

Exploring Kenya's Inequality

Pulling Apart or Pooling Together?

Trans Nzoia County



Published by



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



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

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

ISBN – 978 - 9966 - 029 - 18 - 8

With funding from DANIDA through Drivers of Accountability Programme



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

Written by:

Eston Ngugi

Data and tables generation:

Samuel Kipruto

Paul Samoei

Maps generation:

George Matheka Kamula

Technical Input and Editing:

Katindi Sivi-Njonjo

Jason Lakin

Copy Editing:

Ali Nadim Zaidi

Leonard Wanyama

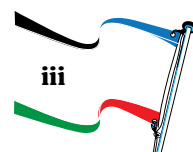
Design, Print and Publishing:

Ascent Limited

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

Table of contents

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



Foreword

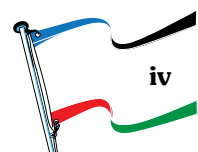
Kenya, like all African countries, focused on poverty alleviation at independence, perhaps due to the level of vulnerability of its populations but also as a result of the 'trickle down' economic discourses of the time, which assumed that poverty rather than distribution mattered – in other words, that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

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

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

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

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

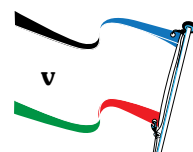


Acknowledgements

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

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

Stefano Prato
Managing Director,
SID



Striking Features on Intra-County Inequality in Kenya

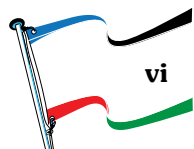
Inequalities within counties in all the variables are extreme. In many cases, Kenyans living within a single county have completely different lifestyles and access to services.

Income/expenditure inequalities

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

Access to Education

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



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

Access to Improved Sanitation

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

Access to Improved Sources of Water

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

Access to Improved Sources of Lighting

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

Access to Improved Housing

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

Overall ranking of the variables

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

Abbreviations

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

Introduction

Background

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

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

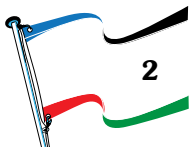
According to the 2005 report on the World Social Situation, sustained poverty reduction cannot be achieved unless equality of opportunity and access to basic services is ensured. Reducing inequality must therefore be explicitly incorporated in policies and programmes aimed at poverty reduction. In addition,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

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

Methodology

Gini-coefficient of inequality

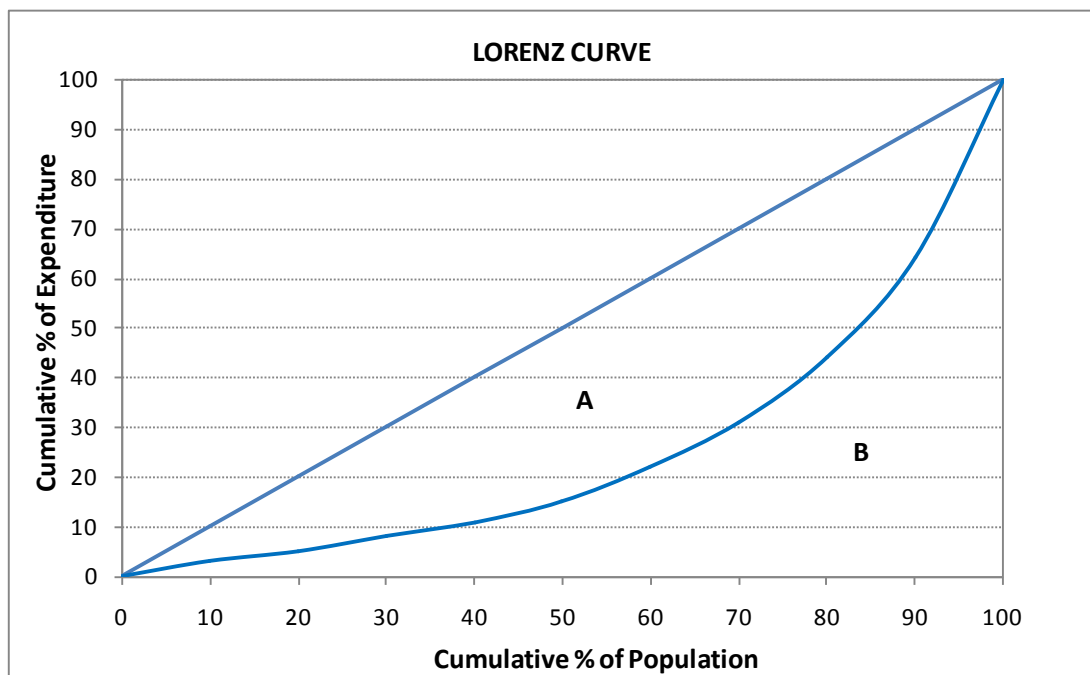
This is the most commonly used measure of inequality. The coefficient varies between '0', which reflects complete equality and '1' which indicates complete inequality. Graphically, the Gini coefficient can be



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

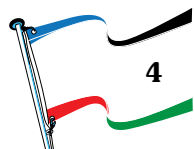
The sample in the 2005/06 KIHBS, which was a representative subset of the population, collected detailed information regarding consumption expenditures. The survey gives poverty estimate of urban and rural poverty at the national level, the provincial level and, albeit with less precision, at the district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

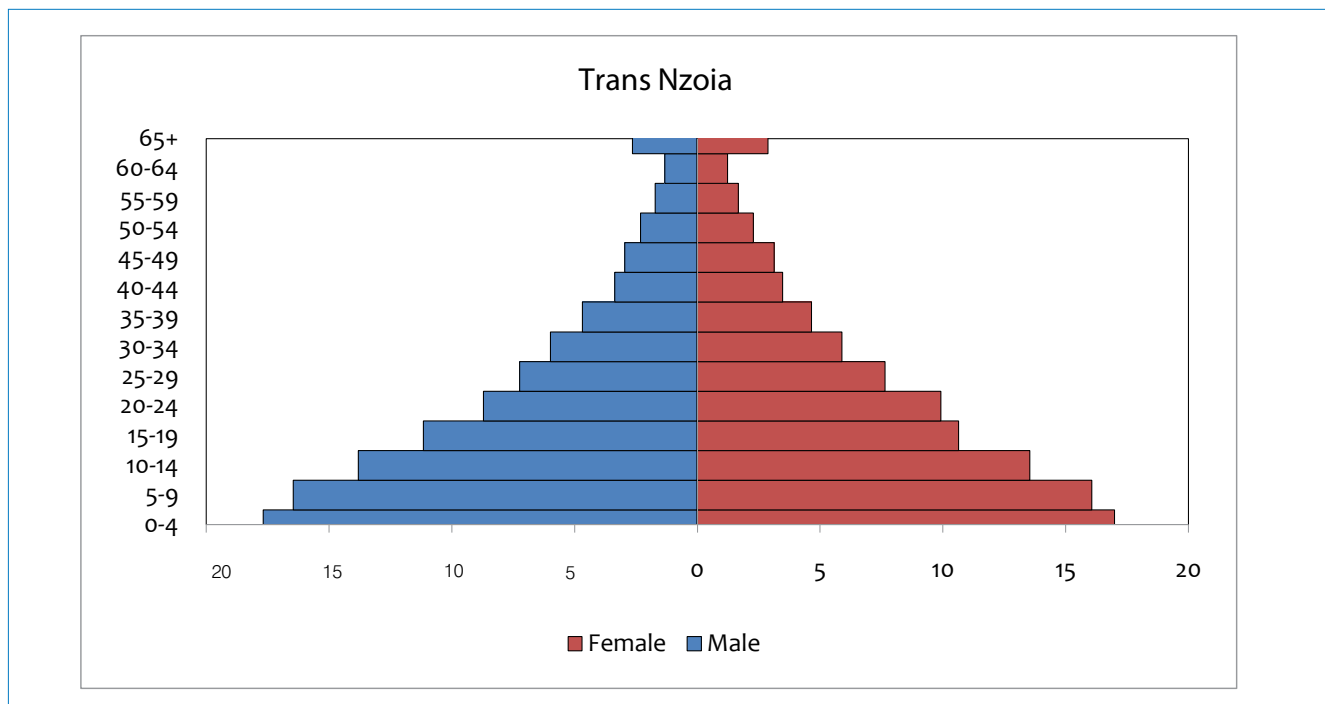


Trans Nzoia County



TRANS NZOIA COUNTY

Figure 42.1: Trans Nzoia Population Pyramid



Population

Trans Nzoia County has a child rich population, where 0-14 year olds constitute 47% of the total population. This is due to high fertility rates among women as shown by the highest percentage household size of 4-6 at 41%.

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 42.3 up to ward level.

Table 42: Overall Employment by Education Levels in Trans Nzoia County

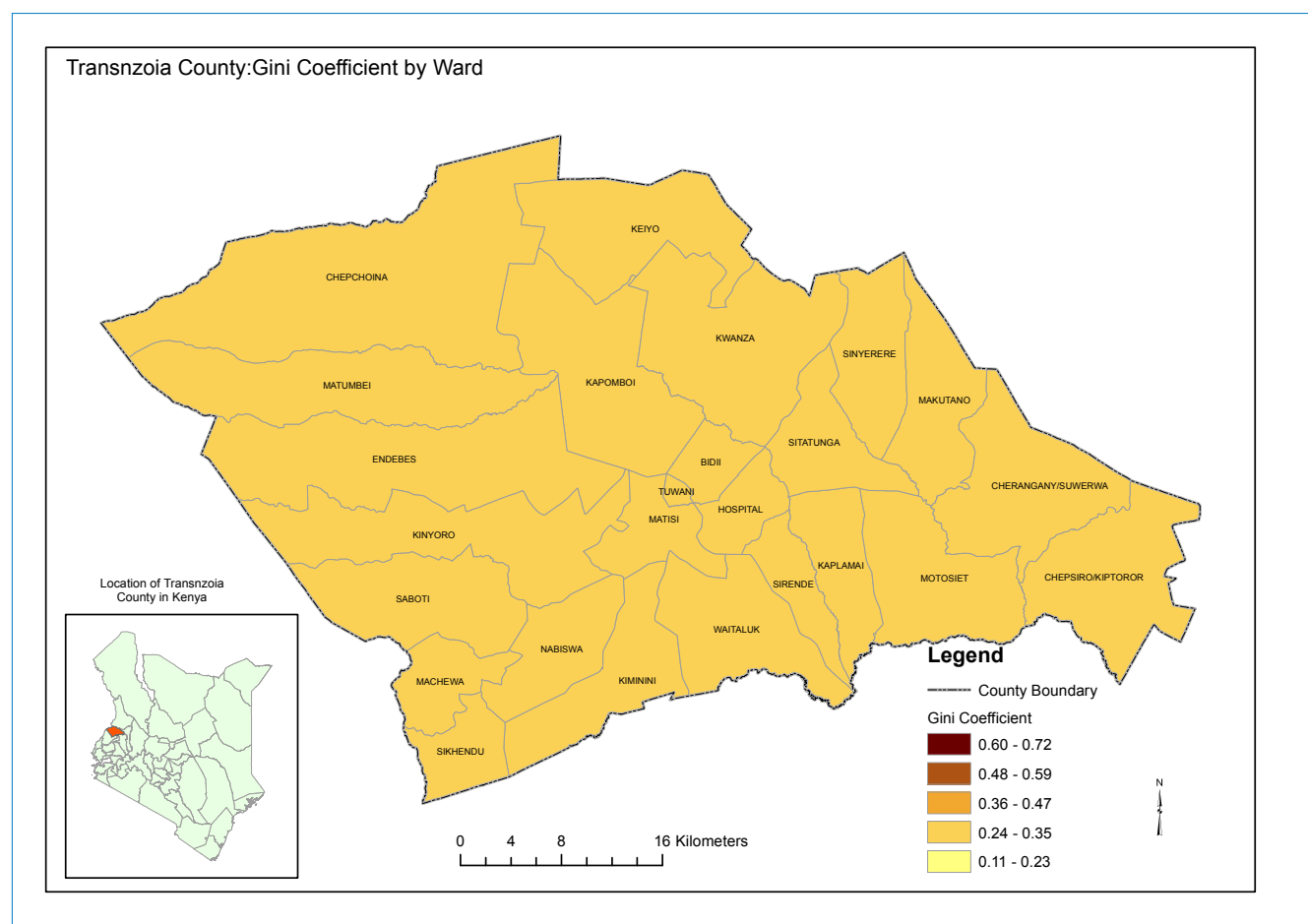
Education Level	Work for pay	Family Business	Family Agricultural Holding	Intern/ Volunteer	Retired/ Home-maker	Fulltime Student	Incapacitated	No work	Number of Individuals
Total	18.2	10.7	48.7	0.7	6.7	11.5	0.5	3.0	200,435
None	12.7	10.0	60.7	1.8	8.5	0.5	2.1	3.9	15,512
Primary	15.1	10.7	55.1	0.5	6.9	8.6	0.4	2.7	118,084
Secondary+	25.0	10.9	34.6	0.8	5.8	19.3	0.2	3.4	66,839

In Trans-Nzoia County, 25% of the residents with no formal education, 20% of those with a primary level of education and 26% of those with a secondary level of education or above are working for pay. Work for pay is highest in Nairobi at 49% and this is almost twice the level in Trans-Nzoia for those with secondary or above level of education.

Gini Coefficient

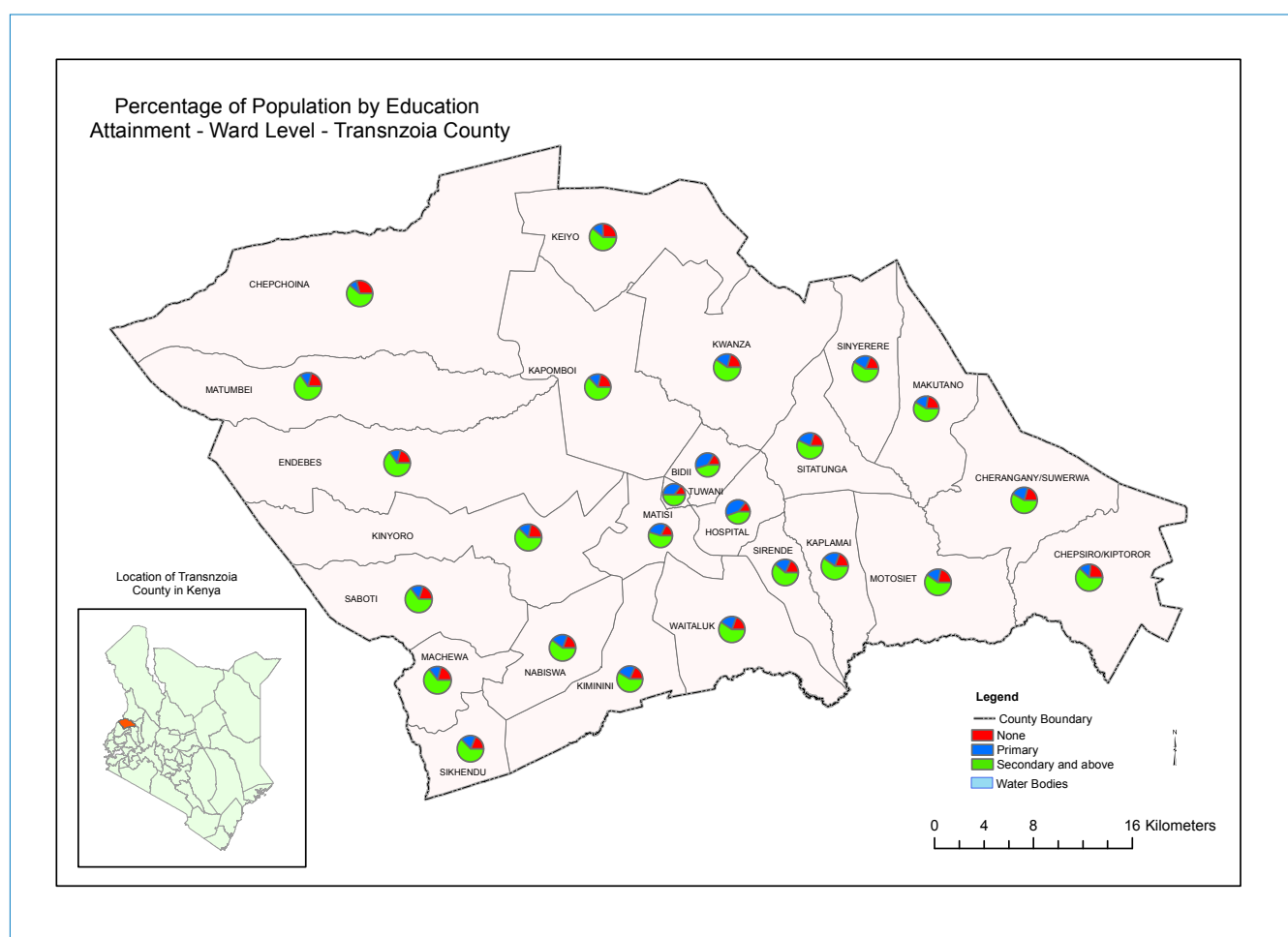
In this report, the Gini index measures the extent to which the distribution of consumption expenditure among individuals or households within an economy deviates from a perfectly equal distribution. A Gini index of '0' represents perfect equality, while an index of '1' implies perfect inequality. Trans-Nzoia County's Gini index is 0.360 compared with Turkana County, which has the least inequality nationally (0.283).

Figure 42.2: Trans Nzoia County-Gini Coefficient by Ward



Education

Figure 42.3: Trans Nzoia County-Percentage of Population by Education Attainment by Ward



A total of 21% of Trans Nzoia County residents have secondary level of education or above. Kiminini constituency has the highest share of residents with secondary or above at 24%. This is twice Endebess constituency, which has the lowest share of residents with a secondary level of education or above. Kiminini constituency is 3 percentage points above the county average. Hospital ward has the highest share of residents with a secondary level of education or above at 41%. This is 31 percentage points above Chepchoina ward, which has the lowest share of residents with a secondary level of education or above. Hospital ward is 20 percentage points above the county average.

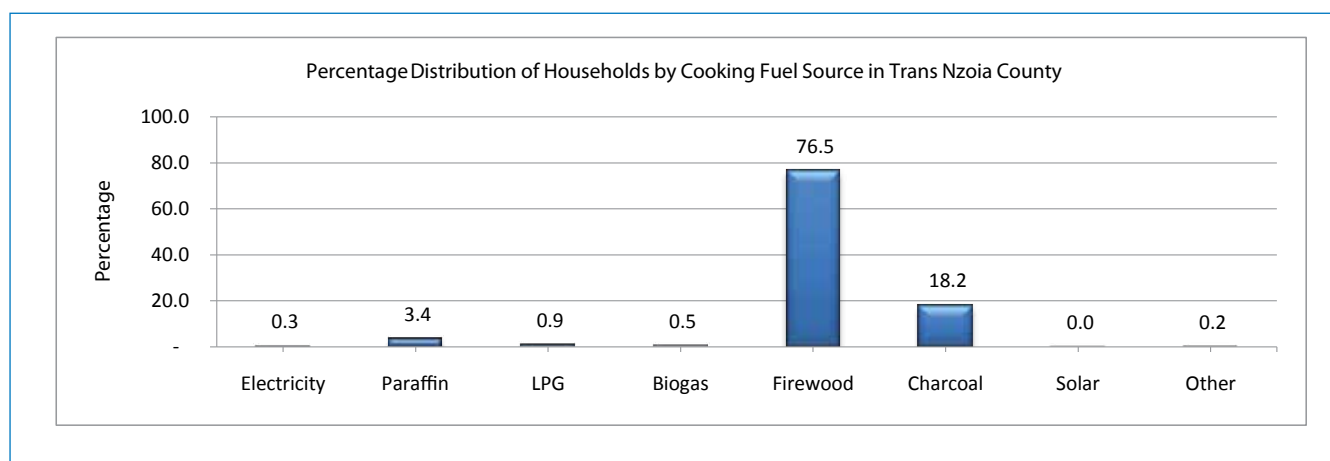
A total of 59% of Trans Nzoia County residents have a primary level of education only. Endebess constituency has the highest share of residents with a primary level of education only at 64%. This is 6 percentage points above Kiminini constituency, which has the lowest share of residents with a primary level of education only. Endebess constituency is 5 percentage points above the county average. Matumbei ward has the highest share of residents with a primary level of education only at 66%. This is almost 21 percentage points above Hospital ward, which has the lowest share of residents with a primary level of education only. Matumbei ward is 7 percentage points above the county average.

A total of 20% of Trans Nzoia County residents have no formal education. Endebess constituency has the highest share of residents with no formal education at 24%. This is 6 percentage points above Kiminini constituency, which has the lowest share of residents with no formal education. Endebess constituency is 4 percentage points above the county average. Chepchoina ward has the highest percentage of residents with no formal education at 29%. This is twice Hospital ward with the lowest percentage of residents with no formal education. Chepchoina ward is 9 percentage points above the county average.

Energy

Cooking Fuel

Figure 42.4: Percentage Distribution of Households by Source of Cooking Fuel in Trans Nzoia County



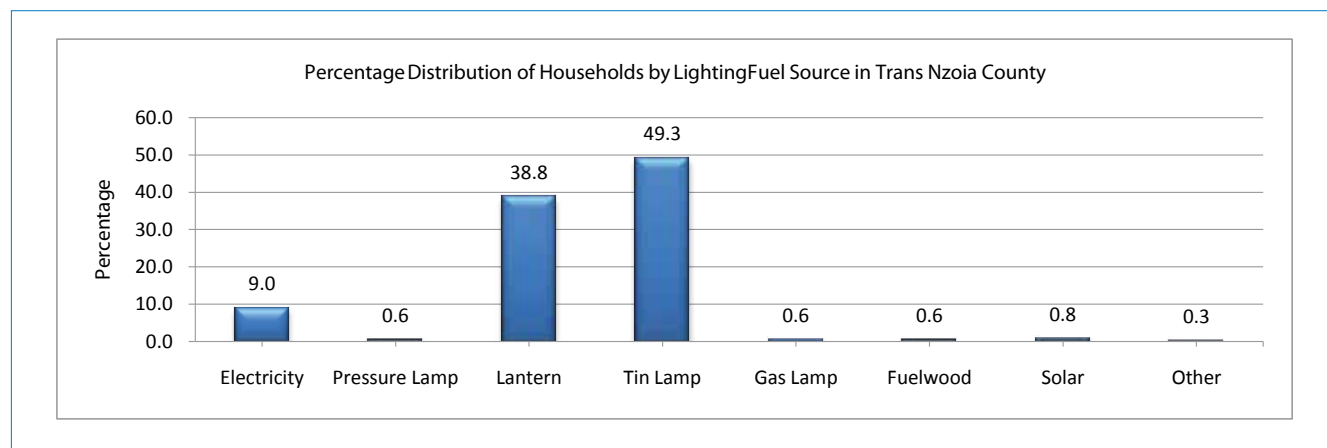
Just 1% of residents in Trans Nzoia County use Liquefied petroleum gas (LPG), and 3% use paraffin. 77% use firewood and 18% use charcoal. Firewood is the most common cooking fuel by gender with 75% of male headed households using it as compared with 80% in female headed households.

Cherangany and Endebess constituencies have the highest level of firewood use in Trans Nzoia County at 91%. This is 38 percentage points above Saboti constituency, which has the lowest share. Endebess constituency is 14 percentage points above the county average. Machewa ward has the highest level of firewood use in Trans Nzoia County at 97%. This is 24 times Tuwani ward, which has the lowest share. Machewa ward is 20 percentage points above the county average.

Saboti constituency has the highest level of charcoal use in Trans Nzoia County at 38%. This is seven times Endebess constituency, which has the lowest share. Saboti constituency is 20 points above the county average. Tuwani ward has the highest level of charcoal use in Trans Nzoia County at 79%. This is almost 40 times Machewa ward, which has the lowest share. Tuwani ward is 61 percentage points above the county average.

Lighting

Figure 42.5: Percentage Distribution of Households by Source of Lighting Fuel in Trans Nzoia County



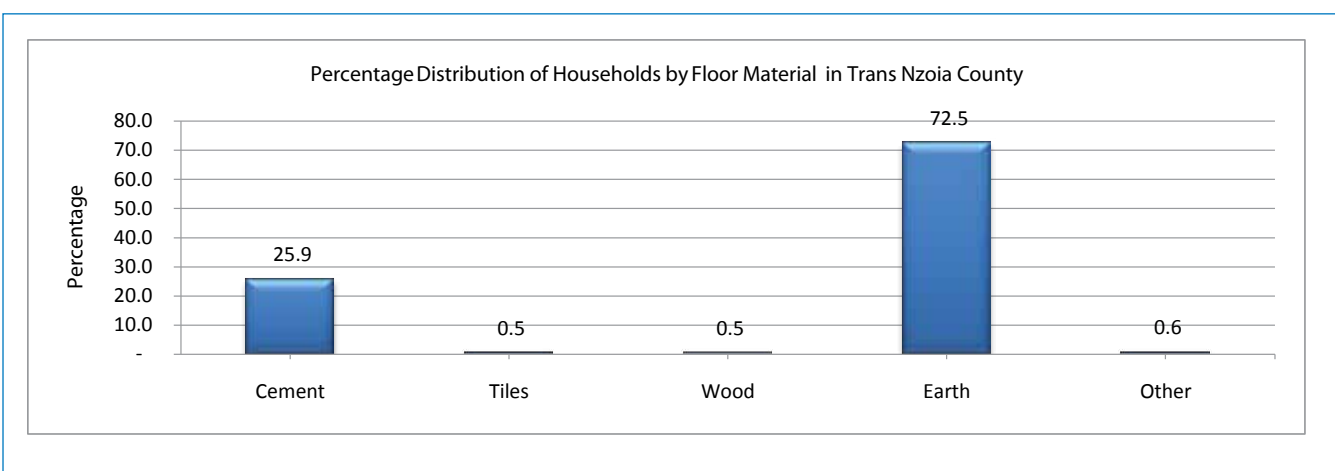
Only 9% of residents in Trans Nzoia County use electricity as their main source of lighting. A further 39% use lanterns, and 49% use tin lamps. 1% use fuel wood. Electricity use is almost similar in male headed households at 9% as compared with female headed households at 8%.

Saboti constituency has the highest level of electricity use at 13%. That is 11 percentage points above Endebess constituency, which has the lowest level of electricity use. Saboti constituency is 4 percentage points above the county average. Bidii ward has the highest level of electricity use at 47%. That is 47 percentage points above Machewa ward, which has the lowest level of electricity use. Bidii ward is 38 percentage points above the county average.

Housing

Flooring

Figure 42.6: Percentage Distribution of Households by Floor Material in Trans Nzoia County

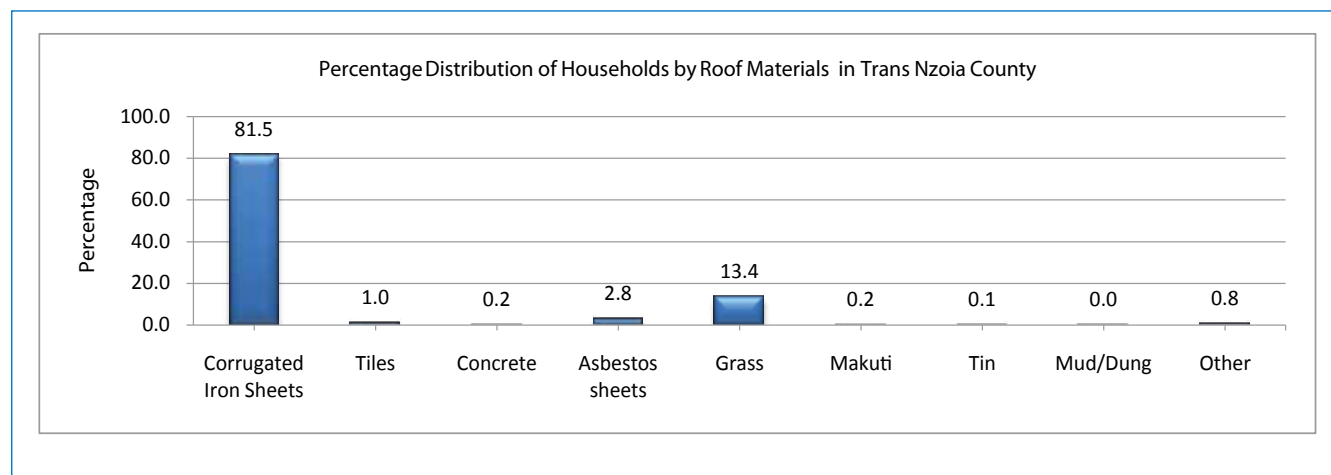


In Trans Nzoia County, 26% of residents have homes with cement floors, while 73% have earth floors. 1% has wood or tile floors. Saboti constituency has the highest share of cement floors at 39%. That is four times Endebess constituency, which has the lowest share of cement floors. Saboti constituency is 13 percentage points above the

county average. Tuwani ward has the highest share of cement floors at 76%. This is 10 times Chepchoina ward, which has the lowest share of cement floors. Tuwani ward is 50 percentage points above the county average.

Roofing

Figure 42.7: Percentage Distribution of Households by Roof Material in Trans Nzoia County



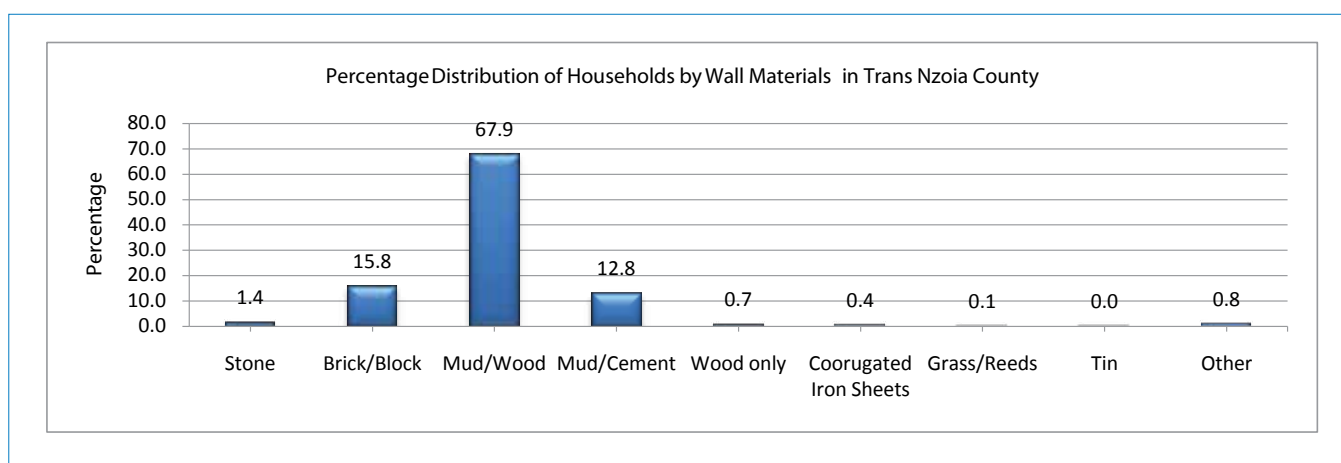
In Trans Nzoia County, less than 1% of residents have homes with concrete roofs, while 83% have corrugated iron sheet roofs. Grass and makuti roofs constitute 14% of homes, and none have mud/dung roofs.

Kiminini constituency has the highest share of corrugated iron sheet roofs at 90%. That is almost twice Endebess constituency, which has the lowest share of corrugated iron sheet roofs. Kiminini constituency is 7 percentage points above the county average. Sinyerere ward has the highest share of corrugated iron sheet roofs at 97%. This is almost thrice Chepchoina ward, which has the lowest share of corrugated iron sheet roofs. Sinyerere ward is 14 percentage points above the county average.

Endebess constituency has the highest share of grass/makuti roofs at 46%. This is 41 percentage points above Kiminini constituency, which has the lowest share of grass/makuti roofs. Endebess constituency is 32 percentage points above the county average. Chepchoina ward has the highest share of grass/makuti roofs at 60%. This is 60 percentage points above Tuwani ward, which has the lowest share. Chepchoina ward is 46 percentage points above the county average.

Walls

Figure 42.8: Percentage Distribution of Households by Wall Material in Trans Nzoia County



In Trans Nzoia County, 17% of homes have either brick or stone walls. 81% of homes have mud/wood or mud/cement walls. 1% has wood walls. Less than 1% has corrugated iron sheet or grass/thatched walls. 1% has tin or other walls.

Saboti constituency has the highest share of brick/stone walls at 25%. That is three times Endebess constituency, which has the lowest share of brick/stone walls. Saboti constituency is 8 percentage points above the county average. Hospital ward has the highest share of brick/stone walls at 51%. That is 13 times Chepchoina ward, which has the lowest share of brick/stone walls. Hospital ward is 34 percentage points above the county average.

Endebess constituency has the highest share of mud with wood/cement walls at 89%. That is 17 percentage points above Saboti constituency, which has the lowest share of mud with wood/cement. Endebess constituency is 8 percentage points above the county average. Three wards, Machewa, Keiyo and Chepsiro/Kiptoror, have the highest share of mud with wood/cement walls at 94% each. That is twice Hospital ward, which has the lowest share of mud with wood/cement walls. Machewa, Keiyo and Chepsiro/Kiptoror are 13 percentage points above the county average.

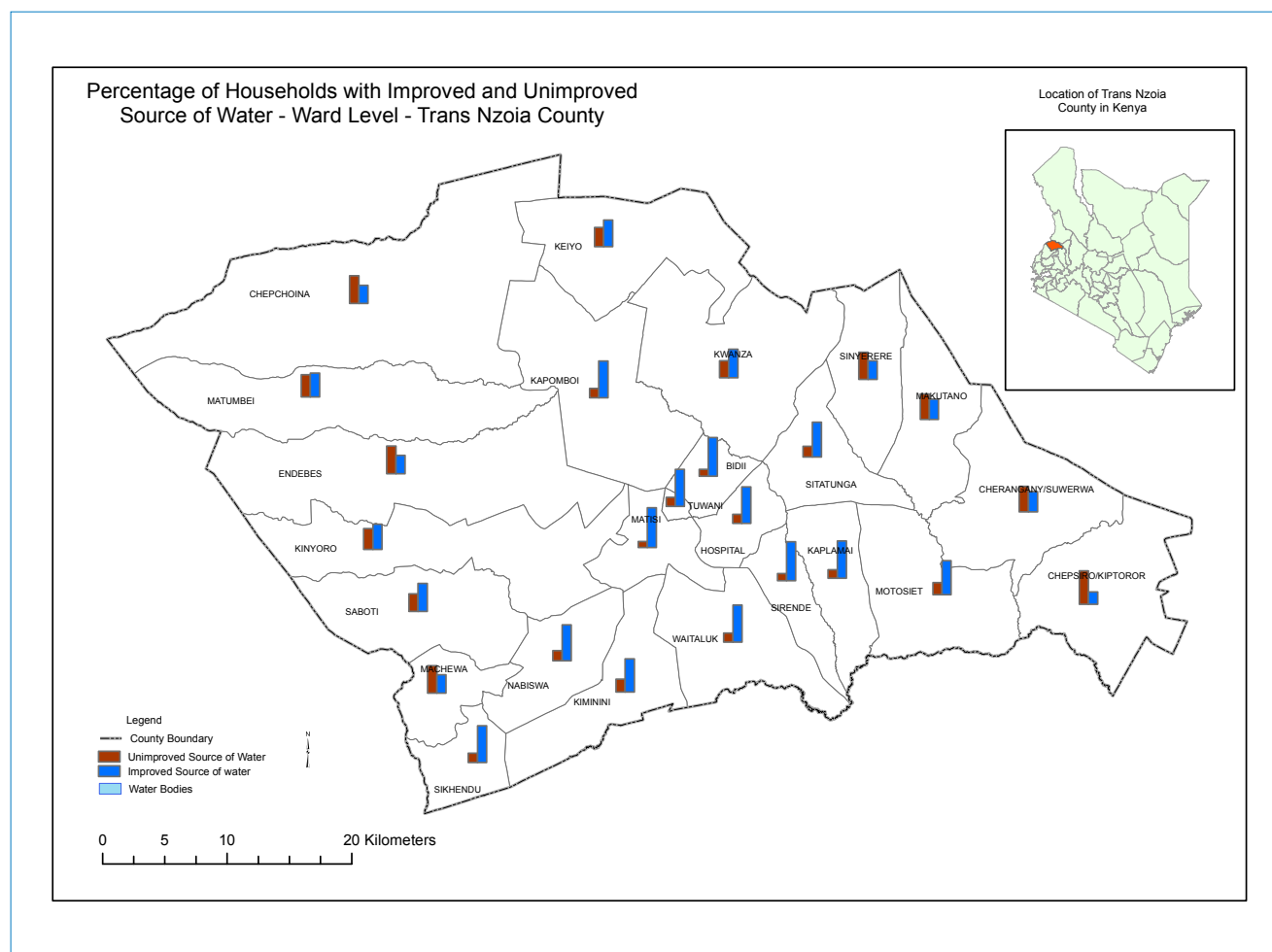
Water

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

In Trans Nzoia County, 65% of residents use improved sources of water, with the rest relying on unimproved sources. There is no gender differential as both male and female headed households are at 65% each in use of improved sources of water.

Kiminini constituency has the highest share of residents using improved sources of water at 79%. That is almost twice Endebess constituency, which has the lowest share using improved sources of water. Kiminini constituency is 14 percentage points above the county average. Matisi ward has the highest share of residents using improved sources of water at 87%. That is thrice Chepsiro/Kiptoror ward, which has the lowest share using improved sources of water. Matisi ward is 22 percentage points above the county average.

Figure 42.9: Trans Nzoia County-Percentage of Households with Improved and Unimproved Sources of Water by Ward

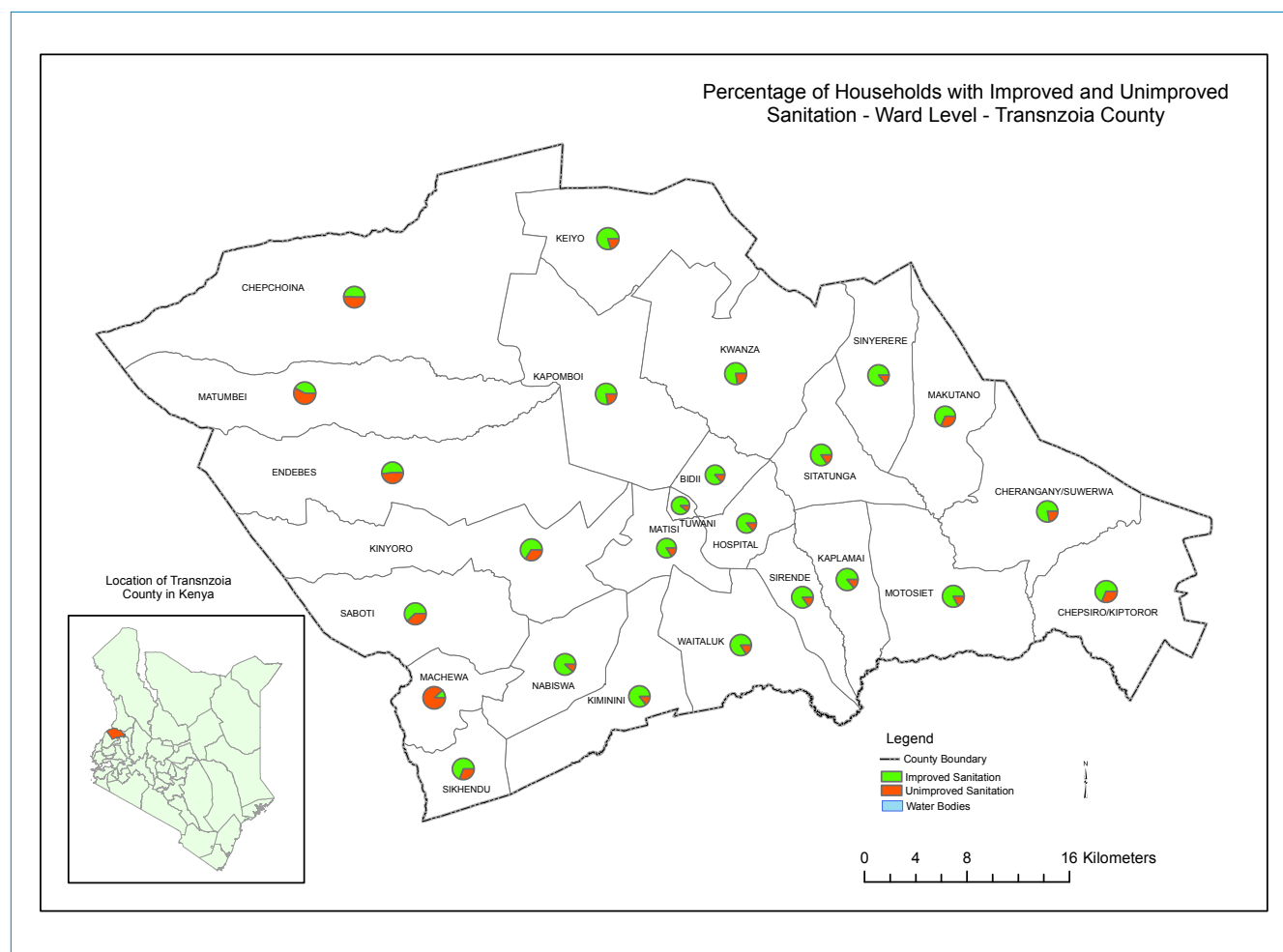


Sanitation

A total of 74% of residents in Trans Nzoia County use improved sanitation, while the rest use unimproved sanitation. There is no significant differential by gender as male headed households at 75% as compared with female headed households at 74% in use of improved sanitation.

Kiminini constituency has the highest share of residents using improved sanitation at 84%. That is almost twice Endebe's constituency, which has the lowest share using improved sanitation. Kiminini constituency is 10 percentage points above the county average. Tuwani ward has the highest share of residents using improved sanitation at 89%. That is seven times Machewa ward, which has the lowest share using improved sanitation. Tuwani ward is 15 percentage points above the county average.

Figure 42.10: Trans Nzoia County –Percentage of Households with Improved and Unimproved Sanitation by Ward



Trans Nzoia County Annex Tables

42. TRANS NZOIA

Table 42.1: 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 de- pendancy Ratio	Child de- pendancy Ratio	aged de- pendancy 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
Trans Nzoia County	808,851	401,164	407,687	168,726	382,296	183,413	271,674	404,172	22,383	0.984	1.001	0.946	0.055	34.6	40.6	24.8	166,597
Kwanza Constituency	165,105	81,838	83,267	34,908	78,391	37,232	54,788	81,771	4,943	0.983	1.019	0.959	0.060	31.9	41.0	27.1	32386
Kapombei	55,840	27,877	27,963	12,346	26,786	12,044	18,280	27,349	1,705	0.997	1.042	0.979	0.062	32.5	41.8	25.7	11276
Kwanza	55,247	27,436	27,811	11,259	26,501	13,207	17,864	26,986	1,760	0.987	1.047	0.982	0.065	26.5	42.1	31.3	10023
Keiyo	33,238	16,335	16,903	7,568	16,598	7,596	10,318	15,496	1,144	0.966	1.145	1.071	0.074	27.0	41.2	31.8	6028
Bidlii	20,780	10,190	10,590	3,735	8,506	4,385	8,326	11,940	334	0.962	0.740	0.712	0.028	46.6	37.0	16.3	5059
Endebess Constituency	90,903	45,690	45,213	20,607	45,445	20,461	29,660	43,267	2,191	1.011	1.101	1.050	0.051	31.0	40.0	29.1	17505
Chepchoina	36,388	18,430	17,958	8,383	18,112	7,827	11,772	17,384	892	1.026	1.093	1.042	0.051	32.6	40.8	26.6	7299
Endebes	23,165	11,625	11,540	5,132	11,320	5,223	7,800	11,312	533	1.007	1.048	1.001	0.047	33.8	37.3	28.9	4429
Matumbei	31,350	15,635	15,715	7,092	16,013	7,411	10,088	14,571	766	0.995	1.152	1.099	0.053	26.8	40.9	32.3	5777
Saboti Constituency	170,789	85,828	84,961	35,599	78,410	36,747	61,451	88,491	3,888	1.010	0.930	0.886	0.044	42.2	37.6	20.2	38823
Kinyoro	39,343	19,564	19,779	8,584	19,387	9,140	12,631	18,756	1,200	0.989	1.098	1.034	0.064	30.2	40.0	29.8	7571
Matisi	37,866	19,286	18,580	7,607	16,194	7,461	14,774	21,104	568	1.038	0.794	0.767	0.027	50.3	35.2	14.5	9776

Tuwani	38,730	19,570	19,160	7,461	15,540	7,051	16,808	22,760	430	1,021	0.702	0.683	0.019	57.1	34.0	9.0	11291
Saboti	34,854	17,566	17,288	7,464	17,111	8,256	11,206	16,688	1,055	1,016	1.089	1.025	0.063	28.8	40.4	30.8	6545
Machewa	19,996	9,842	10,154	4,483	10,178	4,839	6,032	9,183	635	0.969	1.178	1.108	0.069	24.1	44.8	31.2	3640
Kimini Constituency	187,921	91,717	96,204	37,995	86,976	43,030	63,313	95,773	5,172	0.953	0.962	0.908	0.054	34.7	41.6	23.6	39341
Kimini	33,229	16,232	16,997	6,920	15,843	7,762	10,946	16,505	881	0.955	1.013	0.960	0.053	33.9	40.9	25.2	6812
Waitluk	40,236	19,730	20,506	8,031	18,729	9,287	13,004	20,218	1,289	0.962	0.990	0.926	0.064	31.4	43.7	24.8	8194
Sirende	23,488	11,439	12,049	4,759	10,851	5,335	7,893	11,908	729	0.949	0.972	0.911	0.061	32.1	42.4	25.4	4744
Hospital	28,647	14,106	14,541	5,050	11,245	5,880	11,626	16,929	473	0.970	0.692	0.664	0.028	47.0	37.7	15.4	7117
Sikindu	23,867	11,572	12,295	5,211	11,763	5,689	7,422	11,388	716	0.941	1.096	1.033	0.063	31.0	43.2	25.8	4776
Nabiswa	38,454	18,638	19,816	8,024	18,545	9,077	12,422	18,825	1,084	0.941	1.043	0.985	0.058	31.4	42.4	26.2	7698
Cherangany Constituency	194,133	96,091	98,042	39,617	93,074	45,943	62,462	94,870	6,189	0.980	1.046	0.981	0.065	30.9	42.4	26.7	38542
Sinyerere	25,654	12,765	12,889	5,061	12,201	6,220	8,143	12,660	793	0.990	1.026	0.964	0.063	31.6	43.2	25.2	5219
Makutano	18,322	9,258	9,064	3,712	8,674	4,057	5,567	8,920	728	1.021	1.054	0.972	0.082	36.9	40.5	22.6	3948
Kaplamai	25,250	12,399	12,851	4,943	11,917	6,127	8,179	12,430	903	0.965	1.031	0.959	0.073	26.2	41.1	32.6	4526
Motosiet	32,703	16,170	16,533	7,003	15,986	7,594	10,456	15,741	976	0.978	1.078	1.016	0.062	31.4	42.1	26.5	6500
Cherangany/Suwerwa	36,483	17,893	18,590	7,416	17,299	8,686	12,045	18,057	1,127	0.963	1.020	0.958	0.062	31.8	43.0	25.2	7435
Chepsiro/Kiptor	29,547	14,617	14,930	6,434	14,850	6,996	9,205	13,788	909	0.979	1.143	1.077	0.066	27.5	43.0	29.5	5641
Sitatunga	26,174	12,989	13,185	5,048	12,147	6,263	8,867	13,274	753	0.985	0.972	0.915	0.057	31.5	42.9	25.7	5273

Table 42.2: Employment by County, Constituency and Wards

County/Constituency/ Wards	Work for pay	Family Business	Family Agricul- tural Holding	Intern/ Volunteer	Retired/ Homemaker	Fulltime Student	Incapaci- tated	No work	Number of Indi- viduals
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
Trans Nzoia County	22.5	12.5	30.3	1.3	11.4	14.7	0.5	6.9	404,172
Kwanza Constituency	18.6	13.2	32.9	1.7	10.7	13.9	0.5	8.6	81,771
Kapomboi	19.2	13.2	25.3	1.3	16.7	13.0	0.7	10.7	27,349
Kwanza	16.2	11.6	44.6	2.3	5.4	13.0	0.5	6.4	26,986
Keiyo	11.9	10.7	45.5	1.1	6.8	15.7	0.5	7.7	15,496
Bidii	31.2	20.0	7.8	1.8	13.8	15.3	0.5	9.7	11,940
Endebess Constituency	20.8	8.4	48.1	1.2	7.4	10.1	0.3	3.8	43,267
Chepchoina	21.3	8.6	47.4	2.1	6.8	8.1	0.3	5.5	17,384
Endebes	30.0	7.7	37.2	0.9	8.5	11.8	0.4	3.6	11,312
Matumbei	12.9	8.6	57.3	0.5	7.3	11.3	0.2	2.0	14,571
Saboti Constituency	26.9	15.3	24.2	1.2	11.2	13.7	0.3	7.2	88,491
Kinyoro	19.4	9.1	40.3	0.9	9.8	13.1	0.3	7.1	18,756
Matisi	42.0	15.0	6.8	1.6	11.8	12.3	0.3	10.2	21,104
Tuwani	33.8	27.7	2.5	1.4	13.5	11.0	0.4	9.7	22,760
Saboti	14.5	8.8	46.5	0.7	8.0	18.3	0.4	2.8	16,688
Machewa	12.9	9.8	44.8	1.1	12.6	16.2	0.3	2.3	9,183
Kimini Constituency	25.4	13.3	21.9	1.2	13.1	16.1	0.5	8.5	95,773
Kimini	23.3	13.0	21.0	1.1	16.7	16.0	0.4	8.5	16,505
Waitaluk	27.0	9.1	25.5	1.2	12.4	16.5	0.6	7.7	20,218
Sirende	26.1	12.0	18.9	1.2	13.2	15.7	0.6	12.5	11,908
Hospital	37.0	15.6	6.6	1.6	12.6	15.9	0.3	10.4	16,929
Sikhendu	16.4	14.4	40.9	0.9	7.9	16.0	0.5	3.1	11,388
Nabiswa	20.2	15.9	23.0	1.2	14.1	16.3	0.7	8.7	18,825
Cherangany Constituency	19.5	10.3	34.0	1.1	12.4	17.2	0.5	4.9	94,870
Sinyerere	19.8	11.2	31.3	1.3	10.8	19.3	0.4	5.9	12,660
Makutano	23.1	8.7	44.0	0.8	5.5	15.6	0.5	1.9	8,920
Kaplamai	15.8	8.0	32.5	1.1	19.5	17.6	0.8	4.8	12,430

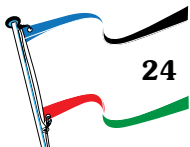
Motosiet	22.3	10.7	26.7	1.3	12.9	18.1	0.6	7.5	15,741
Cherangany/Suwerwa	16.0	9.9	42.0	0.7	11.7	16.1	0.5	3.2	18,057
Chepsiro/Kiptoror	16.8	10.9	35.7	0.7	14.7	16.5	0.5	4.3	13,788
Sitatunga	24.6	12.5	27.2	2.0	10.0	17.1	0.5	6.1	13,274

Table 42.3: 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/ Homemaker	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
Trans Nzoia	Total	22.5	12.5	30.3	1.3	11.4	14.7	0.5	6.9	404,172
Trans Nzoia	None	25.4	9.9	37.4	2.4	14.1	0.5	1.9	8.5	34,911
Trans Nzoia	Primary	20.1	12.1	33.2	1.0	12.2	14.6	0.4	6.5	226,020
Trans Nzoia	Secondary+	25.6	13.8	24.0	1.4	9.5	18.5	0.2	7.1	143,241
Kwanza Constituency	Total	18.6	13.2	32.9	1.7	10.7	13.9	0.5	8.6	81,771
Kwanza Constituency	None	20.5	10.6	41.6	2.2	13.1	0.4	1.7	10.0	8,608
Kwanza Constituency	Primary	15.9	13.1	34.8	1.5	11.4	14.4	0.5	8.5	45,547
Kwanza Constituency	Secondary+	22.4	14.1	27.2	1.8	8.8	17.3	0.2	8.2	27,616
Kapombei Wards	Total	19.2	13.2	25.3	1.3	16.7	13.0	0.7	10.7	27,349
Kapombei Wards	None	22.8	9.4	32.5	2.1	18.5	0.3	1.8	12.7	2,638
Kapombei Wards	Primary	17.7	13.5	25.4	1.1	17.6	13.2	0.6	10.8	17,218

Kapombei Wards	Secondary+	21.4	13.6	22.4	1.5	14.1	17.0	0.4	9.7	7,493
Kwanza Wards	Total	16.2	11.6	44.6	2.3	5.4	13.0	0.5	6.4	26,986
Kwanza Wards	None	21.0	10.2	48.4	2.1	9.2	0.2	1.9	7.0	2,984
Kwanza Wards	Primary	14.8	11.7	45.8	2.6	5.2	13.6	0.3	6.2	14,686
Kwanza Wards	Secondary+	16.8	11.8	41.6	2.1	4.6	16.3	0.2	6.5	9,316
Keiyo Wards	Total	11.9	10.7	45.5	1.1	6.8	15.7	0.5	7.7	15,496
Keiyo Wards	None	13.6	9.5	55.1	2.1	9.6	0.6	1.0	8.6	2,149
Keiyo Wards	Primary	10.2	11.5	45.6	0.7	6.6	17.6	0.4	7.5	9,503
Keiyo Wards	Secondary+	15.3	9.6	40.1	1.7	5.8	19.6	0.2	7.7	3,844
Bidii Wards	Total	31.2	20.0	7.8	1.8	13.8	15.3	0.5	9.7	11,940
Bidii Wards	None	29.5	18.4	10.9	3.7	18.6	0.7	2.3	15.9	837
Bidii Wards	Primary	25.2	20.3	10.4	1.4	18.3	14.4	0.6	9.4	4,140
Bidii Wards	Secondary+	34.9	20.0	5.9	1.8	10.6	17.6	0.2	9.2	6,963
Endebess Constituency	Total	20.8	8.4	48.1	1.2	7.4	10.1	0.3	3.8	43,267
Endebess Constituency	None	20.8	5.7	57.7	3.7	7.3	0.3	0.9	3.7	5,338
Endebess Constituency	Primary	19.2	8.5	49.2	0.8	7.8	10.5	0.2	3.8	28,452
Endebess Constituency	Secondary+	25.5	9.6	39.2	1.0	6.1	14.7	0.1	3.9	9,477
Chepchoina Wards	Total	21.3	8.6	47.4	2.1	6.8	8.1	0.3	5.5	17,384
Chepchoina Wards	None	14.3	4.8	65.1	5.0	5.8	0.1	0.7	4.3	3,285
Chepchoina Wards	Primary	21.2	9.5	45.1	1.4	7.4	9.2	0.2	6.0	10,990
Chepchoina Wards	Secondary+	29.2	9.4	36.7	1.4	5.5	12.5	0.2	5.2	3,109
Endebes Wards	Total	30.0	7.7	37.2	0.9	8.5	11.8	0.4	3.6	11,312
Endebes Wards	None	44.6	4.8	33.6	1.0	10.8	0.5	1.1	3.7	1,029
Endebes Wards	Primary	26.8	7.5	40.1	0.7	9.0	12.2	0.4	3.4	7,527
Endebes Wards	Secondary+	33.3	9.2	30.9	1.2	6.2	14.9	0.0	4.2	2,756
Matumbei Wards	Total	12.9	8.6	57.3	0.5	7.3	11.3	0.2	2.0	14,571
Matumbei Wards	None	17.8	9.6	58.1	2.3	8.6	0.7	1.2	1.8	1,024
Matumbei Wards	Primary	11.1	8.0	60.6	0.3	7.4	10.6	0.1	1.8	9,935
Matumbei Wards	Secondary+	16.3	10.0	47.7	0.5	6.5	16.3	0.2	2.5	3,612
Saboti Constituency	Total	26.9	15.3	24.2	1.2	11.2	13.7	0.3	7.2	88,491
Saboti Constituency	None	28.2	12.7	27.9	2.4	15.2	0.5	1.2	11.8	5,853

Saboti Constituency	Primary	23.0	14.4	28.5	0.9	12.3	14.0	0.3	6.7	49,272
Saboti Constituency	Secondary+	32.5	17.1	17.3	1.3	8.9	15.5	0.2	7.2	33,366
Kinyoro Wards	Total	19.4	9.1	40.3	0.9	9.8	13.1	0.3	7.1	18,756
Kinyoro Wards	None	24.0	8.6	39.1	1.3	14.5	0.3	0.7	11.5	1,762
Kinyoro Wards	Primary	17.7	8.6	42.2	0.8	10.1	13.9	0.2	6.5	11,651
Kinyoro Wards	Secondary+	21.7	10.3	36.7	0.9	7.7	15.6	0.2	7.0	5,343
Matisi Wards	Total	42.0	15.0	6.8	1.6	11.8	12.3	0.3	10.2	21,104
Matisi Wards	None	43.2	12.5	8.3	2.4	12.6	0.7	1.1	19.1	1,515
Matisi Wards	Primary	38.7	16.1	7.2	1.3	14.6	11.5	0.4	10.3	10,554
Matisi Wards	Secondary+	45.6	14.2	6.0	1.8	8.4	15.2	0.1	8.6	9,035
Tuwani Wards	Total	33.8	27.7	2.5	1.4	13.5	11.0	0.4	9.7	22,760
Tuwani Wards	None	28.1	29.1	5.0	3.2	18.6	0.6	1.0	14.3	1,053
Tuwani Wards	Primary	30.3	28.8	2.6	1.2	16.8	9.5	0.5	10.4	9,746
Tuwani Wards	Secondary+	37.2	26.7	2.3	1.4	10.4	13.2	0.2	8.6	11,961
Saboti Wards	Total	14.5	8.8	46.5	0.7	8.0	18.3	0.4	2.8	16,688
Saboti Wards	None	19.5	5.8	52.6	2.4	14.4	0.4	1.9	3.0	991
Saboti Wards	Primary	13.4	8.6	47.7	0.5	8.1	18.6	0.3	2.7	11,113
Saboti Wards	Secondary+	16.0	9.9	42.4	0.9	6.2	21.4	0.2	3.0	4,584
Machewa Wards	Total	12.9	9.8	44.8	1.1	12.6	16.2	0.3	2.3	9,183
Machewa Wards	None	16.2	7.3	46.2	4.7	19.0	0.9	2.3	3.4	532
Machewa Wards	Primary	11.8	10.2	45.2	0.8	12.7	17.0	0.2	2.2	6,208
Machewa Wards	Secondary+	15.2	9.4	43.5	0.9	11.0	17.4	0.1	2.5	2,443
Kiminini Constituency	Total	25.4	13.3	21.9	1.2	13.1	16.1	0.5	8.5	95,773
Kiminini Constituency	None	28.3	11.0	26.5	2.5	18.0	0.9	2.8	10.1	6,088
Kiminini Constituency	Primary	23.4	12.5	24.5	0.9	14.6	15.3	0.5	8.3	50,346
Kiminini Constituency	Secondary+	27.5	14.5	17.9	1.4	10.4	19.5	0.2	8.6	39,339
Kiminini Wards	Total	23.3	13.0	21.0	1.1	16.7	16.0	0.4	8.5	16,505
Kiminini Wards	None	28.0	10.5	25.7	2.2	22.5	0.6	1.7	8.9	1,027
Kiminini Wards	Primary	22.5	12.3	22.0	0.8	18.3	15.2	0.5	8.5	8,768
Kiminini Wards	Secondary+	23.7	14.3	19.0	1.3	13.8	19.5	0.1	8.4	6,710
Waitaluk Wards	Total	27.0	9.1	25.5	1.2	12.4	16.5	0.6	7.7	20,218



Waitaluk Wards	None	32.4	8.0	28.1	2.4	18.3	1.0	2.4	7.4	1,523
Waitaluk Wards	Primary	26.8	8.6	27.0	1.0	13.1	14.9	0.6	8.1	11,317
Waitaluk Wards	Secondary+	26.3	10.1	22.8	1.3	10.0	22.1	0.4	7.1	7,378
Sirende Wards	Total	26.1	12.0	18.9	1.2	13.2	15.7	0.6	12.5	11,908
Sirende Wards	None	26.1	11.0	23.9	2.9	17.8	0.8	3.1	14.4	770
Sirende Wards	Primary	26.0	11.4	19.8	0.8	14.6	14.8	0.4	12.3	6,885
Sirende Wards	Secondary+	26.3	13.1	16.5	1.5	10.2	19.7	0.3	12.5	4,253
Hospital Wards	Total	37.0	15.6	6.6	1.6	12.6	15.9	0.3	10.4	16,929
Hospital Wards	None	38.8	12.6	8.9	2.8	18.8	1.6	1.8	14.7	824
Hospital Wards	Primary	34.2	14.6	7.4	1.6	17.0	14.3	0.3	10.8	5,718
Hospital Wards	Secondary+	38.4	16.4	6.1	1.5	9.7	17.9	0.1	9.8	10,387
Sikhendu Wards	Total	16.4	14.4	40.9	0.9	7.9	16.0	0.5	3.1	11,388
Sikhendu Wards	None	19.5	10.3	52.8	2.1	8.5	0.5	3.0	3.3	761
Sikhendu Wards	Primary	14.9	13.6	42.2	0.7	8.3	17.2	0.3	2.8	6,910
Sikhendu Wards	Secondary+	18.5	16.7	36.1	1.1	6.9	17.0	0.2	3.8	3,717
Nabiswa Wards	Total	20.2	15.9	23.0	1.2	14.1	16.3	0.7	8.7	18,825
Nabiswa Wards	None	23.1	14.5	22.2	2.6	19.3	0.8	4.7	12.9	1,183
Nabiswa Wards	Primary	18.8	15.8	24.6	0.9	15.7	15.5	0.6	8.1	10,748
Nabiswa Wards	Secondary+	21.7	16.3	20.7	1.5	10.6	20.3	0.2	8.8	6,894
Cherangany Constituency	Total	19.5	10.3	34.0	1.1	12.4	17.2	0.5	4.9	94,870
Cherangany Constituency	None	29.0	9.3	34.9	1.7	15.7	0.4	2.3	6.8	9,024
Cherangany Constituency	Primary	18.2	10.4	35.9	0.9	13.0	16.8	0.4	4.4	52,403
Cherangany Constituency	Secondary+	19.0	10.5	30.7	1.3	10.7	22.4	0.2	5.2	33,443
Sinyerere Wards	Total	19.8	11.2	31.3	1.3	10.8	19.3	0.4	5.9	12,660
Sinyerere Wards	None	25.0	15.2	33.9	2.2	12.5	0.9	2.1	8.1	1,135
Sinyerere Wards	Primary	18.3	10.7	33.7	1.2	11.4	19.1	0.3	5.2	6,697
Sinyerere Wards	Secondary+	20.6	10.8	27.3	1.4	9.6	23.8	0.3	6.4	4,828
Makutano Wards	Total	23.1	8.7	44.0	0.8	5.5	15.6	0.5	1.9	8,920
Makutano Wards	None	41.4	4.9	42.6	1.9	6.6	0.4	1.2	1.0	911
Makutano Wards	Primary	21.3	8.2	46.4	0.5	5.3	16.1	0.6	1.7	5,031
Makutano Wards	Secondary+	20.5	10.7	40.4	0.8	5.4	19.5	0.2	2.5	2,978

Kaplamai Wards	Total	15.8	8.0	32.5	1.1	19.5	17.6	0.8	4.8	12,430
Kaplamai Wards	None	23.4	5.9	35.9	1.7	20.4	0.1	4.4	8.1	862
Kaplamai Wards	Primary	14.4	8.0	36.3	1.0	20.0	15.4	0.6	4.4	6,989
Kaplamai Wards	Secondary+	16.5	8.4	26.0	1.2	18.7	24.1	0.3	4.8	4,579
Motosiet Wards	Total	22.3	10.7	26.7	1.3	12.9	18.1	0.6	7.5	15,741
Motosiet Wards	None	30.6	10.7	24.7	1.7	17.2	0.4	2.7	12.0	1,564
Motosiet Wards	Primary	21.5	10.6	27.2	1.1	13.4	18.7	0.4	7.3	8,860
Motosiet Wards	Secondary+	21.3	10.9	26.5	1.5	10.7	22.2	0.2	6.7	5,317
Cherangany/Suwerwa Wards	Total	16.0	9.9	42.0	0.7	11.7	16.1	0.5	3.2	18,057
Cherangany/Suwerwa Wards	None	24.7	8.7	38.4	1.5	19.5	0.3	2.7	4.3	1,618
Cherangany/Suwerwa Wards	Primary	15.2	10.0	44.3	0.5	11.8	15.1	0.3	2.9	9,649
Cherangany/Suwerwa Wards	Secondary+	15.1	10.0	39.6	0.8	9.7	21.2	0.3	3.3	6,790
Chepsiro/Kiptoror Wards	Total	16.8	10.9	35.7	0.7	14.7	16.5	0.5	4.3	13,788
Chepsiro/Kiptoror Wards	None	25.2	7.3	38.7	1.3	19.0	0.2	1.8	6.4	1,572
Chepsiro/Kiptoror Wards	Primary	15.1	11.7	36.8	0.5	15.9	16.1	0.3	3.7	8,444
Chepsiro/Kiptoror Wards	Secondary+	16.9	10.5	32.0	0.8	10.3	24.2	0.3	5.0	3,772
Sitatunga Wards	Total	24.6	12.5	27.2	2.0	10.0	17.1	0.5	6.1	13,274
Sitatunga Wards	None	35.2	10.7	32.8	1.6	11.0	0.4	1.8	6.5	1,362
Sitatunga Wards	Primary	23.7	13.0	28.5	1.7	10.5	17.0	0.5	5.2	6,733
Sitatunga Wards	Secondary+	23.1	12.2	24.1	2.6	9.0	21.7	0.2	7.2	5,179

Table 42.4: 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
Trans Nzoia	Total	24.1	13.0	30.2	1.3	11.3	13.1	0.4	6.6	300,030
Trans Nzoia	None	27.2	9.8	36.9	2.5	13.3	0.4	1.5	8.3	23,257
Trans Nzoia	Primary	21.4	12.5	33.2	1.0	12.3	12.8	0.4	6.3	169,610
Trans Nzoia	Secondary+	27.7	14.4	24.0	1.4	9.3	16.3	0.2	6.7	107,163
Kwanza Constituency	Total	19.9	13.7	32.8	1.7	10.6	12.5	0.5	8.3	60,133
Kwanza Constituency	None	22.0	10.1	41.6	2.3	12.5	0.3	1.4	9.7	5,715
Kwanza Constituency	Primary	17.0	13.8	34.8	1.5	11.4	12.6	0.5	8.4	33,958
Kwanza Constituency	Secondary+	24.2	14.6	27.0	1.9	8.7	15.6	0.2	7.8	20,460
Kapomboi Ward	Total	20.6	14.0	25.0	1.2	16.8	11.4	0.6	10.4	20,588
Kapomboi Ward	None	24.1	8.9	33.2	1.8	18.3	0.4	1.5	11.8	1,782
Kapomboi Ward	Primary	18.8	14.4	25.1	1.0	17.9	11.5	0.6	10.8	13,095
Kapomboi Ward	Secondary+	23.5	14.5	22.3	1.5	13.7	14.9	0.4	9.3	5,711
Kwanza Ward	Total	17.7	11.6	44.9	2.5	4.9	11.9	0.4	6.2	19,527
Kwanza Ward	None	23.1	9.5	48.5	2.2	7.9	0.2	1.6	7.0	1,937
Kwanza Ward	Primary	16.0	11.9	46.4	2.7	4.8	12.1	0.3	5.8	10,759
Kwanza Ward	Secondary+	18.8	11.9	41.4	2.2	4.2	14.8	0.2	6.5	6,831
Keiyo Ward	Total	12.8	11.6	45.6	1.2	6.7	14.2	0.4	7.6	11,279
Keiyo Ward	None	14.7	8.9	55.3	2.3	9.0	0.4	0.8	8.7	1,417
Keiyo Ward	Primary	10.8	12.8	45.9	0.7	6.7	15.3	0.4	7.5	7,043
Keiyo Ward	Secondary+	16.7	9.9	39.9	1.9	5.8	18.3	0.2	7.2	2,819
Bidii Ward	Total	32.7	20.6	7.7	1.8	13.8	13.9	0.4	9.1	8,739
Bidii Ward	None	29.5	18.8	10.7	4.7	18.7	0.5	2.1	15.0	579
Bidii Ward	Primary	26.9	20.5	10.4	1.3	18.3	12.7	0.6	9.2	3,061
Bidii Ward	Secondary+	36.6	20.8	5.7	1.8	10.6	16.1	0.1	8.3	5,099
Endebess Constituency	Total	21.6	8.6	48.2	1.3	7.4	9.1	0.2	3.6	33,609
Endebess Constituency	None	21.1	5.3	58.5	4.1	6.7	0.3	0.7	3.3	3,834

Endebess Constituency	Primary	19.8	8.7	49.5	0.9	7.9	9.2	0.2	3.7	22,267
Endebess Constituency	Secondary+	27.2	10.0	39.1	1.0	5.9	12.9	0.1	3.7	7,508
Chepchoina Ward	Total	22.0	8.8	48.0	2.2	6.5	7.1	0.3	5.1	13,647
Chepchoina Ward	None	14.5	4.4	66.4	5.5	5.0	0.1	0.6	3.4	2,478
Chepchoina Ward	Primary	21.5	9.8	45.9	1.5	7.3	8.1	0.2	5.6	8,675
Chepchoina Ward	Secondary+	30.8	9.7	37.4	1.3	5.5	10.4	0.2	4.8	2,494
Endebes Ward	Total	31.0	8.0	36.4	0.8	8.9	10.9	0.3	3.6	8,755
Endebes Ward	None	45.1	4.6	32.9	0.7	10.7	0.7	1.0	4.3	718
Endebes Ward	Primary	27.6	7.8	39.6	0.6	9.6	10.9	0.3	3.4	5,850
Endebes Ward	Secondary+	35.5	9.6	29.1	1.4	6.3	14.0	-	4.0	2,187
Matumbei Ward	Total	13.8	8.9	57.6	0.5	7.1	10.0	0.2	1.9	11,207
Matumbei Ward	None	19.6	9.6	56.4	2.4	8.5	0.6	1.1	1.9	638
Matumbei Ward	Primary	12.0	8.2	61.1	0.4	7.4	9.2	0.1	1.6	7,742
Matumbei Ward	Secondary+	17.7	10.5	48.3	0.4	6.0	14.4	0.1	2.5	2,827
Saboti Constituency	Total	28.6	15.7	23.8	1.1	11.5	12.0	0.3	7.0	67,885
Saboti Constituency	None	29.6	12.8	26.1	2.3	15.0	0.6	1.1	12.5	3,797
Saboti Constituency	Primary	24.4	14.7	28.2	0.9	12.8	12.2	0.3	6.6	37,992
Saboti Constituency	Secondary+	34.6	17.7	17.0	1.3	9.2	13.3	0.2	6.7	26,096
Kinyoro Ward	Total	20.9	9.4	40.1	0.8	10.0	11.6	0.2	7.2	13,738
Kinyoro Ward	None	27.1	8.6	36.2	0.8	14.2	0.3	0.7	12.1	1,073
Kinyoro Ward	Primary	18.9	8.9	42.1	0.7	10.4	12.2	0.1	6.6	8,687
Kinyoro Ward	Secondary+	23.5	10.6	36.7	0.9	7.9	13.3	0.2	7.1	3,978
Matisi Ward	Total	43.9	15.0	6.6	1.5	12.3	10.8	0.3	9.7	16,768
Matisi Ward	None	42.0	13.2	7.6	2.3	13.0	0.8	1.0	20.0	1,081
Matisi Ward	Primary	40.6	15.9	7.0	1.2	15.1	10.1	0.3	9.9	8,535
Matisi Ward	Secondary+	48.2	14.3	5.8	1.7	8.8	13.2	0.1	7.8	7,152
Tuwani Ward	Total	35.2	27.9	2.4	1.4	14.3	9.4	0.3	9.0	18,133
Tuwani Ward	None	29.5	28.3	3.6	2.9	20.0	0.7	1.2	13.8	689
Tuwani Ward	Primary	31.5	28.5	2.5	1.2	18.0	8.0	0.5	9.7	7,770
Tuwani Ward	Secondary+	38.6	27.4	2.3	1.4	10.9	11.1	0.2	8.1	9,674
Saboti Ward	Total	15.1	9.1	48.0	0.7	7.8	16.1	0.4	2.8	12,441

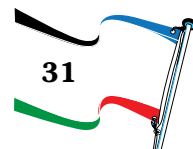
Saboti Ward	None	19.7	5.6	53.5	2.9	12.7	0.3	1.7	3.6	645
Saboti Ward	Primary	13.8	8.9	49.1	0.5	8.2	16.5	0.3	2.7	8,338
Saboti Ward	Secondary+	17.5	10.3	44.1	0.9	6.1	18.0	0.3	2.8	3,458
Machewa Ward	Total	13.6	10.0	46.1	0.9	12.0	14.9	0.3	2.1	6,805
Machewa Ward	None	15.9	6.8	48.5	4.2	18.4	0.6	1.6	3.9	309
Machewa Ward	Primary	12.3	10.5	46.5	0.7	12.2	15.5	0.2	2.0	4,662
Machewa Ward	Secondary+	16.6	9.3	44.8	0.9	10.4	15.6	0.2	2.2	1,834
Kiminini Constituency	Total	27.3	14.0	21.5	1.2	13.1	14.3	0.4	8.2	69,413
Kiminini Constituency	None	30.3	11.4	25.6	2.6	17.1	0.8	2.1	10.2	3,870
Kiminini Constituency	Primary	25.1	13.1	23.9	0.9	14.9	13.5	0.4	8.0	36,883
Kiminini Constituency	Secondary+	29.7	15.5	17.8	1.4	10.3	17.1	0.2	8.1	28,660
Kiminini Ward	Total	25.3	13.5	21.0	1.0	16.3	14.2	0.3	8.4	11,816
Kiminini Ward	None	30.3	11.4	24.5	2.0	20.9	0.6	0.9	9.3	656
Kiminini Ward	Primary	24.5	12.5	22.5	0.8	18.0	13.2	0.4	8.2	6,397
Kiminini Ward	Secondary+	25.7	15.2	18.6	1.2	13.4	17.4	0.0	8.4	4,763
Waitaluk Ward	Total	29.1	9.8	24.9	1.2	12.9	14.5	0.6	7.0	14,527
Waitaluk Ward	None	33.3	8.9	26.5	2.6	18.5	0.6	2.0	7.6	990
Waitaluk Ward	Primary	28.8	9.3	26.1	1.0	14.0	12.9	0.5	7.5	8,248
Waitaluk Ward	Secondary+	28.9	10.7	22.8	1.3	10.0	19.7	0.4	6.2	5,289
Sirende Ward	Total	27.7	12.5	17.7	1.1	13.6	14.5	0.4	12.4	8,706
Sirende Ward	None	27.6	10.5	23.0	3.2	18.4	0.6	2.3	14.3	474
Sirende Ward	Primary	27.2	12.0	18.4	0.6	15.1	13.6	0.4	12.6	5,099
Sirende Ward	Secondary+	28.5	13.8	15.8	1.5	10.3	18.1	0.3	11.8	3,133
Hospital Ward	Total	39.0	16.3	6.9	1.6	12.6	13.7	0.3	9.7	12,710
Hospital Ward	None	42.5	13.5	8.3	1.9	15.8	1.4	1.9	14.7	565
Hospital Ward	Primary	36.2	14.5	7.7	1.6	17.1	12.1	0.3	10.5	4,346
Hospital Ward	Secondary+	40.4	17.5	6.3	1.6	9.8	15.5	0.1	8.9	7,799
Sikhendu Ward	Total	17.4	15.3	40.8	1.0	7.9	14.3	0.4	2.9	8,153
Sikhendu Ward	None	21.3	10.4	52.0	2.1	7.9	0.9	2.3	3.0	469
Sikhendu Ward	Primary	15.4	14.5	42.2	0.7	8.8	15.6	0.3	2.5	4,966
Sikhendu Ward	Secondary+	20.2	17.5	36.5	1.3	6.5	14.4	0.1	3.6	2,718

Nabiswa Ward	Total	21.7	17.1	22.6	1.3	14.1	14.5	0.4	8.4	13,501
Nabiswa Ward	None	23.9	14.7	23.3	3.4	17.7	0.8	3.2	13.0	716
Nabiswa Ward	Primary	20.4	16.9	23.9	0.9	16.0	13.9	0.4	7.7	7,827
Nabiswa Ward	Secondary+	23.4	17.6	20.5	1.6	10.5	17.4	0.1	8.9	4,958
Cherangany Constituency	Total	21.1	10.8	34.3	1.1	12.0	15.6	0.5	4.6	68,990
Cherangany Constituency	None	32.4	9.6	33.0	1.6	14.9	0.3	2.0	6.1	6,041
Cherangany Constituency	Primary	19.5	10.9	36.3	0.9	12.8	15.1	0.4	4.2	38,510
Cherangany Constituency	Secondary+	21.0	10.9	31.5	1.4	10.0	20.1	0.2	4.9	24,439
Sinyerere Ward	Total	21.3	11.9	31.4	1.4	11.0	17.2	0.3	5.5	9,302
Sinyerere Ward	None	26.3	16.0	33.1	2.4	12.7	0.8	1.6	7.2	764
Sinyerere Ward	Primary	19.6	11.6	33.9	1.1	11.7	17.0	0.2	4.8	4,968
Sinyerere Ward	Secondary+	22.6	11.4	27.5	1.6	9.6	20.9	0.2	6.2	3,570
Makutano Ward	Total	24.3	8.9	44.4	0.7	5.3	14.1	0.4	1.8	6,718
Makutano Ward	None	44.5	4.3	40.6	1.6	6.5	0.5	1.0	1.1	631
Makutano Ward	Primary	22.6	8.2	46.8	0.5	5.2	14.5	0.4	1.8	3,817
Makutano Ward	Secondary+	21.6	11.4	41.5	0.8	5.3	17.1	0.2	2.1	2,270
Kaplamai Ward	Total	16.8	8.9	32.9	1.2	18.8	16.1	0.6	4.7	8,947
Kaplamai Ward	None	26.1	7.0	33.0	1.8	19.8	0.2	3.8	8.4	560
Kaplamai Ward	Primary	15.2	8.9	36.5	1.1	19.4	14.0	0.5	4.3	5,092
Kaplamai Ward	Secondary+	17.7	9.1	27.2	1.4	17.7	21.9	0.3	4.6	3,295
Motosiet Ward	Total	24.5	11.1	26.9	1.4	12.6	16.0	0.5	7.0	11,472
Motosiet Ward	None	32.8	11.4	23.5	1.7	17.6	0.1	2.2	10.8	1,082
Motosiet Ward	Primary	23.4	11.0	27.2	1.2	13.5	16.5	0.5	6.8	6,535
Motosiet Ward	Secondary+	24.1	11.2	27.4	1.7	9.6	19.5	0.2	6.3	3,855
Cherangany/Suwerwa Ward	Total	17.6	10.4	42.0	0.6	11.3	14.6	0.4	3.0	13,126
Cherangany/Suwerwa Ward	None	28.2	9.7	34.8	1.3	18.9	0.4	2.7	4.0	1,049
Cherangany/Suwerwa Ward	Primary	16.5	10.6	44.2	0.4	11.7	13.5	0.3	2.8	7,124
Cherangany/Suwerwa Ward	Secondary+	17.1	10.3	40.4	0.8	9.1	19.1	0.2	3.0	4,953
Chepsiro/Kiptoror Ward	Total	18.1	11.1	35.9	0.7	14.1	15.5	0.4	4.2	10,014
Chepsiro/Kiptoror Ward	None	29.1	7.3	38.3	1.4	16.7	0.3	1.5	5.4	1,042
Chepsiro/Kiptoror Ward	Primary	15.8	11.9	37.2	0.5	15.7	14.9	0.3	3.7	6,195

Chepsiro/Kiptoror Ward	Secondary+	19.1	10.7	32.0	0.9	9.7	22.7	0.3	4.7	2,777
Sitatunga Ward	Total	26.8	12.7	27.9	1.8	9.2	15.6	0.4	5.5	9,411
Sitatunga Ward	None	41.2	9.9	30.6	1.5	10.1	-	1.8	5.0	913
Sitatunga Ward	Primary	25.3	13.6	29.5	1.5	9.9	15.4	0.4	4.4	4,779
Sitatunga Ward	Secondary+	25.3	12.2	25.2	2.3	8.1	19.8	0.1	7.0	3,719

Table 42.5: 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
Trans Nzoia	Total	17.9	11.0	30.5	1.3	11.6	19.4	.7	7.7	104086
Trans Nzoia	None	21.8	10.1	38.3	2.2	15.5	.6	2.5	9.1	11648
Trans Nzoia	Primary	16.2	10.6	33.1	1.0	11.8	19.7	.5	7.1	56367
Trans Nzoia	Secondary+	19.2	11.9	23.9	1.3	10.0	25.2	.2	8.3	36071
Kwanza Constituency	Total	14.7	11.6	33.4	1.6	10.9	17.8	.7	9.2	21622
Kwanza Constituency	None	17.6	11.5	41.5	2.0	14.1	.5	2.2	10.5	2893
Kwanza Constituency	Primary	12.7	11.0	34.7	1.5	11.2	19.5	.5	8.8	11584
Kwanza Constituency	Secondary+	17.0	12.6	27.9	1.7	9.3	22.0	.2	9.4	7145
Kapomboi Ward	Total	15.1	10.7	26.1	1.5	16.7	17.8	.8	11.4	6756
Kapomboi Ward	None	20.0	10.6	31.0	2.7	18.8	.1	2.3	14.5	856
Kapomboi Ward	Primary	14.3	10.7	26.4	1.3	16.9	18.9	.8	10.8	4120
Kapomboi Ward	Secondary+	14.5	10.6	23.0	1.3	15.2	23.7	.3	11.3	1780
Kwanza Ward	Total	12.2	11.4	44.0	2.1	6.7	16.1	.6	7.0	7461
Kwanza Ward	None	17.0	11.4	48.2	1.9	11.6	.4	2.5	7.1	1047
Kwanza Ward	Primary	11.5	11.3	44.0	2.2	6.1	17.6	.3	7.2	3928



Kwanza Ward	Secondary+	11.3	11.6	42.2	1.9	5.7	20.4	.2	6.6	2486
Keiyo Ward	Total	9.5	8.3	45.5	1.0	7.1	19.8	.6	8.1	4203
Keiyo Ward	None	11.5	10.7	54.8	1.6	10.7	1.0	1.5	8.3	732
Keiyo Ward	Primary	8.4	7.5	44.6	.7	6.6	24.0	.5	7.7	2457
Keiyo Ward	Secondary+	10.7	8.7	41.0	1.2	5.8	23.4	.1	9.1	1014
Bidii Ward	Total	26.9	18.5	8.0	1.8	13.7	19.1	.6	11.3	3202
Bidii Ward	None	29.5	17.4	11.2	1.6	18.6	1.2	2.7	17.8	258
Bidii Ward	Primary	20.7	19.6	10.4	1.7	18.4	19.0	.6	9.6	1079
Bidii Ward	Secondary+	30.2	17.9	6.2	2.0	10.3	21.7	.3	11.4	1865
Endebess Constituency	Total	17.7	7.4	47.4	1.1	7.4	14.2	.4	4.4	9679
Endebess Constituency	None	19.9	6.6	55.6	2.9	8.9	.2	1.3	4.7	1501
Endebess Constituency	Primary	16.8	7.4	48.1	.7	7.3	14.9	.3	4.4	6177
Endebess Constituency	Secondary+	18.6	7.9	38.9	.8	6.6	22.5	.2	4.4	2001
Chepchoina Ward	Total	19.0	7.8	44.9	1.7	7.5	11.6	.4	7.2	3731
Chepchoina Ward	None	13.4	5.7	60.8	3.6	8.2	0.0	1.2	7.1	806
Chepchoina Ward	Primary	19.9	8.4	42.3	1.1	7.7	13.2	.2	7.3	2310
Chepchoina Ward	Secondary+	23.1	8.3	33.7	1.5	5.5	20.8	.2	7.0	615
Endebes Ward	Total	26.1	6.4	39.5	.9	7.1	16.1	.6	3.4	2591
Endebes Ward	None	43.2	5.2	35.5	1.6	11.0	0.0	1.3	2.3	310
Endebes Ward	Primary	23.9	6.4	41.6	1.0	6.9	16.5	.6	3.2	1677
Endebes Ward	Secondary+	23.5	7.1	35.8	.3	5.6	23.0	.2	4.5	604
Matumbei Ward	Total	9.7	7.7	56.2	.5	7.6	15.6	.4	2.2	3357
Matumbei Ward	None	14.8	9.6	61.0	2.3	8.6	.8	1.3	1.6	385
Matumbei Ward	Primary	8.2	7.2	59.2	.2	7.3	15.4	.2	2.3	2190
Matumbei Ward	Secondary+	11.4	8.2	45.5	.6	8.2	23.4	.4	2.3	782
Saboti Constituency	Total	21.3	13.9	25.7	1.3	10.1	19.3	.5	8.0	20594
Saboti Constituency	None	25.6	12.5	31.4	2.8	15.4	.5	1.4	10.5	2057
Saboti Constituency	Primary	18.2	13.4	29.3	1.1	10.7	19.8	.4	7.1	11274
Saboti Constituency	Secondary+	24.9	15.0	18.4	1.3	7.8	23.8	.2	8.7	7263
Kinyoro Ward	Total	15.5	8.2	41.1	1.1	9.3	17.3	.4	7.1	5018
Kinyoro Ward	None	19.0	8.6	43.7	2.0	15.1	.3	.7	10.6	689
Kinyoro Ward	Primary	14.3	7.7	42.4	1.0	9.0	19.0	.3	6.4	2964
Kinyoro Ward	Secondary+	16.5	9.3	36.8	.9	7.1	22.2	.3	6.9	1365
Matisi Ward	Total	34.6	14.9	7.5	1.9	10.0	18.1	.6	12.4	4335
Matisi Ward	None	46.0	11.0	10.1	2.8	11.5	.5	1.4	16.8	435
Matisi Ward	Primary	31.0	16.7	7.8	1.6	12.7	17.4	.7	11.9	2019
Matisi Ward	Secondary+	35.7	13.9	6.6	1.9	6.8	22.9	.3	11.9	1881
Tuwani Ward	Total	28.4	26.8	2.9	1.6	10.5	17.2	.4	12.2	4631
Tuwani Ward	None	25.5	30.5	7.7	3.8	15.9	.3	.8	15.4	364
Tuwani Ward	Primary	25.6	29.8	2.9	1.2	12.0	15.1	.6	13.0	1976
Tuwani Ward	Secondary+	31.3	23.7	2.2	1.5	8.2	21.7	.3	11.1	2291
Saboti Ward	Total	12.6	7.9	42.1	.8	8.4	24.8	.5	2.9	4232
Saboti Ward	None	19.1	6.1	50.9	1.4	17.6	.6	2.3	2.0	346
Saboti Ward	Primary	12.4	7.7	43.1	.7	8.0	24.9	.5	2.7	2769
Saboti Ward	Secondary+	11.3	8.8	37.0	.8	6.5	32.0	.1	3.6	1117
Machewa Ward	Total	10.9	9.1	41.1	1.5	14.3	19.8	.4	2.8	2378
Machewa Ward	None	16.6	8.1	43.0	5.4	19.7	1.3	3.1	2.7	223
Machewa Ward	Primary	10.0	9.1	41.5	1.2	14.1	21.3	.1	2.7	1546

Machewa Ward	Secondary+	11.2	9.5	39.6	1.0	13.0	22.7	0.0	3.1	609
Kiminini Constituency	Total	20.5	11.3	23.0	1.2	12.9	20.9	.8	9.4	26337
Kiminini Constituency	None	24.8	10.2	28.1	2.3	19.6	1.0	4.0	9.9	2217
Kiminini Constituency	Primary	18.8	10.8	25.9	1.0	13.5	20.2	.7	9.0	13454
Kiminini Constituency	Secondary+	21.6	12.0	18.4	1.3	10.7	25.8	.2	9.8	10666
Kiminini Ward	Total	18.3	11.7	20.9	1.2	17.9	20.5	.7	8.8	4689
Kiminini Ward	None	23.7	8.9	27.8	2.7	25.3	.5	3.0	8.1	371
Kiminini Ward	Primary	17.3	11.8	20.5	.8	19.2	20.4	.7	9.3	2371
Kiminini Ward	Secondary+	18.6	12.2	19.9	1.5	14.8	24.6	.2	8.3	1947
Waitaluk Ward	Total	21.5	7.5	27.2	1.1	11.1	21.4	.8	9.3	5672
Waitaluk Ward	None	30.4	6.4	31.1	1.9	18.1	1.7	3.2	7.2	530
Waitaluk Ward	Primary	21.2	6.9	29.4	.8	10.7	20.4	.8	9.8	3063
Waitaluk Ward	Secondary+	19.6	8.8	22.8	1.2	10.0	28.0	.4	9.2	2079
Sirende Ward	Total	21.7	10.3	21.9	1.4	12.3	18.7	.8	12.8	3200
Sirende Ward	None	23.9	11.8	25.3	2.4	16.8	1.0	4.4	14.5	297
Sirende Ward	Primary	22.5	9.6	23.6	1.1	13.0	18.1	.6	11.4	1786
Sirende Ward	Secondary+	19.9	10.9	18.3	1.7	10.0	24.3	.3	14.7	1117
Hospital Ward	Total	31.0	13.7	5.9	1.7	12.8	22.5	.4	12.2	4219
Hospital Ward	None	30.9	10.8	10.0	4.6	25.5	1.9	1.5	14.7	259
Hospital Ward	Primary	27.7	14.8	6.1	1.5	16.5	21.3	.6	11.4	1372
Hospital Ward	Secondary+	32.7	13.4	5.3	1.5	9.5	25.2	.1	12.4	2588
Sikhendu Ward	Total	13.9	12.2	41.0	.8	7.6	20.2	.6	3.6	3236
Sikhendu Ward	None	16.4	10.2	53.9	2.0	9.6	0.0	4.1	3.8	293
Sikhendu Ward	Primary	13.6	11.3	42.2	.7	7.2	21.5	.4	3.3	1944
Sikhendu Ward	Secondary+	13.7	14.5	34.9	.6	7.9	23.8	.2	4.3	999
Nabiswa Ward	Total	16.2	12.9	23.9	1.1	14.2	21.1	1.3	9.3	5321
Nabiswa Ward	None	21.8	14.1	20.6	1.5	21.6	.6	6.9	12.8	467
Nabiswa Ward	Primary	14.7	12.7	26.4	1.0	15.1	19.9	1.0	9.2	2918
Nabiswa Ward	Secondary+	17.3	13.0	21.1	1.2	10.8	27.7	.3	8.6	1936
Cherangany Constituency	Total	15.2	9.1	33.1	1.1	13.5	21.5	.7	5.8	25854
Cherangany Constituency	None	22.0	8.7	38.7	1.7	17.1	.5	3.0	8.3	2980
Cherangany Constituency	Primary	14.7	9.0	35.0	.9	13.4	21.4	.5	5.1	13878
Cherangany Constituency	Secondary+	13.6	9.5	28.4	1.2	12.4	28.5	.3	6.0	8996
Sinyerere Ward	Total	15.5	9.2	31.0	1.0	10.5	25.0	.7	7.0	3348
Sinyerere Ward	None	22.4	13.7	35.6	1.9	12.1	1.1	3.2	10.0	371
Sinyerere Ward	Primary	14.6	8.3	33.2	1.2	10.7	25.2	.5	6.4	1724
Sinyerere Ward	Secondary+	14.8	9.1	26.7	.6	9.6	31.9	.3	6.9	1253
Makutano Ward	Total	19.2	8.0	42.9	.9	5.8	20.3	.8	2.2	2200
Makutano Ward	None	34.2	6.5	47.1	2.5	6.8	.4	1.8	.7	278
Makutano Ward	Primary	17.2	8.1	45.2	.4	5.5	21.0	1.0	1.6	1214
Makutano Ward	Secondary+	16.8	8.3	37.1	1.0	5.8	27.0	.1	3.8	708
Kaplamai Ward	Total	13.2	5.7	31.4	.9	21.3	21.3	1.1	5.2	3483
Kaplamai Ward	None	18.5	4.0	41.1	1.7	21.5	0.0	5.6	7.6	302
Kaplamai Ward	Primary	12.1	5.4	35.6	.7	21.4	19.0	1.0	4.7	1897
Kaplamai Ward	Secondary+	13.5	6.5	23.0	.9	21.0	29.7	.2	5.3	1284
Motosiet Ward	Total	16.5	9.5	26.2	1.0	13.6	23.7	.7	8.9	4270

Motosiet Ward	None	25.7	9.3	27.6	1.7	16.4	1.0	3.7	14.5	482
Motosiet Ward	Primary	16.2	9.2	27.2	.9	13.1	24.8	.3	8.4	2326
Motosiet Ward	Secondary+	13.8	10.1	24.0	1.1	13.5	29.4	.3	7.9	1462
Cherangany/Suwerwa Ward	Total	11.7	8.5	41.9	.8	12.7	20.1	.7	3.6	4924
Cherangany/Suwerwa Ward	None	18.1	6.7	44.9	1.8	20.8	.2	2.6	4.9	568
Cherangany/Suwerwa Ward	Primary	11.6	8.4	44.3	.6	11.9	19.6	.5	3.1	2521
Cherangany/Suwerwa Ward	Secondary+	9.8	9.3	37.5	.7	11.2	27.0	.4	4.0	1835
Chepsiro/Kiptoror Ward	Total	13.2	10.2	35.3	.6	16.3	19.1	.5	4.8	3770
Chepsiro/Kiptoror Ward	None	17.5	7.4	39.6	1.1	23.6	0.0	2.5	8.3	530
Chepsiro/Kiptoror Ward	Primary	13.2	11.0	35.6	.5	16.5	19.5	.3	3.5	2245
Chepsiro/Kiptoror Ward	Secondary+	11.0	9.9	32.1	.7	12.0	28.3	.1	5.9	995
Sitatunga Ward	Total	19.3	12.0	25.5	2.4	11.8	20.7	.6	7.6	3859
Sitatunga Ward	None	22.9	12.5	37.4	1.8	12.9	1.1	1.8	9.6	449
Sitatunga Ward	Primary	19.8	11.8	26.1	2.0	11.9	20.9	.6	7.0	1951
Sitatunga Ward	Secondary+	17.5	12.2	21.0	3.2	11.3	26.6	.3	7.8	1459

Tabke 42.6: 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
Trans Nzoia County	0.022	2,920	0.018	0.360
Kwanza Constituency	0.004	2,740	0.0035	0.342
Kapomboi	0.001	2,750	0.0012	0.334
Kwanza	0.001	2,380	0.0010	0.290
Keiyo	0.001	2,120	0.0005	0.288
Bidii	0.001	4,650	0.0008	0.340
Endebess Constituency	0.002	2,220	0.0016	0.292
Chepchoina	0.001	2,170	0.0006	0.288
Endebes	0.001	2,140	0.0004	0.307
Matumbei	0.001	2,330	0.0006	0.281
Saboti Constituency	0.005	4,120	0.0055	0.394
Kinyoro	0.001	2,430	0.0007	0.284
Matisi	0.001	5,560	0.0016	0.324
Tuwani	0.001	6,770	0.0020	0.303
Saboti	0.001	2,500	0.0007	0.284
Machewa	0.001	2,410	0.0004	0.276
Kimini Constituency	0.005	2,930	0.0043	0.343
Kimini	0.001	2,770	0.0007	0.334
Waitaluk	0.001	2,550	0.0008	0.286
Sirende	0.001	2,570	0.0005	0.291
Hospital	0.001	4,690	0.0010	0.341
Sikhendu	0.001	2,290	0.0004	0.287
Nabiswa	0.001	2,780	0.0008	0.340
Cherangany Constituency	0.005	2,320	0.0035	0.291

Sinyerere	0.001	2,320	0.0005	0.295
Makutano	0.000	2,290	0.0003	0.297
Kaplamai	0.001	2,190	0.0004	0.292
Motosiet	0.001	2,290	0.0006	0.295
Cherangany/Suwerwa	0.001	2,460	0.0007	0.283
Chepsiro/Kiptoror	0.001	2,220	0.0005	0.282
Sitatunga	0.001	2,440	0.0005	0.293

Table 42.7: 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
Trans Nzoia County	20.2	59.3	20.5	715,376
Kwanza Constituency	21.3	59.2	19.5	145,184
Kapomboi	21.4	62.9	15.7	48,867
Kwanza	20.5	59.8	19.7	48,742
Keiyo	25.2	61.1	13.7	28,844
Bidii	16.6	45.4	38.0	18,731
Endebess Constituency	24.1	63.8	12.1	79,374
Chepchoina	29.1	61.0	10.0	31,628
Endebes	20.9	65.4	13.8	20,395
Matumbei	20.8	65.8	13.4	27,351
Saboti Constituency	18.8	58.6	22.5	151,166
Kinyoro	22.2	62.0	15.8	34,586
Matisi	17.7	54.9	27.4	33,536
Tuwani	14.6	50.3	35.1	34,619
Saboti	19.8	64.9	15.3	30,871
Machewa	21.1	64.6	14.2	17,554
Kiminini Constituency	18.2	57.6	24.2	167,131
Kiminini	18.5	58.1	23.4	29,457
Waitaluk	19.5	59.4	21.1	35,973
Sirende	18.0	61.0	21.0	20,814
Hospital	14.3	44.6	41.2	25,844
Sikhendu	18.9	62.9	18.2	21,039
Nabiswa	19.1	60.1	20.9	34,004
Cherangany Constituency	20.8	59.3	19.9	172,521
Sinyerere	18.9	59.2	22.0	22,761
Makutano	22.6	58.6	18.9	16,289
Kaplamai	19.4	59.9	20.7	22,544
Motosiet	21.5	59.7	18.8	28,978
Cherangany/Suwerwa	20.3	58.3	21.4	32,479

Chepsiro/Kiptoror	23.2	62.1	14.7	26,055
Sitatunga	19.9	57.4	22.7	23,415

Table 42.8: 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
Trans Nzoia County	19.2	58.6	22.2	353,755	21.2	59.9	18.9	361,621
Kwanza Constituency	20.1	58.9	21.1	71,702	22.4	59.6	18.0	73,482
Kapomboi	20.3	62.4	17.3	24,345	22.5	63.4	14.1	24,522
Kwanza	19.2	59.3	21.6	24,199	21.9	60.3	17.8	24,543
Keiyo	23.8	61.1	15.1	14,054	26.6	61.1	12.4	14,790
Bidii	16.2	44.8	39.1	9,104	17.1	46.0	36.9	9,627
Endebess Constituency	22.7	62.9	14.5	39,813	25.6	64.6	9.8	39,561
Chepchoina	27.6	60.2	12.2	16,053	30.6	61.7	7.7	15,575
Endebes	19.4	64.2	16.3	10,214	22.3	66.5	11.2	10,181
Matumbei	19.2	65.0	15.7	13,546	22.4	66.5	11.1	13,805
Saboti Constituency	17.8	57.3	24.9	75,862	19.9	59.9	20.1	75,304
Kinyoro	20.5	61.8	17.7	17,176	23.8	62.2	14.0	17,410
Matisi	16.7	53.3	30.0	17,098	18.8	56.5	24.7	16,438
Tuwani	14.3	47.5	38.1	17,447	14.9	53.1	32.1	17,172
Saboti	18.6	64.3	17.1	15,540	21.0	65.6	13.4	15,331
Machewa	20.0	63.7	16.3	8,601	22.2	65.5	12.3	8,953
Kimini Constituency	17.4	57.3	25.3	81,261	18.9	58.0	23.1	85,870
Kimini	18.2	57.6	24.2	14,331	18.8	58.6	22.6	15,126
Waitaluk	18.8	58.9	22.3	17,575	20.2	59.8	20.0	18,398
Sirende	16.3	61.4	22.3	10,103	19.6	60.7	19.7	10,711
Hospital	14.0	43.4	42.6	12,693	14.5	45.7	39.8	13,151
Sikhendu	18.4	62.4	19.3	10,129	19.4	63.4	17.2	10,910
Nabiswa	18.0	60.3	21.7	16,430	20.1	59.8	20.1	17,574

Cherangany Constituency	19.8	58.8	21.4	85,117		21.8	59.8	18.4	87,404
Sinyerere	17.8	58.3	24.0	11,266		19.9	60.0	20.1	11,495
Makutano	20.8	58.2	21.1	8,214		24.4	59.0	16.6	8,075
Kaplamai	18.5	59.6	21.9	10,988		20.3	60.1	19.6	11,556
Motosiet	21.1	59.2	19.7	14,253		22.0	60.2	17.9	14,725
Cherangany/Suwerwa	18.9	58.0	23.1	15,925		21.8	58.5	19.7	16,554
Chepsiro/Kiptoror	22.9	60.9	16.3	12,889		23.5	63.2	13.3	13,166
Sitatunga	19.0	57.2	23.8	11,582		20.8	57.5	21.7	11,833

Table 42.9: 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
Trans Nzoia County	0.3	3.4	0.9	0.5	76.5	18.2	0.0	0.2	166,597
Kwanza Constituency	0.4	2.2	0.7	0.4	79.7	16.4	0.0	0.2	32,386
Kapomboi	0.1	1.4	0.1	0.2	85.5	12.5	0.0	0.1	11,276
Kwanza	0.2	0.8	0.1	0.2	92.5	6.1	0.0	0.0	10,023
Keiyo	0.0	1.8	0.1	0.1	90.2	7.7	0.0	0.0	6,028
Bidii	1.7	7.5	3.7	1.7	28.8	55.9	0.0	0.7	5,059
Endebess Constituency	0.3	2.5	0.3	0.5	91.2	5.1	0.0	0.1	17,505
Chepchoina	0.0	2.9	0.3	0.3	91.1	5.2	0.0	0.1	7,299
Endebes	1.1	2.0	0.6	0.7	90.0	5.7	0.0	0.0	4,429
Matumbei	0.0	2.5	0.1	0.5	92.3	4.4	0.1	-	5,777
Saboti Constituency	0.4	6.9	1.1	0.5	52.6	38.1	0.0	0.4	38,823
Kinyoro	0.1	2.6	0.2	0.4	92.6	4.1	0.0	0.0	7,571
Matisi	0.6	8.8	1.5	0.9	34.3	53.4	0.0	0.5	9,776
Tuwani	0.7	13.5	2.2	0.5	3.9	78.5	0.0	0.7	11,291
Saboti	0.1	1.1	0.1	0.2	93.3	5.0	0.0	0.1	6,545
Machewa	-	1.0	0.1	0.3	96.6	2.0	0.1	-	3,640
Kimini Constituency	0.4	3.5	1.7	0.6	77.2	16.5	0.0	0.1	39,341

Kimini	0.1	4.8	0.7	0.5	82.2	11.4	0.1	0.2	6,812
Waitaluk	0.2	1.5	0.8	0.3	89.2	8.1	0.0	0.1	8,194
Sirende	0.2	2.2	0.4	0.5	85.6	11.1	0.0	0.1	4,744
Hospital	1.3	7.9	6.6	2.0	35.4	46.5	0.0	0.2	7,117
Sikhendu	0.1	2.2	0.2	0.2	90.9	6.3	0.1	0.1	4,776
Nabiswa	0.2	2.0	0.5	0.3	85.1	11.7	0.1	0.1	7,698
Cherangany Constituency	0.2	1.1	0.3	0.3	90.6	7.4	0.0	0.1	38,542
Sinyerere	0.2	1.1	0.2	0.5	87.4	10.5	0.0	0.1	5,219
Makutano	0.1	0.5	0.3	0.2	91.9	7.0	-	0.1	3,948
Kaplamai	0.2	1.6	0.3	0.5	90.0	6.9	0.1	0.5	4,526
Motosiet	0.1	1.2	0.2	0.4	89.3	8.6	0.1	0.1	6,500
Cherangany/Suwerwa	0.0	0.6	0.2	0.2	92.8	6.0	0.0	0.1	7,435
Chepsiro/Kiptoror	0.2	0.7	0.1	0.1	95.9	3.0	-	0.0	5,641
Sitatunga	0.6	2.0	0.5	0.3	86.3	10.0	0.0	0.2	5,273

Table 42.10: 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
Trans Nzoia County	0.3	3.9	0.9	0.5	75.0	19.1	0.0	0.2	117,604
Kwanza Constituency	0.4	2.5	0.6	0.4	78.9	16.9	0.0	0.2	22,672
Kapomboi	0.1	1.7	0.1	0.2	84.3	13.5	0.0	0.2	8,076
Kwanza	0.2	0.9	0.1	0.2	92.3	6.2	0.0	0.1	6,918
Keiyo	0.0	1.9	0.0	0.1	89.0	8.8	0.1	0.0	4,145
Bidii	1.9	8.3	3.6	1.7	28.4	55.2	0.0	0.9	3,533
Endebess Constituency	0.3	2.7	0.4	0.5	90.7	5.3	0.0	0.1	13,017
Chepchoina	0.0	3.1	0.4	0.3	90.5	5.5	0.0	0.2	5,434
Endebes	1.1	2.3	0.7	0.7	89.4	5.8	0.1	0.0	3,325
Matumbei	0.0	2.5	0.1	0.6	91.9	4.8	0.0	0.0	4,258
Saboti Constituency	0.4	7.9	1.1	0.5	50.2	39.5	0.0	0.4	28,605
Kinyoro	0.1	2.9	0.1	0.3	92.2	4.3	0.0	0.1	5,273
Matisi	0.6	9.9	1.4	0.9	32.4	54.2	0.0	0.6	7,552
Tuwani	0.7	14.7	2.1	0.5	3.6	77.6	0.0	0.8	8,627
Saboti	0.1	1.4	0.2	0.2	93.0	5.0	0.0	0.2	4,660
Machewa	0.0	1.2	0.0	0.3	96.1	2.3	0.0	0.0	2,493
Kimini Constituency	0.4	3.9	1.8	0.7	75.9	17.2	0.1	0.2	26,895
Kimini	0.1	4.9	0.7	0.4	81.5	12.0	0.1	0.2	4,599
Waitaluk	0.2	1.8	0.8	0.3	88.3	8.5	0.0	0.1	5,530

Sirende	0.2	2.5	0.4	0.6	84.4	11.8	0.1	0.1	3,280
Hospital	1.5	8.7	6.7	2.1	35.1	45.8	0.0	0.3	5,162
Sikhendu	0.1	2.2	0.3	0.2	90.2	6.8	0.1	0.2	3,157
Nabiswa	0.2	2.3	0.6	0.3	84.3	12.2	0.0	0.1	5,167
Cherangany Constituency	0.2	1.3	0.3	0.3	90.1	7.6	0.0	0.2	26,415
Sinyerere	0.2	1.3	0.2	0.5	86.4	11.1	0.0	0.2	3,670
Makutano	0.1	0.5	0.4	0.2	91.3	7.4	0.0	0.1	2,830
Kaplamai	0.2	1.6	0.3	0.5	89.9	7.0	0.1	0.4	3,049
Motosiet	0.0	1.6	0.1	0.4	88.5	9.1	0.1	0.1	4,430
Cherangany/Suwerwa	0.0	0.7	0.2	0.2	92.6	6.1	0.0	0.1	5,103
Chepsiro/Kiptoror	0.2	0.9	0.1	0.2	95.4	3.2	0.0	0.0	3,804
Sitatunga	0.8	2.3	0.6	0.4	85.9	9.8	0.0	0.3	3,529

Table 42.11: 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
Trans Nzoia County	0.3	2.2	0.8	0.5	80.1	16.0	0.0	0.1	48,993
Kwanza Constituency	0.3	1.5	0.8	0.5	81.6	15.2	0.0	0.0	9,714
Kapomboi	0.1	0.8	0.3	0.3	88.7	9.9	-	0.0	3,200
Kwanza	0.1	0.5	0.2	0.3	93.0	5.8	0.1	-	3,105
Keiyo	-	1.5	0.2	0.1	92.9	5.4	-	-	1,883
Bidii	1.4	5.5	4.0	1.7	29.7	57.5	0.1	0.1	1,526
Endebess Constituency	0.3	2.0	0.1	0.4	92.7	4.4	0.0	-	4,488
Chepchoina	0.1	2.4	0.2	0.3	92.7	4.5	0.1	-	1,865
Endebes	1.0	0.9	0.1	0.6	91.8	5.5	-	-	1,104
Matumbei	-	2.5	0.1	0.3	93.5	3.5	0.1	-	1,519
Saboti Constituency	0.4	4.1	1.1	0.6	59.5	34.2	0.0	0.1	10,218
Kinyoro	0.2	1.8	0.3	0.5	93.6	3.6	-	-	2,298
Matisi	0.6	4.9	1.8	1.1	40.6	50.7	-	0.2	2,224
Tuwani	0.7	9.5	2.3	0.7	4.8	81.6	0.1	0.4	2,664
Saboti	-	0.4	0.1	0.2	94.3	5.0	-	-	1,885
Machewa	-	0.7	0.1	0.3	97.6	1.2	0.1	-	1,147
Kimini Constituency	0.3	2.7	1.4	0.6	80.0	14.9	0.0	0.1	12,446

Kiminiini	0.3	4.6	0.7	0.5	83.5	10.3	-	0.2	2,213
Waitaluk	0.1	0.8	0.7	0.3	90.9	7.1	0.0	0.0	2,664
Sirende	0.2	1.4	0.3	0.5	88.3	9.4	-	-	1,464
Hospital	1.0	6.0	6.6	1.8	36.1	48.4	-	0.1	1,955
Sikhendu	0.2	2.2	0.1	0.2	92.1	5.3	-	-	1,619
Nabiswa	0.1	1.5	0.4	0.2	86.8	10.8	0.1	0.1	2,531
Cherangany Constituency	0.1	0.7	0.2	0.3	91.7	6.8	0.0	0.1	12,127
Sinyerere	0.1	0.5	0.1	0.5	89.6	9.0	0.1	-	1,549
Makutano	-	0.4	0.1	0.2	93.4	6.0	-	-	1,118
Kaplamai	0.1	1.6	0.3	0.5	90.0	6.9	-	0.5	1,477
Motosiet	0.1	0.6	0.2	0.4	91.1	7.6	-	-	2,070
Cherangany/Suwerwa	0.0	0.4	0.3	0.3	93.2	5.7	0.0	-	2,332
Chepsiro/Kiptoror	0.2	0.2	0.1	0.1	97.0	2.4	-	-	1,837
Sitatunga	0.4	1.3	0.5	0.2	87.0	10.4	0.1	0.1	1,744

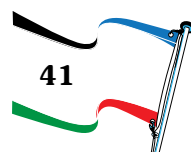
Table 42.12: Lighting Fuel by County, Constituency and Wards

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
Trans Nzoia County	9.0	0.6	38.8	49.3	0.6	0.6	0.8	0.3	117,604
Kwanza Constituency	9.0	0.6	34.8	53.5	0.6	0.5	0.6	0.4	22,672
Kapomboi	2.0	0.5	34.9	60.6	0.6	0.3	0.6	0.3	8,076
Kwanza	2.9	0.6	39.5	54.2	0.9	0.6	1.0	0.3	6,918
Keiyo	0.7	0.4	27.5	69.0	0.6	0.8	0.3	0.9	4,145
Bidii	46.7	0.8	33.7	17.7	0.2	0.3	0.3	0.4	3,533
Endebess Constituency	1.8	0.2	23.3	72.3	0.5	1.5	0.3	0.1	13,017
Chepchoina	0.5	0.2	21.2	74.1	0.6	2.9	0.3	0.1	5,434
Endebes	4.8	0.2	24.7	68.7	0.6	0.6	0.2	0.3	3,325
Matumbei	1.0	0.1	25.1	72.8	0.4	0.3	0.4	0.0	4,258
Saboti Constituency	13.4	0.6	35.1	49.2	0.6	0.4	0.4	0.3	28,605
Kinyoro	1.5	0.3	26.2	70.7	0.6	0.3	0.3	0.1	5,273
Matisi	18.1	0.6	36.6	43.0	0.5	0.5	0.4	0.3	7,552
Tuwani	28.7	0.9	47.5	21.6	0.3	0.2	0.4	0.5	8,627
Saboti	1.1	0.3	27.3	68.4	1.2	0.8	0.3	0.6	4,660
Machewa	0.1	0.7	25.4	72.4	0.7	0.3	0.4	0.0	2,493
Kiminiini Constituency	12.4	0.9	42.1	42.0	0.7	0.4	1.2	0.2	26,895
Kiminiini	5.5	0.9	41.7	47.9	1.0	1.5	1.3	0.1	4,599

Waitaluk	6.6	1.2	48.7	40.6	0.5	0.2	1.9	0.3	5,530
Sirende	5.0	1.0	49.1	41.8	1.1	0.1	1.6	0.3	3,280
Hospital	45.6	0.6	33.7	18.9	0.3	0.2	0.7	0.1	5,162
Sikhendu	3.4	0.6	37.4	56.9	0.8	0.1	0.6	0.1	3,157
Nabiswa	4.3	1.0	42.0	50.7	0.6	0.2	1.0	0.1	5,167
Cherangany Constituency	4.3	0.4	49.3	43.1	0.7	0.6	1.4	0.3	26,415
Sinyerere	5.9	0.6	45.7	45.3	1.0	0.4	1.1	0.1	3,670
Makutano	4.4	0.6	44.0	48.8	0.3	0.8	1.0	0.1	2,830
Kaplamai	6.1	0.4	49.2	41.4	0.5	0.2	1.6	0.7	3,049
Motosiet	4.2	0.3	45.8	46.9	0.9	0.3	1.4	0.2	4,430
Cherangany/Suwerwa	1.4	0.2	53.2	42.8	0.6	0.4	1.3	0.2	5,103
Chepsiro/Kiptoror	0.8	0.1	55.0	38.8	0.8	2.1	1.6	0.8	3,804
Sitatunga	8.8	0.8	49.7	38.1	0.5	0.3	1.5	0.3	3,529

Table 42.13: 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	House- holds
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
Trans Nzoia County	9.2	0.6	38.8	49.0	0.6	0.6	0.9	0.3	117,604
Kwanza Constituency	9.0	0.6	35.1	53.0	0.6	0.5	0.6	0.5	22,672
Kapomboi	2.3	0.5	35.4	59.8	0.6	0.3	0.6	0.3	8,076
Kwanza	3.2	0.7	39.9	53.3	0.9	0.7	1.0	0.3	6,918
Keiyo	0.7	0.3	27.6	68.8	0.5	0.7	0.3	1.1	4,145
Bidii	45.5	0.9	34.1	18.4	0.2	0.3	0.3	0.4	3,533
Endebess Constituency	1.9	0.2	24.3	71.3	0.4	1.5	0.4	0.1	13,017
Chepchoina	0.5	0.2	22.3	73.1	0.5	2.9	0.4	0.1	5,434
Endebes	5.2	0.2	24.9	68.1	0.5	0.5	0.3	0.3	3,325
Matumbei	1.1	0.1	26.3	71.4	0.3	0.3	0.5	0.0	4,258
Saboti Constituency	13.9	0.6	35.2	48.6	0.6	0.4	0.4	0.3	28,605
Kinyoro	1.4	0.3	26.0	71.1	0.6	0.2	0.3	0.1	5,273
Matisi	17.6	0.6	36.0	44.1	0.4	0.5	0.5	0.4	7,552
Tuwani	29.1	0.9	46.9	21.6	0.3	0.2	0.4	0.5	8,627
Saboti	1.1	0.3	27.4	68.5	1.1	0.8	0.3	0.5	4,660
Machewa	0.2	0.6	26.3	71.3	0.7	0.4	0.5	0.0	2,493
Kimini Constituency	12.8	0.9	42.5	41.2	0.7	0.4	1.3	0.2	26,895
Kimini	5.4	0.9	42.4	47.3	1.0	1.4	1.4	0.2	4,599
Waitaluk	6.8	1.0	49.1	40.0	0.6	0.2	1.9	0.3	5,530
Sirende	5.5	1.1	50.1	40.3	1.0	0.1	1.7	0.3	3,280
Hospital	44.7	0.6	33.3	19.8	0.3	0.2	0.9	0.2	5,162
Sikhendu	3.5	0.5	37.8	56.1	0.9	0.2	0.8	0.2	3,157
Nabiswa	4.5	0.9	42.8	49.7	0.6	0.3	1.1	0.1	5,167
Cherangany Constituency	4.3	0.4	49.2	43.0	0.7	0.6	1.4	0.3	26,415
Sinyerere	5.9	0.6	44.9	45.8	1.0	0.5	1.1	0.1	3,670
Makutano	4.8	0.5	42.9	49.4	0.2	0.8	1.2	0.1	2,830



Kaplamai	5.7	0.3	49.6	41.2	0.5	0.2	1.8	0.7	3,049
Motosiet	4.2	0.3	46.8	45.9	1.0	0.3	1.3	0.2	4,430
Cherangany/Suwerwa	1.5	0.3	52.9	42.8	0.5	0.4	1.5	0.2	5,103
Chepsiro/Kiptoror	0.6	0.2	55.6	38.3	0.8	2.0	1.7	0.8	3,804
Sitatunga	9.0	0.8	49.0	38.6	0.5	0.3	1.5	0.3	3,529

Table 42.14: 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
Trans Nzoia County	8.4	0.6	38.7	50.1	0.7	0.6	0.7	0.2	48,993
Kwanza Constituency	9.0	0.5	33.9	54.5	0.7	0.5	0.6	0.3	9,714
Kapombei	1.3	0.5	33.8	62.5	0.7	0.4	0.7	0.3	3,200
Kwanza	2.4	0.5	38.6	56.0	1.0	0.4	0.9	0.2	3,105
Keiyo	0.5	0.5	27.1	69.4	0.8	1.1	0.2	0.4	1,883
Bidii	49.5	0.6	32.8	16.1	0.1	0.3	0.3	0.2	1,526
Endebess Constituency	1.4	0.2	20.7	75.2	0.8	1.4	0.2	0.1	4,488
Chepchoina	0.8	0.3	17.9	77.1	0.9	2.8	0.2	0.1	1,865
Endebes	3.5	0.3	24.1	70.5	0.7	0.7	0.1	0.1	1,104
Matumbei	0.7	0.1	21.5	76.5	0.7	0.3	0.1	0.1	1,519
Saboti Constituency	12.0	0.6	34.9	50.8	0.6	0.4	0.3	0.4	10,218
Kinyoro	1.6	0.4	26.8	69.7	0.5	0.5	0.5	0.0	2,298
Matisi	19.8	0.5	38.4	39.5	0.6	0.7	0.2	0.3	2,224
Tuwani	27.2	0.9	49.5	21.4	0.2	0.1	0.3	0.5	2,664
Saboti	1.1	0.3	27.3	68.0	1.4	0.6	0.3	1.0	1,885
Machewa	-	1.0	23.3	74.6	0.7	-	0.3	-	1,147
Kiminini Constituency	11.6	1.0	41.4	43.9	0.6	0.4	1.0	0.1	12,446
Kiminini	5.8	1.1	40.2	49.1	0.9	1.5	1.3	0.1	2,213
Waitaluk	6.1	1.5	48.0	41.9	0.4	0.1	1.8	0.2	2,664
Sirende	4.1	0.8	47.0	45.1	1.2	0.1	1.4	0.3	1,464
Hospital	48.1	0.5	34.5	16.4	0.2	0.1	0.2	-	1,955
Sikhendu	3.1	0.8	36.7	58.6	0.5	0.1	0.2	-	1,619

Nabiswa	4.0	1.1	40.4	52.8	0.8	0.1	0.8	0.1	2,531
Cherangany Constituency	4.2	0.4	49.6	43.1	0.7	0.7	1.2	0.3	12,127
Sinyerere	5.8	0.5	47.4	44.0	1.0	0.1	1.1	0.1	1,549
Makutano	3.2	0.6	46.9	47.3	0.4	0.8	0.6	0.1	1,118
Kaplamai	6.8	0.6	48.3	42.0	0.4	-	1.2	0.7	1,477
Motosiet	4.1	0.3	43.7	49.0	0.9	0.4	1.5	0.1	2,070
Cherangany/Suwerwa	1.3	0.2	53.8	42.8	0.6	0.3	0.8	0.1	2,332
Chepsiro/Kiptoror	1.0	0.1	53.8	39.8	0.8	2.4	1.5	0.6	1,837
Sitatunga	8.4	0.7	51.2	37.0	0.5	0.4	1.4	0.4	1,744

Tabke 42.15: 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
Trans Nzoia County	25.9	0.5	0.5	72.5	0.6	166,597
Kwanza Constituency	21.5	0.4	0.3	77.0	0.7	32,386
Kapomboi	14.8	0.2	0.3	84.2	0.5	11,276
Kwanza	14.4	0.2	0.3	85.0	0.1	10,023
Keiyo	9.7	0.1	0.3	88.8	1.1	6,028
Bidii	64.7	1.7	0.4	31.2	2.1	5,059
Endebess Constituency	9.7	0.2	0.5	88.8	0.7	17,505
Chepchoina	7.7	0.1	0.7	91.4	0.1	7,299
Endebes	15.4	0.3	0.4	81.5	2.4	4,429
Matumbei	7.9	0.1	0.5	91.3	0.3	5,777
Saboti Constituency	39.2	0.5	0.5	59.0	0.8	38,823
Kinyoro	10.5	0.1	0.7	87.9	0.8	7,571
Matisi	47.0	0.9	0.6	51.4	0.1	9,776
Tuwani	76.0	0.8	0.4	22.1	0.8	11,291
Saboti	13.9	0.2	0.6	84.7	0.7	6,545
Machewa	9.3	0.1	0.2	87.3	3.1	3,640
Kiminini Constituency	31.2	1.0	0.5	66.8	0.4	39,341
Kiminini	25.3	0.5	0.4	73.4	0.4	6,812
Waitaluk	25.8	0.8	0.4	72.8	0.2	8,194
Sirende	28.4	0.4	0.4	69.7	1.1	4,744
Hospital	63.3	3.5	1.1	31.5	0.7	7,117
Sikhendu	16.1	0.2	0.5	83.1	0.1	4,776
Nabiswa	23.8	0.4	0.2	75.5	0.1	7,698
Cherangany Constituency	18.0	0.3	0.5	80.8	0.4	38,542
Sinyerere	20.7	0.3	0.6	78.3	0.1	5,219
Makutano	15.9	0.3	0.3	83.5	0.1	3,948
Kaplamai	19.9	0.6	0.5	78.8	0.2	4,526

Motosiet	20.7	0.3	0.5	77.9	0.7	6,500
Cherangany/Suwerwa	14.7	0.2	0.5	84.3	0.3	7,435
Chepsiro/Kiptoror	11.8	0.1	0.3	87.5	0.2	5,641
Sitatunga	23.2	0.4	1.0	74.4	0.9	5,273

Table 42.16: Main Material of the Floor in Male and Female Headed Households by County, Constituency and Ward

County/Constituency/ wards	Cement	Tiles	Wood	Earth	Other	House- holds		Cement	Tiles	Wood	Earth	Other	House- holds
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
Trans Nzoia County	26.1	0.5	0.5	72.3	0.6	117,604		25.3	0.6	0.5	73.1	0.6	48,993
Kwanza Constituency	21.6	0.4	0.3	77.0	0.7	22,672		21.4	0.5	0.3	77.0	0.9	9,714
Kapomboi	14.8	0.2	0.3	84.2	0.5	8,076		14.9	0.2	0.3	84.1	0.6	3,200
Kwanza	14.7	0.3	0.3	84.6	0.1	6,918		13.7	0.1	0.4	85.8	0.1	3,105
Keiyo	9.9	0.1	0.3	88.8	0.9	4,145		9.3	0.3	0.3	88.7	1.4	1,883
Bidii	64.2	1.6	0.5	31.9	1.8	3,533		65.7	2.0	0.1	29.6	2.6	1,526
Endebess Constituency	9.9	0.2	0.6	88.7	0.6	13,017		9.0	0.2	0.4	89.3	1.1	4,488
Chepchoina	8.1	0.2	0.7	90.9	0.1	5,434		6.6	-	0.5	92.8	0.1	1,865
Endebes	15.5	0.3	0.5	81.7	2.0	3,325		14.9	0.5	0.3	80.6	3.6	1,104
Matumbei	7.9	0.1	0.5	91.3	0.2	4,258		7.7	0.1	0.4	91.3	0.5	1,519
Saboti Constituency	40.0	0.5	0.5	58.2	0.8	28,605		37.0	0.5	0.6	61.0	0.8	10,218
Kinyoro	9.9	0.1	0.5	88.8	0.7	5,273		11.9	0.2	1.1	85.9	0.9	2,298
Matisi	46.7	0.8	0.6	51.8	0.1	7,552		48.0	1.5	0.8	49.7	0.0	2,224
Tuwani	76.0	0.9	0.4	22.0	0.8	8,627		76.0	0.4	0.3	22.5	0.8	2,664
Saboti	13.0	0.1	0.6	85.6	0.7	4,660		16.1	0.3	0.5	82.3	0.7	1,885
Machewa	9.2	0.1	0.2	87.0	3.5	2,493		9.7	0.1	0.1	88.0	2.2	1,147
Kiminini Constituency	31.4	1.0	0.6	66.6	0.4	26,895		30.8	1.0	0.4	67.3	0.4	12,446
Kiminini	25.3	0.4	0.4	73.6	0.4	4,599		25.3	0.8	0.5	73.1	0.3	2,213
Waitaluk	26.0	0.7	0.5	72.5	0.2	5,530		25.3	0.8	0.2	73.5	0.2	2,664
Sirende	28.0	0.4	0.5	69.8	1.2	3,280		29.1	0.4	0.1	69.4	1.0	1,464
Hospital	61.8	3.5	1.0	33.1	0.7	5,162		67.2	3.5	1.2	27.4	0.7	1,955
Sikhendu	15.8	0.2	0.6	83.3	0.1	3,157		16.6	0.2	0.3	82.6	0.2	1,619

Nabiswa	24.0	0.3	0.2	75.3	0.1	5,167		23.5	0.5	0.2	75.7	0.2	2,531
Cherangany Constituency	17.6	0.3	0.5	81.2	0.4	26,415		18.8	0.3	0.6	79.9	0.4	12,127
Sinyerere	20.3	0.2	0.6	78.7	0.1	3,670		21.6	0.4	0.6	77.3	0.1	1,549
Makutano	15.8	0.3	0.3	83.5	0.1	2,830		15.9	0.1	0.4	83.5	0.1	1,118
Kaplamai	19.4	0.5	0.5	79.3	0.3	3,049		20.8	0.9	0.5	77.6	0.1	1,477
Motosiet	20.6	0.3	0.5	78.0	0.5	4,430		20.8	0.2	0.4	77.6	0.9	2,070
Cherangany/Suwerwa	14.2	0.1	0.6	84.8	0.3	5,103		15.7	0.3	0.3	83.3	0.3	2,332
Chepsiro/Kiptoror	11.4	0.2	0.2	88.0	0.2	3,804		12.7	0.1	0.5	86.4	0.2	1,837
Sitatunga	22.7	0.5	0.9	74.9	1.0	3,529		24.3	0.3	1.3	73.4	0.8	1,744

Tabke 42.17: 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
Trans Nzoia County	81.5	1.0	0.2	2.8	13.4	0.2	0.1	0.0	0.8	166,597
Kwanza Constituency	81.9	0.8	0.1	2.8	13.5	0.2	0.1	0.1	0.6	32,386
Kapomboi	81.6	0.6	0.0	1.3	15.5	0.2	0.1	0.1	0.6	11,276
Kwanza	83.5	0.8	0.0	3.5	11.8	0.3	0.1	0.0	0.0	10,023
Keiyo	76.0	0.4	0.0	0.7	22.2	0.0	0.0	0.0	0.7	6,028
Bidii	86.2	1.8	0.6	7.4	1.8	0.1	0.0	0.1	2.0	5,059
Endebess Constituency	49.8	0.9	0.0	2.5	45.1	0.6	0.0	0.0	1.1	17,505
Chepchoina	37.6	0.6	0.1	1.5	59.8	0.1	0.0	0.0	0.3	7,299
Endebes	50.5	1.1	0.0	3.0	42.0	1.1	0.0	0.0	2.4	4,429
Matumbei	64.6	1.1	0.1	3.5	28.8	1.0	0.1	0.0	1.0	5,777
Saboti Constituency	81.1	1.3	0.4	4.0	11.3	0.1	0.1	0.1	1.7	38,823
Kinyoro	67.5	1.0	0.0	3.1	23.9	0.3	0.1	0.0	4.0	7,571
Matisi	90.4	3.0	1.0	2.6	1.9	0.0	0.0	0.2	0.9	9,776
Tuwani	91.2	0.6	0.5	6.7	0.1	0.0	0.1	0.1	0.7	11,291
Saboti	71.7	0.6	0.1	1.9	23.0	0.0	0.0	0.0	2.6	6,545
Machewa	70.4	0.4	0.1	4.4	24.7	0.1	0.0	0.0	0.0	3,640
Kiminini Constituency	90.1	1.5	0.1	2.7	5.0	0.1	0.1	0.0	0.3	39,341
Kiminini	86.6	0.9	0.1	2.9	8.9	0.1	0.1	0.0	0.3	6,812
Waitaluk	89.6	0.9	0.1	2.5	6.7	0.0	0.0	0.0	0.1	8,194
Sirende	95.7	0.8	0.1	0.5	1.8	0.0	0.0	0.0	1.0	4,744
Hospital	92.0	4.0	0.5	2.5	0.3	0.0	0.1	0.0	0.5	7,117
Sikhendu	89.8	0.8	0.1	3.3	5.8	0.2	0.1	0.0	0.0	4,776
Nabiswa	88.8	1.0	0.0	4.1	5.7	0.2	0.1	0.0	0.0	7,698
Cherangany Constituency	87.3	0.6	0.1	1.9	9.5	0.1	0.3	0.0	0.3	38,542
Sinyerere	96.7	0.6	0.1	0.1	2.2	0.1	0.0	0.2	0.0	5,219
Makutano	83.7	0.5	0.1	4.7	10.7	0.2	0.0	0.0	0.1	3,948

Kaplamai	95.9	0.6	0.0	0.0	3.2	0.1	0.0	0.0	0.1	4,526
Motosiet	88.1	0.6	0.0	2.3	7.2	0.2	1.6	0.0	0.0	6,500
Cherangany/Suwerwa	87.6	0.5	0.1	1.4	9.9	0.1	0.0	0.0	0.5	7,435
Chepsiro/Kiptoror	66.7	0.5	0.0	3.0	29.6	0.1	0.1	0.0	0.1	5,641
Sitatunga	94.0	0.7	0.1	2.2	1.9	0.1	0.0	0.0	0.9	5,273

Table 42.18: Main Roofing Material in Male Headed Households by County, Constituency and Wards

County/Constituency/ Wards	Corrugated Iron Sheets	Tiles	Concrete	Asbestos sheets	Grass	Makuti	Tin	Mud/Dung	Other	Households
Kenya	73.0	2.3	3.9	2.3	13.5	3.2	0.3	0.5	1.0	5,762,320
Rural	69.2	0.8	0.2	1.8	21.5	4.4	0.2	0.9	1.1	3,413,616
Urban	78.5	4.6	9.3	2.9	2.0	1.4	0.3	0.1	0.9	2,348,704
Trans Nzoia County	81.0	1.0	0.2	2.8	13.9	0.2	0.1	0.0	0.7	117,604
Kwanza Constituency	81.4	0.8	0.1	2.9	13.9	0.1	0.1	0.1	0.6	22,672
Kapomboi	80.9	0.6	0.0	1.5	16.2	0.1	0.0	0.1	0.5	8,076
Kwanza	82.7	0.8	0.0	3.7	12.2	0.3	0.1	0.0	-	6,918
Keiyo	75.6	0.3	-	0.6	22.8	-	-	-	0.6	4,145
Bidii	86.5	1.7	0.5	7.5	1.8	0.1	0.0	0.1	1.8	3,533
Endebess Constituency	49.8	0.9	0.0	2.5	45.0	0.6	0.1	0.0	1.0	13,017
Chepchoina	38.3	0.7	0.1	1.5	58.8	0.1	0.1	-	0.4	5,434
Endebes	50.5	1.1	0.0	2.9	42.2	1.2	0.0	0.0	2.0	3,325
Matumbei	64.1	1.2	0.0	3.3	29.7	0.8	0.1	0.0	0.8	4,258
Saboti Constituency	81.1	1.2	0.4	3.9	11.6	0.1	0.1	0.1	1.5	28,605
Kinyoro	66.0	0.9	0.0	3.2	25.8	0.4	0.1	0.0	3.5	5,273
Matisi	90.5	3.0	1.0	2.6	1.9	0.0	0.0	0.2	0.9	7,552
Tuwani	91.6	0.6	0.5	6.4	0.1	0.0	0.1	0.0	0.7	8,627
Saboti	70.2	0.6	0.1	1.8	25.0	0.0	0.0	0.0	2.3	4,660
Machewa	69.2	0.3	0.0	4.4	25.9	0.1	-	-	-	2,493
Kimini Constituency	89.5	1.5	0.1	2.8	5.5	0.1	0.1	0.0	0.4	26,895
Kimini	85.2	1.1	0.1	3.0	10.0	0.1	0.2	-	0.4	4,599
Waitaluk	88.8	0.9	0.1	2.7	7.4	-	0.0	0.0	0.1	5,530
Sirende	95.5	0.8	0.1	0.4	2.0	0.0	0.0	0.0	1.2	3,280
Hospital	92.0	4.0	0.5	2.6	0.3	0.0	0.1	-	0.6	5,162

Sikhendu	89.1	0.8	0.1	3.3	6.4	0.3	0.1	-	0.0	3,157
Nabiswa	88.3	1.0	0.0	4.1	6.2	0.2	0.1	0.1	0.0	5,167
Cherangany Constituency	87.2	0.5	0.1	1.8	9.6	0.1	0.3	0.0	0.3	26,415
Sinyerere	96.6	0.5	0.1	0.1	2.4	0.1	0.1	0.2	0.1	3,670
Makutano	83.7	0.4	0.0	4.7	10.9	0.1	-	-	0.1	2,830
Kaplamai	95.5	0.7	-	-	3.5	0.1	0.1	-	0.1	3,049
Motosiet	88.2	0.5	0.0	1.8	7.6	0.1	1.7	-	0.1	4,430
Cherangany/Suwerwa	87.3	0.5	0.1	1.3	10.2	0.1	0.0	-	0.5	5,103
Chepsiro/Kiptoror	67.4	0.5	0.0	2.9	28.8	0.1	0.1	0.1	0.1	3,804
Sitatunga	93.4	0.8	0.2	2.5	2.0	0.1	0.1	0.1	1.0	3,529

Tabke 42.19: 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
Trans Nzoia County	82.8	1.0	0.2	2.8	12.2	0.2	0.1	0.1	0.8	48,993
Kwanza Constituency	83.0	0.8	0.2	2.6	12.3	0.2	0.0	0.1	0.8	9,714
Kapomboi	83.3	0.6	0.0	1.0	13.8	0.3	0.1	0.2	0.7	3,200
Kwanza	85.3	0.6	0.0	3.1	10.8	0.2	-	0.0	0.0	3,105
Keiyo	76.8	0.6	-	0.7	20.8	0.1	-	-	1.0	1,883
Bidii	85.4	2.0	0.9	7.0	1.9	0.1	0.1	0.1	2.5	1,526
Endebess Constituency	49.5	0.7	0.0	2.6	45.1	0.6	-	-	1.3	4,488
Chepchoina	35.6	0.4	0.1	1.2	62.7	0.1	-	-	-	1,865
Endebes	50.4	1.0	-	3.0	41.4	0.7	-	-	3.5	1,104
Matumbei	66.0	0.9	0.1	3.9	26.3	1.3	-	-	1.4	1,519
Saboti Constituency	81.1	1.3	0.4	4.1	10.7	0.1	0.0	0.1	2.2	10,218
Kinyoro	71.1	1.2	0.0	2.7	19.5	0.3	0.0	0.0	5.0	2,298
Matisi	90.2	3.0	1.1	2.5	2.0	0.0	-	0.2	0.9	2,224
Tuwani	89.7	0.9	0.6	8.0	-	0.0	0.0	0.1	0.8	2,664
Saboti	75.5	0.5	0.1	2.2	18.1	-	-	0.1	3.4	1,885

Machewa	72.8	0.5	0.1	4.4	22.1	0.1	-	-	-	1,147
Kimini Constituency	91.4	1.4	0.1	2.7	4.1	0.1	0.0	0.0	0.2	12,446
Kimini	89.4	0.6	0.3	2.8	6.7	0.0	-	0.0	0.1	2,213
Waitaluk	91.3	1.0	0.1	2.3	5.2	-	0.0	0.0	0.1	2,664
Sirende	96.2	0.9	-	0.7	1.4	0.1	-	0.1	0.7	1,464
Hospital	92.2	4.1	0.4	2.3	0.4	0.1	0.1	0.1	0.5	1,955
Sikhendu	91.1	0.7	-	3.5	4.6	0.1	0.1	-	-	1,619
Nabiswa	90.0	1.0	-	4.0	4.8	0.1	0.1	-	-	2,531
Cherangany Constituency	87.4	0.6	0.0	2.0	9.4	0.1	0.2	0.0	0.2	12,127
Sinyerere	97.0	0.7	-	0.1	1.9	-	-	0.3	-	1,549
Makutano	83.8	0.8	0.1	4.5	10.3	0.4	-	0.1	0.1	1,118
Kaplamai	96.8	0.5	-	-	2.5	0.1	-	-	0.1	1,477
Motosiet	87.7	0.6	-	3.3	6.6	0.3	1.4	-	-	2,070
Cherangany/Suwerwa	88.4	0.5	-	1.6	9.2	-	-	0.0	0.3	2,332
Chepsiro/Kiptoror	65.1	0.5	-	3.1	31.2	-	-	-	0.1	1,837
Sitatunga	95.2	0.5	0.1	1.6	1.8	0.1	-	-	0.7	1,744

Table 42.20: 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
Trans Nzoia County	1.4	15.8	67.9	12.8	0.7	0.4	0.1	0.0	0.8	166,597
Kwanza Constituency	1.4	12.4	73.5	10.8	0.4	0.4	0.0	0.0	1.0	32,386
Kapombei	0.2	6.4	83.0	8.3	0.4	0.1	0.0	0.0	1.6	11,276
Kwanza	0.3	9.1	77.5	12.5	0.3	0.2	0.0	0.0	0.0	10,023
Keiyo	0.2	4.8	83.0	11.1	0.2	0.0	0.1	0.0	0.7	6,028
Bidii	7.7	41.7	32.8	13.0	0.9	1.9	0.1	0.0	2.0	5,059
Endebess Constituency	1.3	5.2	75.9	13.5	1.7	1.0	0.3	0.1	1.1	17,505
Chepchoina	0.5	3.6	80.9	12.2	1.5	0.6	0.3	0.0	0.4	7,299
Endebes	2.6	9.6	60.9	21.1	1.7	1.3	0.2	0.0	2.4	4,429
Matumbei	1.5	3.9	81.1	9.2	1.7	1.2	0.4	0.1	0.9	5,777

Saboti Constituency	2.6	22.1	55.5	16.6	0.9	0.5	0.1	0.0	1.7	38,823
Kinyoro	0.4	6.7	80.7	7.5	0.4	0.1	0.1	0.0	4.0	7,571
Matisi	2.3	25.6	47.9	20.8	1.4	0.8	0.2	0.1	0.9	9,776
Tuwani	4.8	43.6	24.6	24.5	1.1	0.6	0.1	0.0	0.7	11,291
Saboti	1.9	7.7	77.8	8.2	0.9	0.5	0.1	0.0	2.9	6,545
Machewa	1.8	4.0	79.2	14.4	0.1	0.0	0.2	0.0	0.3	3,640
Kimisini Constituency	1.3	21.4	63.6	12.3	0.5	0.5	0.0	0.0	0.3	39,341
Kimisini	0.6	19.2	67.5	11.9	0.3	0.2	0.1	0.0	0.3	6,812
Waitaluk	0.3	16.1	73.3	9.3	0.3	0.4	0.1	0.0	0.1	8,194
Sirende	0.5	14.1	71.0	12.9	0.2	0.2	0.0	0.0	1.0	4,744
Hospital	4.8	46.3	28.6	15.7	2.0	1.9	0.1	0.1	0.5	7,117
Sikhendu	0.5	12.2	78.7	8.2	0.1	0.1	0.0	0.1	0.0	4,776
Nabiswa	0.5	16.1	68.2	14.7	0.2	0.2	0.0	0.0	0.0	7,698
Cherangany Constituency	0.4	11.4	76.3	11.1	0.3	0.1	0.1	0.1	0.3	38,542
Sinyerere	1.0	14.3	74.4	10.0	0.2	0.1	0.0	0.0	0.0	5,219
Makutano	0.2	9.8	85.0	3.8	0.8	0.2	0.0	0.1	0.1	3,948
Kaplamai	0.2	14.1	72.2	13.1	0.1	0.1	0.0	0.1	0.0	4,526
Motosiet	0.5	13.2	66.4	19.2	0.2	0.1	0.1	0.1	0.3	6,500
Cherangany/Suwerwa	0.3	8.5	78.2	12.1	0.3	0.1	0.0	0.0	0.4	7,435
Chepsiro/Kiptoror	0.2	5.1	85.8	8.2	0.2	0.1	0.2	0.1	0.0	5,641
Sitatunga	0.5	16.0	74.8	7.3	0.2	0.1	0.1	0.1	0.9	5,273

Table 42.21: 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
Trans Nzoia County	1.4	15.9	67.6	12.9	0.7	0.5	0.1	0.1	0.8	117,604
Kwanza Constituency	1.2	12.5	73.5	10.8	0.5	0.4	0.0	0.0	1.0	22,672
Kapomboi	0.2	6.5	82.9	8.1	0.5	0.1	0.0	0.0	1.7	8,076

Kwanza	0.3	9.3	77.3	12.5	0.3	0.2	0.0	0.0	0.0	6,918
Keiyo	0.1	4.7	83.3	11.0	0.1	0.0	0.1	0.0	0.6	4,145
Bidii	6.7	41.8	33.1	13.5	1.0	2.0	0.1	0.0	1.8	3,533
Endebess Constituency	1.4	5.3	75.9	13.2	1.7	1.1	0.2	0.1	1.0	13,017
Chepchoina	0.6	3.6	81.2	11.7	1.6	0.7	0.1	0.0	0.5	5,434
Endebes	2.7	9.7	60.6	21.5	1.8	1.6	0.2	-	2.0	3,325
Matumbei	1.5	4.2	81.2	8.7	1.8	1.2	0.4	0.2	0.8	4,258
Saboti Constituency	2.5	22.6	54.8	17.0	0.9	0.5	0.1	0.1	1.5	28,605
Kinyoro	0.3	6.4	81.7	7.3	0.4	0.2	0.1	-	3.5	5,273
Matisi	2.1	24.9	48.2	21.4	1.3	0.9	0.2	0.1	0.9	7,552
Tuwani	4.7	44.0	24.3	24.4	1.1	0.7	0.1	0.0	0.7	8,627
Saboti	1.9	7.2	78.8	8.0	0.9	0.5	0.1	0.0	2.6	4,660
Machewa	1.6	4.0	79.0	14.8	0.1	0.0	0.1	-	0.4	2,493
Kimini Constituency	1.3	21.7	63.2	12.2	0.6	0.6	0.1	0.0	0.3	26,895
Kimini	0.5	19.2	67.3	12.0	0.3	0.2	0.1	0.0	0.4	4,599
Waitaluk	0.3	16.3	73.2	9.0	0.3	0.5	0.1	0.0	0.2	5,530
Sirende	0.5	14.5	71.2	12.2	0.3	0.2	-	-	1.1	3,280
Hospital	4.8	45.3	29.5	15.6	2.0	2.0	0.1	0.1	0.6	5,162
Sikhendu	0.6	12.5	78.6	8.0	0.1	0.2	0.0	0.1	-	3,157
Nabiswa	0.5	16.1	68.1	14.9	0.1	0.2	0.0	0.0	0.0	5,167
Cherangany Constituency	0.5	11.1	76.7	10.9	0.3	0.2	0.1	0.1	0.3	26,415
Sinyerere	1.0	14.4	74.5	9.7	0.2	0.1	0.1	0.0	-	3,670
Makutano	0.2	10.0	84.8	3.5	1.1	0.2	-	0.1	0.1	2,830
Kaplamai	0.1	13.5	73.5	12.5	0.2	0.1	-	0.1	-	3,049
Motosiet	0.6	12.8	66.4	19.1	0.3	0.2	0.1	0.1	0.3	4,430
Cherangany/Suwerwa	0.4	8.0	78.5	12.2	0.3	0.2	0.0	0.0	0.5	5,103
Chepsiro/Kiptoror	0.2	4.6	86.2	8.3	0.3	0.1	0.1	0.2	-	3,804
Sitatunga	0.5	15.6	75.1	7.2	0.2	0.2	0.1	0.1	1.0	3,529

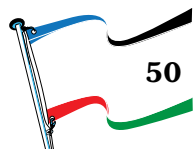


Table 42.22: Main Material of the Wall in Female Headed Households by County, Constituency and Ward

County/ Constituency	Stone	Brick/ Block	Mud/ Wood	Mud/ Cement	Wood only	Corrugated Iron Sheets	Grass/ Reeds	Tin	Other	Households
Kenya	15.0	17.5	40.4	7.9	10.5	5.1	2.1	0.3	1.2	2,731,060
Rural	5.4	14.9	52.1	8.0	12.6	2.4	2.8	0.4	1.4	1,826,263
Urban	34.2	22.6	16.9	7.6	6.2	10.5	0.8	0.3	0.9	904,797
Trans Nzoia County	1.4	15.5	68.5	12.7	0.6	0.3	0.1	0.0	0.9	48,993
Kwanza Constituency	1.8	12.2	73.4	10.9	0.3	0.4	0.0	0.0	1.0	9,714
Kapomboi	0.2	6.0	83.2	8.8	0.3	0.1	-	0.0	1.3	3,200
Kwanza	0.3	8.7	78.1	12.5	0.2	0.2	0.1	-	-	3,105
Keiyo	0.2	4.9	82.4	11.3	0.2	-	0.1	-	1.0	1,883
Bidii	10.0	41.5	32.1	11.8	0.5	1.6	0.1	-	2.5	1,526
Endebess Constituency	1.1	5.0	75.9	14.2	1.4	0.6	0.4	0.0	1.3	4,488
Chepchoina	0.3	3.7	80.2	13.8	1.3	0.1	0.6	-	-	1,865
Endebes	2.4	9.6	61.9	20.0	1.6	0.6	0.2	0.1	3.5	1,104
Matumbei	1.3	3.3	80.8	10.6	1.4	1.1	0.3	0.1	1.2	1,519
Saboti Constituency	2.7	20.8	57.3	15.5	1.0	0.4	0.2	0.0	2.2	10,218
Kinyoro	0.6	7.2	78.5	8.1	0.4	0.1	0.1	-	5.0	2,298
Matisi	2.9	28.0	46.8	18.8	1.7	0.5	0.4	0.0	0.9	2,224
Tuwani	5.1	42.2	25.5	24.7	1.4	0.4	0.0	-	0.8	2,664
Saboti	1.9	9.0	75.4	8.6	0.7	0.6	0.1	-	3.7	1,885
Machewa	2.1	3.9	79.6	13.6	0.2	-	0.3	-	0.3	1,147
Kimini Constituency	1.2	20.8	64.4	12.5	0.5	0.3	0.0	0.0	0.2	12,446
Kimini	0.8	19.2	67.8	11.5	0.3	0.1	0.0	-	0.2	2,213
Waitaluk	0.3	15.7	73.3	10.0	0.2	0.2	0.0	-	0.1	2,664
Sirende	0.5	13.3	70.8	14.7	-	0.1	-	-	0.7	1,464
Hospital	4.7	48.8	26.4	16.2	1.9	1.4	-	0.1	0.5	1,955
Sikhendu	0.4	11.6	79.0	8.6	0.2	-	0.1	0.1	-	1,619
Nabiswa	0.6	16.2	68.5	14.4	0.2	0.1	-	-	-	2,531
Cherangany Constituency	0.3	12.1	75.6	11.5	0.2	0.1	0.1	0.0	0.2	12,127
Sinyerere	0.8	14.1	74.2	10.7	0.1	0.1	-	-	-	1,549

Makutano	0.2	9.4	85.4	4.7	0.1	0.1	-	-	0.1	1,118
Kaplamai	0.3	15.4	69.6	14.6	0.1	-	-	-	0.1	1,477
Motosiet	0.2	13.9	66.3	19.2	0.2	0.0	0.0	-	0.1	2,070
Cherangany/Suwerwa	0.3	9.5	77.6	11.9	0.3	0.1	-	-	0.3	2,332
Chepsiro/Kiptoror	0.2	6.2	85.1	7.9	0.1	0.1	0.3	0.1	-	1,837
Sitatunga	0.5	16.9	74.1	7.6	0.1	-	0.1	0.1	0.6	1,744

Table 42.23: Source of Water by County, Constituency and Ward

County/Constituency/ Wards	Pond	Dam	Lake	Stream/ River	Unprotected Spring	Unprotected Well	Jabia	Water vendor	Other	Unimproved Sources	Protected Spring	Protect- ed Well	Bore- hole	Piped into Dwelling	Piped	Rain Water Collection	Improved Sources	Number of Individuals
Kenya	2.7	2.4	1.2	23.2	5.0	6.9	0.3	5.2	0.4	47.4	7.6	7.7	11.6	5.9	19.2	0.7	52.6	37,919,647
Rural	3.6	3.2	1.5	29.6	6.4	8.7	0.4	2.2	0.5	56.0	9.2	8.1	12.0	1.8	12.1	0.8	44.0	26,075,195
Urban	0.9	0.7	0.5	9.2	1.9	2.9	0.2	11.8	0.1	28.3	4.0	6.8	10.7	14.7	34.9	0.5	71.7	11,844,452
Trans Nzoia County	0.3	0.5	0.1	21.2	4.9	6.3	0.0	1.6	0.0	34.9	12.7	21.4	21.3	1.4	8.2	0.2	65.1	808,851
Kwanza Constituency	0.4	0.4	0.0	13.4	3.8	10.5	0.0	1.3	0.1	29.9	11.0	30.6	22.2	0.9	5.2	0.2	70.1	165,105
Kapomboi	0.1	0.0	0.0	7.7	0.6	11.3	0.0	0.2	0.0	19.9	8.4	46.9	20.5	0.2	4.0	0.0	80.1	55,840
Kwanza	0.4	0.1	0.1	19.1	8.1	8.6	0.0	1.2	0.0	37.7	16.4	20.8	24.1	0.1	0.8	0.2	62.3	55,247
Keiyo	0.3	1.4	0.1	19.5	3.7	18.0	0.0	0.2	0.0	43.2	9.7	35.3	11.2	0.1	0.5	0.1	56.8	33,238
Bidii	1.0	0.7	0.1	3.8	1.4	1.1	0.3	6.2	0.2	14.8	6.0	5.4	39.1	5.9	28.0	0.7	85.2	20,780
Endebess Constituency	0.5	1.0	0.1	45.4	3.3	5.1	0.0	0.4	0.2	56.0	7.8	7.4	15.1	1.1	12.6	0.1	44.0	90,903
Chepchoina	0.1	2.2	0.0	49.3	2.0	6.1	0.0	0.6	0.0	60.3	6.1	7.6	11.2	1.3	13.5	0.0	39.7	36,388
Endebes	0.9	0.5	0.1	46.5	6.1	5.5	0.2	0.5	0.1	60.3	10.0	8.0	13.1	1.1	7.3	0.2	39.7	23,165
Matumbi	0.6	0.0	0.1	39.9	2.9	3.6	0.0	0.2	0.6	47.9	8.0	6.6	21.1	0.8	15.5	0.1	52.1	31,350
Saboti Constituency	0.3	0.2	0.0	15.4	8.8	4.9	0.0	2.8	0.0	32.3	18.3	14.5	16.8	2.9	15.1	0.1	67.7	170,789
Kinyoro	0.3	0.1	0.1	32.1	6.7	5.0	0.0	0.0	0.0	44.3	11.1	17.8	25.6	0.1	0.9	0.0	55.7	39,343
Matisi	0.2	0.1	0.0	5.6	3.5	1.8	0.0	1.5	0.0	12.6	11.5	21.3	31.2	3.4	19.9	0.0	87.4	37,866
Tuwani	0.5	0.0	0.0	6.4	1.7	0.7	0.0	10.4	0.1	19.9	13.6	6.1	9.2	7.6	43.6	0.1	80.1	38,730
Saboti	0.2	0.1	0.0	19.4	11.1	6.6	0.0	0.3	0.0	37.8	40.6	14.6	4.0	0.5	2.4	0.2	62.2	34,854
Machewa	0.1	0.8	0.0	11.3	32.5	15.8	0.0	0.1	0.0	60.6	15.7	10.9	9.6	2.2	0.8	0.1	39.4	19,996

Kimini Constituency	0.2	0.3	0.0	7.9	4.5	5.9	0.0	2.4	0.0	21.4	18.0	24.5	27.0	1.4	7.4	0.2	78.6	187,921
Kimini	0.3	0.0	0.0	8.2	9.2	7.0	0.1	3.4	0.0	28.3	8.3	25.2	35.9	0.1	2.0	0.2	71.7	33,229
Waitau	0.0	0.2	0.0	6.0	3.3	8.9	0.0	1.6	0.0	20.1	11.7	28.7	30.9	1.3	7.0	0.3	79.9	40,236
Sirende	0.1	0.1	0.1	5.8	2.7	4.9	0.0	1.7	0.0	15.3	18.4	25.9	23.0	1.8	15.4	0.2	84.7	23,488
Hospital	0.3	0.5	0.0	9.2	2.9	1.0	0.0	6.4	0.0	20.3	7.2	21.5	23.4	5.3	21.7	0.5	79.7	28,647
Sikindu	0.2	0.8	0.0	6.3	6.2	6.6	0.0	0.2	0.0	20.3	37.0	33.5	7.2	0.2	1.7	0.1	79.7	23,867
Nabiswa	0.2	0.2	0.1	11.1	3.2	5.6	0.0	1.3	0.0	21.8	29.0	15.5	32.7	0.3	0.5	0.1	78.2	38,454
Cherangany Constituency	0.3	0.6	0.1	34.3	3.6	4.8	0.0	0.7	0.0	44.4	6.5	23.0	21.8	0.8	3.2	0.2	55.6	194,133
Sinyere	0.1	0.3	0.1	38.5	11.9	5.7	0.0	2.3	0.0	58.9	16.0	19.3	4.5	0.3	0.6	0.4	41.1	25,654
Makutano	0.2	2.7	0.1	46.6	3.2	2.2	0.0	0.2	0.0	55.4	6.5	8.8	13.0	3.0	13.1	0.3	44.6	18,322
Kaplamai	0.2	0.1	0.0	13.3	1.1	3.5	0.0	0.3	0.0	18.4	7.1	21.5	52.3	0.1	0.7	0.0	81.6	25,250
Motosiet	0.1	0.4	0.0	18.0	1.2	4.7	0.0	1.1	0.1	25.6	4.5	32.8	35.7	0.2	1.0	0.1	74.4	32,703
Cherangany/Suwerwa	0.0	1.1	0.2	44.6	3.1	5.4	0.1	0.4	0.0	54.9	3.5	16.3	18.2	1.7	5.4	0.0	45.1	36,483
Chepsiro/Kiptor	1.1	0.1	0.0	63.8	2.8	5.6	0.0	0.2	0.0	73.6	1.6	4.8	15.3	0.6	4.0	0.1	26.4	29,547
Sitatunga	0.1	0.3	0.2	14.6	2.8	5.7	0.0	0.1	0.1	23.7	8.7	55.7	10.7	0.5	0.2	0.4	76.3	26,174

Table 42.24: Source of Water of Male headed Household by County Constituency and Ward

County/Constituency/Wards	Pond	Dam	Lake	Stream /River	Unprotected Spring	Unprotected Well	Jabia	Water vendor	Other	Unimproved Sources	Protected Spring	Protected Well	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
Trans Nzoia County	0.3	0.5	0.0	21.2	5.0	6.3	0.0	1.7	0.1	35.0	12.6	21.1	21.3	1.5	8.4	0.2	65.0	584,630
Kwanza Constituency	0.4	0.4	0.0	13.3	3.7	10.4	0.0	1.3	0.0	29.6	10.9	30.9	22.4	0.8	5.2	0.2	70.4	118,574
Kapomboi	0.1	0.0	-	8.0	0.6	11.2	-	0.2	0.0	20.1	8.3	46.8	20.6	0.1	3.9	0.0	79.9	40,922
Kwanza	0.4	0.1	0.1	19.0	7.8	8.7	-	1.3	-	37.5	16.0	20.8	24.4	0.1	0.8	0.2	62.5	39,265
Keiyo	0.2	1.4	0.1	18.6	3.8	17.5	-	0.2	-	41.9	10.0	36.0	11.4	0.1	0.6	0.1	58.1	23,629
Bidii	1.0	0.8	-	4.2	1.2	1.1	0.4	6.2	0.3	15.2	5.8	5.5	39.6	5.6	27.7	0.7	84.8	14,758
Endebess Constituency	0.4	1.0	0.1	45.3	3.3	5.5	0.0	0.5	0.2	56.2	7.8	7.1	15.0	1.2	12.5	0.1	43.8	69,208
Chepchoina	0.1	2.0	0.0	49.5	1.9	6.4	-	0.7	-	60.6	6.0	7.5	11.3	1.5	13.1	0.0	39.4	27,831
Endebes	0.8	0.5	0.1	45.8	6.1	6.2	0.2	0.5	0.0	60.3	9.9	7.4	13.4	1.2	7.6	0.2	39.7	17,655
Matumbei	0.6	0.0	0.0	40.0	2.7	3.8	-	0.2	0.7	48.0	8.3	6.5	20.6	0.9	15.6	0.1	52.0	23,722
Saboti Constituency	0.3	0.2	0.0	15.1	8.9	4.9	0.0	2.8	0.0	32.2	18.0	14.4	16.9	3.0	15.5	0.1	67.8	127,640
Kinyoro	0.3	0.2	0.1	32.6	7.3	5.1	-	-	0.0	45.5	11.1	17.6	24.7	0.1	1.0	0.0	54.5	28,144
Matisi	0.2	0.1	0.0	5.9	3.7	1.7	0.0	1.5	-	13.2	11.5	21.0	31.2	3.4	19.7	0.0	86.8	29,344
Tuwani	0.5	0.1	0.0	6.1	1.8	0.8	0.0	10.2	0.1	19.5	13.5	6.2	9.9	7.7	43.0	0.1	80.5	30,094
Saboti	0.3	0.1	0.1	19.4	11.6	6.9	-	0.3	-	38.6	39.3	14.8	4.1	0.5	2.3	0.3	61.4	25,545
Machewa	0.1	0.5	0.0	10.7	32.2	16.2	0.0	0.2	-	59.9	16.0	11.1	9.9	2.1	0.9	0.1	40.1	14,513
Kimini Constituency	0.2	0.3	0.0	7.8	4.4	5.8	0.0	2.5	0.0	21.1	18.0	24.4	27.1	1.4	7.7	0.3	78.9	132,442
Kimini	0.4	0.0	0.0	8.1	8.7	7.4	0.1	3.3	-	28.0	8.4	24.7	36.5	0.1	2.0	0.3	72.0	23,243
Waitaluk	0.0	0.2	0.0	5.8	3.2	8.3	0.0	1.8	-	19.4	12.0	28.7	31.0	1.3	7.2	0.3	80.6	28,029
Sirende	0.1	0.0	0.0	6.1	2.6	4.7	-	1.7	-	15.2	18.7	25.9	22.5	1.6	15.9	0.2	84.8	16,757

Hospital	0.3	0.6	0.0	8.6	3.1	1.0	-	6.6	0.0	20.2	7.3	21.4	23.7	5.4	21.5	0.5	79.8	20,987
Sikherdu	0.3	0.7	-	6.4	6.4	6.2	-	0.2	-	20.1	37.4	33.1	7.0	0.2	2.0	0.1	79.9	16,472
Nabiswa	0.3	0.2	0.1	10.9	3.1	5.8	0.0	1.5	0.0	21.9	28.5	15.8	32.9	0.3	0.5	0.1	78.1	26,954
Cherangany Constituency	0.3	0.7	0.1	34.5	3.8	4.8	0.0	0.7	0.0	44.8	6.1	22.7	21.9	0.9	3.3	0.2	55.2	136,766
Sinyerere	0.2	0.2	0.1	38.4	12.3	5.8	0.0	2.3	0.0	59.3	15.2	19.4	4.8	0.3	0.6	0.3	40.7	18,506
Makutano	0.3	3.0	0.0	47.2	3.0	1.9	0.0	0.2	-	55.6	6.2	8.7	13.1	3.1	13.1	0.3	44.4	13,338
Kaplamai	0.1	0.2	-	13.6	1.3	3.5	-	0.2	-	18.8	7.0	20.5	52.8	0.1	0.7	0.0	81.2	17,694
Motosiet	0.1	0.5	0.0	18.2	1.2	4.7	-	1.1	0.1	25.9	4.3	32.7	35.7	0.2	1.1	0.2	74.1	22,889
Cherangany/Suwenwa	-	1.1	0.2	45.2	3.4	5.2	0.1	0.4	0.0	55.7	3.1	15.7	18.1	1.7	5.6	0.1	44.3	25,764
Chepsiro/Kiptoror	1.3	0.1	-	62.8	3.1	5.5	-	0.3	-	73.0	1.7	4.9	15.7	0.6	3.9	0.2	27.0	20,621
Sitatunga	0.1	0.3	0.1	14.5	2.8	5.8	-	0.1	0.0	23.6	7.6	56.6	10.9	0.6	0.3	0.4	76.4	17,954

Table 42.25: Source of Water of Female headed Household by County Constituency and Ward

County/Constituency/ Wards	Pond	Dam	Lake	Stream/ River	Unprotected Spring	Unprotect- ed Well	Jabia	Water vendor	Other	Unimproved Sources	Protected Spring	Protected Well	Borehole	Piped into Dwelling	Piped 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	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	43.0	8,068,724
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	69.5	3,105,857
Trans Nzoia County	0.2	0.4	0.1	21.1	4.9	6.3	0.0	1.5	0.0	34.6	13.2	22.0	21.3	1.3	7.5	65.4	224,221
Kwanza Constituency	0.3	0.4	0.1	13.6	4.2	10.6	0.0	1.3	0.1	30.6	11.4	29.9	21.5	1.0	5.4	69.4	46,531
Kapomboi	0.1	0.0	-	6.9	0.6	11.5	-	0.2	-	19.4	8.7	47.3	20.0	0.2	4.4	80.6	14,918
Kwanza	0.3	0.1	0.0	19.1	8.9	8.4	0.0	1.0	0.1	38.0	17.2	20.7	23.2	0.0	0.6	62.0	15,982

Keiyo	0.3	1.4	0.1	21.8	3.5	19.1	-	0.1	0.1	46.3	9.0	33.7	10.8	-	0.1	-	53.7	9,609
Bidji	0.9	0.5	0.2	2.7	1.9	0.9	0.1	6.4	0.1	13.9	6.7	5.1	38.0	6.8	28.8	0.7	86.1	6,022
Endebess Constituency	0.5	1.3	0.1	45.6	3.6	3.7	0.0	0.3	0.2	55.3	7.7	8.1	15.3	0.8	12.8	0.0	44.7	21,695
Chepchoina	-	2.8	0.0	48.9	2.1	4.9	0.1	0.3	-	59.2	6.7	8.1	10.6	0.8	14.7	-	40.8	8,557
Endebes	1.3	0.7	-	48.7	6.0	3.1	0.0	0.3	0.1	60.2	10.1	9.7	12.3	1.0	6.6	0.0	39.8	5,510
Matumbei	0.4	-	0.2	39.8	3.7	2.8	-	0.1	0.4	47.5	6.9	7.0	22.7	0.7	15.2	0.0	52.5	7,628
Saboti Constituency	0.1	0.2	0.0	16.2	8.5	4.9	0.0	2.6	0.0	32.7	19.4	14.7	16.6	2.6	14.0	0.0	67.3	43,149
Kinyoro	0.1	0.0	-	31.0	5.3	4.8	-	0.1	0.0	41.4	11.3	18.4	27.9	0.2	0.8	0.0	58.6	11,199
Matisi	0.1	0.2	-	4.7	2.6	1.9	-	1.3	-	10.7	11.7	22.1	31.1	3.6	20.7	0.0	89.3	8,522
Tuwani	0.3	-	0.2	7.2	1.4	0.6	0.0	11.2	0.1	20.9	13.8	6.1	6.6	7.2	45.4	-	79.1	8,636
Saboti	0.1	0.1	-	19.3	9.7	5.8	-	0.4	-	35.4	44.0	13.9	3.7	0.4	2.5	0.0	64.6	9,309
Machewa	-	1.4	-	13.0	33.3	14.9	-	-	-	62.7	15.1	10.4	8.6	2.5	0.7	0.1	37.3	5,483
Kimisini Constituency	0.2	0.3	0.1	8.3	4.8	6.2	0.0	2.2	0.0	22.0	18.0	24.8	26.8	1.4	6.8	0.2	78.0	55,479
Kimisini	0.2	0.0	-	8.5	10.3	6.2	0.0	3.8	-	29.0	8.1	26.4	34.3	0.1	1.8	0.1	71.0	9,986
Waitaluk	0.1	0.2	-	6.3	3.5	10.2	0.0	1.3	-	21.7	10.9	28.6	30.8	1.2	6.6	0.3	78.3	12,207
Sirende	0.1	0.1	0.1	5.2	3.0	5.3	-	1.9	-	15.7	17.5	25.8	24.3	2.2	14.3	0.2	84.3	6,731
Hospital	0.5	0.2	-	10.9	2.3	1.1	-	5.8	0.0	20.7	6.8	21.6	22.8	5.1	22.4	0.6	79.3	7,660
Sikhendu	0.1	1.0	0.1	6.0	5.8	7.4	-	0.1	-	20.5	36.1	34.3	7.7	0.3	1.0	0.0	79.5	7,395
Nabiswa	0.2	0.2	0.1	11.6	3.5	5.2	0.0	0.9	0.0	21.8	30.1	14.6	32.5	0.5	0.4	0.2	78.2	11,500
Cherangany Constituency	0.2	0.5	0.1	33.9	3.2	5.0	0.0	0.7	0.0	43.6	7.3	23.7	21.6	0.7	3.1	0.2	56.4	57,367

Sinyerere	0.1	0.4	0.0	38.7	11.0	5.3	-	2.3	-	57.8	18.0	19.1	3.5	0.1	0.8	0.6	42.2	7,148
Makutano	0.1	2.0	0.1	45.2	4.0	3.0	0.1	0.2	-	54.7	7.3	9.3	12.8	2.6	13.1	0.2	45.3	4,984
Kaplamai	0.3	-	-	12.7	0.5	3.5	-	0.5	-	17.5	7.2	23.6	51.0	0.0	0.6	-	82.5	7,556
Motosiet	0.0	0.2	-	17.6	1.3	4.6	0.0	1.3	0.1	25.0	5.0	33.1	35.9	0.1	0.8	0.1	75.0	9,814
Cherangany/Suwerwa	-	1.1	0.1	43.2	2.4	5.8	0.1	0.4	-	53.2	4.3	17.6	18.4	1.5	5.1	-	46.8	10,719
Chepsi/Kiptoror	0.6	0.0	-	66.0	2.1	6.0	-	0.1	-	74.9	1.3	4.6	14.3	0.5	4.3	0.1	25.1	8,926
Sitatunga	0.3	0.3	0.4	14.6	2.6	5.6	0.0	0.1	0.1	23.9	11.3	53.8	10.4	0.3	0.1	0.3	76.1	8,220

Table 42.26: 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
Trans Nzoia County	1.34	0.73	0.09	6.80	65.46	74.42	23.00	0.10	2.34	0.14	25.58	808,851
Kwanza Constituency	1.31	0.80	0.16	6.64	70.24	79.16	17.87	0.14	2.74	0.09	20.84	165,105
Kapomboi	0.04	0.24	0.05	3.68	73.57	77.58	19.79	0.10	2.44	0.09	22.42	55,840
Kwanza	0.26	0.09	0.01	6.35	70.84	77.56	20.51	0.16	1.67	0.10	22.44	55,247
Keiyo	0.02	0.00	0.05	4.02	75.63	79.71	14.32	0.22	5.70	0.05	20.29	33,238
Bidii	9.61	5.46	1.00	19.59	51.08	86.74	11.38	0.08	1.67	0.14	13.26	20,780
Endebess Constituency	0.09	0.24	0.11	1.73	45.25	47.42	43.28	0.06	9.09	0.15	52.58	90,903
Chepchoina	0.05	0.15	0.02	0.49	48.33	49.04	33.88	0.09	16.87	0.11	50.96	36,388
Endebes	0.20	0.69	0.38	3.59	46.66	51.51	40.98	0.02	7.32	0.17	48.49	23,165
Matumbei	0.04	0.02	0.01	1.81	40.63	42.50	55.90	0.04	1.38	0.18	57.50	31,350
Saboti Constituency	4.26	0.94	0.11	6.73	56.07	68.11	29.77	0.14	1.66	0.32	31.89	170,789
Kinyoro	0.05	0.02	0.03	9.20	56.92	66.22	30.40	0.27	2.99	0.11	33.78	39,343
Matisi	2.82	3.36	0.06	10.91	67.02	84.17	13.25	0.21	2.26	0.11	15.83	37,866
Tuwani	15.85	0.79	0.32	5.39	66.38	88.73	11.05	0.10	0.10	0.02	11.27	38,730
Saboti	0.05	0.07	0.08	3.33	58.52	62.05	36.29	0.03	1.54	0.10	37.95	34,854

Machewa	0.15	0.00	0.00	2.46	9.43	12.03	84.73	0.04	1.11	2.10	87.97	19,996
Kimini Constituency	0.66	1.33	0.05	7.49	74.24	83.78	15.65	0.06	0.42	0.10	16.22	187,921
Kimini	0.07	0.48	0.07	4.31	80.69	85.61	13.84	0.07	0.40	0.07	14.39	33,229
Waialuk	0.19	0.44	0.00	11.81	71.56	83.99	15.21	0.06	0.68	0.06	16.01	40,236
Sirende	0.03	0.51	0.06	12.83	71.56	85.01	14.61	0.09	0.23	0.06	14.99	23,488
Hospital	3.82	6.70	0.12	7.74	68.12	86.50	13.29	0.05	0.13	0.03	13.50	28,647
Sikhendu	0.03	0.11	0.04	2.12	67.35	69.66	29.93	0.05	0.31	0.05	30.34	23,867
Nabiswa	0.08	0.26	0.05	5.62	81.93	87.95	11.21	0.03	0.55	0.25	12.05	38,454
Cherangany Constituency	0.03	0.13	0.05	8.69	70.62	79.52	19.03	0.08	1.31	0.06	20.48	194,133
Sinyerere	0.00	0.18	0.03	4.47	81.37	86.05	12.95	0.19	0.76	0.05	13.95	25,654
Makutano	0.04	0.21	0.13	9.17	58.97	68.52	30.21	0.04	1.23	0.01	31.48	18,322
Kaplanai	0.03	0.04	0.07	9.52	76.10	85.75	13.85	0.12	0.23	0.04	14.25	25,250
Motosiet	0.07	0.09	0.04	4.61	77.83	82.65	15.51	0.02	1.62	0.20	17.35	32,703
Cherangany/Suwerwa	0.00	0.02	0.05	5.22	73.37	78.66	20.46	0.04	0.83	0.01	21.34	36,483
Chepsio/Kiptoror	0.00	0.02	0.04	8.37	60.34	68.77	27.37	0.06	3.76	0.04	31.23	29,547
Silatunga	0.09	0.41	0.05	21.97	61.71	84.23	15.18	0.10	0.49	0.00	15.77	26,174

Table 42.27: 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
Trans Nzoia County	1.35	0.71	0.09	6.75	65.57	74.48	23.00	0.10	2.29	0.14	25.52	584,630
Kwanza Constituency	1.29	0.65	0.15	6.85	70.74	79.68	17.50	0.14	2.58	0.09	20.32	118,574
Kapomboi	0.05	0.25	0.04	3.85	73.75	77.95	19.43	0.09	2.44	0.09	22.05	40,922
Kwanza	0.23	0.06	0.02	6.48	71.72	78.51	19.75	0.15	1.50	0.09	21.49	39,265
Keiyo	0.02	0.00	0.06	4.41	75.77	80.26	14.27	0.24	5.18	0.05	19.74	23,629
Bidii	9.58	4.37	0.94	20.07	51.73	86.69	11.36	0.11	1.66	0.18	13.31	14,758
Endebess Constituency	0.07	0.22	0.12	1.73	45.42	47.57	43.25	0.07	8.98	0.14	52.43	69,208
Chepchoina	0.05	0.14	0.01	0.57	48.64	49.42	33.85	0.10	16.54	0.10	50.58	27,831
Endebes	0.19	0.62	0.44	3.65	46.44	51.35	41.18	0.02	7.28	0.18	48.65	17,655

Matumbei	0.01	0.02	0.01	1.67	40.89	42.60	55.82	0.05	1.37	0.15	57.40	23,722
Saboti Constituency	4.22	0.93	0.11	6.62	56.62	68.50	29.51	0.14	1.51	0.34	31.50	127,640
Kinyoro	0.06	0.01	0.02	8.77	56.81	65.67	31.31	0.31	2.58	0.13	34.33	28,144
Matisi	2.83	3.02	0.05	11.01	67.32	84.23	13.25	0.17	2.22	0.13	15.77	29,344
Tuwani	14.96	0.93	0.33	5.42	67.29	88.93	10.81	0.12	0.13	0.01	11.07	30,094
Saboti	0.04	0.08	0.09	3.10	58.22	61.53	36.86	0.00	1.51	0.09	38.47	25,545
Machewa	0.18	0.00	0.00	2.22	9.67	12.07	84.73	0.03	0.90	2.27	87.93	14,513
Kimini Constituency	0.68	1.38	0.05	7.47	74.76	84.34	15.11	0.06	0.41	0.08	15.66	132,442
Kimini	0.08	0.51	0.03	4.34	81.22	86.18	13.24	0.10	0.37	0.10	13.82	23,243
Waitaluk	0.14	0.45	0.00	12.08	72.30	84.97	14.13	0.06	0.78	0.06	15.03	28,029
Sirende	0.03	0.55	0.05	12.25	72.20	85.09	14.64	0.02	0.20	0.05	14.91	16,757
Hospital	3.88	6.64	0.13	7.60	68.47	86.73	13.05	0.06	0.13	0.03	13.27	20,987
Sikhendu	0.05	0.15	0.06	2.26	67.23	69.75	29.89	0.04	0.29	0.04	30.25	16,472
Nabiswa	0.06	0.29	0.04	5.48	82.82	88.68	10.62	0.03	0.50	0.16	11.32	26,954
Cherangany Constituency	0.02	0.14	0.06	8.64	70.75	79.62	19.06	0.07	1.20	0.05	20.38	136,766
Sinyerere	0.00	0.15	0.00	4.52	80.93	85.60	13.48	0.16	0.70	0.06	14.40	18,506
Makutano	0.00	0.29	0.17	9.74	58.20	68.41	30.38	0.05	1.15	0.01	31.59	13,338
Kaplamai	0.04	0.06	0.10	9.59	76.02	85.80	13.89	0.08	0.21	0.02	14.20	17,694
Motosiet	0.10	0.10	0.06	4.40	78.26	82.93	15.51	0.03	1.33	0.20	17.07	22,889
Cherangany/Suwenwa	0.00	0.01	0.07	5.22	73.42	78.72	20.42	0.03	0.82	0.02	21.28	25,764
Chepsiro/Kiptoror	0.00	0.03	0.03	8.44	61.16	69.66	26.89	0.03	3.39	0.04	30.34	20,621
Sitatunga	0.00	0.47	0.04	21.67	62.00	84.18	15.10	0.15	0.57	0.00	15.82	17,954

Table 42.28: 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
Trans Nzoia	1.3	0.8	0.1	6.9	65.2	74.3	23.0	0.1	2.5	0.1	25.7	224,221.0
Kwanza	1.4	1.2	0.2	6.1	69.0	77.8	18.8	0.1	3.2	0.1	22.2	46,531.0
Kapombei	0.0	0.2	0.1	3.2	73.1	76.6	20.8	0.1	2.4	0.1	23.4	14,918.0

Kwanza	0.4	0.2	0.0	6.0	68.7	75.2	22.4	0.2	2.1	0.1	24.8	15,982.0
Keiyo	0.0	0.0	0.0	3.1	75.3	78.3	14.4	0.2	7.0	0.1	21.7	9,609.0
Bidji	9.7	8.1	1.1	18.4	49.5	86.8	11.4	0.0	1.7	0.0	13.2	6,022.0
Erdebess	0.1	0.3	0.1	1.7	44.7	46.9	43.4	0.0	9.5	0.2	53.1	21,695.0
Chepchoina	0.1	0.2	0.0	0.2	47.3	47.8	34.0	0.1	18.0	0.2	52.2	8,557.0
Erdebess	0.2	0.9	0.2	3.4	47.4	52.1	40.3	0.0	7.5	0.2	47.9	5,510.0
Matumbei	0.1	0.0	0.0	2.2	39.8	42.2	56.1	0.0	1.4	0.3	57.8	7,628.0
Saboti	4.4	1.0	0.1	7.0	54.5	67.0	30.5	0.1	2.1	0.3	33.0	43,149.0
Kinyoro	0.0	0.0	0.0	10.3	57.2	67.6	28.1	0.2	4.0	0.1	32.4	11,199.0
Matisi	2.8	4.6	0.1	10.5	66.0	84.0	13.2	0.4	2.4	0.0	16.0	8,522.0
Tuwani	19.0	0.3	0.3	5.3	63.2	88.1	11.9	0.0	0.0	0.0	11.9	8,636.0
Saboti	0.1	0.1	0.1	3.9	59.3	63.5	34.7	0.1	1.6	0.1	36.5	9,309.0
Machewa	0.1	0.0	0.0	3.1	8.8	11.9	84.7	0.0	1.7	1.6	88.1	5,483.0
Kiminini	0.6	1.2	0.1	7.6	73.0	82.4	16.9	0.1	0.4	0.1	17.6	55,479.0
Kiminini	0.1	0.4	0.1	4.2	79.4	84.3	15.2	0.0	0.5	0.0	15.7	9,986.0
Waialuk	0.3	0.4	0.0	11.2	69.8	81.8	17.7	0.1	0.4	0.1	18.2	12,207.0
Sirende	0.0	0.4	0.1	14.3	70.0	84.8	14.5	0.3	0.3	0.1	15.2	6,731.0
Hospital	3.7	6.9	0.1	8.1	67.2	85.9	14.0	0.0	0.1	0.0	14.1	7,660.0
Sikhendu	0.0	0.0	0.0	1.8	67.6	69.5	30.0	0.1	0.4	0.1	30.5	7,395.0
Nabiswa	0.1	0.2	0.1	6.0	79.9	86.2	12.6	0.0	0.7	0.5	13.8	11,500.0
Cherangany	0.1	0.1	0.0	8.8	70.3	79.3	19.0	0.1	1.6	0.1	20.7	57,367.0
Sinyerere	0.0	0.3	0.1	4.4	82.5	87.2	11.6	0.3	0.9	0.0	12.8	7,148.0
Makutano	0.2	0.0	0.0	7.6	61.0	68.8	29.8	0.0	1.4	0.0	31.2	4,984.0
Kaplamai	0.0	0.0	0.0	9.4	76.3	85.7	13.8	0.2	0.3	0.1	14.3	7,556.0
Motsiet	0.0	0.1	0.0	5.1	76.8	82.0	15.5	0.0	2.3	0.2	18.0	9,814.0
Cherangany/Suwenwa	0.0	0.0	0.0	5.2	73.2	78.5	20.6	0.1	0.8	0.0	21.5	10,719.0
Chepsiro/Kiptoror	0.0	0.0	0.1	8.2	58.4	66.7	28.5	0.1	4.6	0.1	33.3	8,926.0
Sitatunga	0.3	0.3	0.1	22.6	61.1	84.3	15.3	0.0	0.3	0.0	15.7	8,220.0



About KNBS

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

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



SID

Society for International Development

About SID

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

Society for International Development
Regional Office for Eastern Africa
Britam Centre, First Floor, Ragati/Mara Road
P O Box 2404 – 00100 Nairobi Kenya
Telephone: +254 - 20 - 2737991 • Fax: +254 - 20 - 273 7992
Email: sidea@sidint.org • Website: www.sidint.net