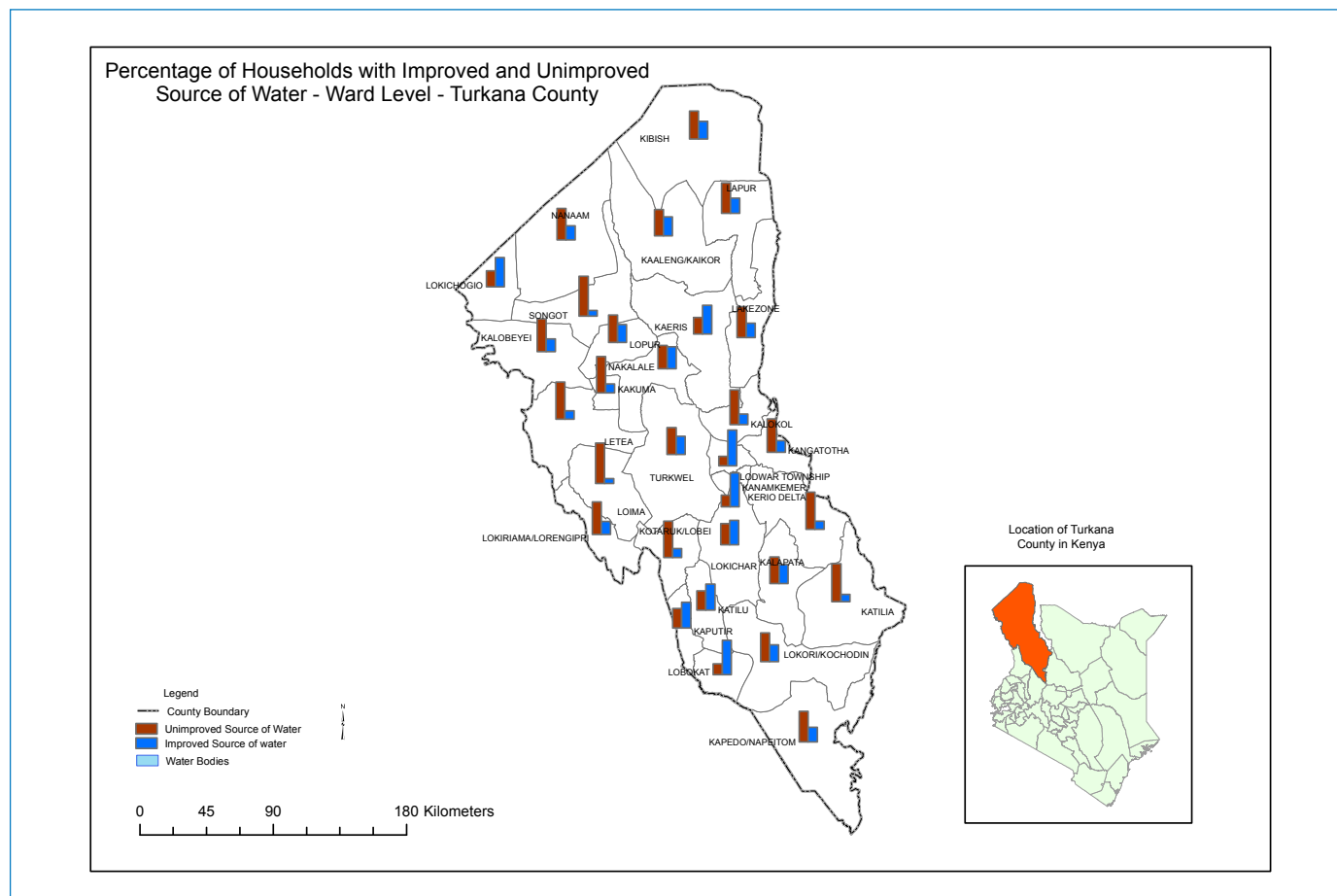
Water

Improved sources of water comprise protected springs, protected wells, boreholes, piped water into dwellings, collected piped and rain water; while unimproved sources include ponds, dams, lake, stream/river, unprotected springs, unprotected wells, jabia, water vendors and other.

In Turkana County, 39% 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 with 38% of male headed households and 41% in female headed households.

Turkana South constituency has the highest share of residents using improved sources of water at 56%. That is twice Loima constituency, which has the lowest share using improved sources of water. Turkana South constituency is 17 percentage points above the county average. Lodwar Township ward has the highest share of residents using improved sources of water at 77%. That is 64 percentage points above Loima ward, which has the lowest share using improved sources of water. Lodwar Township ward is 38 percentage points above the county average.

Figure 43.9: Turkana County-Percentage of Households with Improved and Unimproved Sources of Water by Ward

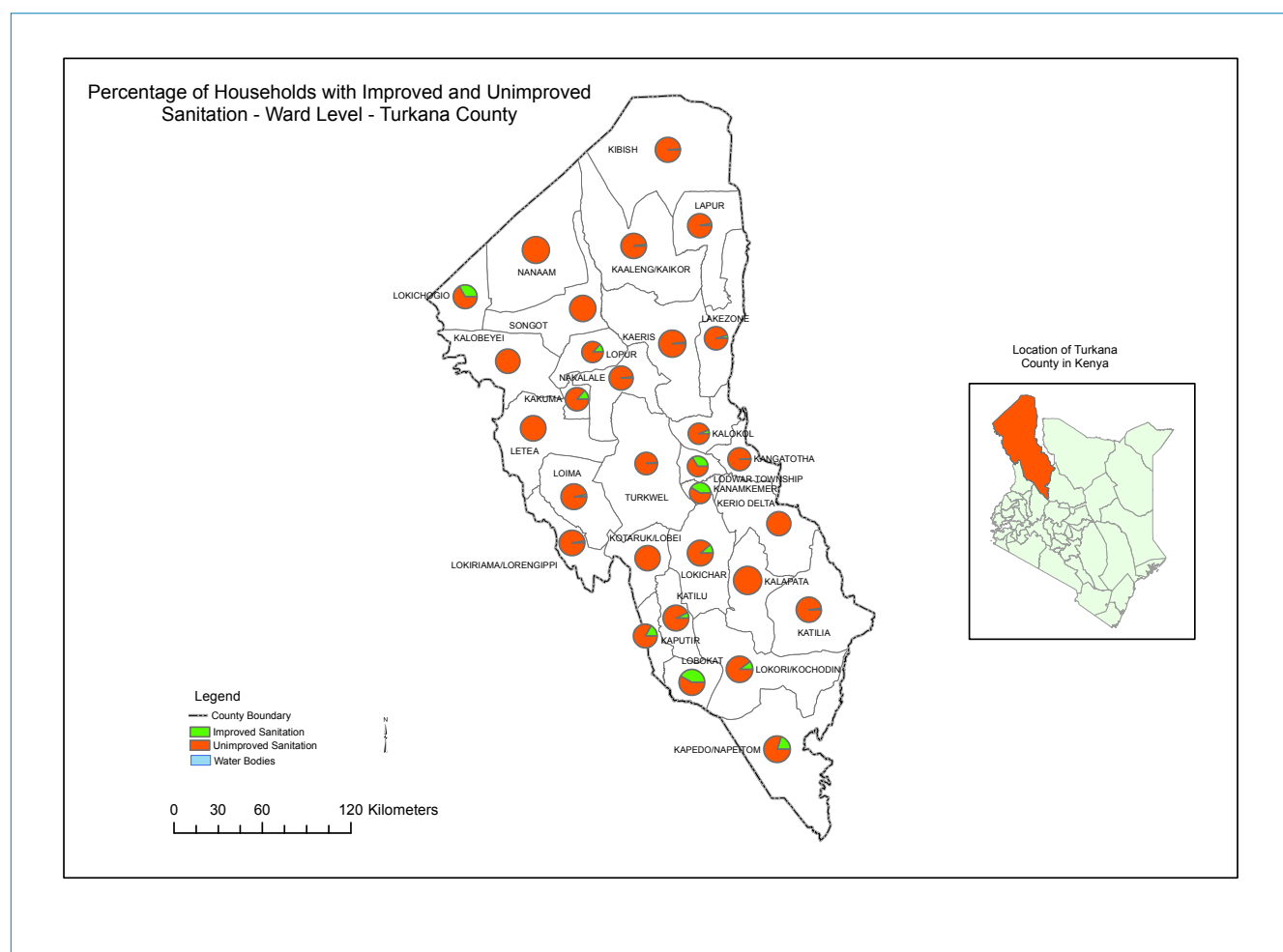


Sanitation

Only 9% of residents in Turkana County use improved sanitation, while the rest use unimproved sanitation. Use of improved sanitation is almost similar by gender, with male headed households at 9% as compared with female headed households at 8%.

Turkana Central constituency has the highest share of residents using improved sanitation at 17%. That is eight times Loima constituency, which has the lowest share using improved sanitation. Turkana Central constituency is 8 percentage points above the county average. Lobokat ward has the highest share of residents using improved sanitation at 42%. That is 42 percentage points above Letea ward, which has the lowest share using improved sanitation. Lobokat ward is 33 percentage points above the county average.

Figure 43.10: Turkana County –Percentage of Households with Improved and Unimproved Sanitation by Ward



Turkana County Annex Tables

43. TURKANA

Table 43.1: Gender, Age group, Demographic Indicators and Households Size by County Constituency and Wards

County/Constituency/Wards	Gender			Age group							Demographic indicators				Proportion of HH Members:		
	Total Pop	Male	Female	0-5 yrs	0-14 yrs	10-18 yrs	15-34 yrs	15-64 yrs	65+ yrs	sex Ratio	Total dependency Ratio	Child dependency Ratio	aged dependency ratio	0-3	4-6	7+	total
Kenya	37,919,647	18,787,698	19,131,949	7,035,670	16,346,414	8,293,207	13,329,717	20,249,800	1,323,433	0.982	0.873	0.807	0.065	41.5	38.4	20.1	8,493,380
Rural	26,075,195	12,869,034	13,206,161	5,059,515	12,024,773	6,134,730	8,303,007	12,984,788	1,065,634	0.974	1.008	0.926	0.082	33.2	41.3	25.4	5,239,879
Urban	11,844,452	5,918,664	5,925,788	1,976,155	4,321,641	2,158,477	5,026,710	7,265,012	257,799	0.999	0.630	0.595	0.035	54.8	33.7	11.5	3,253,501
Turkana County	814,953	422,796	392,157	128,831	372,905	236,766	292,038	422,657	19,391	1.078	0.928	0.882	0.046	11.6	29.8	58.6	106,554
Turkana North Constituency	144,055	76,380	67,675	22,795	65,907	41,280	51,301	74,619	3,529	1.129	0.931	0.883	0.047	8.8	30.8	60.4	19,299
Kaeris	21,332	11,648	9,684	2,968	9,622	6,511	7,733	11,101	609	1.203	0.922	0.867	0.055	1.3	10.4	88.3	2,315
Lakezone	34,232	18,174	16,058	6,588	16,520	8,890	11,600	16,831	881	1.132	1.034	0.982	0.052	10.8	42.3	46.9	5,272
Lapur	21,816	11,525	10,291	3,431	9,629	5,896	7,938	11,650	537	1.120	0.873	0.827	0.046	13.7	34.0	52.3	3,149
Kaaleng/Kaikor	29,827	15,801	14,026	4,336	13,285	8,824	10,774	15,856	686	1.127	0.881	0.838	0.043	5.7	25.4	69.0	3,599
Kibish	21,372	11,193	10,179	3,079	10,031	6,920	7,730	10,996	345	1.100	0.944	0.912	0.031	9.6	24.6	65.8	2,731
Nakalale	15,476	8,039	7,437	2,393	6,820	4,239	5,526	8,185	471	1.081	0.891	0.833	0.058	9.4	36.5	54.1	2,233
Turkana West Constituency	196,129	102,639	93,490	25,467	82,632	59,376	76,729	108,785	4,712	1.098	0.803	0.760	0.043	11.0	24.1	64.8	21,353
Kakuma	33,317	17,120	16,197	5,217	13,641	8,795	13,319	18,687	989	1.057	0.783	0.730	0.053	16.6	31.1	52.3	3,884
Lopur	14,776	7,513	7,263	2,341	6,056	3,706	5,704	8,317	403	1.034	0.777	0.728	0.048	13.2	28.0	58.8	1,723
Letea	43,244	22,690	20,554	4,432	17,141	13,716	17,187	24,983	1,120	1.104	0.731	0.686	0.045	4.9	20.6	74.5	3,909

Songot	17,584	9,363	8,221	2,182	7,686	5,501	6,678	9,535	363	1,139	0.844	0.806	0.038	4.0	21.3	74.6	1903
Kalobeyei	18,262	9,438	8,824	2,170	7,090	5,155	7,460	10,668	504	1,070	0.712	0.665	0.047	11.1	31.5	57.3	2553
Lokichogio	27,059	14,104	12,955	3,959	11,701	7,909	10,940	14,892	466	1,089	0.817	0.786	0.031	24.0	25.6	50.4	3630
Nanaam	41,887	22,411	19,476	5,166	19,317	14,594	15,441	21,703	867	1,151	0.930	0.890	0.040	1.7	13.9	84.5	3751
Turkana Central Constituency	130,611	64,127	66,484	26,629	63,540	33,623	44,062	63,670	3,401	0.965	1.051	0.998	0.053	24.3	38.4	37.3	21781
Kerio Delta	33,989	17,085	16,904	6,650	17,590	9,757	10,736	15,555	844	1,011	1.185	1.131	0.054	9.8	33.8	56.4	4618
Kangatotha	22,687	11,226	11,461	4,975	11,918	5,771	7,172	10,289	480	0.979	1.205	1.158	0.047	14.2	40.9	45.0	3505
Kalokol	19,386	9,420	9,966	3,998	9,044	4,542	6,509	9,747	595	0.945	0.989	0.928	0.061	27.3	40.0	32.7	3365
Lodwar Township	31,823	15,589	16,234	6,240	14,114	7,766	11,825	16,787	922	0.960	0.896	0.841	0.055	36.6	37.5	25.9	6282
Kanankemer	22,726	10,807	11,919	4,766	10,874	5,787	7,820	11,292	560	0.907	1.013	0.963	0.050	27.9	41.5	30.6	4011
Loima Constituency	119,906	60,060	59,846	19,165	54,694	34,180	42,060	61,923	3,289	1.004	0.936	0.883	0.053	11.6	32.6	55.8	16285
Kotaruk/Lobei	31,622	16,349	15,273	5,077	15,592	9,621	10,579	15,416	614	1.070	1.051	1.011	0.040	4.6	27.7	67.7	3973
Turkwel	47,392	22,716	24,676	8,904	22,455	12,480	15,483	23,308	1,629	0.921	1.033	0.963	0.070	19.3	38.5	42.2	7464
Loima	19,848	9,875	9,973	2,535	7,801	5,593	7,817	11,490	557	0.990	0.727	0.679	0.048	6.4	28.4	65.1	2327
Lokirama/Lorengippi	21,044	11,120	9,924	2,649	8,846	6,486	8,181	11,709	489	1.121	0.797	0.755	0.042	4.9	26.5	68.5	2521
Turkana South Constituency	133,972	71,299	62,673	21,118	62,158	39,492	47,359	68,777	3,037	1.138	0.948	0.904	0.044	5.3	27.1	67.5	16872
Kaputir	15,068	8,191	6,877	2,503	6,949	4,246	5,383	7,785	334	1.191	0.936	0.893	0.043	8.7	39.0	52.3	2199
Katilu	41,528	22,054	19,474	6,980	20,075	12,009	13,848	20,516	937	1.132	1.024	0.979	0.046	3.2	27.6	69.2	5322
Lobokat	9,839	5,413	4,426	1,439	4,242	2,951	3,811	5,348	249	1.223	0.840	0.793	0.047	5.3	41.7	53.0	1405
Kalapata	23,509	12,379	11,130	3,231	10,875	7,522	8,369	12,139	495	1.112	0.937	0.896	0.041	1.2	11.6	87.2	2424
Lokichar	44,028	23,262	20,766	6,965	20,017	12,764	15,948	22,989	1,022	1.120	0.915	0.871	0.044	7.9	25.0	67.0	5522

Turkana East Constituency	90,280	48,291	41,989	13,657	43,974	28,815	30,527	44,883	1,423	1,150	1,011	0.980	0.032	2.4	21.6	76.0	10964
Kapedo/Napeitom	25,274	13,868	11,406	3,388	11,555	8,309	9,167	13,334	385	1,216	0.895	0.867	0.029	2.2	22.6	75.2	3025
Katilia	20,973	11,302	9,671	3,481	11,106	6,676	6,508	9,546	321	1,169	1.197	1.163	0.034	3.2	29.4	67.4	2715
Lokori/Kochodin	44,033	23,121	20,912	6,788	21,313	13,830	14,852	22,003	717	1,106	1.001	0.969	0.033	2.1	17.0	81.0	5224

Table 43.2: Employment by County, Constituency and Wards

County/Constituency/Wards	Work for pay	Family Business	Family Agricultural Holding	Intern /Volunteer	Retired/ Homemaker	Fulltime Student	Incapacitated	No work	Number of Individuals
Kenya	23.7	13.1	32.0	1.1	9.2	12.8	0.5	7.7	20,249,800
Rural	15.6	11.2	43.5	1.0	8.8	13.0	0.5	6.3	12,984,788
Urban	38.1	16.4	11.4	1.3	9.9	12.2	0.3	10.2	7,265,012
Turkana County	5.6	16.9	50.1	1.5	6.5	4.0	0.5	14.9	422,657
Turkana North Constituency	4.2	18.5	50.1	1.1	6.8	2.7	0.5	16.2	74,619
Kaeris	4.0	29.9	40.3	0.5	5.2	1.2	1.4	17.6	11,101
Lakezone	5.9	19.9	45.9	2.2	6.4	5.4	0.9	13.3	16,831
Lapur	3.5	24.4	43.7	0.6	13.8	4.1	0.2	9.8	11,650
Kaaleng/Kaikor	2.7	20.2	54.3	0.7	4.1	1.1	0.1	16.9	15,856
Kibish	2.2	1.3	76.1	0.3	8.6	0.8	0.2	10.5	10,996
Nakalale	7.2	11.7	37.9	1.9	2.8	2.6	0.2	35.7	8,185
Turkana West Constituency	5.8	12.8	44.7	2.4	8.8	2.4	0.6	22.6	108,785
Kakuma	8.6	17.3	14.4	1.7	11.3	7.4	1.2	38.1	18,687
Lopur	12.1	18.6	15.3	4.9	6.4	1.9	0.8	40.0	8,317
Letea	1.4	15.3	63.9	0.7	7.1	0.1	0.3	11.1	24,983
Songot	1.2	18.8	64.1	0.2	5.8	0.7	0.0	9.1	9,535
Kalobeyei	1.7	6.3	48.0	1.2	2.8	1.4	0.2	38.4	10,668
Lokichogio	17.6	14.7	21.1	7.9	5.6	4.4	1.5	27.2	14,892
Nanaam	2.0	3.0	65.8	1.7	16.1	0.6	0.0	10.6	21,703
Turkana Central Constituency	10.3	21.3	31.1	2.4	9.7	7.8	0.6	16.8	63,670
Kerio Delta	1.7	15.1	64.9	0.8	2.1	1.1	0.1	14.3	15,555
Kangatotha	5.8	26.8	34.1	5.1	14.6	2.1	0.3	11.3	10,289
Kalokol	7.3	30.0	27.9	1.0	10.1	7.6	0.6	15.6	9,747
Lodwar Township	21.1	20.5	11.9	3.0	8.6	15.6	0.8	18.5	16,787
Kanamkemer	13.1	18.7	12.8	2.3	17.2	10.9	1.2	23.8	11,292
Loima Constituency	2.7	20.8	67.7	0.9	1.1	0.8	0.3	5.7	61,923
Kotaruk/Lobei	1.6	14.5	80.2	0.7	1.1	0.4	0.1	1.4	15,416
Turkwel	5.1	23.9	53.7	1.6	2.1	1.8	0.6	11.2	23,308
Loima	1.1	24.3	69.7	0.4	0.2	0.2	0.1	4.2	11,490
Lokiriama/Lorengippi	1.0	19.6	77.1	0.2	0.2	0.1	0.2	1.6	11,709

Turkana South Constituency	5.5	17.6	56.9	1.1	4.3	5.2	0.4	9.0	68,777
Kaputir	5.0	4.0	76.7	0.6	3.8	3.1	0.3	6.5	7,785
Katilu	3.4	6.3	74.5	1.1	5.4	5.8	0.4	3.0	20,516
Lobokat	24.3	15.9	20.6	1.4	9.8	14.0	0.4	13.6	5,348
Kalapata	1.5	53.2	34.7	0.9	2.9	1.2	0.2	5.5	12,139
Lokichar	5.2	13.9	54.6	1.4	3.1	5.4	0.4	16.0	22,989
Turkana East Constituency	4.6	11.5	55.7	0.6	6.8	6.8	0.5	13.5	44,883
Kapedo/Napeitom	9.5	15.3	35.2	0.7	8.1	15.0	0.8	15.4	13,334
Katilia	2.2	2.6	76.6	0.3	1.6	1.1	0.1	15.6	9,546
Lokori/Kochodin	2.8	13.1	59.1	0.6	8.2	4.2	0.4	11.4	22,003

Table 43.3: Employment and Education Levels by County, Constituency and Wards

County /constituency/ Wards	Education Total level	Work for pay	Family Business	Family Agricultural Holding	Intern/ Volunteer	Retired/ Home- maker	Fulltime Student	Incapaci- tated	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
Turkana	Total	5.6	16.9	50.1	1.5	6.5	4.0	0.5	14.9	422,657
Turkana	None	3.4	17.5	55.4	1.5	6.6	0.1	0.5	15.1	353,488
Turkana	Primary	9.8	15.2	27.3	1.7	7.7	23.3	0.6	14.4	44,792
Turkana	Secondary+	28.8	11.7	15.0	2.3	4.0	24.6	0.2	13.4	24,377
Turkana North Constituency	Total	4.2	18.5	50.1	1.1	6.8	2.7	0.5	16.2	74,619
Turkana North Constituency	None	2.8	19.0	53.2	1.0	7.0	0.1	0.5	16.4	67,400
Turkana North Constituency	Primary	9.1	15.8	24.6	1.7	6.1	27.6	0.5	14.8	5,340
Turkana North Constituency	Secondary+	37.5	9.4	12.0	2.9	2.5	23.9	0.2	11.7	1,879
Kaeris Wards	Total	4.0	29.9	40.3	0.5	5.2	1.2	1.4	17.6	11,101
Kaeris Wards	None	3.2	30.4	41.5	0.4	5.5	0.0	1.5	17.4	10,229

Kaeris Wards	Primary	6.3	26.1	29.8	0.5	1.9	12.4	0.7	22.3	620
Kaeris Wards	Secondary+	27.0	17.9	18.7	2.0	0.8	20.2	-	13.5	252
Lakezone Wards	Total	5.9	19.9	45.9	2.2	6.4	5.4	0.9	13.3	16,831
Lakezone Wards	None	4.5	21.2	50.4	2.2	6.7	0.3	1.0	13.8	14,202
Lakezone Wards	Primary	6.9	14.5	25.4	1.7	5.1	33.2	0.6	12.7	1,938
Lakezone Wards	Secondary+	31.3	9.6	11.9	3.9	2.9	34.2	-	6.4	691
Lapur Wards	Total	3.5	24.4	43.7	0.6	13.8	4.1	0.2	9.8	11,650
Lapur Wards	None	1.7	26.1	47.7	0.4	14.0	0.1	0.2	10.0	10,326
Lapur Wards	Primary	10.6	13.7	15.0	1.9	15.2	38.3	0.2	5.2	964
Lapur Wards	Secondary+	38.3	4.7	7.2	2.2	3.6	27.2	0.3	16.4	360
Kaaleng/Kaikor Wards	Total	2.7	20.2	54.3	0.7	4.1	1.1	0.1	16.9	15,856
Kaaleng/Kaikor Wards	None	1.7	20.6	56.1	0.7	4.3	0.1	0.1	16.6	14,990
Kaaleng/Kaikor Wards	Primary	8.7	17.3	26.5	1.1	1.5	21.1	0.3	23.6	620
Kaaleng/Kaikor Wards	Secondary+	45.1	7.7	13.0	0.4	2.0	14.2	-	17.5	246
Kibish Wards	Total	2.2	1.3	76.1	0.3	8.6	0.8	0.2	10.5	10,996
Kibish Wards	None	0.8	1.1	77.8	0.3	8.9	0.1	0.2	10.9	10,456
Kibish Wards	Primary	8.7	7.3	57.2	0.9	3.4	17.2	2.0	3.4	355
Kibish Wards	Secondary+	73.0	2.2	13.5	1.1	2.2	6.0	1.1	1.1	185
Nakalale Wards	Total	7.2	11.7	37.9	1.9	2.8	2.6	0.2	35.7	8,185
Nakalale Wards	None	6.0	11.1	41.2	1.7	2.5	0.1	0.3	37.3	7,197
Nakalale Wards	Primary	14.8	15.9	14.8	2.9	5.6	22.5	-	23.5	843
Nakalale Wards	Secondary+	24.8	17.9	9.7	7.6	1.4	12.4	-	26.2	145
Turkana West Constituency	Total	5.8	12.8	44.7	2.4	8.8	2.4	0.6	22.6	108,785
Turkana West Constituency	None	3.7	12.8	48.4	2.4	9.2	0.1	0.6	23.0	97,009
Turkana West Constituency	Primary	12.8	12.9	16.5	2.6	7.3	24.8	1.3	21.8	7,604
Turkana West Constituency	Secondary+	41.4	13.6	8.6	2.4	3.5	15.3	0.3	14.9	4,172
Kakuma Wards	Total	8.6	17.3	14.4	1.7	11.3	7.4	1.2	38.1	18,687
Kakuma Wards	None	5.2	19.0	16.4	1.8	12.8	0.2	1.5	43.1	13,671
Kakuma Wards	Primary	10.9	12.3	10.1	1.7	8.7	29.4	0.8	26.2	3,411
Kakuma Wards	Secondary+	32.4	13.2	5.9	1.6	4.3	22.0	0.2	20.4	1,605
Lopur Wards	Total	12.1	18.6	15.3	4.9	6.4	1.9	0.8	40.0	8,317

Lopur Wards	None	9.2	19.4	16.2	5.2	6.6	0.2	0.8	42.4	7,493
Lopur Wards	Primary	12.7	14.7	10.6	2.4	6.7	24.0	0.5	28.4	416
Lopur Wards	Secondary+	64.2	8.3	3.9	0.7	2.7	11.5	0.3	8.3	408
Letea Wards	Total	1.4	15.3	63.9	0.7	7.1	0.1	0.3	11.1	24,983
Letea Wards	None	1.4	15.4	64.0	0.7	7.1	0.0	0.3	11.1	24,713
Letea Wards	Primary	1.7	9.9	52.4	0.9	5.6	8.6	-	21.0	233
Letea Wards	Secondary+	16.2	35.1	21.6	-	-	16.2	-	10.8	37
Songot Wards	Total	1.2	18.8	64.1	0.2	5.8	0.7	0.0	9.1	9,535
Songot Wards	None	1.0	19.0	64.5	0.2	5.9	0.0	0.0	9.3	9,244
Songot Wards	Primary	3.8	12.6	48.7	0.4	5.0	26.1	-	3.4	238
Songot Wards	Secondary+	22.6	11.3	52.8	1.9	1.9	7.6	-	1.9	53
Kalobeyei Wards	Total	1.7	6.3	48.0	1.2	2.8	1.4	0.2	38.4	10,668
Kalobeyei Wards	None	1.2	6.2	48.5	1.2	2.9	-	0.2	39.8	10,216
Kalobeyei Wards	Primary	6.2	8.7	41.1	0.8	1.9	33.2	1.1	7.0	370
Kalobeyei Wards	Secondary+	39.0	13.4	17.1	-	-	28.1	-	2.4	82
Lokichogio Wards	Total	17.6	14.7	21.1	7.9	5.6	4.4	1.5	27.2	14,892
Lokichogio Wards	None	12.0	14.2	25.7	9.2	5.8	0.1	1.4	31.6	10,706
Lokichogio Wards	Primary	20.0	16.5	10.3	5.1	6.6	20.2	2.7	18.5	2,354
Lokichogio Wards	Secondary+	47.1	15.4	8.4	3.7	3.1	9.6	0.4	12.3	1,832
Nanaam Wards	Total	2.0	3.0	65.8	1.7	16.1	0.6	0.0	10.6	21,703
Nanaam Wards	None	1.8	3.0	66.9	1.7	16.4	-	0.0	10.3	20,966
Nanaam Wards	Primary	7.2	4.5	39.5	1.2	7.4	18.2	-	22.0	582
Nanaam Wards	Secondary+	21.3	5.8	27.7	2.6	5.8	18.7	-	18.1	155
Turkana Central Constituency	Total	10.3	21.3	31.1	2.4	9.7	7.8	0.6	16.8	63,670
Turkana Central Constituency	None	5.3	23.3	39.9	2.5	10.4	0.2	0.6	17.9	42,640
Turkana Central Constituency	Primary	12.9	19.6	16.7	2.0	10.2	23.2	0.7	14.7	13,319
Turkana Central Constituency	Secondary+	33.6	13.4	6.9	2.5	5.4	23.5	0.5	14.2	7,711
Kerio Delta Wards	Total	1.7	15.1	64.9	0.8	2.1	1.1	0.1	14.3	15,555
Kerio Delta Wards	None	1.3	15.2	65.4	0.8	2.2	0.1	0.1	14.9	14,310
Kerio Delta Wards	Primary	2.7	14.4	61.3	1.1	1.3	12.4	0.1	6.7	1,096
Kerio Delta Wards	Secondary+	27.5	11.4	40.9	-	-	15.4	-	4.7	149

Kangatotha Wards	Total	5.8	26.8	34.1	5.1	14.6	2.1	0.3	11.3	10,289
Kangatotha Wards	None	4.7	26.4	35.7	5.7	15.6	0.2	0.4	11.4	8,729
Kangatotha Wards	Primary	6.7	32.7	27.7	1.4	10.4	12.0	-	9.1	1,271
Kangatotha Wards	Secondary+	35.3	12.8	11.8	4.8	3.5	13.8	-	18.0	289
Kalokol Wards	Total	7.3	30.0	27.9	1.0	10.1	7.6	0.6	15.6	9,747
Kalokol Wards	None	4.1	30.9	34.0	0.8	11.3	0.1	0.7	18.1	7,096
Kalokol Wards	Primary	12.6	29.5	12.6	1.5	8.5	27.0	0.4	7.9	2,034
Kalokol Wards	Secondary+	26.3	20.8	7.8	1.6	2.3	29.0	-	12.3	617
Lodwar Township Wards	Total	21.1	20.5	11.9	3.0	8.6	15.6	0.8	18.5	16,787
Lodwar Township Wards	None	14.8	28.0	17.4	3.9	11.3	0.3	1.4	22.9	6,488
Lodwar Township Wards	Primary	16.6	16.6	10.6	2.4	8.8	26.5	0.6	18.0	5,770
Lodwar Township Wards	Secondary+	35.8	14.7	5.9	2.4	4.4	23.9	0.3	12.7	4,529
Kanamkemer Wards	Total	13.1	18.7	12.8	2.3	17.2	10.9	1.2	23.8	11,292
Kanamkemer Wards	None	6.9	24.1	16.5	2.2	20.3	0.3	0.9	28.8	6,017
Kanamkemer Wards	Primary	12.5	15.1	10.5	2.1	17.0	23.0	1.7	18.2	3,148
Kanamkemer Wards	Secondary+	31.3	8.7	6.0	2.8	8.9	23.0	1.1	18.1	2,127
Loima Constituency	Total	2.7	20.8	67.7	0.9	1.1	0.8	0.3	5.7	61,923
Loima Constituency	None	2.2	20.8	69.3	0.9	1.1	0.0	0.3	5.4	58,369
Loima Constituency	Primary	5.9	23.7	43.0	1.2	1.7	14.9	0.5	9.1	2,686
Loima Constituency	Secondary+	26.3	14.4	34.5	2.4	0.7	10.8	0.2	10.7	868
Kotaruk/Lobei Wards	Total	1.6	14.5	80.2	0.7	1.1	0.4	0.1	1.4	15,416
Kotaruk/Lobei Wards	None	1.4	14.5	80.9	0.7	1.0	0.0	0.1	1.3	14,939
Kotaruk/Lobei Wards	Primary	7.5	13.1	59.2	-	2.2	12.6	0.6	4.8	358
Kotaruk/Lobei Wards	Secondary+	13.5	12.6	46.2	4.2	0.8	12.6	0.8	9.2	119
Turkwel Wards	Total	5.1	23.9	53.7	1.6	2.1	1.8	0.6	11.2	23,308
Turkwel Wards	None	4.5	23.7	56.1	1.6	2.2	0.1	0.6	11.1	21,020
Turkwel Wards	Primary	5.0	27.6	33.3	1.6	2.0	18.3	0.6	11.7	1,807
Turkwel Wards	Secondary+	30.4	16.6	22.0	2.3	1.0	15.0	0.2	12.5	481
Loima Wards	Total	1.1	24.3	69.7	0.4	0.2	0.2	0.1	4.2	11,490
Loima Wards	None	0.7	24.6	70.1	0.3	0.2	-	0.1	4.1	11,067
Loima Wards	Primary	6.0	17.5	63.5	1.4	0.4	6.3	-	4.9	285

Loima Wards	Secondary+	23.2	11.6	49.3	3.6	-	2.9	-	9.4	138
Lokirama/Lorengippi Wards	Total	1.0	19.6	77.1	0.2	0.2	0.1	0.2	1.6	11,709
Lokirama/Lorengippi Wards	None	0.5	19.8	77.6	0.2	0.2	-	0.2	1.6	11,343
Lokirama/Lorengippi Wards	Primary	10.2	17.8	68.2	-	-	3.0	-	0.9	236
Lokirama/Lorengippi Wards	Secondary+	26.2	10.8	53.9	-	-	2.3	-	6.9	130
Turkana South Constituency	Total	5.5	17.6	56.9	1.1	4.3	5.2	0.4	9.0	68,777
Turkana South Constituency	None	3.5	19.7	62.6	1.1	3.7	0.1	0.4	8.9	53,869
Turkana South Constituency	Primary	8.1	10.9	41.1	1.2	7.5	22.7	0.2	8.4	10,064
Turkana South Constituency	Secondary+	21.6	8.6	25.5	2.0	5.2	26.2	0.1	11.0	4,844
Kaputir Wards	Total	5.0	4.0	76.7	0.6	3.8	3.1	0.3	6.5	7,785
Kaputir Wards	None	2.0	3.9	84.6	0.6	1.3	0.0	0.5	7.2	4,636
Kaputir Wards	Primary	4.2	4.2	74.7	0.3	7.1	5.2	0.1	4.1	2,137
Kaputir Wards	Secondary+	20.6	4.2	44.9	1.4	8.1	12.9	-	8.1	1,012
Katilu Wards	Total	3.4	6.3	74.5	1.1	5.4	5.8	0.4	3.0	20,516
Katilu Wards	None	2.5	5.7	83.3	1.1	4.5	0.1	0.4	2.4	15,955
Katilu Wards	Primary	4.0	9.5	46.8	1.1	9.0	24.9	0.3	4.4	3,346
Katilu Wards	Secondary+	14.4	6.3	34.7	1.3	6.3	28.9	0.2	7.9	1,215
Lobokat Wards	Total	24.3	15.9	20.6	1.4	9.8	14.0	0.4	13.6	5,348
Lobokat Wards	None	26.2	20.6	24.6	1.4	8.6	0.1	0.8	17.7	2,588
Lobokat Wards	Primary	19.9	12.1	18.1	1.5	12.5	25.4	0.1	10.5	1,916
Lobokat Wards	Secondary+	28.2	9.8	14.2	1.4	7.6	30.8	-	7.9	844
Kalapata Wards	Total	1.5	53.2	34.7	0.9	2.9	1.2	0.2	5.5	12,139
Kalapata Wards	None	1.3	54.2	35.2	0.8	3.0	0.0	0.2	5.3	11,447
Kalapata Wards	Primary	2.6	39.5	25.7	1.8	1.0	22.4	0.2	6.9	509
Kalapata Wards	Secondary+	10.4	31.2	25.7	1.6	-	18.0	-	13.1	183
Lokichar Wards	Total	5.2	13.9	54.6	1.4	3.1	5.4	0.4	16.0	22,989
Lokichar Wards	None	3.1	14.5	61.6	1.3	3.3	0.1	0.5	15.8	19,243
Lokichar Wards	Primary	9.1	12.1	22.8	1.7	2.7	34.0	0.4	17.2	2,156
Lokichar Wards	Secondary+	25.4	9.9	12.1	3.1	1.7	31.1	0.1	16.5	1,590
Turkana East Constituency	Total	4.6	11.5	55.7	0.6	6.8	6.8	0.5	13.5	44,883
Turkana East Constituency	None	3.2	11.7	63.9	0.4	7.3	0.0	0.6	12.8	34,201

Turkana East Constituency	Primary	4.2	11.1	37.4	0.7	7.1	22.4	0.1	16.9	5,779
Turkana East Constituency	Secondary+	15.0	10.7	20.6	1.9	2.4	35.3	0.0	14.2	4,903
Kapedo/Napeitum Wards	Total	9.5	15.3	35.2	0.7	8.1	15.0	0.8	15.4	13,334
Kapedo/Napeitum Wards	None	8.6	17.0	47.3	0.6	11.5	0.1	1.2	13.8	8,172
Kapedo/Napeitum Wards	Primary	6.2	14.1	23.3	0.7	4.1	29.7	0.3	21.7	2,339
Kapedo/Napeitum Wards	Secondary+	14.7	11.2	10.3	1.2	1.7	46.0	0.0	14.9	2,823
Katilia Wards	Total	2.2	2.6	76.6	0.3	1.6	1.1	0.1	15.6	9,546
Katilia Wards	None	1.4	2.5	79.1	0.2	1.6	0.0	0.1	15.0	8,923
Katilia Wards	Primary	7.4	3.8	44.7	0.5	1.6	18.1	-	23.9	447
Katilia Wards	Secondary+	26.1	4.0	27.3	4.0	0.6	14.8	-	23.3	176
Lokori/Kochodin Wards	Total	2.8	13.1	59.1	0.6	8.2	4.2	0.4	11.4	22,003
Lokori/Kochodin Wards	None	1.6	14.0	63.9	0.4	8.4	0.0	0.5	11.2	17,106
Lokori/Kochodin Wards	Primary	2.2	9.9	47.3	0.7	10.2	17.4	0.1	12.1	2,993
Lokori/Kochodin Wards	Secondary+	14.4	10.6	35.2	2.6	3.6	21.4	-	12.2	1,904

Table 43.4: Employment and Education Levels in Male Headed Household by County, Constituency and Wards

County, Constituency and Wards	Education Level reached	Work for Pay	Family Business	Family Agricultural holding	Internal/ Volunteer	Retired/ 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
Turkana	Total	6.0	17.2	50.8	1.5	6.2	3.6	0.5	14.3	283,106

Turkana	None	3.4	17.7	56.3	1.4	6.2	0.1	0.5	14.4	236,678
Turkana	Primary	11.4	16.2	27.5	1.7	7.5	20.7	0.6	14.4	28,842
Turkana	Secondary+	32.1	12.4	14.3	2.4	3.5	22.6	0.2	12.6	17,586
Turkana North Constituency	Total	4.5	19.0	50.8	1.0	6.0	2.0	0.6	16.1	49,292
Turkana North Constituency	None	2.7	19.4	53.8	0.8	6.1	0.1	0.6	16.4	44,768
Turkana North Constituency	Primary	11.8	17.6	24.9	1.9	5.4	23.0	0.5	14.8	3,169
Turkana North Constituency	Secondary+	44.9	10.3	11.4	3.2	2.2	17.8	0.1	10.0	1,355
Kaeris Ward	Total	4.0	30.4	39.9	0.5	5.7	0.7	1.9	16.8	7,497
Kaeris Ward	None	3.1	30.7	41.1	0.4	6.1	0.0	2.1	16.6	6,941
Kaeris Ward	Primary	7.4	29.7	27.8	0.5	1.6	9.0	0.5	23.4	367
Kaeris Ward	Secondary+	31.7	19.0	21.2	2.1	1.1	11.6	-	13.2	189
Lakezone Ward	Total	6.3	21.6	46.5	2.0	5.0	4.5	0.8	13.3	11,535
Lakezone Ward	None	4.4	22.8	51.0	1.8	5.2	0.2	0.9	13.6	9,789
Lakezone Ward	Primary	8.5	17.1	25.1	1.8	4.2	29.3	0.8	13.3	1,252
Lakezone Ward	Secondary+	36.4	10.5	11.7	4.7	3.2	27.5	-	5.9	494
Lapur Ward	Total	3.8	25.1	46.4	0.5	10.9	2.5	0.1	10.6	7,535
Lapur Ward	None	1.4	26.5	49.7	0.3	11.0	0.1	0.1	10.9	6,851
Lapur Ward	Primary	16.7	14.7	17.4	2.5	13.8	30.0	0.2	4.7	443
Lapur Ward	Secondary+	47.3	5.0	7.9	2.5	2.1	20.3	0.4	14.5	241
Kaaleng/Kaikor Ward	Total	2.9	21.6	55.6	0.6	3.6	0.5	0.1	15.1	9,051
Kaaleng/Kaikor Ward	None	1.6	21.8	57.2	0.6	3.6	0.0	0.1	15.1	8,633
Kaaleng/Kaikor Ward	Primary	14.0	22.0	31.8	1.1	1.9	12.1	-	17.0	264
Kaaleng/Kaikor Ward	Secondary+	58.4	9.1	9.7	0.6	1.3	10.4	-	10.4	154
Kibish Ward	Total	2.5	1.2	75.4	0.3	7.4	0.6	0.1	12.3	8,069
Kibish Ward	None	0.6	1.0	77.5	0.3	7.6	0.1	0.1	12.8	7,673
Kibish Ward	Primary	10.5	7.0	56.6	1.3	3.5	17.5	0.9	2.6	228
Kibish Ward	Secondary+	81.0	1.8	8.3	1.8	1.8	3.6	0.6	1.2	168
Nakalale Ward	Total	7.9	11.8	36.8	1.7	3.4	2.5	0.1	35.8	5,605
Nakalale Ward	None	6.3	11.0	40.4	1.5	3.1	0.0	0.1	37.6	4,881
Nakalale Ward	Primary	17.4	15.8	13.7	2.9	6.2	20.3	-	23.7	615
Nakalale Ward	Secondary+	26.6	21.1	7.3	6.4	1.8	11.0	-	25.7	109

Turkana West Constituency	Total	6.0	13.3	45.6	2.4	8.6	2.1	0.6	21.4	72,230
Turkana West Constituency	None	3.5	13.2	49.7	2.4	8.9	0.0	0.6	21.7	64,121
Turkana West Constituency	Primary	14.9	14.1	15.2	2.6	7.8	21.8	1.4	22.1	5,071
Turkana West Constituency	Secondary+	44.9	14.1	7.7	2.8	3.1	13.1	0.3	13.9	3,038
Kakuma Ward	Total	9.4	18.5	13.8	1.6	11.2	6.7	1.3	37.4	11,594
Kakuma Ward	None	4.9	20.5	16.1	1.6	12.5	0.1	1.6	42.7	8,287
Kakuma Ward	Primary	13.2	13.3	9.3	1.7	9.8	25.8	0.7	26.4	2,217
Kakuma Ward	Secondary+	35.8	14.4	5.2	1.9	4.4	18.4	0.2	19.6	1,090
Lopur Ward	Total	12.3	17.7	13.8	4.2	7.1	2.3	0.8	41.8	4,677
Lopur Ward	None	8.6	18.7	14.9	4.5	7.6	0.1	0.9	44.8	4,129
Lopur Ward	Primary	12.8	12.0	9.4	3.4	6.0	25.9	0.4	30.1	266
Lopur Ward	Secondary+	66.3	9.2	1.8	0.7	1.8	12.1	-	8.2	282
Letea Ward	Total	1.5	17.0	63.8	0.6	6.2	0.1	0.3	10.3	17,833
Letea Ward	None	1.5	17.0	63.9	0.6	6.3	0.0	0.3	10.3	17,665
Letea Ward	Primary	1.4	14.7	51.0	1.4	3.5	12.6	-	15.4	143
Letea Ward	Secondary+	12.0	52.0	12.0	-	-	12.0	-	12.0	25
Songot Ward	Total	1.0	21.2	62.5	0.2	5.7	0.8	0.0	8.6	6,198
Songot Ward	None	0.7	21.5	63.0	0.2	5.8	0.0	0.0	8.8	5,992
Songot Ward	Primary	4.7	14.2	46.2	0.6	3.0	26.6	-	4.7	169
Songot Ward	Secondary+	29.7	5.4	54.1	-	2.7	5.4	-	2.7	37
Kalobeyei Ward	Total	1.8	6.5	48.7	1.0	2.3	1.1	0.2	38.4	5,736
Kalobeyei Ward	None	1.1	6.3	49.2	1.0	2.4	-	0.2	39.9	5,477
Kalobeyei Ward	Primary	8.3	10.3	45.1	1.5	1.5	25.0	1.0	7.4	204
Kalobeyei Ward	Secondary+	56.4	9.1	12.7	-	-	18.2	-	3.6	55
Lokichogio Ward	Total	18.2	13.6	18.9	8.2	5.9	3.9	1.7	29.4	10,548
Lokichogio Ward	None	11.3	12.3	23.4	9.9	6.3	0.1	1.6	35.1	7,408
Lokichogio Ward	Primary	21.7	18.1	9.1	4.5	7.1	16.9	3.2	19.4	1,708
Lokichogio Ward	Secondary+	50.3	15.1	7.6	4.1	2.4	8.4	0.5	11.6	1,432
Nanaam Ward	Total	1.9	2.9	68.0	1.9	15.1	0.6	0.0	9.6	15,644
Nanaam Ward	None	1.6	2.8	69.0	1.9	15.4	-	0.0	9.3	15,163

Nanaam Ward	Primary	8.5	4.1	39.3	1.4	8.0	17.6	-	21.2	364
Nanaam Ward	Secondary+	19.7	6.8	29.1	3.4	5.1	23.9	-	12.0	117
Turkana Central Constituency	Total	11.7	21.6	32.1	2.4	8.8	6.8	0.5	16.0	39,501
Turkana Central Constituency	None	5.2	23.3	41.8	2.5	9.4	0.2	0.4	17.2	26,236
Turkana Central Constituency	Primary	15.3	21.0	17.0	2.0	9.9	19.8	0.6	14.3	8,019
Turkana Central Constituency	Secondary+	38.6	14.1	6.7	2.5	4.7	20.1	0.5	12.9	5,246
Kerio Delta Ward	Total	1.5	14.4	67.3	0.7	1.9	0.9	0.1	13.3	10,100
Kerio Delta Ward	None	1.0	14.5	67.9	0.6	1.9	0.1	0.1	13.9	9,277
Kerio Delta Ward	Primary	3.4	14.3	62.9	1.0	1.5	9.1	0.1	7.7	715
Kerio Delta Ward	Secondary+	29.6	9.3	39.8	-	-	14.8	-	6.5	108
Kangatotha Ward	Total	6.0	30.1	32.9	5.5	12.9	1.7	0.2	10.7	6,721
Kangatotha Ward	None	4.8	29.6	34.6	6.1	13.6	0.2	0.3	10.8	5,699
Kangatotha Ward	Primary	7.4	37.1	26.2	1.3	10.3	9.7	-	8.0	842
Kangatotha Ward	Secondary+	35.0	13.3	12.8	4.4	3.9	12.8	-	17.8	180
Kalokol Ward	Total	8.3	29.6	28.9	0.9	10.0	6.2	0.5	15.6	5,963
Kalokol Ward	None	4.1	29.7	35.6	0.6	11.4	0.1	0.6	18.0	4,331
Kalokol Ward	Primary	15.3	32.2	12.0	1.5	8.0	22.1	0.3	8.4	1,232
Kalokol Ward	Secondary+	33.0	21.3	8.3	1.5	1.3	23.0	-	11.8	400
Lodwar Township Ward	Total	24.6	21.0	11.0	3.0	8.0	14.6	0.7	17.1	10,263
Lodwar Township Ward	None	15.8	29.0	16.9	4.1	10.3	0.4	1.0	22.4	3,626
Lodwar Township Ward	Primary	19.4	17.7	10.2	2.5	9.2	23.6	0.6	16.9	3,463
Lodwar Township Ward	Secondary+	40.3	15.3	5.3	2.4	4.3	21.1	0.3	11.1	3,174
Kanamkemer Ward	Total	16.3	17.7	12.7	2.4	15.6	9.5	1.0	24.7	6,454
Kanamkemer Ward	None	7.7	22.6	16.5	2.3	19.2	0.2	0.7	30.9	3,303
Kanamkemer Ward	Primary	16.0	14.8	10.9	2.3	15.6	20.0	1.5	19.1	1,767
Kanamkemer Ward	Secondary+	37.4	9.8	6.1	3.0	7.1	18.2	1.2	17.3	1,384
Loima Constituency	Total	3.0	21.2	67.4	1.0	1.0	0.6	0.3	5.4	38,627
Loima Constituency	None	2.4	21.2	69.0	0.9	1.0	0.0	0.2	5.2	36,524
Loima Constituency	Primary	7.2	23.8	43.9	1.9	1.5	12.1	0.3	9.2	1,549
Loima Constituency	Secondary+	31.2	13.9	32.5	3.2	0.4	8.5	0.2	10.1	554
Kotaruk/Lobei Ward	Total	1.6	15.7	79.1	0.7	0.9	0.4	0.1	1.5	9,648

Kotaruk/Lobei Ward	None	1.4	15.9	79.9	0.7	0.8	0.0	0.1	1.3	9,351
Kotaruk/Lobei Ward	Primary	7.0	12.3	59.0	-	2.2	12.8	0.4	6.2	227
Kotaruk/Lobei Ward	Secondary+	15.7	10.0	41.4	7.1	1.4	12.9	1.4	10.0	70
Turkwel Ward	Total	6.0	23.1	54.3	1.9	2.1	1.3	0.5	10.9	14,237
Turkwel Ward	None	5.2	22.9	56.6	1.8	2.1	0.1	0.5	10.7	12,938
Turkwel Ward	Primary	6.6	27.6	35.0	2.7	1.7	13.9	0.4	12.2	1,003
Turkwel Ward	Secondary+	35.8	16.6	21.6	2.7	0.3	10.5	-	12.5	296
Loima Ward	Total	1.2	24.9	69.6	0.4	0.2	0.3	0.0	3.4	7,360
Loima Ward	None	0.7	25.3	70.2	0.3	0.2	-	0.0	3.4	7,099
Loima Ward	Primary	7.6	20.0	57.6	1.8	0.6	8.8	-	3.5	170
Loima Ward	Secondary+	30.8	9.9	42.9	5.5	-	4.4	-	6.6	91
Lokirama/Lorengippi Ward	Total	0.9	21.0	75.4	0.2	0.2	0.1	0.1	2.1	7,382
Lokirama/Lorengippi Ward	None	0.4	21.1	75.9	0.2	0.2	-	0.1	2.1	7,136
Lokirama/Lorengippi Ward	Primary	11.4	20.1	65.1	-	-	2.7	-	0.7	149
Lokirama/Lorengippi Ward	Secondary+	28.9	12.4	49.5	-	-	3.1	-	6.2	97
Turkana South Constituency	Total	5.6	18.0	57.2	1.2	4.1	4.6	0.4	8.9	48,653
Turkana South Constituency	None	3.3	19.7	62.9	1.1	3.6	0.0	0.4	8.8	38,599
Turkana South Constituency	Primary	9.3	12.4	40.7	1.2	7.2	20.9	0.3	8.2	6,709
Turkana South Constituency	Secondary+	24.5	9.9	23.6	2.0	4.7	23.8	0.0	11.4	3,345
Kaputir Ward	Total	6.0	4.0	74.7	0.6	3.7	3.3	0.3	7.4	5,459
Kaputir Ward	None	2.3	3.7	83.4	0.5	1.2	-	0.5	8.4	3,326
Kaputir Ward	Primary	5.3	4.6	72.1	0.4	7.6	5.9	0.1	4.0	1,403
Kaputir Ward	Secondary+	24.2	4.1	40.0	1.6	7.5	13.0	-	9.5	730
Katilu Ward	Total	3.2	6.6	75.9	1.1	5.0	4.9	0.3	2.9	14,791
Katilu Ward	None	2.3	5.6	84.2	1.1	4.2	0.0	0.4	2.2	11,693
Katilu Ward	Primary	4.4	11.4	48.2	1.4	8.3	22.0	0.3	4.1	2,272
Katilu Ward	Secondary+	13.8	7.5	34.9	1.1	6.4	27.7	-	8.6	826
Lobokat Ward	Total	24.3	18.0	20.9	1.2	9.3	12.2	0.4	13.8	3,506
Lobokat Ward	None	22.6	22.6	26.3	1.2	8.4	0.1	0.7	18.1	1,778
Lobokat Ward	Primary	23.0	13.6	16.9	0.9	11.8	22.9	0.1	10.8	1,200
Lobokat Ward	Secondary+	33.0	12.3	11.6	1.9	6.4	28.6	-	6.3	528

Kalapata Ward	Total	1.7	52.4	33.1	1.0	3.1	1.5	0.2	7.1	8,832
Kalapata Ward	None	1.5	53.3	33.8	1.0	3.2	0.0	0.2	6.9	8,300
Kalapata Ward	Primary	2.8	38.0	23.8	1.5	1.0	24.3	0.3	8.4	395
Kalapata Ward	Secondary+	10.2	34.3	16.1	2.2	-	22.6	-	14.6	137
Lokichar Ward	Total	5.8	14.5	55.1	1.5	3.0	4.7	0.6	14.8	16,065
Lokichar Ward	None	3.1	14.9	62.2	1.4	3.2	0.1	0.6	14.5	13,502
Lokichar Ward	Primary	11.1	13.4	22.6	1.9	2.8	31.3	0.6	16.3	1,439
Lokichar Ward	Secondary+	30.3	11.4	11.4	2.8	1.4	25.7	0.1	16.8	1,124
Turkana East Constituency	Total	5.2	12.2	55.4	0.6	6.7	6.9	0.5	12.5	34,803
Turkana East Constituency	None	3.6	12.4	63.9	0.4	7.4	0.0	0.6	11.7	26,430
Turkana East Constituency	Primary	4.6	12.0	36.7	0.7	7.0	22.1	0.1	16.8	4,325
Turkana East Constituency	Secondary+	16.2	11.4	19.8	1.7	2.1	35.5	0.0	13.3	4,048
Kapedo/Napeitom Ward	Total	10.0	15.8	35.2	0.7	7.8	15.2	0.7	14.6	11,105
Kapedo/Napeitom Ward	None	9.2	17.6	47.5	0.6	11.0	0.0	1.1	13.0	6,787
Kapedo/Napeitom Ward	Primary	6.1	14.6	23.3	0.7	4.1	29.8	0.2	21.0	1,906
Kapedo/Napeitom Ward	Secondary+	15.3	11.4	10.2	1.1	1.5	46.5	0.0	13.9	2,412
Katilia Ward	Total	2.3	2.5	78.5	0.3	1.5	0.7	0.1	14.1	7,102
Katilia Ward	None	1.4	2.3	81.1	0.2	1.6	0.0	0.1	13.3	6,676
Katilia Ward	Primary	9.9	4.8	43.8	0.7	1.4	12.0	-	27.4	292
Katilia Ward	Secondary+	29.1	5.2	23.1	3.7	0.7	11.9	-	26.1	134
Lokori/Kochodin Ward	Total	3.2	14.0	59.0	0.6	8.3	4.0	0.4	10.5	16,596
Lokori/Kochodin Ward	None	1.8	14.9	63.7	0.3	8.5	0.0	0.6	10.3	12,967
Lokori/Kochodin Ward	Primary	2.5	10.7	47.6	0.8	10.2	16.6	0.1	11.5	2,127
Lokori/Kochodin Ward	Secondary+	16.3	11.8	35.0	2.5	3.3	20.0	-	11.1	1,502

Table 43.5: Employment and Education Levels in Female Headed Households by County, Constituency and Wards

County, Constituency and Wards	Education Level reached	Work for Pay	Family Business	Family Agricultural holding	Internal/ Volunteer	Retired/ Homemaker	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
Turkana	Total	4.7	16.3	48.8	1.5	7.3	4.8	.5	16.1	139322
Turkana	None	3.5	17.1	53.6	1.5	7.3	.1	.5	16.3	116495
Turkana	Primary	6.9	13.4	27.0	1.6	8.0	28.0	.6	14.5	15984
Turkana	Secondary+	20.6	9.8	16.7	2.1	5.2	30.2	.3	15.2	6843
Turkana North Constituency	Total	3.5	17.6	48.6	1.2	8.4	3.9	.4	16.3	25340
Turkana North Constituency	None	3.0	18.3	51.8	1.2	8.7	.2	.4	16.5	22623
Turkana North Constituency	Primary	5.1	12.9	24.0	1.4	7.1	34.3	.5	14.7	2181
Turkana North Constituency	Secondary+	19.6	6.9	13.4	2.1	3.0	39.0	.2	15.9	536
Kaeris Ward	Total	3.9	28.9	41.1	.4	4.1	2.0	.3	19.2	3604
Kaeris Ward	None	3.6	29.8	42.4	.4	4.3	0.0	.3	19.2	3288
Kaeris Ward	Primary	4.7	20.9	32.8	.4	2.4	17.4	.8	20.6	253
Kaeris Ward	Secondary+	12.7	14.3	11.1	1.6	0.0	46.0	0.0	14.3	63
Lakezone Ward	Total	5.2	16.3	44.7	2.6	9.3	7.4	1.0	13.5	5298
Lakezone Ward	None	4.7	17.7	49.1	2.8	10.1	.3	1.2	14.1	4413
Lakezone Ward	Primary	4.2	9.6	25.9	1.6	6.7	40.2	.1	11.6	687
Lakezone Ward	Secondary+	18.7	7.1	12.1	2.0	2.0	50.5	0.0	7.6	198
Lapur Ward	Total	3.0	23.1	38.7	.7	19.0	7.1	.2	8.2	4105
Lapur Ward	None	2.1	25.3	43.6	.6	19.8	.2	.3	8.2	3465
Lapur Ward	Primary	5.4	12.9	13.1	1.3	16.3	45.3	.2	5.6	521
Lapur Ward	Secondary+	20.2	4.2	5.9	1.7	6.7	41.2	0.0	20.2	119
Kaaleng/Kaikor Ward	Total	2.3	18.5	52.5	.7	4.9	1.9	.1	19.2	6805
Kaaleng/Kaikor Ward	None	1.9	18.9	54.7	.7	5.1	.1	.0	18.5	6357
Kaaleng/Kaikor Ward	Primary	4.8	13.8	22.5	1.1	1.1	27.8	.6	28.4	356
Kaaleng/Kaikor Ward	Secondary+	22.8	5.4	18.5	0.0	3.3	20.7	0.0	29.3	92
Kibish Ward	Total	1.8	1.7	77.1	.4	11.7	1.3	.5	5.6	2948
Kibish Ward	None	1.3	1.4	78.6	.4	12.2	.2	.3	5.7	2784
Kibish Ward	Primary	5.9	7.4	54.4	.7	2.9	20.6	3.7	4.4	136
Kibish Ward	Secondary+	28.6	3.6	39.3	0.0	3.6	21.4	3.6	0.0	28
Nakalale Ward	Total	5.8	11.5	40.2	2.2	1.5	2.8	.5	35.5	2580

Nakalale Ward	None	5.4	11.1	42.8	2.1	1.3	.1	.5	36.8	2316
Nakalale Ward	Primary	7.9	16.2	18.0	2.6	3.9	28.5	0.0	22.8	228
Nakalale Ward	Secondary+	19.4	8.3	16.7	11.1	0.0	16.7	0.0	27.8	36
Turkana West Constituency	Total	5.4	11.9	43.1	2.3	9.3	3.0	.5	24.6	36259
Turkana West Constituency	None	4.2	12.0	46.1	2.3	9.7	.1	.5	25.1	32548
Turkana West Constituency	Primary	8.6	10.3	18.8	2.7	6.3	31.1	.9	21.2	2575
Turkana West Constituency	Secondary+	32.2	12.3	10.5	1.4	4.3	21.6	.2	17.5	1136
Kakuma Ward	Total	7.2	15.3	15.3	1.9	11.5	8.4	1.2	39.1	7092
Kakuma Ward	None	5.6	16.8	16.8	2.1	13.3	.3	1.3	43.7	5384
Kakuma Ward	Primary	6.7	10.6	11.7	1.7	6.5	36.1	.9	25.7	1194
Kakuma Ward	Secondary+	25.1	10.5	7.4	1.0	4.1	29.6	.2	22.2	514
Lopur Ward	Total	11.8	20.4	17.5	5.2	5.7	2.2	.7	36.5	3366
Lopur Ward	None	9.7	21.3	18.3	5.6	5.7	.2	.8	38.3	3047
Lopur Ward	Primary	11.6	14.7	12.1	1.6	8.4	26.3	0.0	25.3	190
Lopur Ward	Secondary+	62.0	7.0	5.4	.8	2.3	14.0	0.0	8.5	129
Letea Ward	Total	1.2	11.1	64.2	.8	9.2	.1	.3	13.2	7152
Letea Ward	None	1.1	11.2	64.3	.8	9.2	.0	.3	13.0	7049
Letea Ward	Primary	2.2	2.2	54.9	0.0	8.8	2.2	0.0	29.7	91
Letea Ward	Secondary+	25.0	0.0	41.7	0.0	0.0	25.0	0.0	8.3	12
Songot Ward	Total	1.6	14.3	67.0	.3	6.1	.6	.0	10.1	3337
Songot Ward	None	1.6	14.3	67.3	.3	6.1	.0	.0	10.3	3252
Songot Ward	Primary	1.4	8.7	55.1	0.0	10.1	24.6	0.0	0.0	69
Songot Ward	Secondary+	6.3	25.0	50.0	6.3	0.0	12.5	0.0	0.0	16
Kalobeyei Ward	Total	1.5	6.1	47.3	1.3	3.4	1.7	.3	38.5	4932
Kalobeyei Ward	None	1.4	6.0	47.8	1.4	3.5	0.0	.2	39.8	4739
Kalobeyei Ward	Primary	3.6	6.6	36.1	0.0	2.4	43.4	1.2	6.6	166
Kalobeyei Ward	Secondary+	3.7	22.2	25.9	0.0	0.0	48.1	0.0	0.0	27
Lokichogio Ward	Total	16.0	17.3	26.4	7.0	4.8	5.6	1.0	21.8	4346
Lokichogio Ward	None	13.8	18.4	30.8	7.6	4.5	.0	1.1	23.8	3300
Lokichogio Ward	Primary	15.5	12.4	13.5	6.8	5.4	29.1	1.4	15.9	646
Lokichogio Ward	Secondary+	35.5	16.5	11.3	2.3	5.5	14.0	.3	14.8	400
Nanaam Ward	Total	2.3	3.5	60.3	1.4	18.4	.7	.0	13.2	6034
Nanaam Ward	None	2.0	3.5	61.3	1.4	19.0	0.0	.1	12.7	5777
Nanaam Ward	Primary	5.0	5.0	39.7	1.4	6.4	19.2	0.0	23.3	219
Nanaam Ward	Secondary+	26.3	2.6	23.7	0.0	7.9	2.6	0.0	36.8	38
Turkana Central Constituency	Total	7.9	20.9	29.4	2.3	11.1	9.6	.8	18.0	24226
Turkana Central Constituency	None	5.3	23.4	36.9	2.4	11.9	.2	.8	19.1	16443
Turkana Central Constituency	Primary	9.3	17.5	16.3	1.9	10.6	28.4	.8	15.2	5284
Turkana Central Constituency	Secondary+	22.8	11.8	7.5	2.4	6.6	31.9	.5	16.5	2499
Kerio Delta Ward	Total	2.1	16.4	60.4	1.1	2.5	1.5	.1	16.0	5470
Kerio Delta Ward	None	1.8	16.6	60.8	1.1	2.6	.1	.1	17.0	5039
Kerio Delta Ward	Primary	1.6	14.7	58.3	1.3	.8	18.6	0.0	4.7	381
Kerio Delta Ward	Secondary+	36.0	14.0	36.0	0.0	0.0	14.0	0.0	0.0	50
Kangatotha Ward	Total	5.4	20.6	36.2	4.4	17.7	2.7	.5	12.5	3568

Kangatotha Ward	None	4.3	20.4	37.9	4.8	19.3	.3	.6	12.5	3030
Kangatotha Ward	Primary	5.4	24.2	30.5	1.6	10.5	16.6	0.0	11.2	429
Kangatotha Ward	Secondary+	35.8	11.9	10.1	5.5	2.8	15.6	0.0	18.3	109
Kalokol Ward	Total	5.5	30.5	26.2	1.2	10.3	9.7	.8	15.7	3785
Kalokol Ward	None	4.1	32.8	31.4	1.1	11.1	.1	1.0	18.4	2766
Kalokol Ward	Primary	8.4	25.3	13.6	1.4	9.2	34.7	.5	7.0	802
Kalokol Ward	Secondary+	13.8	19.8	6.9	1.8	4.1	40.1	0.0	13.4	217
Lodwar Township Ward	Total	15.0	20.0	13.6	2.9	9.0	17.7	1.1	20.6	6566
Lodwar Township Ward	None	12.7	27.2	18.5	3.7	12.1	.2	1.8	23.7	2896
Lodwar Township Ward	Primary	12.4	15.2	11.3	2.3	7.7	30.9	.6	19.6	2291
Lodwar Township Ward	Secondary+	24.4	13.1	7.2	2.4	4.5	32.4	.3	15.8	1379
Kanamkemer Ward	Total	8.7	20.1	13.0	2.1	19.4	12.8	1.3	22.6	4837
Kanamkemer Ward	None	6.0	26.0	16.5	2.1	21.6	.4	1.1	26.4	2712
Kanamkemer Ward	Primary	8.0	15.5	9.9	1.9	18.9	26.9	2.0	17.0	1381
Kanamkemer Ward	Secondary+	19.9	6.9	5.9	2.4	12.4	32.0	1.1	19.5	744
Loima Constituency	Total	2.2	20.1	68.0	.8	1.3	1.2	.3	6.1	23296
Loima Constituency	None	1.9	20.0	69.8	.8	1.2	.1	.3	5.8	21845
Loima Constituency	Primary	4.1	23.6	41.9	.3	1.9	18.7	.6	8.9	1137
Loima Constituency	Secondary+	17.5	15.3	37.9	1.0	1.3	15.0	.3	11.8	314
Kotaruk/Lobei Ward	Total	1.7	12.4	82.0	.7	1.4	.4	.1	1.4	5768
Kotaruk/Lobei Ward	None	1.4	12.3	82.8	.8	1.3	.0	.1	1.3	5588
Kotaruk/Lobei Ward	Primary	8.4	14.5	59.5	0.0	2.3	12.2	.8	2.3	131
Kotaruk/Lobei Ward	Secondary+	10.2	16.3	53.1	0.0	0.0	12.2	0.0	8.2	49
Turkwel Ward	Total	3.8	25.0	52.6	1.2	2.2	2.7	.7	11.8	9071
Turkwel Ward	None	3.4	25.0	55.4	1.3	2.2	.1	.7	11.8	8082
Turkwel Ward	Primary	3.1	27.5	31.2	.2	2.4	23.8	.7	11.1	804
Turkwel Ward	Secondary+	21.6	16.8	22.7	1.6	2.2	22.2	.5	12.4	185
Loima Ward	Total	.8	23.1	69.8	.3	.2	.1	.1	5.6	4130
Loima Ward	None	.7	23.4	69.9	.3	.2	0.0	.1	5.4	3968
Loima Ward	Primary	3.5	13.9	72.2	.9	0.0	2.6	0.0	7.0	115
Loima Ward	Secondary+	8.5	14.9	61.7	0.0	0.0	0.0	0.0	14.9	47
Lokirama/Lorengipi Ward	Total	1.1	17.3	80.0	.2	.3	.1	.2	.8	4327
Lokirama/Lorengipi Ward	None	.8	17.5	80.3	.2	.3	0.0	.2	.7	4207
Lokirama/Lorengipi Ward	Primary	8.0	13.8	73.6	0.0	0.0	3.4	0.0	1.1	87
Lokirama/Lorengipi Ward	Secondary+	18.2	6.1	66.7	0.0	0.0	0.0	0.0	9.1	33
Turkana South Constituency	Total	5.1	16.6	56.1	1.0	4.8	6.8	.3	9.3	20125
Turkana South Constituency	None	4.0	19.6	61.9	.9	3.9	.1	.4	9.3	15269
Turkana South Constituency	Primary	5.7	8.1	41.8	1.1	8.2	26.1	.2	8.8	3353
Turkana South Constituency	Secondary+	15.2	5.6	29.5	1.9	6.1	31.5	.1	10.0	1503
Kaputir Ward	Total	2.5	4.2	81.5	.6	4.0	2.8	.3	4.2	2326
Kaputir Ward	None	1.1	4.5	87.6	.8	1.5	.1	.5	4.1	1310

Kaputir Ward	Primary	1.9	3.5	79.8	.1	6.3	4.0	.1	4.2	734
Kaputir Ward	Secondary+	11.0	4.3	57.4	.7	9.6	12.4	0.0	4.6	282
Katilu Ward	Total	4.0	5.7	70.8	1.0	6.5	8.1	.5	3.4	5719
Katilu Ward	None	3.1	6.0	81.0	1.1	5.5	.1	.6	2.8	4260
Katilu Ward	Primary	3.3	5.4	43.8	.6	10.5	31.2	.3	5.0	1071
Katilu Ward	Secondary+	15.7	3.9	34.0	1.8	6.2	31.4	.5	6.4	388
Lobokat Ward	Total	24.4	11.8	20.1	1.8	10.8	17.5	.5	13.0	1849
Lobokat Ward	None	34.3	16.2	20.8	1.8	8.9	.2	1.1	16.6	811
Lobokat Ward	Primary	14.6	9.6	19.9	2.4	13.7	29.6	.1	10.0	717
Lobokat Ward	Secondary+	21.5	5.6	18.4	.6	9.3	34.0	0.0	10.6	321
Kalapata Ward	Total	1.0	55.4	38.8	.5	2.3	.6	.2	1.1	3307
Kalapata Ward	None	.8	56.2	38.8	.5	2.4	0.0	.3	1.0	3147
Kalapata Ward	Primary	1.8	44.7	32.5	2.6	.9	15.8	0.0	1.8	114
Kalapata Ward	Secondary+	10.9	21.7	54.3	0.0	0.0	4.3	0.0	8.7	46
Lokichar Ward	Total	3.8	12.6	53.3	1.2	3.3	7.1	.2	18.6	6924
Lokichar Ward	None	2.8	13.5	60.2	.9	3.5	.1	.2	18.8	5741
Lokichar Ward	Primary	5.0	9.3	23.2	1.4	2.6	39.5	.1	18.8	717
Lokichar Ward	Secondary+	13.5	6.2	13.9	3.9	2.4	44.2	0.0	15.9	466
Turkana East Constituency	Total	2.8	9.1	56.9	.7	6.9	6.3	.5	16.8	10076
Turkana East Constituency	None	2.0	9.4	63.8	.5	7.2	.0	.6	16.5	7767
Turkana East Constituency	Primary	3.0	8.5	39.5	.7	7.4	23.4	.1	17.4	1454
Turkana East Constituency	Secondary+	9.5	7.6	24.1	2.7	3.5	34.4	0.0	18.2	855
Kapedo/Napeitom Ward	Total	6.6	12.7	35.2	.9	9.8	13.7	1.3	19.8	2229
Kapedo/Napeitom Ward	None	5.6	13.9	46.3	.5	13.6	.1	2.0	18.0	1385
Kapedo/Napeitom Ward	Primary	6.2	11.5	23.1	.9	3.9	29.1	.5	24.7	433
Kapedo/Napeitom Ward	Secondary+	10.7	10.0	10.5	1.9	2.9	43.3	0.0	20.7	411
Katilia Ward	Total	1.7	3.0	71.1	.2	1.6	2.3	.1	19.9	2440
Katilia Ward	None	1.4	3.1	73.4	.2	1.6	.0	.1	20.2	2243
Katilia Ward	Primary	2.6	1.9	46.5	0.0	1.9	29.7	0.0	17.4	155
Katilia Ward	Secondary+	16.7	0.0	40.5	4.8	0.0	23.8	0.0	14.3	42
Lokori/Kochodin Ward	Total	1.7	10.4	59.5	.8	8.1	5.1	.3	14.2	5407
Lokori/Kochodin Ward	None	1.2	11.3	64.5	.6	8.0	.0	.4	14.1	4139
Lokori/Kochodin Ward	Primary	1.5	8.1	46.4	.7	10.2	19.4	0.0	13.7	866
Lokori/Kochodin Ward	Secondary+	7.5	6.0	36.3	3.2	4.5	26.4	0.0	16.2	402

Table 43.6: 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
Turkana County	0.021	1,380	0.009	0.283
Turkana North Constituency	0.004	1,150	0.0013	0.173
Kaeris	0.001	1,050	0.0002	0.136
Lakezone	0.001	1,130	0.0003	0.174
Lapur	0.001	1,230	0.0002	0.197
Kaaleng/Kaikor	0.001	1,120	0.0003	0.154
Kibish	0.001	1,180	0.0002	0.154
Nakalale	0.000	1,260	0.0002	0.202
Turkana West Constituency	0.005	1,550	0.0022	0.331
Kakuma	0.001	2,310	0.0006	0.364
Lopur	0.000	1,060	0.0001	0.242
Letea	0.001	1,120	0.0004	0.163
Songot	0.000	1,140	0.0002	0.148
Kalobeyei	0.000	1,180	0.0002	0.196
Lokichogio	0.001	2,570	0.0005	0.427
Nanaam	0.001	1,240	0.0004	0.166
Turkana Central Constituency	0.003	2,000	0.0020	0.373
Kerio Delta	0.001	1,290	0.0003	0.155
Kangatotha	0.001	1,140	0.0002	0.193
Kalokol	0.001	1,240	0.0002	0.258
Lodwar Township	0.001	3,410	0.0008	0.310
Kanamkemer	0.001	2,660	0.0005	0.373
Loima Constituency	0.003	1,110	0.0010	0.185
Kotaruk/Lobei	0.001	911	0.0002	0.111
Turkwel	0.001	1,210	0.0004	0.209
Loima	0.001	1,070	0.0002	0.170
Lokiriama/Lorengippi	0.001	1,250	0.0002	0.144
Turkana South Constituency	0.004	1,210	0.0013	0.211
Kaputir	0.000	1,180	0.0001	0.207
Katilu	0.001	1,150	0.0004	0.162
Lobokat	0.000	1,480	0.0001	0.266
Kalapata	0.001	1,330	0.0002	0.111
Lokichar	0.001	1,150	0.0004	0.250
Turkana East Constituency	0.002	1,150	0.0008	0.169
Kapedo/Napeitom	0.001	1,150	0.0002	0.203
Katilia	0.001	1,020	0.0002	0.139
Lokori/Kochodin	0.001	1,200	0.0004	0.153

Table 43.7: 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
Turkana County	82.1	14.5	3.3	749,235
Turkana North Constituency	89.1	9.5	1.5	132,181
Kaeris	91.4	7.3	1.3	19,797
Lakezone	82.3	15.5	2.3	30,953
Lapur	87.5	10.7	1.9	20,151
Kaaleng/Kaikor	93.7	5.4	0.9	27,440
Kibish	94.9	4.1	0.9	19,989
Nakalale	85.9	13.0	1.1	13,851
Turkana West Constituency	89.2	8.5	2.3	182,679
Kakuma	72.1	22.5	5.4	30,373
Lopur	91.4	5.6	3.0	13,521
Letea	98.7	1.2	0.1	41,288
Songot	96.3	3.3	0.3	16,682
Kalobeyei	94.6	4.9	0.5	17,226
Lokichogio	73.0	19.3	7.7	24,280
Nanaam	96.4	3.2	0.4	39,309
Turkana Central Constituency	67.5	25.7	6.8	116,083
Kerio Delta	89.2	10.3	0.5	30,831
Kangatotha	83.7	14.8	1.5	20,126
Kalokol	72.3	24.1	3.7	17,022
Lodwar Township	41.0	42.7	16.3	28,318
Kanamkemer	51.3	37.7	11.0	19,786
Loima Constituency	93.0	6.2	0.8	110,296
Kotaruk/Lobei	96.6	3.0	0.4	29,245
Turkwel	87.9	10.9	1.2	42,593
Loima	95.5	3.7	0.8	18,599
Lokirama/Lorengippi	96.5	2.9	0.7	19,859
Turkana South Constituency	75.3	20.7	4.0	123,812
Kaputir	53.1	39.4	7.5	13,840
Katilu	75.0	21.8	3.2	38,358
Lobokat	44.1	46.4	9.5	9,021
Kalapata	91.0	8.2	0.9	21,943
Lokichar	81.6	14.4	4.0	40,650
Turkana East Constituency	71.7	22.3	6.1	84,184
Kapedo/Napeitom	55.4	32.2	12.4	23,671
Katilia	91.1	7.9	1.0	19,574
Lokori/Kochodin	71.7	23.4	4.8	40,939

Table 43.8: 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
Turkana County	80.5	15.3	4.2	388,905		83.9	13.7	2.4	360,330
Turkana North Constituency	87.7	10.2	2.1	70,236		90.7	8.6	0.7	61,945
Kaeris	90.2	8.1	1.8	10,857		92.8	6.4	0.8	8,940
Lakezone	80.5	16.3	3.2	16,468		84.3	14.5	1.2	14,485
Lapur	86.4	10.9	2.7	10,698		88.8	10.4	0.9	9,453
Kaaleng/Kaikor	92.4	6.3	1.3	14,545		95.1	4.5	0.4	12,895
Kibish	94.1	4.3	1.6	10,480		95.9	3.9	0.3	9,509
Nakalale	83.2	15.1	1.7	7,188		88.9	10.7	0.4	6,663
Turkana West Constituency	87.7	9.3	3.0	95,546		90.9	7.5	1.6	87,133
Kakuma	67.9	25.1	7.0	15,582		76.6	19.7	3.7	14,791
Lopur	88.8	6.9	4.4	6,862		94.0	4.3	1.7	6,659
Letea	98.5	1.4	0.1	21,640		98.9	1.0	0.1	19,648
Songot	95.6	4.0	0.4	8,878		97.1	2.6	0.2	7,804
Kalobeyei	93.6	5.6	0.7	8,887		95.6	4.2	0.2	8,339
Lokichogio	70.0	20.1	9.9	12,672		76.3	18.4	5.4	11,608
Nanaam	95.6	3.8	0.6	21,025		97.3	2.5	0.3	18,284
Turkana Central Constituency	63.8	27.5	8.7	56,778		71.1	23.9	4.9	59,305
Kerio Delta	87.5	11.7	0.8	15,467		90.9	9.0	0.2	15,364
Kangatotha	80.6	17.1	2.4	9,956		86.8	12.5	0.7	10,170
Kalokol	66.8	27.9	5.4	8,216		77.4	20.6	2.1	8,806
Lodwar Township	35.2	44.4	20.5	13,812		46.6	41.1	12.3	14,506
Kanamkemer	46.3	39.5	14.2	9,327		55.8	36.0	8.2	10,459
Loima Constituency	92.3	6.6	1.1	55,132		93.8	5.7	0.5	55,164
Kotaruk/Lobei	96.3	3.1	0.5	15,055		96.9	2.9	0.3	14,190
Turkwel	86.3	12.1	1.7	20,353		89.4	9.9	0.7	22,240
Loima	94.9	4.2	0.9	9,232		96.2	3.3	0.6	9,367

Lokirama/Lorengippi	96.1	3.0	0.9	10,492		96.9	2.7	0.4	9,367
Turkana South Constituency	74.0	21.0	5.0	66,004		76.7	20.4	2.9	57,808
Kaputir	49.8	40.9	9.4	7,565		57.1	37.6	5.3	6,275
Katilu	74.2	21.7	4.0	20,398		75.8	22.0	2.3	17,960
Lobokat	42.1	45.9	12.0	4,998		46.6	47.0	6.5	4,023
Kalapata	90.3	8.5	1.1	11,546		91.7	7.7	0.6	10,397
Lokichar	81.0	14.3	4.7	21,497		82.3	14.5	3.2	19,153
Turkana East Constituency	70.3	22.7	7.0	45,209		73.2	21.8	5.0	38,975
Kapedo/Napeitom	53.8	32.5	13.7	13,054		57.5	31.8	10.8	10,617
Katilia	90.5	8.4	1.2	10,595		91.9	7.3	0.7	8,979
Lokori/Kochodin	70.5	23.7	5.8	21,560		73.1	23.1	3.8	19,379

Table 43.9: Cooking Fuel by County, Constituency and Wards

County/Constituency/Wards	Electricity	Paraffin	LPG	Biogas	Firewood	Charcoal	Solar	Other	Households
Kenya	0.8	11.7	5.1	0.7	64.4	17.0	0.1	0.3	8,493,380
Rural	0.2	1.4	0.6	0.3	90.3	7.1	0.1	0.1	5,239,879
Urban	1.8	28.3	12.3	1.4	22.7	32.8	0.0	0.6	3,253,501
Turkana County	0.3	0.5	0.1	0.1	87.0	11.4	0.1	0.4	106,554
Turkana North Constituency	0.0	0.0	0.0	0.1	94.6	4.9	0.1	0.3	19,299
Kaeris	0.0	0.1	-	0.0	96.4	3.3	-	0.0	2,315
Lakezone	0.1	0.0	-	0.1	95.7	3.5	0.2	0.4	5,272
Lapur	-	0.1	0.1	0.0	93.6	5.9	0.1	0.1	3,149
Kaaleng/Kaikor	0.0	-	0.0	0.1	95.9	3.4	0.1	0.4	3,599
Kibish	-	-	-	0.1	96.7	3.1	-	-	2,731
Nakalale	-	-	0.0	0.1	86.8	12.7	0.0	0.3	2,233
Turkana West Constituency	0.7	1.3	0.1	0.1	84.4	12.5	0.1	0.8	21,353
Kakuma	0.1	1.0	0.1	0.1	71.4	26.1	0.1	1.2	3,884
Lopur	7.3	1.0	0.2	-	84.0	7.3	-	0.2	1,723
Letea	-	0.0	0.1	0.0	97.6	0.8	-	1.4	3,909
Songot	0.1	-	0.1	0.5	97.8	1.2	-	0.4	1,903
Kalobeyei	-	0.0	0.1	-	96.3	3.3	0.1	0.2	2,553

Lokichogio	0.5	5.9	0.4	0.2	54.4	37.4	0.2	0.9	3,630
Nanaam	0.1	0.0	0.0	0.2	98.2	1.0	0.1	0.4	3,751
Turkana Central Constituency	0.4	0.9	0.3	0.2	71.1	26.4	0.1	0.6	21,781
Kerio Delta	-	0.0	0.1	0.1	96.8	2.3	0.0	0.7	4,618
Kangatotha	0.1	0.2	-	0.0	95.5	4.0	0.1	0.2	3,505
Kalokol	-	0.5	0.1	0.1	83.4	15.6	0.1	0.3	3,365
Lodwar Township	1.0	2.3	0.7	0.4	41.9	52.5	0.2	1.0	6,282
Kanamkemer	0.5	0.8	0.3	0.3	55.5	42.2	0.1	0.2	4,011
Loima Constituency	-	0.0	0.0	0.1	97.0	2.6	0.0	0.3	16,285
Kotaruk/Lobei	-	0.1	0.0	0.2	98.4	1.3	-	0.0	3,973
Turkwel	-	0.0	0.0	0.1	95.6	3.7	0.0	0.5	7,464
Loima	-	-	-	0.1	97.9	1.8	0.1	0.1	2,327
Lokirama/Lorengippi	-	0.1	-	0.0	98.1	1.7	0.0	0.0	2,521
Turkana South Constituency	0.6	0.1	0.1	0.2	88.2	10.6	0.1	0.1	16,872
Kaputir	4.1	0.1	0.3	0.0	87.4	7.9	0.1	0.1	2,199
Katilu	0.0	0.0	0.0	0.0	92.3	7.5	-	0.1	5,322
Lobokat	0.8	0.6	0.4	0.2	75.4	22.2	0.1	0.3	1,405
Kalapata	-	0.0	-	-	97.5	2.2	-	0.2	2,424
Lokichar	0.0	0.1	0.2	0.4	83.7	15.3	0.1	0.2	5,522
Turkana East Constituency	0.0	0.2	0.1	0.1	94.2	5.1	0.1	0.3	10,964
Kapedo/Napeitom	0.1	0.4	0.0	0.1	90.9	7.5	0.2	0.8	3,025
Katilia	-	0.1	0.1	0.1	98.9	0.7	-	0.1	2,715
Lokori/Kochodin	-	0.1	0.1	0.1	93.7	5.9	0.1	0.1	5,224

Table 43.10: 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
Turkana County	0.4	0.6	0.1	0.1	86.0	12.2	0.1	0.4	67,081
Turkana North Constituency	0.0	0.0	0.0	0.1	93.9	5.5	0.1	0.2	12,103
Kaeris	0.0	0.1	0.0	0.1	96.6	3.3	0.0	0.0	1,577
Lakezone	0.1	0.1	0.0	0.1	95.2	4.0	0.2	0.4	3,336
Lapur	0.0	0.1	0.1	0.0	93.1	6.5	0.1	0.1	1,828

Kaaleng/Kaikor	0.1	0.0	0.1	0.1	96.1	3.1	0.1	0.4	1,942
Kibish	0.0	0.0	0.0	0.2	95.7	4.1	0.0	0.0	1,957
Nakalale	0.0	0.0	0.1	0.1	84.0	15.4	0.1	0.4	1,463
Turkana West Constituency	0.9	1.6	0.2	0.2	82.1	14.4	0.1	0.6	13,666
Kakuma	0.2	1.2	0.1	0.2	66.0	31.3	0.0	1.1	2,303
Lopur	9.2	1.0	0.3	0.0	79.3	10.0	0.0	0.2	1,031
Letea	0.0	0.0	0.1	0.0	98.4	0.8	0.0	0.6	2,604
Songot	0.0	0.0	0.0	0.6	97.3	1.6	0.0	0.5	1,199
Kalobeyei	0.0	0.1	0.1	0.0	96.4	3.2	0.1	0.2	1,272
Lokichogio	0.7	6.8	0.5	0.2	50.6	40.3	0.2	0.7	2,555
Nanaam	0.1	0.0	0.0	0.2	97.7	1.3	0.1	0.5	2,702
Turkana Central Constituency	0.5	1.3	0.4	0.2	68.4	28.4	0.1	0.7	12,369
Kerio Delta	0.0	0.0	0.0	0.0	96.9	2.4	0.0	0.6	2,786
Kangatotha	0.0	0.2	0.0	0.0	94.9	4.5	0.1	0.2	2,095
Kalokol	0.0	0.6	0.1	0.1	80.6	18.3	0.1	0.3	1,801
Lodwar Township	1.4	3.4	0.9	0.4	35.0	57.3	0.2	1.5	3,546
Kanamkemer	0.7	1.1	0.7	0.7	50.5	46.1	0.1	0.2	2,141
Loima Constituency	0.0	0.0	0.0	0.1	96.5	3.1	0.0	0.2	9,246
Kotaruk/Lobei	0.0	0.1	0.0	0.1	98.4	1.4	0.0	0.0	2,331
Turkwel	0.0	0.0	0.0	0.1	94.8	4.7	0.0	0.4	4,060
Loima	0.0	0.0	0.0	0.1	97.4	2.2	0.1	0.1	1,358
Lokirama/Lorengippi	0.0	0.1	0.0	0.0	97.4	2.4	0.1	0.1	1,497
Turkana South Constituency	0.8	0.2	0.1	0.1	87.4	11.1	0.1	0.2	11,480
Kaputir	5.1	0.2	0.3	0.1	85.7	8.2	0.2	0.1	1,496
Katilu	0.0	0.1	0.0	0.0	91.4	8.4	0.0	0.1	3,696
Lobokat	1.0	0.9	0.3	0.3	74.4	22.6	0.0	0.4	889
Kalapata	0.0	0.1	0.0	0.0	97.1	2.5	0.0	0.3	1,777
Lokichar	0.1	0.2	0.2	0.3	82.3	16.5	0.2	0.2	3,622
Turkana East Constituency	0.0	0.2	0.1	0.1	93.9	5.4	0.1	0.2	8,217
Kapedo/Napeitom	0.1	0.4	0.0	0.1	90.8	7.8	0.2	0.6	2,455
Katilia	0.0	0.2	0.1	0.2	99.1	0.5	0.0	0.0	1,904
Lokori/Kochodin	0.0	0.1	0.1	0.1	93.3	6.4	0.1	0.1	3,858

Table 43.11: 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
Turkana County	0.2	0.3	0.1	0.1	88.8	10.1	0.1	0.4	39,473
Turkana North Constituency	0.0	0.0	-	0.1	95.7	3.7	0.1	0.3	7,196
Kaeris	0.1	0.3	-	-	96.1	3.4	-	0.1	738
Lakezone	0.1	-	-	0.2	96.6	2.5	0.1	0.5	1,936

Lapur	-	0.1	-	0.1	94.5	5.1	0.1	0.2	1,321
Kaaleng/Kaikor	-	-	-	0.2	95.5	3.7	0.2	0.4	1,657
Kibish	-	-	-	-	99.4	0.6	-	-	774
Nakalale	-	-	-	0.1	92.2	7.5	-	0.1	770
Turkana West Constituency	0.4	0.8	0.1	0.1	88.3	9.2	0.1	1.0	7,687
Kakuma	-	0.6	0.1	0.1	79.3	18.6	0.1	1.3	1,581
Lopur	4.5	1.2	-	-	90.9	3.3	-	0.1	692
Letea	-	0.1	0.1	-	96.2	0.8	-	2.8	1,305
Songot	0.1	-	0.3	0.4	98.6	0.4	-	0.1	704
Kalobeyei	-	-	0.1	-	96.2	3.4	0.1	0.2	1,281
Lokichogio	0.1	3.8	0.3	0.1	63.3	30.5	0.4	1.5	1,075
Nanaam	-	-	-	0.2	99.4	0.3	-	0.1	1,049
Turkana Central Constituency	0.2	0.5	0.1	0.2	74.6	23.9	0.1	0.4	9,412
Kerio Delta	-	-	0.1	0.2	96.6	2.1	-	0.9	1,832
Kangatotha	0.1	0.1	-	0.1	96.4	3.2	-	0.1	1,410
Kalokol	-	0.4	0.1	0.1	86.5	12.5	-	0.3	1,564
Lodwar Township	0.5	1.0	0.4	0.4	50.9	46.3	0.1	0.4	2,736
Kanamkemer	0.2	0.6	-	-	61.2	37.7	0.1	0.2	1,870
Loima Constituency	-	0.1	0.0	0.1	97.6	1.8	-	0.3	7,039
Kotaruk/Lobei	-	0.1	0.1	0.2	98.4	1.3	-	-	1,642
Turkwel	-	0.1	0.1	0.1	96.6	2.6	-	0.6	3,404
Loima	-	-	-	0.1	98.6	1.2	-	0.1	969
Lokirama/Lorengippi	-	0.1	-	0.1	99.0	0.8	-	-	1,024
Turkana South Constituency	0.3	0.0	0.1	0.2	90.0	9.3	0.1	0.1	5,392
Kaputir	1.8	-	0.1	-	90.9	7.1	-	-	703
Katilu	-	-	-	0.1	94.5	5.4	-	0.1	1,626
Lobokat	0.4	-	0.4	-	77.3	21.5	0.4	-	516
Kalapata	-	-	-	-	98.5	1.4	-	0.2	647
Lokichar	-	0.1	0.1	0.4	86.3	12.9	0.1	0.1	1,900
Turkana East Constituency	-	0.1	0.0	0.2	95.2	4.0	0.1	0.4	2,747
Kapedo/Napeitom	-	0.4	-	-	91.6	6.3	0.4	1.4	570

Katilia	-	-	0.1	0.1	98.4	1.1	-	0.2	811
Lokori/Kochodin	-	-	-	0.4	94.7	4.8	0.1	0.1	1,366

Table 43.12: 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
Turkana County	2.2	0.1	8.1	9.2	0.5	76.1	0.8	2.9	67,081
Turkana North Constituency	0.2	0.1	2.7	3.7	0.5	88.3	0.5	4.0	12,103
Kaeris	0.2	0.0	1.0	3.0	0.5	94.9	0.1	0.3	1,577
Lakezone	0.3	0.1	2.0	2.4	0.4	88.2	0.7	6.0	3,336
Lapur	0.1	0.0	4.8	2.8	0.6	87.0	0.9	3.7	1,828
Kaaleng/Kaikor	0.1	0.1	2.1	1.4	0.5	87.7	0.5	7.5	1,942
Kibish	0.1	0.0	2.7	3.3	0.5	92.5	0.1	0.7	1,957
Nakalale	0.1	0.1	4.5	13.5	0.5	78.9	0.4	1.9	1,463
Turkana West Constituency	2.5	0.2	7.2	9.1	0.5	76.3	0.9	3.4	13,666
Kakuma	3.0	0.6	16.4	18.6	0.5	54.1	1.2	5.6	2,303
Lopur	11.3	0.0	2.4	6.0	0.8	74.5	1.0	3.9	1,031
Letea	0.1	0.0	0.1	2.3	0.5	93.8	0.3	3.0	2,604
Songot	0.6	0.0	1.6	0.8	0.4	93.3	0.1	3.2	1,199
Kalobeyei	0.1	0.1	0.5	1.5	0.7	94.4	0.3	2.4	1,272
Lokichogio	5.2	0.4	21.7	23.1	0.4	42.7	2.5	3.9	2,555
Nanaam	0.4	0.0	0.4	3.5	0.5	93.1	0.2	1.9	2,702
Turkana Central Constituency	7.1	0.2	16.1	14.5	0.5	56.2	1.4	4.1	12,369
Kerio Delta	0.0	0.0	1.3	1.0	0.3	91.1	0.1	6.1	2,786
Kangatotha	0.1	0.0	6.1	4.1	0.3	84.8	0.3	4.3	2,095
Kalokol	0.1	0.1	13.1	11.0	0.9	68.2	1.0	5.6	1,801
Lodwar Township	18.9	0.4	26.4	27.1	0.4	20.5	2.6	3.7	3,546
Kanamkemer	8.7	0.3	28.2	22.2	0.6	36.6	2.1	1.2	2,141
Loima Constituency	0.0	0.1	1.8	1.8	0.6	93.2	0.3	2.2	9,246
Kotaruk/Lobei	0.0	0.0	1.6	0.7	0.7	96.3	0.2	0.5	2,331
Turkwel	0.0	0.2	2.9	3.1	0.6	88.9	0.3	4.1	4,060
Loima	0.0	0.0	0.1	1.3	0.7	96.9	0.4	0.6	1,358
Lokirama/Lorengippi	0.0	0.0	0.5	0.3	0.6	98.1	0.0	0.6	1,497
Turkana South Constituency	1.2	0.1	10.4	14.2	0.6	71.6	0.8	1.2	11,480
Kaputir	5.4	0.0	10.5	20.6	0.3	62.0	1.0	0.4	1,496
Katilu	0.0	0.1	10.4	9.2	0.8	79.0	0.5	0.2	3,696
Lobokat	5.0	0.3	18.4	53.3	0.7	18.8	0.9	2.7	889
Kalapata	0.0	0.0	1.0	4.2	0.4	90.8	0.0	3.6	1,777
Lokichar	0.1	0.1	12.5	10.8	0.5	73.3	1.5	1.1	3,622
Turkana East Constituency	0.1	0.2	9.8	11.6	0.6	75.7	0.7	1.3	8,217
Kapedo/Napeitom	0.3	0.4	12.5	31.3	0.6	53.2	1.4	0.4	2,455
Katilia	0.0	0.0	1.3	2.0	0.1	95.7	0.0	0.9	1,904
Lokori/Kochodin	0.1	0.2	12.6	5.2	0.9	78.3	0.6	2.1	3,858

Table 43.13: 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
Turkana County	2.5	0.1	8.5	9.3	0.5	75.6	0.9	2.6	67,081
Turkana North Constituency	0.2	0.1	3.0	4.1	0.4	88.1	0.7	3.5	12,103
Kaeris	0.3	0.0	1.0	2.9	0.4	94.9	0.1	0.3	1,577
Lakezone	0.3	0.1	2.0	2.9	0.4	88.1	1.0	5.3	3,336
Lapur	0.1	0.1	4.8	2.1	0.4	88.1	1.3	3.1	1,828
Kaaleng/Kaikor	0.2	0.1	2.0	1.1	0.4	88.2	0.5	7.6	1,942
Kibish	0.1	0.1	3.5	3.0	0.6	91.9	0.2	0.7	1,957
Nakalale	0.1	0.1	5.6	15.9	0.3	75.5	0.6	1.8	1,463
Turkana West Constituency	2.9	0.2	8.1	9.8	0.5	74.5	1.1	2.9	13,666
Kakuma	3.5	0.8	18.7	20.6	0.5	49.6	1.3	5.0	2,303
Lopur	14.2	0.0	3.6	7.7	0.8	68.6	1.6	3.6	1,031
Letea	0.1	0.0	0.1	2.8	0.5	93.7	0.4	2.4	2,604
Songot	0.6	0.0	1.7	1.1	0.3	93.8	0.2	2.4	1,199
Kalobeyei	0.2	0.2	0.6	2.0	0.6	94.8	0.3	1.3	1,272
Lokichogio	5.8	0.5	23.3	23.6	0.3	40.2	3.0	3.4	2,555
Nanaam	0.4	0.0	0.5	2.6	0.5	93.9	0.3	1.9	2,702
Turkana Central Constituency	8.9	0.2	16.0	14.1	0.5	54.8	1.5	4.0	12,369
Kerio Delta	0.0	0.0	1.3	1.3	0.4	91.9	0.1	5.0	2,786
Kangatotha	0.0	0.0	6.6	5.3	0.4	83.5	0.5	3.6	2,095
Kalokol	0.2	0.2	14.7	12.2	0.6	63.9	1.1	7.3	1,801
Lodwar Township	24.4	0.4	26.2	25.7	0.4	16.8	2.8	3.3	3,546
Kanamkemer	10.9	0.4	28.5	21.8	0.7	33.6	2.8	1.3	2,141
Loima Constituency	0.0	0.1	2.0	1.9	0.6	93.1	0.3	2.1	9,246
Kotaruk/Lobei	0.0	0.0	1.4	0.9	0.6	96.4	0.2	0.6	2,331
Turkwel	0.1	0.1	3.4	3.3	0.6	88.3	0.3	3.9	4,060
Loima	0.0	0.0	0.2	1.5	0.6	96.5	0.6	0.6	1,358
Lokirama/Lorengippi	0.0	0.0	0.7	0.3	0.6	97.5	0.1	0.8	1,497
Turkana South Constituency	1.4	0.1	10.5	12.9	0.6	72.6	0.9	1.1	11,480
Kaputir	6.8	0.0	10.8	20.7	0.3	60.1	0.9	0.5	1,496
Katilu	0.0	0.1	10.6	8.4	0.7	79.4	0.5	0.2	3,696
Lobokat	5.5	0.3	20.7	49.4	0.9	18.9	0.9	3.4	889
Kalapata	0.0	0.1	1.2	4.8	0.5	91.1	0.0	2.4	1,777
Lokichar	0.2	0.1	12.5	9.3	0.4	74.9	1.6	1.0	3,622
Turkana East Constituency	0.1	0.2	10.2	12.0	0.6	75.0	0.8	1.1	8,217
Kapedo/Napeitom	0.2	0.4	13.2	31.2	0.6	52.4	1.5	0.4	2,455
Katilia	0.0	0.0	1.1	1.3	0.1	97.0	0.1	0.5	1,904
Lokori/Kochodin	0.1	0.2	12.9	5.0	0.9	78.5	0.6	1.8	3,858

Table 43.14: 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
Turkana County	1.6	0.1	7.6	9.0	0.6	77.0	0.6	3.6	39,473
Turkana North Constituency	0.1	0.1	2.4	3.2	0.6	88.5	0.3	4.8	7,196
Kaeris	0.1	-	1.1	3.1	0.5	95.0	-	0.1	738
Lakezone	0.3	0.1	2.0	1.5	0.4	88.3	0.3	7.2	1,936
Lapur	-	-	4.8	3.7	0.9	85.6	0.4	4.6	1,321
Kaaleng/Kaikor	-	0.1	2.2	1.8	0.7	87.2	0.5	7.5	1,657
Kibish	0.1	-	0.6	4.0	0.4	93.9	0.1	0.8	774
Nakalale	0.1	0.1	2.5	8.8	0.8	85.3	0.1	2.2	770
Turkana West Constituency	1.8	0.1	5.5	7.8	0.6	79.4	0.5	4.4	7,687
Kakuma	2.2	0.4	13.0	15.6	0.4	60.8	1.1	6.5	1,581
Lopur	7.1	-	0.6	3.5	0.9	83.4	0.1	4.5	692
Letea	0.1	-	0.1	1.1	0.5	94.0	0.1	4.1	1,305
Songot	0.6	-	1.6	0.4	0.6	92.5	-	4.4	704
Kalobeyei	0.1	-	0.4	1.0	0.8	94.0	0.2	3.5	1,281
Lokichogio	4.0	0.2	17.9	22.0	0.6	48.7	1.5	5.2	1,075
Nanaam	0.2	-	0.2	6.1	0.4	91.2	0.1	1.8	1,049
Turkana Central Constituency	4.7	0.2	16.2	15.0	0.5	58.0	1.2	4.4	9,412
Kerio Delta	0.1	-	1.4	0.7	0.1	90.0	0.1	7.8	1,832
Kangatotha	0.1	-	5.3	2.3	0.1	86.8	0.1	5.2	1,410
Kalokol	-	0.1	11.3	9.6	1.2	73.1	1.0	3.8	1,564
Lodwar Township	11.8	0.4	26.6	28.8	0.5	25.2	2.4	4.2	2,736
Kanamkemer	6.2	0.2	27.9	22.8	0.5	40.1	1.3	1.1	1,870
Loima Constituency	-	0.1	1.6	1.7	0.6	93.5	0.2	2.3	7,039
Kotaruk/Lobei	-	0.1	1.8	0.4	0.9	96.0	0.3	0.5	1,642
Turkwel	-	0.2	2.3	2.9	0.5	89.5	0.2	4.4	3,404
Loima	-	0.1	-	1.0	0.8	97.3	0.2	0.5	969

Lokirama/Lorengippi	-	0.1	0.2	0.2	0.5	98.8	-	0.2	1,024
Turkana South Constituency	0.7	0.1	10.1	16.7	0.6	69.5	0.8	1.5	5,392
Kaputir	2.4	-	10.0	20.2	0.1	66.0	1.1	0.1	703
Katilu	0.1	-	9.8	10.8	0.8	78.2	0.3	0.1	1,626
Lobokat	4.1	0.2	14.3	60.1	0.4	18.6	0.8	1.6	516
Kalapata	-	-	0.3	2.3	0.2	90.1	-	7.1	647
Lokichar	0.1	0.1	12.5	13.7	0.7	70.3	1.3	1.4	1,900
Turkana East Constituency	0.2	0.1	8.4	10.5	0.6	77.7	0.4	2.1	2,747
Kapedo/Napeitom	0.4	0.2	9.5	31.6	0.5	56.7	0.7	0.5	570
Katilia	-	-	1.8	3.7	0.1	92.6	-	1.7	811
Lokori/Kochodin	0.2	0.1	11.8	5.7	1.0	77.6	0.6	3.0	1,366

Table 43.15: 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
Turkana County	6.9	0.2	1.0	91.4	0.5	106,554
Turkana North Constituency	2.5	0.1	0.5	96.6	0.4	19,299
Kaeris	1.5	0.0	0.4	98.1	-	2,315
Lakezone	2.1	-	0.8	96.9	0.2	5,272
Lapur	4.5	0.0	0.3	94.6	0.6	3,149
Kaaleng/Kaikor	2.0	0.1	0.2	96.9	0.7	3,599
Kibish	3.2	0.1	0.5	95.7	0.5	2,731
Nakalale	1.1	0.1	0.7	97.7	0.4	2,233
Turkana West Constituency	7.2	0.2	1.3	90.3	1.0	21,353
Kakuma	10.7	0.1	0.8	87.8	0.6	3,884
Lopur	9.5	2.0	2.1	84.7	1.7	1,723
Letea	0.1	0.1	3.0	94.9	1.9	3,909
Songot	0.4	-	0.5	98.9	0.2	1,903
Kalobeyei	1.1	-	0.5	96.9	1.5	2,553
Lokichogio	24.6	0.2	1.0	74.0	0.2	3,630
Nanaam	0.8	0.0	0.8	97.6	0.8	3,751
Turkana Central Constituency	16.4	0.2	0.5	82.3	0.6	21,781
Kerio Delta	0.2	0.0	0.4	99.2	0.1	4,618
Kangatotha	0.8	-	0.2	98.7	0.3	3,505
Kalokol	6.7	0.0	0.2	93.0	0.1	3,365
Lodwar Township	37.3	0.4	1.0	60.8	0.4	6,282
Kanamkemer	23.9	0.3	0.3	73.2	2.3	4,011
Loima Constituency	0.8	0.0	1.7	96.8	0.7	16,285
Kotaruk/Lobei	0.5	-	0.7	98.8	0.1	3,973

Turkwel	1.2	-	1.8	95.6	1.4	7,464
Loima	0.7	-	0.9	98.3	0.1	2,327
Lokirama/Lorengippi	0.1	0.1	3.8	95.8	0.3	2,521
Turkana South Constituency	7.2	0.5	0.7	91.4	0.1	16,872
Kaputir	5.4	2.3	1.5	90.6	0.2	2,199
Katilu	2.7	0.1	0.5	96.6	0.1	5,322
Lobokat	22.1	0.6	0.2	76.4	0.6	1,405
Kalapata	0.3	0.0	0.8	98.8	0.1	2,424
Lokichar	11.6	0.2	0.7	87.3	0.1	5,522
Turkana East Constituency	3.7	0.0	1.3	94.8	0.2	10,964
Kapedo/Napeitom	6.2	0.1	0.8	92.5	0.4	3,025
Katilia	0.2	0.0	2.8	96.9	-	2,715
Lokori/Kochodin	4.1	0.0	0.8	95.0	0.1	5,224

Table 43.16: 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
Turkana County	7.7	0.2	1.0	90.7	0.5	67,081	5.6	0.1	0.9	92.7	0.6	39,473
Turkana North Constituency	3.0	0.1	0.5	96.0	0.4	12,103	1.5	0.0	0.5	97.6	0.3	7,196
Kaeris	1.6	0.1	0.3	98.1	-	1,577	1.4	-	0.7	98.0	-	738
Lakezone	2.7	-	0.8	96.4	0.2	3,336	1.2	-	0.9	97.7	0.2	1,936
Lapur	5.6	0.1	0.4	93.3	0.7	1,828	3.1	-	0.2	96.3	0.5	1,321
Kaaleng/Kaikor	2.3	0.2	0.2	96.5	0.8	1,942	1.8	0.1	0.2	97.4	0.6	1,657
Kibish	4.4	0.1	0.7	94.2	0.6	1,957	0.1	0.1	0.1	99.5	0.1	774
Nakalale	1.4	0.2	0.6	97.5	0.3	1,463	0.5	-	0.9	98.2	0.4	770
Turkana West Constituency	8.5	0.2	1.5	89.0	0.8	13,666	4.9	0.2	0.9	92.7	1.3	7,687
Kakuma	12.3	0.1	0.8	86.1	0.6	2,303	8.3	0.1	0.7	90.4	0.6	1,581
Lopur	12.2	2.2	2.5	82.1	1.0	1,031	5.3	1.7	1.4	88.6	2.9	692
Letea	0.1	0.1	3.8	94.7	1.3	2,604	0.2	0.2	1.5	95.2	3.0	1,305
Songot	0.5	-	0.3	98.8	0.3	1,199	0.1	-	0.9	99.0	-	704
Kalobeyei	1.6	-	0.2	96.7	1.5	1,272	0.6	-	0.7	97.2	1.5	1,281
Lokichogio	27.3	0.2	1.0	71.3	0.2	2,555	18.0	0.2	1.0	80.5	0.3	1,075
Nanaam	1.0	0.0	0.9	97.3	0.8	2,702	0.3	-	0.6	98.4	0.8	1,049
Turkana Central Constituency	18.8	0.3	0.4	79.9	0.7	12,369	13.2	0.1	0.6	85.5	0.6	9,412

Kerio Delta	0.1	0.0	0.4	99.3	0.1	2,786	0.4	-	0.4	99.1	0.1	1,832
Kangatotha	1.1	-	0.1	98.6	0.2	2,095	0.4	-	0.3	98.9	0.4	1,410
Kalokol	9.1	-	0.3	90.4	0.1	1,801	3.8	0.1	0.1	95.8	0.2	1,564
Lodwar Township	43.9	0.5	0.8	54.4	0.3	3,546	28.7	0.3	1.3	69.2	0.5	2,736
Kanamkemer	27.0	0.5	0.3	69.5	2.7	2,141	20.3	0.1	0.3	77.5	1.9	1,870
Loima Constituency	1.1	0.0	1.8	96.6	0.6	9,246	0.4	-	1.6	97.1	0.9	7,039
Kotaruk/Lobei	0.5	-	0.7	98.6	0.1	2,331	0.5	-	0.5	99.0	-	1,642
Turkwel	1.7	-	2.2	95.0	1.1	4,060	0.6	-	1.2	96.3	1.8	3,404
Loima	1.2	-	0.7	98.0	0.1	1,358	0.1	-	1.0	98.7	0.2	969
Lokirama/Lorengippi	0.1	0.1	3.1	96.3	0.3	1,497	-	-	4.8	95.0	0.2	1,024
Turkana South Constituency	7.3	0.5	0.7	91.3	0.2	11,480	7.1	0.3	0.8	91.7	0.1	5,392
Kaputir	6.1	2.7	1.8	89.1	0.3	1,496	3.8	1.4	0.7	93.9	0.1	703
Katilu	2.9	0.1	0.5	96.5	0.1	3,696	2.3	0.2	0.4	97.0	0.1	1,626
Lobokat	23.3	0.7	0.2	74.9	0.9	889	20.2	0.4	0.2	79.1	0.2	516
Kalapata	0.2	-	0.7	99.0	0.1	1,777	0.5	0.2	1.2	98.0	0.2	647
Lokichar	11.9	0.3	0.6	87.1	0.1	3,622	11.1	0.1	1.1	87.7	0.1	1,900
Turkana East Constituency	4.1	0.0	1.1	94.5	0.2	8,217	2.5	0.0	1.9	95.5	0.0	2,747
Kapedo/Napeitom	6.4	0.0	0.7	92.3	0.5	2,455	5.6	0.2	1.1	93.2	-	570
Katilia	0.3	0.1	2.0	97.7	-	1,904	0.1	-	4.8	95.1	-	811
Lokori/Kochodin	4.6	0.0	0.8	94.3	0.2	3,858	2.6	-	0.6	96.8	0.1	1,366

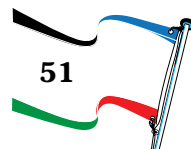
Table 43.17: Main Roofing Material by County Constituency and Wards

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
Turkana County	12.3	0.4	0.0	0.9	34.9	36.6	1.1	0.2	13.7	106,554
Turkana North Constituency	4.2	0.2	0.0	0.2	59.8	12.3	5.2	0.2	17.8	19,299
Kaeris	3.0	0.2	0.0	0.7	77.2	14.8	2.3	0.2	1.6	2,315
Lakezone	3.4	0.2	0.0	0.1	47.2	14.7	3.5	0.0	30.9	5,272
Lapur	5.9	0.2	0.0	0.2	38.2	6.2	17.1	1.0	31.2	3,149
Kaaleng/Kaikor	3.8	0.2	0.0	0.1	83.7	3.4	2.9	0.0	5.9	3,599
Kibish	3.1	0.5	0.0	0.4	88.1	6.9	0.6	0.0	0.4	2,731
Nakalale	6.8	0.2	0.0	0.1	29.2	33.4	4.8	0.0	25.5	2,233
Turkana West Constituency	13.7	0.7	0.0	1.2	60.2	14.1	0.4	0.1	9.6	21,353

Kakuma	25.9	0.6	0.0	2.3	52.2	5.6	1.1	0.2	12.0	3,884
Lopur	15.8	0.2	0.1	5.7	35.1	2.4	0.5	0.0	40.2	1,723
Letea	0.1	1.1	0.0	0.5	69.7	26.0	0.3	0.0	2.4	3,909
Songot	1.6	0.2	0.0	0.6	81.2	4.6	0.0	0.2	11.7	1,903
Kalobeyei	1.8	0.1	0.0	0.1	63.7	31.7	0.1	0.0	2.5	2,553
Lokichogio	42.0	0.2	0.0	0.7	39.5	15.7	0.2	0.2	1.4	3,630
Nanaam	1.1	1.9	0.0	0.1	77.4	7.0	0.1	0.0	12.4	3,751
Turkana Central Constituency	24.5	0.2	0.0	1.6	8.5	54.7	0.1	0.1	10.4	21,781
Kerio Delta	0.8	0.1	0.0	0.0	25.2	63.0	0.0	0.1	10.7	4,618
Kangatotha	0.9	0.1	0.0	0.2	3.8	94.4	0.0	0.0	0.7	3,505
Kalokol	10.2	0.1	0.0	2.1	2.9	49.6	0.1	0.1	35.0	3,365
Lodwar Township	54.4	0.2	0.0	3.0	3.1	33.3	0.1	0.1	5.6	6,282
Kanamkemer	37.4	0.3	0.2	1.9	6.7	48.0	0.0	0.1	5.4	4,011
Loima Constituency	1.5	0.3	0.0	0.1	14.9	53.4	0.4	0.1	29.3	16,285
Kotaruk/Lobei	0.9	0.3	0.0	0.1	12.4	72.5	0.1	0.1	13.7	3,973
Turkwel	2.4	0.2	0.0	0.1	13.4	55.1	0.7	0.0	28.1	7,464
Loima	1.2	0.2	0.0	0.1	20.0	26.9	0.0	0.3	51.2	2,327
Lokirama/Lorengippi	0.3	0.8	0.2	0.0	18.7	42.6	0.2	0.1	37.1	2,521
Turkana South Constituency	17.9	0.5	0.0	1.5	38.9	36.1	0.2	0.1	4.8	16,872
Kaputir	22.6	2.7	0.0	3.0	66.8	4.6	0.0	0.0	0.1	2,199
Katilu	12.9	0.2	0.0	0.3	54.3	28.5	0.2	0.1	3.6	5,322
Lobokat	59.4	0.5	0.1	7.7	30.2	0.6	0.0	0.1	1.5	1,405
Kalapata	0.3	0.1	0.0	0.0	2.0	97.5	0.0	0.0	0.0	2,424
Lokichar	18.1	0.2	0.0	1.1	31.2	37.9	0.5	0.1	10.8	5,522
Turkana East Constituency	6.7	0.2	0.2	0.5	17.1	63.6	0.1	0.7	11.0	10,964
Kapedo/Napeitom	9.0	0.2	0.4	1.5	31.4	55.5	0.3	0.7	1.1	3,025
Katilia	0.6	0.1	0.0	0.0	10.4	87.8	0.0	0.2	0.9	2,715
Lokori/Kochodin	8.5	0.2	0.2	0.2	12.4	55.6	0.0	0.9	22.1	5,224

Table 43.18: Main Roofing Material in Male Headed Households by County, Constituency and Ward

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
Turkana County	12.9	0.4	0.0	0.9	36.1	36.0	0.9	0.2	12.6	67,081
Turkana North Constituency	4.7	0.2	0.0	0.2	63.2	12.0	3.9	0.1	15.6	12,103
Kaeris	3.4	0.3	-	0.4	81.4	11.8	1.6	0.2	0.9	1,577
Lakezone	3.8	0.1	-	0.2	50.3	14.5	3.2	0.0	27.8	3,336
Lapur	6.3	0.2	0.1	0.2	48.2	4.6	11.3	0.5	28.7	1,828
Kaaleng/Kaikor	3.8	0.3	-	0.1	86.2	3.7	2.2	-	3.8	1,942
Kibish	3.9	0.5	-	0.4	86.5	7.3	0.8	-	0.6	1,957



Nakalale	8.3	0.1	0.1	0.1	30.4	33.5	4.8	-	22.7	1,463
Turkana West Constituency	15.6	0.8	0.0	1.0	59.7	13.7	0.4	0.1	8.7	13,666
Kakuma	30.1	0.7	-	1.8	49.4	5.3	1.1	0.1	11.5	2,303
Lopur	20.0	0.4	0.1	5.3	35.9	3.1	0.5	-	34.7	1,031
Letea	-	1.0	-	0.2	67.4	28.5	0.4	-	2.5	2,604
Songot	2.0	0.1	-	0.8	81.5	5.5	-	0.1	10.1	1,199
Kalobeyei	2.4	0.2	-	0.1	62.5	32.5	0.1	-	2.3	1,272
Lokichogio	44.9	0.2	0.0	0.9	39.1	13.4	0.3	0.2	1.1	2,555
Nanaam	1.3	2.1	0.0	0.1	78.7	5.6	0.1	-	12.0	2,702
Turkana Central Constituency	26.4	0.2	0.0	1.7	9.0	52.9	0.0	0.1	9.6	12,369
Kerio Delta	0.7	0.1	-	0.0	26.9	61.7	0.0	0.0	10.4	2,786
Kangattha	1.1	0.0	-	0.2	3.8	94.0	-	-	0.8	2,095
Kalokol	12.0	0.1	-	2.7	2.4	48.2	0.1	0.1	34.4	1,801
Lodwar Township	60.4	0.3	0.1	3.0	2.5	29.4	0.1	0.1	4.2	3,546
Kanamkemer	40.3	0.2	0.2	2.3	7.1	44.1	0.1	0.2	5.5	2,141
Loima Constituency	1.7	0.3	0.1	0.1	15.9	52.1	0.3	0.1	29.4	9,246
Kotaruk/Lobei	0.9	0.2	-	0.1	14.2	72.0	0.1	0.1	12.4	2,331
Turkwel	2.8	0.3	0.0	0.1	14.6	52.6	0.6	0.0	29.0	4,060
Loima	1.5	0.1	-	0.1	21.6	24.1	-	0.1	52.5	1,358
Lokirama/Lorengippi	0.5	0.9	0.3	0.1	16.6	45.3	0.1	0.1	36.1	1,497
Turkana South Constituency	17.2	0.6	0.0	1.4	38.0	37.5	0.3	0.1	4.9	11,480
Kaputir	22.8	3.3	-	3.7	64.7	5.3	0.1	0.1	0.1	1,496
Katilu	12.3	0.3	0.1	0.3	52.5	30.7	0.3	0.1	3.5	3,696
Lobokat	57.5	0.4	-	6.7	32.2	0.9	-	0.1	2.1	889
Kalapata	0.2	0.1	-	0.1	2.5	97.1	-	-	-	1,777
Lokichar	18.5	0.2	0.0	1.0	30.9	37.4	0.5	0.1	11.3	3,622
Turkana East Constituency	6.9	0.2	0.1	0.5	17.8	62.5	0.1	0.8	11.1	8,217
Kapedo/Napeitom	8.7	0.2	0.3	1.5	31.2	56.0	0.3	0.7	1.1	2,455
Katilia	0.6	0.1	-	0.1	12.0	86.2	-	0.2	0.9	1,904
Lokori/Kochodin	8.8	0.2	0.1	0.2	12.1	55.0	0.1	1.1	22.4	3,858

Table 43.19: Main Roofing Material in Female Headed Households by County, Constituency and Wards

County/Constituency/Wards	Corrugated Iron Sheets	Tiles	Concrete	Asbestos sheets	Grass	Makuti	Tin	Mud/Dung	Other	Households
Kenya	74.5	2.0	3.0	2.2	12.7	3.2	0.3	1.2	1.0	2,731,060
Rural	72.5	0.7	0.1	1.8	17.8	3.9	0.3	1.8	1.1	1,826,263
Urban	78.6	4.5	8.7	2.9	2.3	1.6	0.3	0.1	0.9	904,797
Turkana County	11.1	0.3	0.0	0.9	32.7	37.7	1.5	0.2	15.5	39,473
Turkana North Constituency	3.3	0.3	0.0	0.3	54.1	12.6	7.4	0.3	21.6	7,196
Kaeris	2.2	-	-	1.4	68.3	21.1	3.8	0.1	3.1	738
Lakezone	2.6	0.3	-	0.1	41.9	15.0	3.8	0.1	36.2	1,936
Lapur	5.5	0.2	-	0.2	24.3	8.4		1.6	34.7	1,321
Kaaleng/Kaikor	3.8	0.2	0.1	0.2	80.7	3.0	3.7	0.1	8.3	1,657
Kibish	0.9	0.5	-	0.4	92.1	6.1	-	-	-	774
Nakalale	3.9	0.4	-	-	27.0	33.1	4.8	-	30.8	770
Turkana West Constituency	10.2	0.6	-	1.4	61.2	14.8	0.3	0.1	11.3	7,687
Kakuma	19.7	0.6	-	3.2	56.3	5.9	1.1	0.2	12.9	1,581
Lopur	9.5	-	-	6.2	34.0	1.3	0.6	-	48.4	692
Letea	0.2	1.3	-	0.9	74.2	21.2	-	-	2.1	1,305
Songot	1.0	0.4	-	0.3	80.7	3.0	-	0.3	14.3	704
Kalobeyei	1.1	0.1	-	0.1	64.9	31.0	0.1	0.1	2.7	1,281
Lokichogio	35.3	0.3	-	0.3	40.7	21.2	0.1	0.1	2.1	1,075
Nanaam	0.6	1.2	-	-	74.0	10.7	-	-	13.5	1,049
Turkana Central Constituency	22.0	0.2	0.0	1.4	8.0	56.9	0.1	0.1	11.4	9,412
Kerio Delta	0.9	0.2	0.1	-	22.7	64.8	0.1	0.2	11.1	1,832
Kangattha	0.4	0.1	-	0.1	3.8	94.9	0.1	-	0.6	1,410
Kalokol	8.2	0.1	-	1.3	3.5	51.3	0.1	0.1	35.6	1,564
Lodwar Township	46.7	0.1	-	3.0	4.0	38.5	0.1	0.1	7.5	2,736
Kanamkemer	34.1	0.4	0.2	1.4	6.3	52.4	-	0.1	5.2	1,870
Loima Constituency	1.2	0.3	0.0	0.1	13.7	55.1	0.4	0.1	29.2	7,039
Kotaruk/Lobei	0.9	0.4	-	-	10.0	73.3	0.1	-	15.4	1,642
Turkwel	1.9	0.1	-	0.2	11.8	58.1	0.7	0.0	27.1	3,404
Loima	0.7	0.3	0.1	0.1	17.9	30.9	0.1	0.5	49.4	969

Lokirama/Lorengippi	-	0.7	-	-	21.8	38.6	0.2	0.1	38.7	1,024
Turkana South Constituency	19.4	0.3	0.0	1.6	40.8	33.0	0.2	0.1	4.6	5,392
Kaputir	22.2	1.4	-	1.7	71.4	3.3	-	-	-	703
Katilu	14.3	0.2	-	0.2	58.2	23.4	-	0.1	3.6	1,626
Lobokat	62.6	0.6	0.2	9.3	26.9	-	-	-	0.4	516
Kalapata	0.6	-	-	-	0.8	98.6	-	-	-	647
Lokichar	17.4	0.1	0.1	1.1	31.9	38.9	0.5	0.2	9.8	1,900
Turkana East Constituency	6.1	0.1	0.3	0.3	15.1	66.7	0.1	0.3	11.0	2,747
Kapedo/Napeitom	10.4	0.2	0.7	1.2	32.5	53.2	0.4	0.9	0.7	570
Katilia	0.6	0.1	-	-	6.5	91.6	-	0.1	1.0	811
Lokori/Kochodin	7.5	0.1	0.2	0.1	13.0	57.5	-	0.1	21.3	1,366

Table 43.20: 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
Turkana County	0.6	3.5	23.6	3.7	31.0	0.6	27.8	0.9	8.3	106,554
Turkana North Constituency	0.4	1.2	5.3	1.9	31.0	0.8	42.0	4.2	13.1	19,299
Kaeris	0.1	0.7	10.7	3.4	41.9	0.2	39.7	2.2	1.1	2,315
Lakezone	0.1	0.9	1.2	0.9	19.0	0.9	47.4	1.2	28.5	5,272
Lapur	0.7	3.0	3.2	1.8	33.3	1.4	17.9	17.4	21.5	3,149
Kaaleng/Kaikor	0.6	0.8	8.4	1.8	28.0	0.9	56.2	1.7	1.6	3,599
Kibish	1.0	1.4	2.8	1.2	31.8	0.2	60.7	0.0	0.7	2,731
Nakalale	0.2	0.2	11.0	4.1	48.8	0.6	20.1	3.7	11.3	2,233
Turkana West Constituency	0.7	2.9	14.3	3.3	32.1	1.0	38.9	0.3	6.6	21,353
Kakuma	0.6	4.1	41.4	6.5	13.9	1.0	26.4	0.6	5.4	3,884
Lopur	1.5	8.8	6.2	1.6	25.4	0.4	16.4	0.5	39.2	1,723
Letea	0.1	0.7	3.0	0.7	59.2	0.1	34.0	0.2	2.0	3,909
Songot	0.0	0.2	2.0	0.5	38.3	0.2	58.5	0.0	0.4	1,903
Kalobeyei	0.0	0.6	9.4	1.3	49.1	0.1	36.8	0.2	2.5	2,553
Lokichogio	2.9	6.4	24.1	8.8	17.2	4.3	34.8	0.2	1.1	3,630
Nanaam	0.1	0.5	1.7	0.9	25.2	0.1	62.5	0.1	8.9	3,751
Turkana Central Constituency	1.4	10.0	23.5	6.2	13.5	1.0	33.7	0.1	10.7	21,781
Kerio Delta	0.0	0.2	8.2	0.5	13.0	0.1	67.0	0.0	10.8	4,618
Kangatotha	0.0	0.1	2.5	0.6	32.7	0.7	50.8	0.1	12.5	3,505
Kalokol	0.6	1.4	8.0	7.4	16.8	3.1	35.2	0.1	27.4	3,365
Lodwar Township	4.0	24.9	46.3	8.7	5.2	1.1	6.6	0.1	3.0	6,282
Kanamkemer	0.7	13.9	36.7	12.5	7.5	0.7	21.2	0.1	6.8	4,011
Loima Constituency	0.0	0.4	15.5	1.5	55.9	0.2	13.8	0.1	12.7	16,285

Kotaruk/Lobei	0.0	0.1	9.0	0.7	56.8	0.2	27.0	0.1	6.1	3,973
Turkwel	0.1	0.7	20.8	2.6	49.8	0.2	10.7	0.1	15.1	7,464
Loima	0.1	0.2	12.1	0.5	58.2	0.0	5.6	0.1	23.1	2,327
Lokirama/Lorengippi	0.0	0.0	13.1	0.4	70.3	0.2	9.7	0.0	6.3	2,521
Turkana South Constituency	0.4	2.9	46.9	5.1	27.1	0.2	15.0	0.2	2.2	16,872
Kaputir	0.2	3.0	65.8	9.1	6.7	0.1	15.0	0.1	0.1	2,199
Katilu	0.1	1.1	55.1	2.7	23.9	0.0	14.8	0.2	2.1	5,322
Lobokat	0.6	9.8	55.6	20.6	2.6	0.1	9.6	0.0	1.2	1,405
Kalapata	0.0	0.0	41.4	0.5	32.5	0.2	17.1	0.5	7.9	2,424
Lokichar	1.0	4.0	31.6	3.9	42.1	0.4	15.7	0.3	1.0	5,522
Turkana East Constituency	0.4	1.7	50.1	3.6	32.6	0.3	10.0	0.1	1.1	10,964
Kapedo/Napeitom	1.1	3.3	67.2	7.5	16.4	0.3	2.1	0.3	2.0	3,025
Katilia	0.0	0.2	16.5	0.6	59.3	0.2	23.1	0.0	0.1	2,715
Lokori/Kochodin	0.2	1.5	57.8	3.0	28.2	0.4	7.7	0.0	1.1	5,224

Table 43.21: 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
Turkana County	0.7	3.9	24.2	3.7	30.8	0.7	28.1	0.6	7.3	67,081
Turkana North Constituency	0.5	1.5	4.9	1.9	32.1	0.7	44.2	2.8	11.4	12,103
Kaeris	0.1	0.6	10.1	2.4	39.5	0.2	45.2	1.1	0.7	1,577
Lakezone	0.1	1.2	1.2	1.0	20.3	1.0	49.0	1.2	25.0	3,336
Lapur	0.9	3.8	2.5	1.1	41.5	1.2	19.8	10.7	18.4	1,828
Kaaleng/Kaikor	0.4	1.2	6.3	1.7	27.5	0.8	59.0	1.4	1.6	1,942
Kibish	1.4	1.7	2.1	1.6	30.9	0.3	61.0	0.1	1.0	1,957
Nakalale	0.2	0.1	12.6	4.9	46.6	0.6	20.6	4.1	10.3	1,463
Turkana West Constituency	0.9	3.2	14.8	3.4	31.3	1.1	39.4	0.3	5.5	13,666
Kakuma	0.8	4.4	44.6	6.3	13.3	1.1	24.1	0.6	4.9	2,303
Lopur	1.7	11.6	8.1	1.5	24.5	0.5	18.1	0.5	33.4	1,031
Letea	0.1	0.3	3.0	0.4	61.0	0.0	33.8	0.2	1.2	2,604
Songot	-	0.3	2.4	0.5	35.9	0.3	60.3	-	0.3	1,199
Kalobeyei	-	0.8	8.7	1.5	49.5	-	37.3	0.2	2.0	1,272
Lokichogio	3.3	7.1	25.1	9.7	14.0	4.5	35.0	0.3	1.0	2,555

Nanaam	0.1	0.6	1.9	0.9	26.2	0.1	62.1	0.1	7.9	2,702
Turkana Central Constituency	1.7	11.4	22.2	6.0	13.0	1.2	34.3	0.1	10.0	12,369
Kerio Delta	0.1	0.1	8.0	0.4	12.9	0.1	67.8	-	10.5	2,786
Kangatotha	-	0.2	3.0	0.7	29.9	0.8	53.3	0.1	11.9	2,095
Kalokol	0.7	1.9	8.3	7.9	16.5	3.8	33.0	-	27.9	1,801
Lodwar Township	5.1	28.8	43.9	8.5	5.2	1.3	5.4	0.1	1.6	3,546
Kanamkemer	0.8	16.3	35.2	12.5	6.6	0.9	21.3	0.1	6.3	2,141
Loima Constituency	0.1	0.5	15.2	1.7	56.1	0.2	13.8	0.1	12.4	9,246
Kotaruk/Lobei	-	0.0	9.2	0.6	56.2	0.2	27.6	0.1	6.1	2,331
Turkwel	0.1	0.9	20.5	3.0	50.5	0.1	10.0	0.1	14.8	4,060
Loima	0.1	0.3	11.0	0.7	56.3	0.1	7.4	-	24.1	1,358
Lokirama/Lorengippi	0.1	0.1	14.0	0.6	71.4	0.2	8.6	-	5.1	1,497
Turkana South Constituency	0.4	3.1	45.8	5.0	26.8	0.2	16.0	0.2	2.4	11,480
Kaputir	0.2	3.7	64.4	8.6	7.8	0.1	14.9	0.1	0.1	1,496
Katilu	0.1	1.3	53.1	2.6	25.5	0.1	15.2	0.2	2.0	3,696
Lobokat	0.9	10.9	53.3	20.4	2.1	0.1	10.7	-	1.6	889
Kalapata	-	0.1	40.0	0.6	31.0	0.1	19.1	0.2	9.0	1,777
Lokichar	1.0	4.2	31.5	4.4	40.1	0.5	17.1	0.3	0.8	3,622
Turkana East Constituency	0.4	1.9	51.1	3.6	32.3	0.4	9.2	0.1	1.1	8,217
Kapedo/Napeitom	1.1	3.3	68.1	7.6	15.4	0.3	2.2	0.2	1.8	2,455
Katilia	-	0.3	14.5	0.6	61.4	0.2	22.8	0.1	0.1	1,904
Lokori/Kochodin	0.2	1.8	58.2	2.5	28.6	0.5	7.0	0.0	1.2	3,858

Table 43.22: Main Material of the Wall in Female 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	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
Turkana County	0.4	3.0	22.6	3.7	31.3	0.5	27.2	1.3	10.0	39,473
Turkana North Constituency	0.3	0.6	6.1	2.0	29.3	0.8	38.3	6.4	16.1	7,196

Kaeris	-	0.8	11.9	5.6	46.9	0.3	28.0	4.5	2.0	738
Lakezone	0.2	0.4	1.1	0.7	16.7	0.7	44.5	1.2	34.6	1,936
Lapur	0.3	1.7	4.1	2.7	22.0	1.6	15.2	26.6	25.7	1,321
Kaaleng/Kaikor	0.9	0.2	10.7	1.9	28.5	0.9	53.0	2.1	1.7	1,657
Kibish	0.1	0.5	4.5	0.4	34.2	0.1	60.1	-	-	774
Nakalale	0.1	0.3	7.9	2.6	53.0	0.6	19.1	3.0	13.4	770
Turkana West Constituency	0.4	2.2	13.4	3.1	33.5	0.8	37.8	0.3	8.5	7,687
Kakuma	0.3	3.7	36.7	7.0	14.9	0.8	29.9	0.6	6.1	1,581
Lopur	1.0	4.6	3.3	1.9	26.7	0.3	13.9	0.4	47.8	692
Letea	-	1.5	3.1	1.2	55.7	0.1	34.4	0.2	3.8	1,305
Songot	-	-	1.3	0.4	42.3	-	55.4	-	0.6	704
Kalobeyei	-	0.5	10.1	1.0	48.7	0.2	36.3	0.3	2.9	1,281
Lokichogio	2.0	4.7	21.9	6.9	24.9	4.0	34.3	0.1	1.2	1,075
Nanaam	-	0.3	1.0	0.9	22.5	0.1	63.6	0.2	11.4	1,049
Turkana Central Constituency	0.9	8.2	25.2	6.4	14.1	0.8	32.8	0.1	11.5	9,412
Kerio Delta	-	0.3	8.5	0.7	13.2	0.1	65.9	0.1	11.3	1,832
Kangattha	0.1	-	1.6	0.4	36.7	0.5	47.2	0.2	13.3	1,410
Kalokol	0.4	0.9	7.7	6.8	17.2	2.3	37.7	0.2	26.8	1,564
Lodwar Township	2.5	19.9	49.5	8.9	5.2	0.8	8.3	0.1	4.9	2,736
Kanamkemer	0.5	11.1	38.6	12.6	8.4	0.4	21.1	-	7.3	1,870
Loima Constituency	0.0	0.3	15.9	1.3	55.6	0.2	13.7	0.1	13.0	7,039
Kotaruk/Lobei	0.1	0.2	8.8	0.8	57.8	0.2	26.0	0.1	6.1	1,642
Turkwel	0.0	0.5	21.2	2.1	49.0	0.2	11.5	0.0	15.4	3,404
Loima	0.1	0.1	13.5	0.2	61.0	-	3.1	0.3	21.7	969
Lokirama/Lorengippi	-	-	11.7	0.1	68.8	0.2	11.2	-	8.0	1,024
Turkana South Constituency	0.4	2.5	49.2	5.3	27.6	0.1	12.9	0.2	1.7	5,392
Kaputir	0.1	1.7	68.6	10.1	4.4	-	15.1	-	-	703
Katilu	0.1	0.7	59.5	3.0	20.4	-	14.1	0.1	2.2	1,626
Lobokat	0.2	7.8	59.5	20.9	3.3	-	7.8	-	0.6	516
Kalapata	-	-	45.4	0.3	36.5	0.3	11.6	1.1	4.8	647
Lokichar	0.9	3.7	31.7	3.1	45.9	0.3	12.9	0.2	1.3	1,900

Turkana East Constituency	0.4	1.1	47.4	3.8	33.7	0.1	12.2	0.1	1.1	2,747
Kapedo/Napeitom	1.2	3.2	63.2	7.0	20.4	-	1.9	0.4	2.8	570
Katilia	-	-	21.1	0.4	54.5	0.1	23.8	-	0.1	811
Lokori/Kochodin	0.2	0.9	56.4	4.5	27.0	0.2	9.7	-	1.0	1,366

Table 43.23: Source of Water by County, Constituency and Ward

County/Constituency/ Wards	Pond	Dam	Lake	Stream/ River	Unprotect- ed Spring	Unprotect- ed Well	Jabia	Water vendor	Other	Unimproved Sources	Protected Spring	Protected Well	Bore- hole	Piped into Dwelling	Piped	Rain Water Collection	Improved Sources	Number of Individuals
Kenya	2.7	2.4	1.2	232	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	296	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
Turkana County	0.3	0.3	2.5	22.4	4.2	29.8	0.0	1.2	0.3	61.0	1.0	3.1	27.4	1.3	6.2	0.0	39.0	814,953
Turkana North Con- stituency	0.0	0.7	5.5	8.7	12.4	27.0	0.0	0.9	0.3	55.5	2.1	1.3	37.0	0.3	3.6	0.2	44.5	144,055
Kaeris	0.0	0.0	0.0	15.2	0.5	18.0	0.0	0.0	0.0	33.8	0.1	0.6	63.7	0.3	1.6	0.0	66.2	21,332
Lakezone	0.0	0.5	22.9	5.1	2.3	37.2	0.0	0.0	0.0	68.0	0.1	4.1	19.8	0.8	7.2	0.0	32.0	34,232
Lapur	0.1	1.8	0.1	7.5	6.6	48.0	0.0	0.0	0.0	64.2	0.5	0.7	31.4	0.2	3.0	0.0	35.8	21,816
Kaaleng/Kaikor	0.0	0.8	0.0	9.0	13.6	28.4	0.0	0.0	0.3	52.2	0.3	0.3	44.9	0.3	1.4	0.7	47.8	29,827
Kibish	0.0	0.1	0.0	3.8	51.8	1.9	0.0	0.0	0.0	57.6	13.3	0.1	22.8	0.0	6.0	0.1	42.4	21,372
Nakalale	0.0	0.9	0.1	15.7	2.9	19.3	0.0	8.1	2.0	48.9	0.0	0.2	50.7	0.0	0.1	0.0	51.1	15,476
Turkana West Con- stituency	1.1	0.3	0.2	25.0	2.7	38.8	0.0	1.7	0.3	70.1	0.5	3.4	21.9	0.6	3.5	0.0	29.9	196,129
Kakuma	1.7	1.5	0.0	38.7	0.1	38.7	0.0	1.5	0.0	82.3	0.2	0.4	4.3	2.3	10.5	0.0	17.7	33,317
Lopur	0.0	0.2	0.0	18.0	0.4	47.4	0.0	0.0	0.0	66.0	0.3	7.5	19.7	1.4	5.1	0.0	34.0	14,776
Letea	3.3	0.1	0.8	39.0	0.2	37.1	0.0	0.0	0.0	80.4	1.0	4.4	14.3	0.0	0.0	0.0	19.6	43,244
Songot	0.0	0.0	0.0	41.7	1.1	42.8	0.0	0.0	0.0	85.6	0.1	0.2	14.0	0.0	0.1	0.0	14.4	17,584
Kalobeyei	0.2	0.0	0.0	1.2	2.5	64.5	0.0	0.0	0.0	68.4	0.7	0.2	28.7	0.3	1.7	0.0	31.6	18,262
Lokichogio	0.0	0.1	0.1	3.5	1.9	19.4	0.0	10.3	0.0	35.3	0.4	1.0	55.1	0.2	8.0	0.1	64.7	27,059
Nanaam	0.5	0.2	0.0	19.3	9.5	37.3	0.0	0.1	1.3	68.1	0.3	7.6	23.6	0.2	0.1	0.0	31.9	41,887

Turkana Central Constituency	0.1	0.2	7.8	17.5	2.1	22.8	0.0	3.5	0.2	54.2	1.5	4.1	16.5	4.8	18.9	0.0	45.8	130,611
Kerio Delta	0.0	0.0	5.9	22.5	3.9	48.3	0.0	0.0	0.0	80.6	0.2	2.6	15.2	0.0	1.4	0.0	19.4	33,989
Kangarootha	0.0	0.1	28.5	21.9	3.9	16.5	0.0	0.2	0.0	71.1	5.0	6.1	17.8	0.0	0.1	0.0	28.9	22,687
Kalokol	0.1	0.1	8.4	15.9	0.8	37.2	0.0	11.9	0.0	74.4	0.7	1.9	11.4	2.6	8.9	0.0	25.6	19,386
Lodwar Township	0.3	0.6	0.0	13.8	1.0	2.5	0.0	3.7	0.7	22.6	0.8	3.3	14.5	11.3	47.4	0.0	77.4	31,823
Kanankemer	0.1	0.0	0.1	12.6	0.1	7.1	0.0	4.5	0.3	24.8	1.7	7.2	24.3	9.5	32.5	0.0	75.2	22,726
Loima Constituency	0.0	0.1	0.1	32.6	2.3	37.4	0.0	0.0	0.4	72.8	0.3	4.1	21.7	0.2	0.9	0.0	27.2	119,906
Kotarak/Lobei	0.0	0.0	0.0	65.0	0.2	17.6	0.0	0.0	0.0	82.9	0.1	4.6	12.3	0.0	0.0	0.0	17.1	31,622
Turkwel	0.0	0.1	0.0	19.8	1.4	37.6	0.0	0.0	0.9	59.8	0.5	4.6	34.3	0.2	0.7	0.0	40.2	47,392
Loima	0.0	0.0	0.1	12.7	9.1	65.1	0.0	0.0	0.0	86.9	0.0	3.6	6.0	0.6	2.9	0.0	13.1	19,848
Lokirama/Lorengippi	0.0	0.2	0.2	31.6	1.4	40.3	0.0	0.0	0.0	73.7	0.3	2.5	22.2	0.3	1.0	0.0	26.3	21,044
Turkana South Constituency	0.1	0.5	0.0	14.4	1.9	27.2	0.0	0.1	0.0	44.3	1.0	3.9	43.3	1.1	6.6	0.0	55.7	133,972
Kaputir	0.1	0.0	0.0	35.6	0.1	4.8	0.0	0.0	0.0	40.6	0.2	0.1	41.2	3.0	14.8	0.0	59.4	15,068
Katilu	0.1	0.0	0.0	25.3	0.0	16.3	0.0	0.1	0.0	41.7	0.1	2.2	55.9	0.0	0.1	0.0	58.3	41,528
Lobokat	0.1	0.0	0.0	6.4	0.0	14.2	0.1	0.0	0.0	20.8	0.8	3.2	39.6	6.0	29.6	0.1	79.2	9,839
Kalapata	0.0	0.0	0.0	4.3	1.1	52.0	0.0	0.0	0.0	57.5	0.1	2.4	40.0	0.0	0.0	0.0	42.5	23,509
Lokichar	0.1	1.7	0.0	4.1	5.0	34.9	0.0	0.2	0.0	46.1	2.6	7.7	34.6	0.8	8.2	0.0	53.9	44,028
Turkana East Constituency	0.0	0.0	1.6	43.5	3.5	19.0	0.0	0.7	0.6	69.0	0.3	1.3	24.1	1.1	4.1	0.0	31.0	90,280
Kapedo/Napeitom	0.1	0.1	0.2	26.6	2.9	37.4	0.0	1.4	0.0	68.7	1.0	3.7	23.6	1.1	1.9	0.0	31.3	25,274
Katilia	0.0	0.1	6.8	44.5	10.6	21.7	0.0	0.1	0.0	83.7	0.0	0.6	15.5	0.1	0.0	0.0	16.3	20,973
Lokori/Kochodin	0.0	0.0	0.0	52.8	0.4	7.2	0.0	0.6	1.3	62.2	0.1	0.3	28.5	1.6	7.2	0.0	37.8	44,033

Table 43.24: Source of Water of Male headed Household by County Constituency and Ward

County/Constituency/ Wards	Pond	Dam	Lake	Stream/ River	Unprotect- ed Spring	Unprotect- ed Well	Jabia	Water vendor	Other	Unim- proved Sources	Pro- tected Spring	Protect- ed Well	Bore- hole	Piped into Dwelling	Piped	Rain Water Collection	Improved Sources	Number of 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
Turkana County	0.4	0.3	2.6	22.5	4.5	30.1	0.0	1.2	0.3	61.9	0.8	3.2	27.2	1.2	5.6	0.0	38.1	539,905
Turkana North Constituency	0.0	0.8	5.6	8.6	13.6	28.2	-	1.1	0.3	58.3	1.9	1.2	35.0	0.3	3.2	0.1	41.7	94,483
Kaeris	-	-	-	16.7	0.6	19.3	-	-	-	36.7	0.2	0.4	61.0	0.4	1.3	-	63.3	14,650
Lakezone	-	0.6	23.1	4.6	2.4	37.4	-	-	-	68.1	0.1	4.0	21.0	0.7	6.0	-	31.9	22,861
Lapur	0.2	2.2	0.1	8.0	5.0	51.5	-	-	-	67.0	0.4	0.6	28.7	0.3	3.0	-	33.0	13,814
Kaaleng/Kaikor	0.1	0.9	0.0	8.2	15.3	33.3	-	-	0.4	58.1	0.2	0.2	39.6	0.2	1.1	0.6	41.9	17,073
Kibish	-	0.1	-	2.7	56.1	2.4	-	-	-	61.4	10.7	0.2	22.2	0.1	5.2	0.2	38.6	15,428
Nakalale	0.0	1.2	0.1	16.3	2.4	20.0	-	9.4	2.1	51.5	-	0.2	48.1	0.1	0.1	-	48.5	10,657
Turkana West Constituency	1.5	0.2	0.3	24.7	3.1	38.2	0.0	1.7	0.4	70.1	0.4	3.6	21.9	0.6	3.5	0.0	29.9	130,973
Kakuma	2.0	1.1	0.0	35.2	0.2	40.0	-	1.7	-	80.2	0.1	0.2	5.4	2.5	11.6	-	19.8	19,800
Lopur	-	0.3	-	17.4	0.5	42.1	-	-	-	60.3	0.3	8.9	22.4	1.8	6.2	-	39.7	9,115
Letea	4.3	0.0	1.1	38.3	0.2	37.9	-	-	-	81.8	0.6	4.5	13.2	-	-	-	18.2	31,272
Songot	-	-	-	45.0	1.0	41.5	-	-	-	87.5	0.1	0.1	12.3	0.1	-	-	12.5	11,612
Kalobeyei	0.1	-	0.1	0.9	3.0	68.1	-	-	-	72.1	0.6	0.2	25.5	0.3	1.4	-	27.9	9,645
Lokichogio	-	0.0	0.1	3.3	2.4	20.2	0.0	9.3	0.1	35.5	0.5	0.8	55.3	0.2	7.7	-	64.5	19,438
Nanaam	0.6	0.2	-	19.7	10.2	36.8	-	0.1	1.8	69.3	0.4	7.4	22.5	0.2	0.1	0.0	30.7	30,091

Turkana Central Constituency	0.1	0.1	8.8	17.1	2.2	24.0	0.0	3.6	0.2	56.2	1.5	3.8	15.6	4.6	18.3	-	43.8	77,845
Kerio Delta	-	-	7.0	21.5	3.8	49.7	-	-	-	82.0	0.1	2.2	14.4	0.0	1.2	-	18.0	21,732
Kangatotha	-	0.0	30.4	21.9	4.5	16.7	-	0.2	-	73.8	4.4	5.6	16.2	-	0.0	-	26.2	14,198
Kalokol	0.2	0.0	9.3	14.9	0.6	37.8	-	13.8	0.0	76.6	1.0	1.7	9.9	2.5	8.4	-	23.4	11,029
Lodwar Township	0.3	0.6	0.0	12.1	1.0	2.8	0.1	3.5	0.6	21.1	0.9	3.0	14.0	11.3	49.7	-	78.9	18,178
Kanamkemer	0.2	0.0	0.1	13.3	0.1	6.7	-	4.6	0.3	25.4	1.7	7.3	24.0	9.8	31.8	-	74.6	12,708
Loima Constituency	-	0.1	0.0	31.7	2.6	37.4	-	0.0	0.4	72.2	0.3	4.7	21.7	0.4	0.9	-	27.8	73,028
Kotaruk/Lobei	-	-	-	65.6	0.1	14.5	-	0.0	-	80.2	0.1	5.5	14.2	-	-	-	19.8	19,423
Turkwel	-	0.1	0.0	18.1	1.4	39.1	-	-	0.9	59.6	0.5	5.7	33.1	0.3	0.8	-	40.4	28,230
Loima	-	-	-	10.2	10.5	68.4	-	-	-	89.0	-	2.9	5.0	1.0	2.1	-	11.0	12,276
Lokirama/Lorengippi	-	0.3	0.2	31.1	1.5	38.4	-	-	-	71.5	0.2	2.8	23.8	0.4	1.2	-	28.5	13,099
Turkana South Constituency	0.1	0.5	0.0	15.2	1.7	27.8	0.0	0.1	-	45.5	0.7	4.2	43.0	0.9	5.6	0.0	54.5	94,662
Kaputir	0.1	-	-	38.2	0.2	4.7	-	-	-	43.2	0.2	0.1	39.2	3.3	13.9	0.0	56.8	10,501
Katilu	0.1	-	0.0	26.8	0.1	15.5	-	0.1	-	42.6	0.1	2.7	54.5	0.0	0.1	-	57.4	29,961
Lobokat	0.1	-	-	6.8	-	17.0	0.1	0.0	-	24.1	0.7	4.6	40.0	5.0	25.4	0.1	75.9	6,320
Kalapata	-	-	0.1	3.7	1.2	53.3	-	-	-	58.2	0.1	2.1	39.6	-	-	-	41.8	17,599
Lokichar	0.1	1.7	0.0	4.2	4.5	35.4	0.0	0.3	-	46.3	1.8	8.3	35.5	0.7	7.5	-	53.7	30,281
Turkana East Constituency	0.0	0.0	1.8	43.5	3.3	19.3	-	0.7	0.4	69.2	0.4	1.3	24.1	1.3	3.8	0.0	30.8	68,914
Kapedo/Napeitom	0.1	0.0	0.3	26.0	2.9	36.8	-	1.7	0.0	67.8	0.9	3.4	24.8	1.1	2.1	-	32.2	20,715
Katilia	-	0.1	7.6	44.4	10.3	21.1	-	0.1	-	83.7	0.1	0.6	15.4	0.2	0.0	-	16.3	15,226
Lokeri/Kochodin	-	-	-	54.1	0.4	7.5	-	0.4	0.9	63.3	0.1	0.4	27.6	1.8	6.7	0.0	36.7	32,973

Table 43.25: Source of Water of Female headed Household by County Constituency and Ward

County/Constituency/ Wards	Pond	Dam	Lake	Stream/River	Unprotected Spring	Unprotected- ed Well	Jabia	Water vendor	Other	Unimproved Sources	Pro- tected Spring	Pro- tected Well	Bore- hole	Piped into Dwelling	Piped	Rain Water Collection	Improved Sources	Number of Individuals
Kenya	2.8	2.7	1.3	25.2	5.3	7.4	0.3	4.4	0.3	49.7	8.1	7.7	11.3	5.1	17.5	0.7	50.3	11,164,581
Rural	3.4	3.5	1.6	30.6	6.5	8.9	0.3	1.8	0.4	57.0	9.5	8.0	11.5	1.6	11.7	0.8	43.0	8,058,724
Urban	1.0	0.8	0.6	11.1	2.3	3.4	0.2	11.1	0.1	30.5	4.7	7.0	10.5	14.2	32.5	0.6	69.5	3,105,857
Turkana County	0.1	0.4	2.2	22.1	3.6	29.4	-	1.2	0.3	59.3	1.2	2.9	27.9	1.4	7.2	0.0	40.7	275,048
Turkana North Constituency	0.0	0.5	5.2	8.9	10.2	24.7	-	0.5	0.2	50.1	2.6	1.3	40.9	0.3	4.5	0.2	49.9	49,572
Kaeris	0.1	-	-	11.8	0.4	15.0	-	-	-	27.4	-	0.9	69.5	-	2.2	-	72.6	6,682
Lakezone	-	0.5	22.6	6.0	2.0	36.8	-	0.0	-	67.9	0.1	4.2	17.4	0.8	9.6	0.0	32.1	11,371
Lapur	-	1.1	-	6.8	9.5	42.0	-	-	-	59.4	0.5	0.8	36.0	0.1	3.1	-	40.6	8,002
Kaaleng/Kaikor	-	0.6	-	10.2	11.3	22.0	-	0.1	0.1	44.2	0.3	0.4	52.0	0.4	1.8	0.8	55.8	12,754
Kibish	-	0.2	-	6.6	40.4	0.6	-	-	-	47.7	19.9	-	24.1	-	8.3	-	52.3	5,944
Nakalale	-	0.3	-	14.4	4.1	17.8	-	5.1	1.5	43.2	-	0.3	56.5	-	0.1	-	56.8	4,819
Turkana West Constituency	0.4	0.5	0.0	25.5	1.9	40.0	-	1.8	0.0	70.2	0.6	3.0	22.1	0.5	3.5	0.0	29.8	65,156
Kakuma	1.2	2.3	-	43.7	0.1	36.8	-	1.3	-	85.4	0.3	0.5	2.8	2.0	9.0	-	14.6	13,517
Lopur	-	-	-	19.0	0.2	56.0	-	-	-	75.2	0.1	5.2	15.4	0.8	3.3	-	24.8	5,661
Letea	0.5	0.1	0.2	40.8	0.2	34.9	-	-	-	76.8	2.1	4.1	17.1	-	-	-	23.2	11,972

Songot	-	-	-	35.2	1.4	45.4	-	-	-	82.0	0.1	0.5	17.3	-	0.2	-	18.0	5,972
Kalobeyei	0.3	-	-	1.6	1.9	60.4	-	-	-	64.3	0.8	0.3	32.3	0.3	2.0	-	35.7	8,617
Lokichogio	-	0.1	-	4.1	0.5	17.4	-	12.7	-	34.8	0.1	1.5	54.5	0.1	8.7	0.3	65.2	7,621
Nanaam	0.3	0.1	0.1	18.4	7.7	38.4	-	-	0.1	65.0	0.1	8.2	26.5	-	0.2	-	35.0	11,796
Turkana Central Constituency	0.1	0.2	6.2	18.2	1.8	21.0	-	3.4	0.3	51.2	1.6	4.6	17.9	5.0	19.7	0.0	48.8	52,766
Kerio Delta	-	0.0	4.1	24.2	4.0	45.9	-	-	0.0	78.2	0.2	3.4	16.6	-	1.6	-	21.8	12,257
Kangatotha	0.0	0.2	25.3	21.8	3.0	16.3	-	0.1	-	66.6	5.9	7.0	20.4	-	0.2	-	33.4	8,489
Kalokol	0.1	0.1	7.2	17.1	1.1	36.4	-	9.5	-	71.6	0.4	2.2	13.3	2.7	9.7	0.1	28.4	8,357
Lodwar Township	0.3	0.6	0.0	15.9	1.0	2.1	-	4.0	0.8	24.7	0.8	3.8	15.2	11.2	44.4	-	75.3	13,645
Kanamkemer	0.1	-	-	11.7	0.0	7.6	-	4.5	0.3	24.1	1.7	7.0	24.7	9.0	33.4	-	75.9	10,018
Loima Constituency	-	0.0	0.1	34.0	1.9	37.4	-	-	0.4	73.8	0.3	3.1	21.7	0.1	1.0	-	26.2	46,878
Kotarak/Lobei	-	-	0.1	64.1	0.4	22.6	-	-	-	87.2	0.1	3.3	9.4	-	0.0	-	12.8	12,199
Turkwel	-	0.0	0.0	22.4	1.3	35.5	-	-	0.9	60.1	0.5	2.9	36.0	0.0	0.5	-	39.9	19,162
Loima	-	-	0.1	16.7	6.8	59.7	-	-	-	83.3	0.1	4.7	7.6	-	4.3	-	16.7	7,572
Lokirama/Lorengippi	-	-	0.2	32.5	1.2	43.3	-	-	-	77.2	0.5	2.0	19.5	0.2	0.7	-	22.8	7,945
Turkana South Constituency	0.0	0.6	0.0	12.4	2.3	25.8	-	0.1	0.0	41.3	1.6	3.0	44.0	1.4	8.7	-	58.7	39,310
Kaputir	-	-	-	29.5	-	5.1	-	-	-	34.7	0.3	-	45.8	2.3	16.9	-	65.3	4,567
Katilu	-	-	-	21.1	-	18.3	-	0.1	-	39.5	-	0.7	59.7	-	0.1	-	60.5	11,567
Lobokat	-	-	-	5.7	-	9.1	-	-	-	14.8	0.9	0.8	38.8	7.7	37.0	-	85.2	3,519
Kalapata	-	-	-	6.3	0.7	48.4	-	-	-	55.4	-	3.5	41.2	-	-	-	44.6	5,910
Lokichar	0.0	1.7	0.1	3.8	6.2	33.7	-	0.2	0.1	45.6	4.2	6.4	32.8	1.1	9.8	-	54.4	13,747

Turkana East Constituency	-	0.0	1.2	43.5	3.9	18.0	-	0.6	1.3	68.5	0.3	1.3	24.3	0.8	4.8	-	31.5	21,366
Kapedo/Napeitom	-	0.2	-	29.2	3.0	40.1	-	0.2	-	72.8	1.2	5.3	18.4	1.1	1.3	-	27.2	4,559
Katilia	-	-	4.5	44.8	11.4	23.2	-	-	-	83.9	-	0.4	15.7	-	-	-	16.1	5,747
Lokori/Kochodin	-	-	-	48.7	0.4	6.1	-	1.0	2.6	58.8	0.1	0.1	31.2	1.0	8.7	-	41.2	11,060

Table 43.26: 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 Members
Kenya	5.91	2.76	0.27	4.57	47.62	61.14	20.87	0.27	17.58	0.14	38.86	37,919,647
Rural	0.14	0.37	0.08	3.97	48.91	53.47	22.32	0.07	24.01	0.13	46.53	26,075,195
Urban	18.61	8.01	0.70	5.90	44.80	78.02	17.67	0.71	3.42	0.18	21.98	11,844,452
Turkana County	0.10	0.14	0.09	0.72	7.44	8.48	2.84	0.05	88.43	0.20	91.52	814,953
Turkana North Constituency	0.07	0.05	0.01	0.61	2.11	2.85	0.99	0.04	95.97	0.15	97.15	144,055
Kaeris	0.30	0.00	0.00	0.08	1.58	1.95	0.40	0.00	97.48	0.17	98.05	21,332
Lakezone	0.04	0.05	0.02	0.94	3.49	4.55	0.70	0.09	94.45	0.22	95.45	34,232
Lapur	0.00	0.21	0.00	2.04	1.14	3.38	1.32	0.03	95.15	0.11	96.62	21,816
Kaaleng/Kaikor	0.07	0.00	0.02	0.15	2.47	2.71	1.50	0.00	95.65	0.14	97.29	29,827
Kibish	0.00	0.00	0.00	0.00	1.31	1.31	0.78	0.08	97.80	0.02	98.69	21,372
Nakalale	0.00	0.05	0.00	0.32	1.61	1.98	1.26	0.03	96.54	0.19	98.02	15,476
Turkana West Constituency	0.01	0.17	0.28	0.79	6.97	8.20	2.62	0.07	88.76	0.36	91.80	196,129
Kakuma	0.01	0.05	0.56	1.09	12.13	13.84	4.75	0.02	81.31	0.08	86.16	33,317
Lopur	0.00	1.89	2.34	3.15	5.20	12.59	4.16	0.00	80.78	2.47	87.41	14,776
Letea	0.00	0.00	0.00	0.03	0.28	0.31	0.13	0.15	99.24	0.17	99.69	43,244
Songot	0.00	0.00	0.00	0.00	0.67	0.67	0.49	0.06	98.69	0.10	99.33	17,584
Kalobeyei	0.00	0.00	0.00	0.09	0.77	0.85	0.57	0.00	98.54	0.03	99.15	18,262
Lokichogio	0.03	0.07	0.04	2.50	30.49	33.12	8.53	0.04	58.24	0.06	66.88	27,059
Nanaam	0.00	0.02	0.00	0.02	0.53	0.57	0.91	0.09	97.96	0.47	99.43	41,887
Turkana Central Constituency	0.14	0.41	0.10	1.45	14.55	16.65	6.81	0.10	76.17	0.28	83.35	130,611
Kerio Delta	0.00	0.00	0.02	0.05	0.61	0.68	1.98	0.05	97.26	0.03	99.32	33,989
Kangatotha	0.00	0.02	0.00	0.39	0.69	1.10	0.22	0.04	98.62	0.02	98.90	22,687
Kalokol	0.05	0.00	0.06	0.82	5.29	6.22	4.10	0.16	89.44	0.08	93.78	19,386

Lodwar Township	0.53	1.47	0.34	2.46	28.83	33.64	19.75	0.13	45.80	0.68	66.36	31,823
Kanankamer	0.01	0.28	0.00	3.74	37.14	41.18	4.79	0.12	53.40	0.52	58.82	22,726
Loima Constituency	0.00	0.02	0.05	0.23	1.64	1.94	1.77	0.02	96.16	0.12	98.06	119,906
Kotank/Lobei	0.00	0.02	0.00	0.02	0.94	0.97	0.51	0.00	98.41	0.11	99.03	31,622
Turkwel	0.00	0.04	0.07	0.11	1.43	1.66	2.14	0.02	96.03	0.15	98.34	47,392
Loima	0.00	0.00	0.05	0.06	3.12	3.23	0.62	0.00	96.07	0.09	96.77	19,848
Lokirama/Lorengippi	0.00	0.00	0.08	0.96	1.77	2.80	3.93	0.03	93.13	0.10	97.20	21,044
Turkana South Constituency	0.35	0.12	0.01	0.64	9.98	11.10	2.36	0.03	86.41	0.11	88.90	133,972
Kaputir	2.46	0.24	0.00	2.14	12.16	17.00	1.14	0.00	81.86	0.00	83.00	15,068
Katilu	0.00	0.10	0.02	0.40	6.85	7.37	1.79	0.05	90.73	0.07	92.63	41,528
Lobokat	0.17	0.27	0.12	0.63	40.75	41.95	4.28	0.00	53.68	0.09	58.05	9,839
Kalapata	0.00	0.00	0.00	0.00	0.34	0.34	0.18	0.00	99.38	0.09	99.66	23,509
Lokichar	0.18	0.12	0.00	0.69	10.45	11.44	4.06	0.04	84.26	0.19	88.56	44,028
Turkana East Constituency	0.04	0.00	0.00	0.46	10.58	11.08	2.62	0.06	86.16	0.07	88.92	90,280
Kapedo/Napeitom	0.09	0.00	0.00	0.81	18.88	19.78	5.03	0.12	74.84	0.23	80.22	25,274
Katilia	0.00	0.00	0.00	0.00	1.84	1.84	1.22	0.00	96.94	0.00	98.16	20,973
Lokori/Kochodin	0.02	0.00	0.00	0.47	9.99	10.49	1.90	0.06	87.53	0.02	89.51	44,033

Table 43.27: Human Waste Disposal in Male Headed household by County, Constituency and Ward

County/ Constituency/wards	Main Sewer	Septic Tank	Cess Pool	VIP Latrine	Pit Latrine	Improved Sanitation	Pit Latrine Uncovered	Bucket	Bush	Other	Unimproved Sanitation	Number of HH Members
Kenya	6.30	2.98	0.29	4.60	47.65	61.81	20.65	0.28	17.12	0.14	38.19	26,755,066
Rural	0.15	0.40	0.08	3.97	49.08	53.68	22.22	0.07	23.91	0.12	46.32	18,016,471
Urban	18.98	8.29	0.73	5.89	44.69	78.58	17.41	0.70	3.13	0.18	21.42	8,738,595
Turkana County	0.12	0.15	0.10	0.74	7.56	8.66	2.89	0.05	88.21	0.18	91.34	539,905
Turkana North Constituency	0.09	0.05	0.01	0.52	2.17	2.84	0.99	0.05	96.01	0.11	97.16	94,483
Kaeris	0.44	0.00	0.00	0.12	1.71	2.27	0.42	0.00	97.32	0.00	97.73	14,650
Lakezone	0.01	0.03	0.03	1.05	3.70	4.83	0.68	0.08	94.16	0.25	95.17	22,861
Lapur	0.00	0.23	0.00	1.34	1.47	3.04	1.32	0.05	95.47	0.12	96.96	13,814
Kaaleng/kaikor	0.12	0.00	0.00	0.14	1.74	2.00	1.55	0.00	96.40	0.05	98.00	17,073
Kibish	0.00	0.00	0.00	0.00	1.61	1.61	0.73	0.12	97.54	0.00	98.39	15,428
Nakalale	0.00	0.08	0.00	0.23	1.90	2.20	1.52	0.04	96.00	0.24	97.80	10,657
Turkana West Constituency	0.01	0.20	0.31	0.91	7.45	8.89	2.82	0.06	87.91	0.31	91.11	130,973

Kakuma	0.01	0.05	0.71	1.19	13.76	15.72	5.20	0.04	78.91	0.13	84.28	19,800
Lopur	0.00	2.41	2.96	4.71	7.22	17.30	5.58	0.00	75.46	1.66	82.70	9,115
Letea	0.00	0.00	0.00	0.04	0.18	0.22	0.17	0.14	99.33	0.13	99.78	31,272
Songot	0.00	0.00	0.00	0.00	0.78	0.78	0.59	0.09	98.38	0.16	99.22	11,612
Kalobeyei	0.00	0.00	0.00	0.10	0.90	1.01	0.63	0.00	98.36	0.00	98.99	9,645
Lokichogio	0.04	0.10	0.00	2.58	30.60	33.33	9.17	0.06	57.41	0.04	66.67	19,438
Nanaam	0.00	0.03	0.00	0.02	0.65	0.70	0.65	0.04	98.06	0.55	99.30	30,091
Turkana Central Constituency	0.16	0.48	0.11	1.55	14.45	16.75	7.09	0.10	75.80	0.27	83.25	77,845
Kerio Delta	0.00	0.00	0.03	0.04	0.77	0.84	1.99	0.04	97.11	0.02	99.16	21,732
Kangathotha	0.01	0.03	0.00	0.56	0.71	1.30	0.25	0.06	98.39	0.00	98.70	14,198
Kalokol	0.09	0.00	0.05	1.03	5.83	7.01	4.35	0.22	88.34	0.08	92.99	11,029
Lodwar Township	0.63	1.72	0.38	2.43	31.13	36.29	21.32	0.07	41.63	0.69	63.71	18,178
Kanankemer	0.02	0.42	0.00	4.43	36.85	41.72	5.45	0.16	52.09	0.57	58.28	12,708
Loima Constituency	0.00	0.02	0.03	0.21	1.78	2.05	1.99	0.01	95.86	0.09	97.95	73,028
Kotarak/Lobei	0.00	0.03	0.00	0.00	0.99	1.01	0.60	0.00	98.32	0.06	98.99	19,423
Turkwel	0.00	0.04	0.00	0.08	1.57	1.68	2.29	0.03	95.89	0.11	98.32	28,230
Loima	0.00	0.00	0.08	0.07	3.45	3.61	0.59	0.00	95.76	0.04	96.39	12,276
Lokiriana/Lorengippi	0.00	0.00	0.08	0.95	1.86	2.89	4.70	0.00	92.26	0.15	97.11	13,099
Turkana South Constituency	0.39	0.13	0.01	0.66	9.39	10.57	2.43	0.03	86.85	0.12	89.43	94,662
Kaputir	2.90	0.17	0.00	2.20	12.09	17.37	1.50	0.00	81.14	0.00	82.63	10,501
Katilu	0.00	0.10	0.02	0.48	6.87	7.47	1.69	0.04	90.73	0.07	92.53	29,961
Lobokat	0.17	0.43	0.00	0.79	37.96	39.35	5.24	0.00	55.27	0.14	60.65	6,320
Kalapata	0.00	0.00	0.00	0.00	0.36	0.36	0.06	0.00	99.45	0.13	99.64	17,599
Lokichar	0.17	0.16	0.00	0.65	10.23	11.21	4.30	0.05	84.25	0.19	88.79	30,281
Turkana East Constituency	0.05	0.00	0.00	0.48	10.95	11.49	2.48	0.06	85.90	0.08	88.51	68,914
Kapedo/Napeitom	0.12	0.00	0.00	0.78	19.54	20.43	4.61	0.14	74.60	0.21	79.57	20,715
Katilia	0.00	0.00	0.00	0.00	1.50	1.50	0.76	0.00	97.75	0.00	98.50	15,226
Lokori/Kochodin	0.03	0.00	0.00	0.52	9.93	10.48	1.93	0.03	87.54	0.03	89.52	32,973

Table 43.28: 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 Members
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
Turkana	0.1	0.1	0.1	0.7	7.2	8.1	2.7	0.1	88.9	0.2	91.9	275,048.0
Turkana North	0.0	0.0	0.0	0.8	2.0	2.9	1.0	0.0	95.9	0.2	97.1	49,572.0
Kaeris	0.0	0.0	0.0	0.0	1.3	1.3	0.4	0.0	97.8	0.5	98.7	6,682.0
Lakezone	0.1	0.1	0.0	0.7	3.1	4.0	0.7	0.1	95.0	0.1	96.0	11,371.0
Lapur	0.0	0.2	0.0	3.2	0.6	4.0	1.3	0.0	94.6	0.1	96.0	8,002.0
Kaaleng/Kaikor	0.0	0.0	0.0	0.2	3.4	3.6	1.4	0.0	94.6	0.3	96.4	12,754.0
Kibish	0.0	0.0	0.0	0.0	0.5	0.5	0.9	0.0	98.5	0.1	99.5	5,944.0
Nakalale	0.0	0.0	0.0	0.5	1.0	1.5	0.7	0.0	97.7	0.1	98.5	4,819.0
Turkana West	0.0	0.1	0.2	0.5	6.0	6.8	2.2	0.1	90.5	0.4	93.2	65,156.0
Kakuma	0.0	0.1	0.3	0.9	9.8	11.1	4.1	0.0	84.8	0.0	88.9	13,517.0
Lopur	0.0	1.0	1.3	0.7	2.0	5.0	1.9	0.0	89.3	3.8	95.0	5,661.0
Letea	0.0	0.0	0.0	0.0	0.6	0.6	0.0	0.2	99.0	0.3	99.4	11,972.0
Songot	0.0	0.0	0.0	0.0	0.4	0.4	0.3	0.0	99.3	0.0	99.6	5,972.0
Kalobeyei	0.0	0.0	0.0	0.1	0.6	0.7	0.5	0.0	98.7	0.1	99.3	8,617.0
Lokichogio	0.0	0.0	0.1	2.3	30.2	32.6	6.9	0.0	60.4	0.1	67.4	7,621.0
Nanaam	0.0	0.0	0.0	0.0	0.2	0.2	1.6	0.2	97.7	0.3	99.8	11,796.0
Turkana Central	0.1	0.3	0.1	1.3	14.7	16.5	6.4	0.1	76.7	0.3	83.5	52,766.0
Kerio Delta	0.0	0.0	0.0	0.1	0.3	0.4	2.0	0.1	97.5	0.0	99.6	12,257.0
Kangatotha	0.0	0.0	0.0	0.1	0.7	0.8	0.2	0.0	99.0	0.1	99.2	8,489.0
Kalokol	0.0	0.0	0.1	0.5	4.6	5.2	3.8	0.1	90.9	0.1	94.8	8,357.0
Lodwar Township	0.4	1.1	0.3	2.5	25.8	30.1	17.7	0.2	51.4	0.7	69.9	13,645.0
Kanamkemer	0.0	0.1	0.0	2.9	37.5	40.5	3.9	0.1	55.1	0.4	59.5	10,018.0
Loima	0.0	0.0	0.1	0.2	1.4	1.8	1.4	0.0	96.6	0.2	98.2	46,878.0
Kotaruk/Lobei	0.0	0.0	0.0	0.0	0.9	0.9	0.4	0.0	98.5	0.2	99.1	12,199.0
Turkwei	0.0	0.0	0.2	0.2	1.2	1.6	1.9	0.0	96.2	0.2	98.4	19,162.0
Loima	0.0	0.0	0.0	0.0	2.6	2.6	0.7	0.0	96.6	0.2	97.4	7,572.0
Lokiriama/Lorengippi	0.0	0.0	0.1	1.0	1.6	2.7	2.7	0.1	94.6	0.0	97.3	7,945.0

Turkana South	0.3	0.1	0.0	0.6	11.4	12.4	2.2	0.0	85.3	0.1	87.6	39,310.0
Kaputir	1.4	0.4	0.0	2.0	12.3	16.2	0.3	0.0	83.5	0.0	83.8	4,567.0
Katilu	0.0	0.1	0.0	0.2	6.8	7.1	2.0	0.1	90.7	0.0	92.9	11,567.0
Lobokat	0.2	0.0	0.3	0.3	45.8	46.6	2.6	0.0	50.8	0.0	53.4	3,519.0
Kalapata	0.0	0.0	0.0	0.0	0.3	0.3	0.6	0.0	99.2	0.0	99.7	5,910.0
Lokichar	0.2	0.0	0.0	0.8	10.9	12.0	3.5	0.0	84.3	0.2	88.0	13,747.0
Turkana East	0.0	0.0	0.0	0.4	9.4	9.8	3.1	0.1	87.0	0.1	90.2	21,366.0
Kapedo/Napeitom	0.0	0.0	0.0	0.9	15.9	16.8	7.0	0.0	75.9	0.3	83.2	4,559.0
Katilia	0.0	0.0	0.0	0.0	2.7	2.7	2.5	0.0	94.8	0.0	97.3	5,747.0
Lokori/Kochodin	0.0	0.0	0.0	0.4	10.2	10.5	1.8	0.2	87.5	0.0	89.5	11,060.0



About KNBS

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

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