

Exploring Kenya's Inequality

Pulling Apart or Pooling Together?

Siaya County



Published by



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



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

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Written by:

Eston Ngugi

Data and tables generation:

Samuel Kipruto

Paul Samoei

Maps generation:

George Matheka Kamula

Technical Input and Editing:

Katindi Sivi-Njonjo

Jason Lakin

Copy Editing:

Ali Nadim Zaidi

Leonard Wanyama

Design, Print and Publishing:

Ascent Limited

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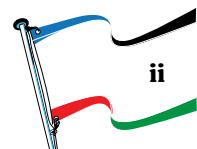


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Foreword

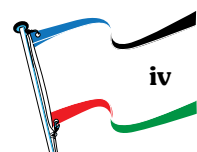
Kenya, like all African countries, focused on poverty alleviation at independence, perhaps due to the level of vulnerability of its populations but also as a result of the 'trickle down' economic discourses of the time, which assumed that poverty rather than distribution mattered – in other words, that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

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

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

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

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

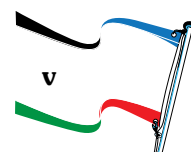


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Stefano Prato
Managing Director,
SID



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:

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

An Illustration of the Lorenz Curve



Small Area Estimation (SAE)

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

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

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

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

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

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

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



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

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

Identification of poor households Principal Component Analysis (PCA)

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

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

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

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

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

Concepts and definitions

Inequality

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

Equality and Equity

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

Poverty

The poverty line is a threshold below which people are deemed poor. Statistics summarizing the bottom of the consumption distribution (i.e. those that fall below the poverty line) are therefore provided. In 2005/06, the poverty line was estimated at Ksh1,562 and Ksh2,913 per adult equivalent¹ per month for rural and urban households respectively. Nationally, 45.2 percent of the population lives below the poverty line (2009 estimates) down from 46 percent in 2005/06.

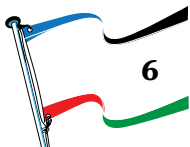
Spatial Dimensions

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

Employment

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

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



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

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

Education

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

Water

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

Sanitation

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

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

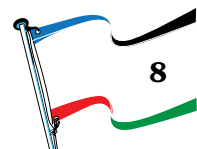
Nationally, 61 percent of the population has access to improved methods of waste disposal. A sizeable population i.e. 39 percent of the population is disadvantaged. Investments made in the provision of safe water supplies need to be commensurate with investments in safe waste disposal and hygiene promotion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

Housing Conditions (Roof, Wall and Floor)

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

Energy fuel for cooking and lighting

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



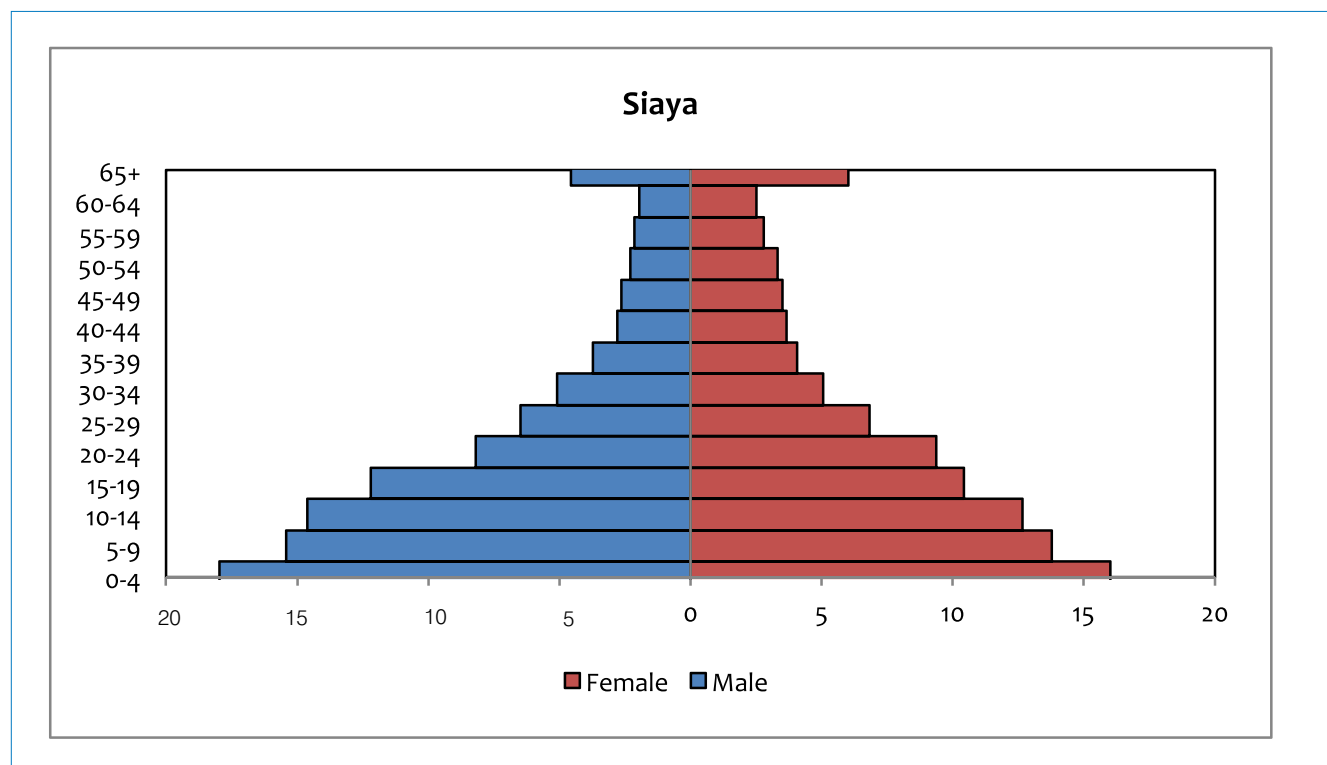


Siaya County



SIAYA COUNTY

Figure 38.1: Siaya Population Pyramid



Population

Siaya County has a child rich population, where 0-14 year olds constitute 45% of the total population. However, the county is at the onset of a fertility decline as 42.9% of households have 0-3 household members and 39.4% of households have 4-6 members.

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 38.3 up to ward level.

Table 38: Overall Employment by Education Levels in Siaya County

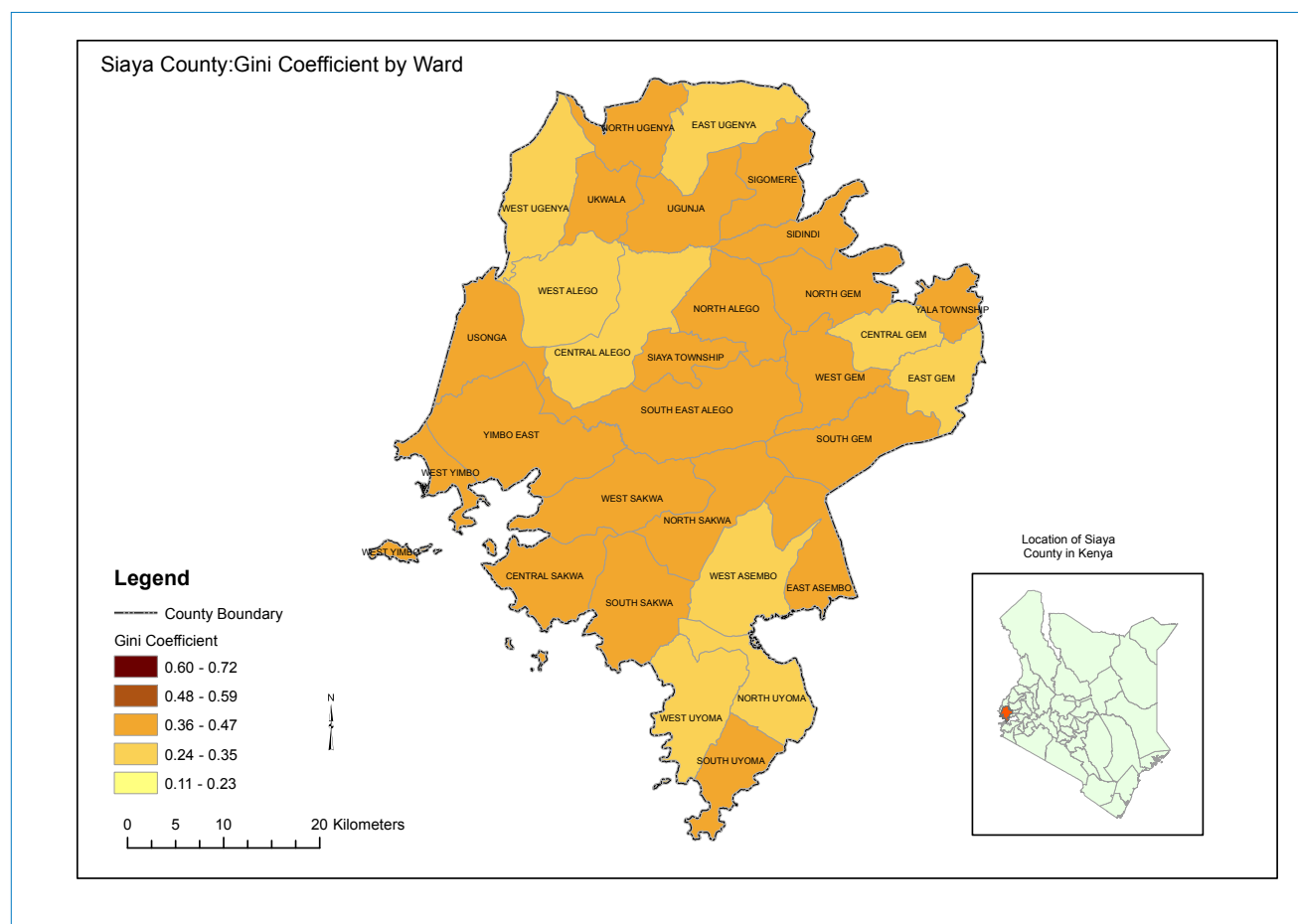
Education Level	Work for pay	Family Business	Family Agricultural Holding	Intern/ Volunteer	Retired/ Home-maker	Fulltime Student	Incapacitated	No work	Number of Individuals
Total	15.4	13.5	44.1	1.2	6.7	13.1	0.9	5.2	413,673
None	10.5	10.1	62.5	2.0	6.4	0.5	3.3	4.7	38,443
Primary	13.2	14.4	47.1	1.0	7.0	11.6	0.7	5.0	263,720
Secondary+	22.4	12.8	30.5	1.3	5.9	20.7	0.5	5.9	111,510

In Siaya County, 11% of the residents with no formal education are working for pay, 13% of those with a primary education and 22% of those with a secondary or above level of education. Work for pay for those with secondary or above level of education is highest in Nairobi at 49% and this is twice the level in Siaya.

Gini Coefficient

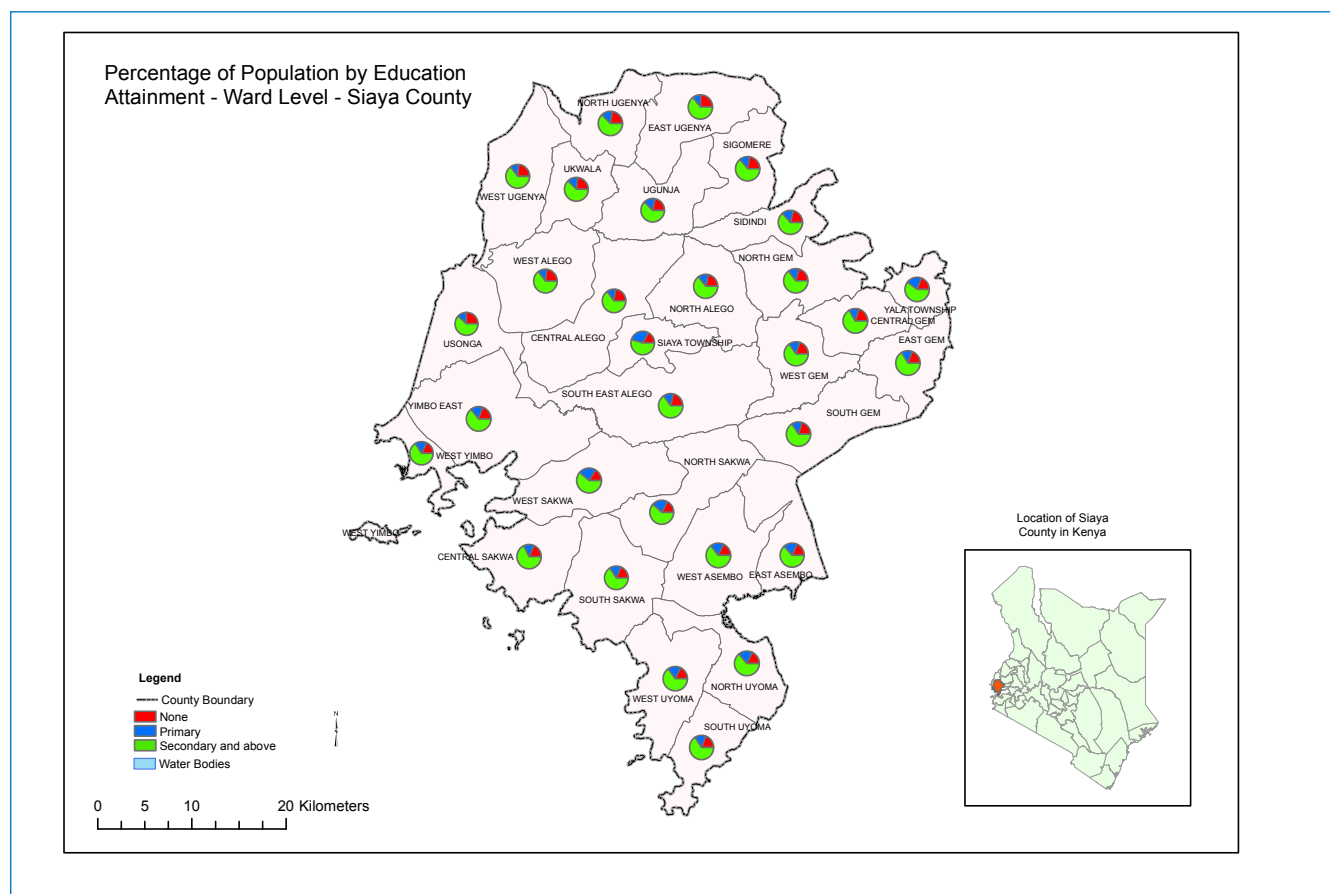
In this report, the Gini index measures the extent to which the distribution of consumption expenditure among individuals or households within an economy deviates from a perfectly equal distribution. A Gini index of '0' represents perfect equality, while an index of '1' implies perfect inequality. Siaya County's Gini index is 0.405 compared with Turkana County, which has the least inequality nationally (0.283).

Figure 38.2: Siaya County-Gini Coefficient by Ward



Education

Figure 38.3: Siaya County-Percentage of Population by Education Attainment by Ward



Only 16% of Siaya County residents have a secondary level of education or above. Two constituencies, Bondo and Rarieda, have the highest share of residents with a secondary level of or above at 18%. This is 5 percentage points above Ugenya constituency, which has the lowest share of residents with a secondary level of education or above. Bondo and Rarieda are 2 percentage points above the county average. Siaya Township ward has the highest share of residents with a secondary level of education or above at 28%. This is almost three times East Ugenya ward, which has the lowest share of residents with a secondary level of education or above. Siaya Township ward is 12 percentage points above the county average.

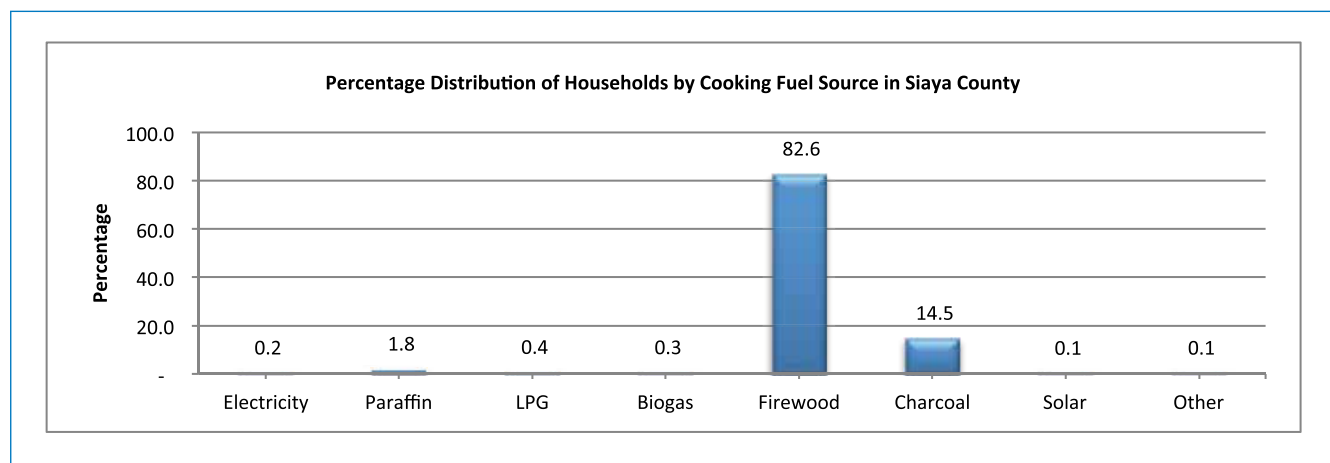
A total of 64% of Siaya County residents have a primary level of education only. Gem constituency has the highest share of residents with a primary level of education only at 65%. This is 2 percentage points above Alego Usonga constituency, which has the lowest share of residents with a primary level of education only. Gem constituency is 1% point above the county average. Central Sakwa ward has the highest share of residents with a primary level of education only at 68%. This is 13 percentage points above Siaya Township ward, which has the lowest share of residents with a primary level of education only. Central Sakwa ward is 4 percentage points above the county average.

20% of Siaya County residents have no formal education. Ugenya constituency has the highest share of residents with no formal education at 24%. This is 6 percentage points above Bondo East and Rarieda constituencies, which have the lowest share of residents with no formal education. Ugenya constituency is 4 percentage points above the county average. East Ugenya ward has the highest percentage of residents with no formal education at 25%. This is 8 percentage points above West Sakwa ward, which has the lowest percentage of residents with no formal education. East Ugenya is 5 percentage points above the county average.

Energy

Cooking Fuel

Figure 38.4: Percentage Distribution of Households by Source of Cooking Fuel in Siaya County



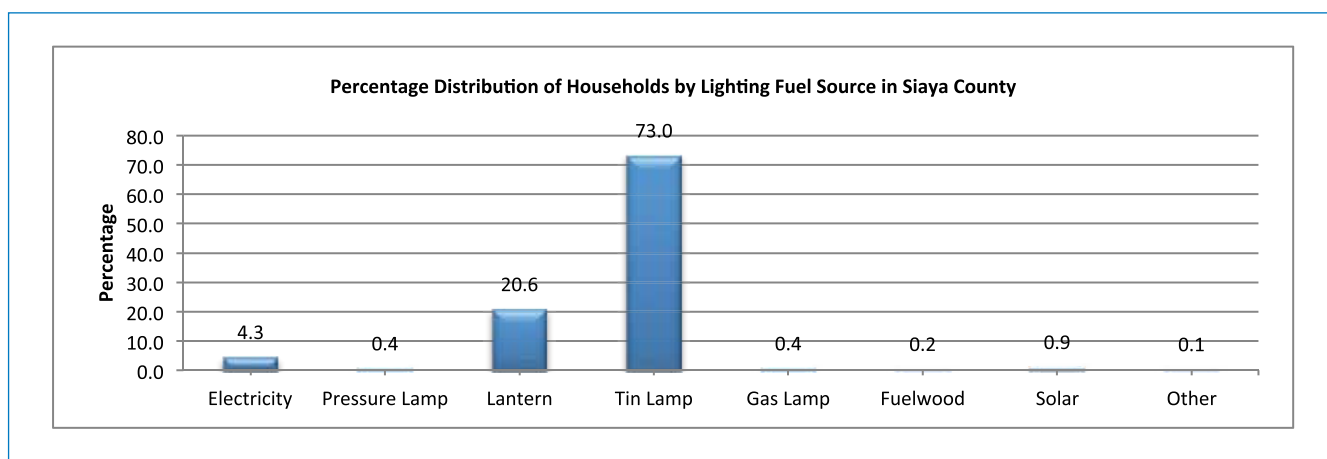
Less than 1% of residents in Siaya County use Liquefied Petroleum Gas (LPG), and 2% use paraffin. 83% use firewood and 15% use charcoal. Firewood is the most common cooking fuel by gender at 79% in male headed households and 88% in female headed households.

Ugenya constituency has the highest level of firewood use in Siaya County at 89%. This is 19 percentage points above Bondo constituency, which has the lowest share. Ugenya constituency is about 6 percentage points above the county average. Two wards, West Ugenya and East Ugenya, have the highest level of firewood use in Siaya County at 94% each. This is twice the level in Siaya Township that is lowest ward. West and East Ugenya are 11 percentage points above the county average.

Bondo constituency has the highest level of charcoal use in Siaya County at 26%. This is 17 percentage points above the level in Ugenya that is the lowest constituency. Bondo constituency is 11 percentage points above the county average. Siaya Township ward has the highest level of charcoal use in Siaya County at 49%. This is almost 10 times the level in West Ugenya, which has the lowest share. Siaya Township ward is 34 percentage points above the county average.

Lighting

Figure 38.5: Percentage Distribution of Households by Source of Lighting Fuel in Siaya County



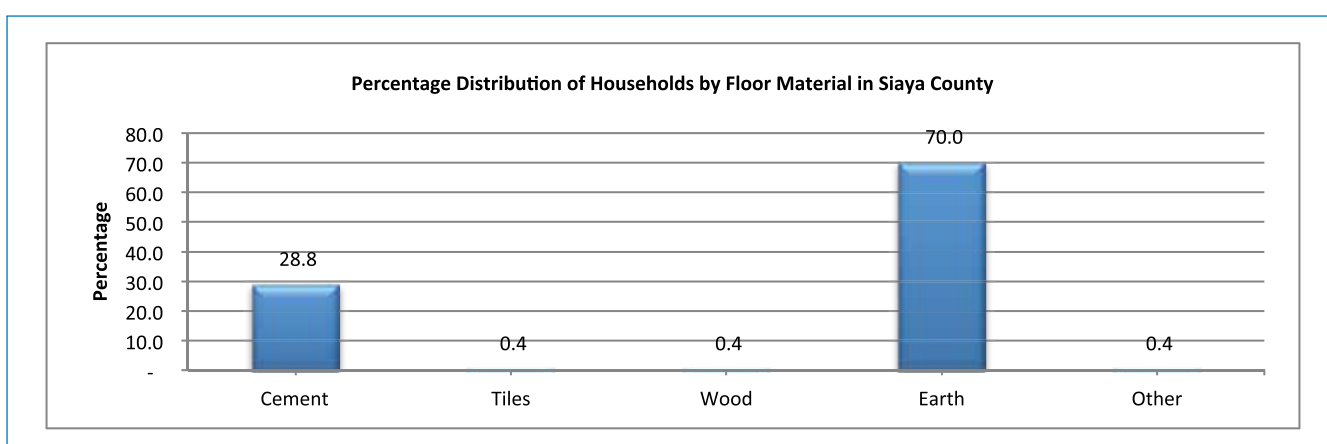
Only 4% of residents in Siaya County use electricity as their main source of lighting. A further 21% use lanterns, and 73% use tin lamps. Less than 1% use fuel wood. Electricity use is slightly higher in male headed households at 5% as compared with female headed households at 3%.

Two constituencies, Alego Usonga and Bondo, have the highest level of electricity use at 5% each. This is 2 percentage points above Rarieda constituency, which has the lowest level of electricity use. Alego Usonga and Bondo constituencies are 1% point above the county average. Siaya Township ward has the highest level of electricity use at 20%. That is 20 percentage points above South Sakwa ward, which has the lowest level of electricity use. Siaya Township ward is 16 percentage points above the county average.

Housing

Flooring

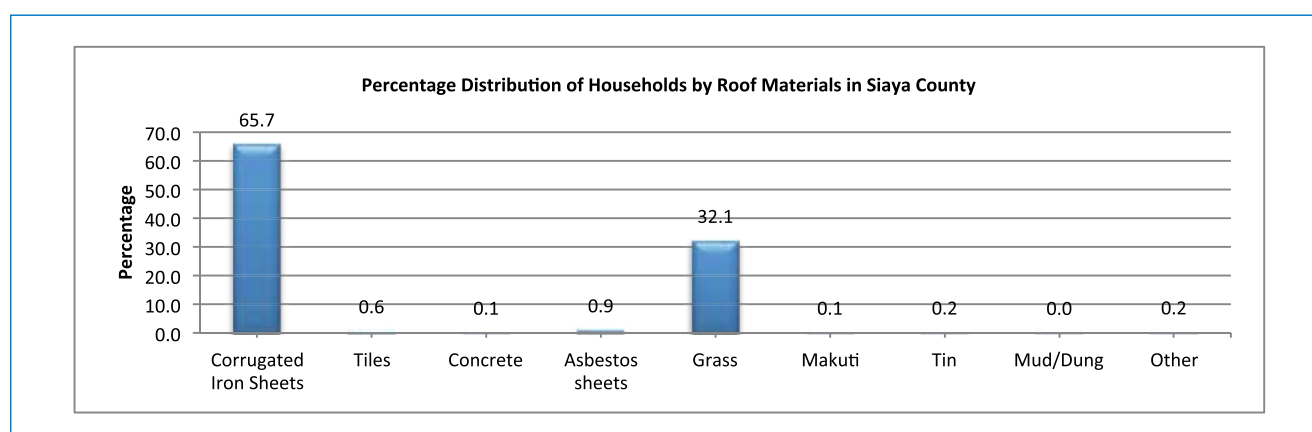
Figure 38.6: Percentage Distribution of Households by Floor Material in Siaya County



In Siaya County, 29% of residents have homes with cement floors, while 70% have earth floors. Less than 1% has wood or tile floors. Bondo constituency has the highest share of cement floors at 42%. That is twice Gem constituency, which has the lowest share of cement floors. Bondo constituency is 13 percentage points above the county average. Siaya Township ward has the highest share of cement floors at 68%. That is four times East Gem ward, which has the lowest share of cement floors. Siaya Township ward is 39 percentage points above the county average.

Roofing

Figure 38.7: Percentage Distribution of Households by Roof Material in Siaya County



In Siaya County, less than 1% of residents have homes with concrete roofs, while 66% have corrugated iron sheet roofs. Grass and makuti roofs constitute 32% of homes, and less none have mud/dung roofs.

Bondo constituency has the highest share of corrugated iron sheet roofs at 78%. That is 25 percentage points above Ugenya constituency, which has the lowest share of corrugated iron sheet roofs. Bondo constituency is 12 percentage points above the county average. West Yimbo ward has the highest share of corrugated iron sheet roofs at 87%. This is twice East Ugenya ward, which has the lowest share of corrugated iron sheet roofs. West Yimbo ward is 21 percentage points above the county average.

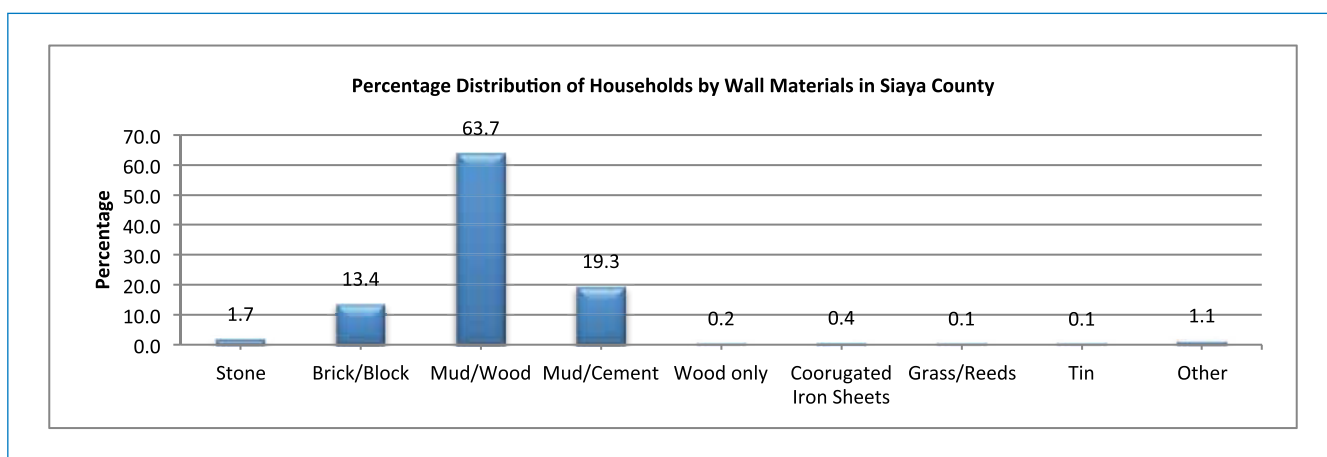
Ugenya constituency with the highest share of grass/makuti roofs at 46%. This is twice Bondo constituency, which has the lowest share of grass/makuti roofs. Ugenya constituency is 14 percentage points above the county average. East Ugenya ward has the highest share of grass/makuti roofs at 57%. This is five times West Yimbo ward, which has the lowest share. East Ugenya ward is 25 percentage points above the county average.

Walls

In Siaya County, 15% of homes have either brick or stone walls. 83% of homes have mud/wood or mud/cement walls. Less than 1% has wood or corrugated iron sheet or grass/thatched walls. 1% has tin or other walls.

Alego Usonga constituency has the highest share of brick/stone walls at 18%. That is 6 percentage points above Gem constituency, which has the lowest share of brick/stone walls. Alego Usonga constituency is 3 percentage points above the county average. Siaya Township ward has the highest share of brick/stone walls at 56%. That is eight times Central Alego ward, which has the lowest share of brick/stone walls. Siaya Township ward is 41 percentage points above the county average.

Rarieda constituency has the highest share of mud with wood/cement walls at 86%. This is 5 percentage points above Alego Usonga constituency, which has the lowest share of mud with wood/cement. Rarieda constituency is 3 percentage points above the county average. Central Alego ward has the highest share of mud with wood/cement walls at 93%. That is twice Siaya Township ward, which has the lowest share of mud with wood/cement walls. Central Alego ward is 10 percentage points above the county average.

Figure 38.8: Percentage Distribution of Households by Wall Material in Siaya County

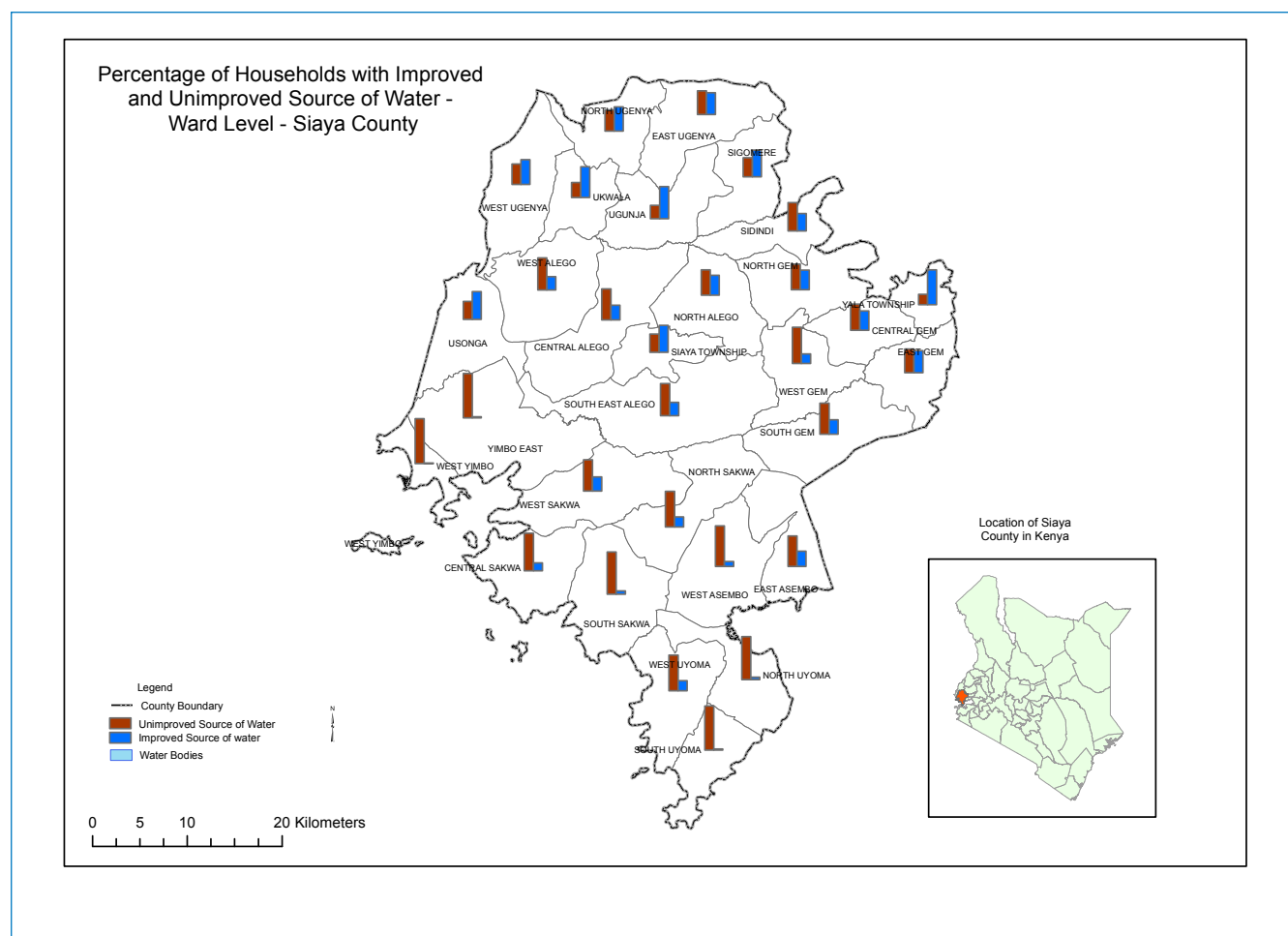
Water

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 Siaya County, 36% of residents use improved sources of water, with the rest relying on unimproved sources. There is no significant gender differential in use of improved sources as seen in 35% of male headed households and 37% in female headed households.

Ugunja constituency has the highest share of residents using improved sources of water at 58%. That is four times Bondo constituency, which has the lowest share using improved sources of water. Ugunja constituency is 22 percentage points above the county average. Yala Township ward has the highest share of residents using improved sources of water at 76%. That is 76 percentage points above West Yimbo ward, which has the lowest share using improved sources of water. Yala Township ward is 40 percentage points above the county average.

Figure 38.9: Siaya County-Percentage of Households with Improved and Unimproved Sources of Water by Ward

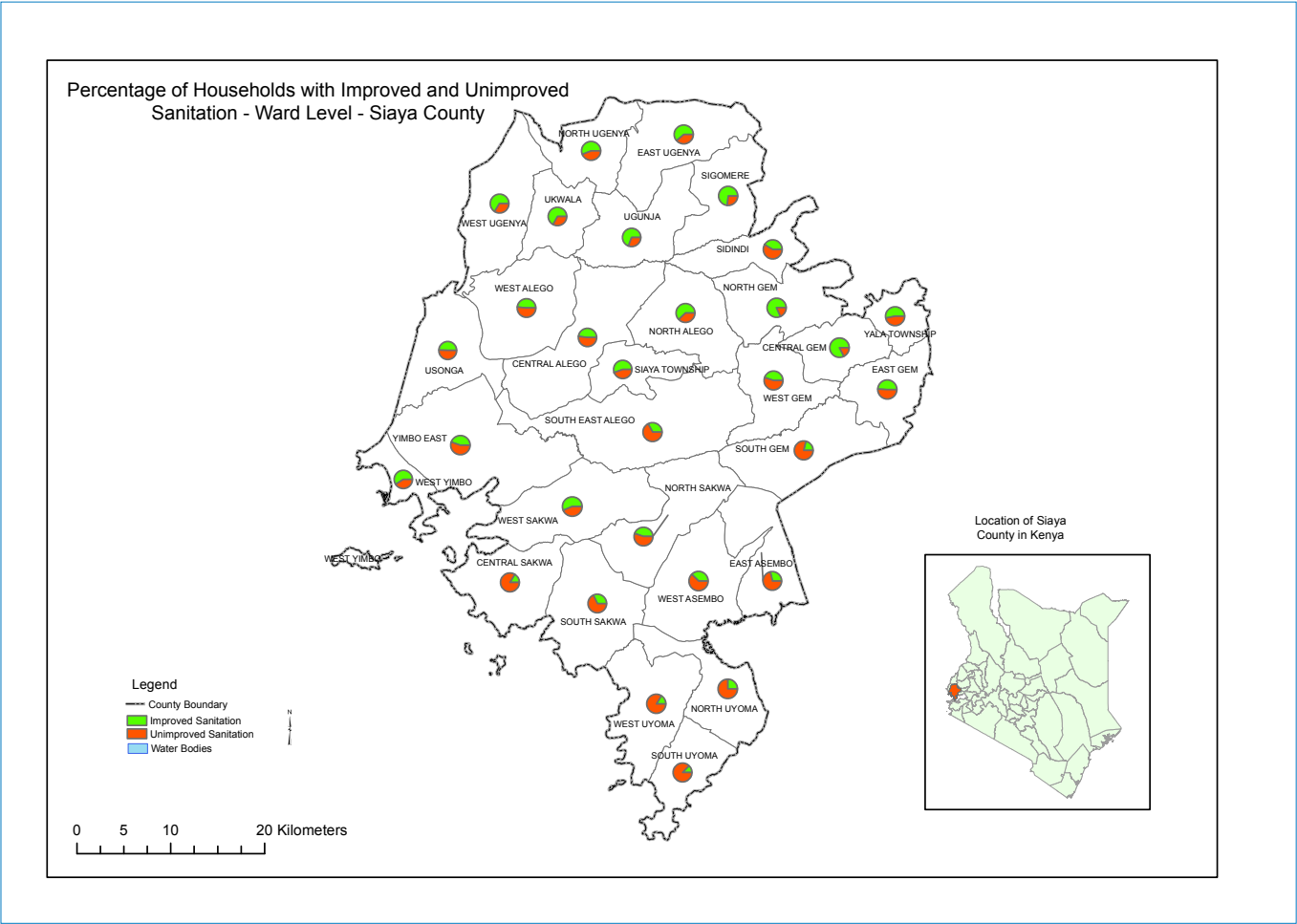


Sanitation

A total of 49% of residents in Siaya County use improved sanitation, while the rest use unimproved sanitation. There is no significant gender differential in use of improved sanitation as seen in 49% of male headed households as compared with 48% in female headed households.

Two constituencies, Ugunja and Ugenya, have the highest share of residents using improved sanitation at 63% each. That is almost three times Rarieda constituency, which has the lowest share using improved sanitation. Ugunja and Ugenya are 14 percentage points above the county average. Central Gem ward has the highest share of residents using improved sanitation at 83%. That is six times South Uyoma ward, which has the lowest share using improved sanitation. Central Gem ward is 34 percentage points above the county average.

Figure 38.10: Siaya County –Percentage of Households with Improved and Unimproved Sanitation by Ward



Siaya County Annex Tables

38. SIAYA

Table 38.1: Gender, Age group, Demographic Indicators and Households Size by County Constituency and Wards

County/Constituency/ Wards	Gender			Age group						Demographic indicators					Protion 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 depen- dancy Ratio	aged depen- dancy ratio	0-3	4-6	7+	total	
Kenya	37,919,647	18,787,698	19,131,949	7,035,670	16,346,414	8,293,207	13,329,717	20,249,800	1,323,433	0.982	0.873	0.807	0.065	41.5	38.4	20.1	8,493,380	
Rural	26,075,195	12,869,034	13,206,161	5,059,515	12,024,773	6,134,730	8,303,007	12,984,788	1,065,634	0.974	1.008	0.926	0.082	33.2	41.3	25.4	5,239,879	
Urban	11,844,452	5,918,664	5,925,788	1,976,155	4,321,641	2,158,477	5,026,710	7,265,012	257,799	0.999	0.630	0.595	0.035	54.8	33.7	11.5	3,253,501	
Siaya County	833,760	394,380	439,380	167,588	375,628	191,907	265,253	413,673	44,459	0.898	1.016	0.908	0.107	42.9	39.4	17.7	195,408	
Ugenya Constituency	108,021	49,683	58,338	21,581	49,342	25,659	32,082	51,980	6,699	0.852	1.078	0.949	0.129	43.2	39.6	17.2	25590	
West Ugenya	30,292	14,005	16,287	6,076	13,760	7,103	9,044	14,638	1,894	0.860	1.069	0.940	0.129	43.6	39.5	16.9	7214	
Ukwala	21,148	9,619	11,529	3,838	9,252	5,155	6,218	10,392	1,504	0.834	1.035	0.890	0.145	46.2	37.0	16.9	5148	
North Ugenya	26,346	12,070	14,276	5,269	12,036	6,303	8,062	12,835	1,475	0.845	1.053	0.938	0.115	42.8	40.5	16.7	6255	
East Ugenya	30,235	13,989	16,246	6,398	14,294	7,098	8,758	14,115	1,826	0.861	1.142	1.013	0.129	41.0	40.8	18.2	6973	
Ugunja Constituency	92,398	42,806	49,592	18,537	41,477	21,280	28,364	45,446	5,475	0.863	1.033	0.913	0.120	44.1	38.8	17.1	21957	
Sidindi	24,080	11,383	12,697	4,843	10,654	5,474	7,356	11,863	1,563	0.897	1.030	0.898	0.132	42.4	39.2	18.5	5550	
Sigomere	29,538	13,599	15,939	6,148	13,738	6,936	8,794	14,146	1,654	0.853	1.088	0.971	0.117	41.9	39.7	18.3	6829	
Ugunja	38,780	17,824	20,956	7,546	17,085	8,870	12,214	19,437	2,258	0.851	0.995	0.879	0.116	46.7	37.9	15.4	9578	
Alego Usonga Constit- uency	185,420	86,690	98,730	36,254	82,051	42,943	57,823	92,531	10,838	0.878	1.004	0.887	0.117	44.7	38.3	17.0	44457	
Usonga	13,594	6,262	7,332	2,773	5,986	2,887	4,202	6,711	897	0.854	1.026	0.892	0.134	49.3	35.7	15.0	3429	
West Alego	31,925	14,576	17,349	6,072	14,167	7,570	9,125	15,458	2,300	0.840	1.065	0.916	0.149	45.2	37.7	17.2	7644	
Central Alego	30,989	14,430	16,559	5,968	13,507	6,944	9,127	15,255	2,227	0.871	1.031	0.885	0.146	45.9	38.7	15.4	7616	

Siaya Township	31,865	15,108	16,757	6,272	13,794	7,267	11,797	17,155	916	0.902	0.857	0.804	0.053	46.4	37.6	16.1	7796
North Alego	31,717	14,975	16,742	6,080	14,202	7,820	9,754	15,755	1,760	0.894	1.013	0.901	0.112	42.6	39.3	18.2	7397
South East Alego	45,330	21,339	23,991	9,089	20,395	10,455	13,818	22,197	2,738	0.889	1.042	0.919	0.123	42.3	39.1	18.6	10575
Gem Constituency	159,299	75,929	83,370	31,798	72,047	36,743	48,956	78,419	8,833	0.911	1.031	0.919	0.113	41.2	39.7	19.1	36396
North Gem	34,611	16,433	18,178	6,758	15,428	8,026	10,501	17,105	2,078	0.904	1.023	0.902	0.121	41.1	39.5	19.4	7856
West Gem	23,417	11,170	12,247		10,491	5,360	7,419	11,678	1,248	0.912	1.005	0.898	0.107	42.4	39.3	18.2	5432
Central Gem	23,809	11,455	12,354	4,972	11,172	5,457	7,187	11,406	1,231	0.927	1.087	0.979	0.108	39.1	40.8	20.1	5342
Yala Township	22,744	10,858	11,886	4,303	9,997	5,252	7,288	11,519	1,228	0.914	0.974	0.868	0.107	43.0	38.1	18.8	5282
East Gem	24,572	11,640	12,932	5,047	11,190	5,684	7,431	12,018	1,364	0.900	1.045	0.931	0.113	40.7	40.4	19.0	5608
South Gem	30,146	14,373	15,773	6,007	13,769	6,964	9,130	14,693	1,684	0.911	1.052	0.937	0.115	41.1	39.8	19.1	6876
Bondo Constituency	155,329	75,329	80,000	32,912	70,187	34,095	54,944	79,404	5,738	0.942	0.956	0.884	0.072	43.1	39.3	17.7	36356
West Yimbo	28,217	13,985	14,232	6,312	12,587	5,453	11,117	14,954	676	0.963	0.887	0.842	0.045	45.7	36.6	17.7	6668
Central Sakwa	19,816	9,796	10,020	4,464	9,049	4,085	7,118	10,087	680	0.978	0.965	0.897	0.067	41.1	40.7	18.2	4540
South Sakwa	22,988	10,949	12,039	4,789	10,483	5,247	7,752	11,521	984	0.909	0.995	0.910	0.085	45.6	39.8	14.6	5690
Yimbo East	27,083	13,148	13,935	5,686	12,412	6,178	8,851	13,432	1,239	0.944	1.016	0.924	0.092	40.1	40.5	19.4	6066
West Sakwa	24,453	11,835	12,618	5,092	11,050	5,506	8,661	12,552	851	0.938	0.948	0.880	0.068	40.0	39.3	20.7	5475
North Sakwa	32,772	15,616	17,156	6,569	14,606	7,626	11,445	16,858	1,308	0.910	0.944	0.866	0.078	44.5	39.3	16.2	7917
Rarieda Constituency	133,293	63,943	69,350	26,506	60,524	31,187	43,084	65,893	6,876	0.922	1.023	0.919	0.104	40.8	41.0	18.2	30652
East Asembo	32,702	15,477	17,225	6,268	14,588	7,727	10,462	16,284	1,830	0.899	1.008	0.896	0.112	43.4	39.8	16.8	7821

West Asembo	32,494	15,573	16,921	6,165	14,756	8,014	10,028	15,836	1,902	0.920	1.052	0.932	0.120	40.5	40.6	18.9	7405
North Uyoma	20,931	10,234	10,697	4,237	9,597	4,860	6,793	10,285	1,049	0.957	1.035	0.933	0.102	37.5	43.1	19.4	4653
South Uyoma	19,421	9,255	10,166	4,148	8,896	4,193	6,605	9,674	851	0.910	1.008	0.920	0.088	41.2	42.2	16.6	4542
West Uyoma	27,745	13,404	14,341	5,688	12,687	6,393	9,196	13,814	1,244	0.935	1.008	0.918	0.090	40.1	40.4	19.5	6231

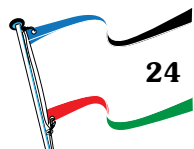
Table 38.2: Employment by County, Constituency and Wards

County/Constituency/ Wards	Work for pay	Family Business	Family Agricultural Holding	Intern/ Volunteer	Retired/ Home- maker	Fulltime Student	Incapaci- tated	No work	Number of Individuals
Kenya	23.7	13.1	32.0	1.1	9.2	12.8	0.5	7.7	20,249,800
Rural	15.6	11.2	43.5	1.0	8.8	13.0	0.5	6.3	12,984,788
Urban	38.1	16.4	11.4	1.3	9.9	12.2	0.3	10.2	7,265,012
Siaya County	15.4	13.5	44.1	1.2	6.7	13.1	0.9	5.2	413,673
Ugenya Constituency	10.0	8.8	61.8	1.0	3.6	11.1	1.0	2.6	51,980
West Ugenya	7.2	7.2	70.5	0.9	2.5	9.3	0.9	1.5	14,638
Ukwala	11.3	10.5	57.3	0.9	5.7	11.0	1.1	2.3	10,392
North Ugenya	13.7	11.1	52.0	1.4	5.5	10.6	1.1	4.6	12,835
East Ugenya	8.7	7.3	64.9	0.9	1.6	13.4	1.0	2.1	14,115
Ugunja Constituency	13.9	10.0	52.4	1.0	6.3	11.5	1.1	3.9	45,446
Sidindi	11.7	11.6	52.1	0.9	7.6	12.6	1.2	2.3	11,863
Sigomere	11.0	7.1	58.9	0.8	6.3	11.2	1.0	3.8	14,146
Ugunja	17.3	11.2	47.9	1.2	5.5	11.0	1.0	4.9	19,437
Alego Usonga Constituency	14.4	11.5	51.0	1.4	4.5	11.6	0.9	4.8	92,531
Usonga	13.0	13.3	58.1	1.0	1.6	8.9	0.8	3.5	6,711
West Alego	9.1	10.8	53.3	1.7	5.4	13.8	1.3	4.6	15,458
Central Alego	12.0	8.9	59.2	1.1	4.9	8.9	1.2	3.8	15,255
Siaya Township	27.2	16.8	27.2	1.9	7.0	12.4	0.5	7.1	17,155
North Alego	12.3	10.0	56.0	1.0	2.6	13.0	0.7	4.4	15,755
South East Alego	11.9	10.1	56.7	1.2	3.7	11.1	0.9	4.4	22,197
Gem Constituency	11.0	8.8	58.1	1.3	2.6	13.2	0.8	4.2	78,419
North Gem	9.8	8.7	64.1	1.0	1.3	10.3	0.8	4.0	17,105
West Gem	10.4	9.3	54.3	1.9	3.7	12.8	0.9	6.9	11,678
Central Gem	9.9	9.4	59.6	0.8	2.6	14.2	0.8	2.9	11,406
Yala Township	17.1	9.5	45.0	1.1	5.8	14.6	0.7	6.1	11,519
East Gem	10.7	6.5	62.9	2.1	1.3	13.4	0.8	2.2	12,018
South Gem	9.4	9.4	59.5	0.9	1.7	15.1	0.6	3.5	14,693
Bondo Constituency	24.4	21.4	20.5	1.0	10.1	14.7	0.8	7.2	79,404
West Yimbo	35.8	25.2	10.3	0.9	8.5	12.5	0.5	6.3	14,954
Central Sakwa	22.0	31.7	17.7	0.9	10.8	9.6	0.6	6.7	10,087
South Sakwa	20.4	24.5	22.6	0.7	11.7	14.9	0.6	4.7	11,521
Yimbo East	18.9	15.8	26.4	1.0	12.2	16.9	1.3	7.6	13,432
West Sakwa	28.1	18.4	19.5	1.1	7.5	16.6	1.2	7.8	12,552
North Sakwa	20.2	16.3	25.9	1.2	10.0	16.3	0.8	9.4	16,858
Rarieda Constituency	16.4	18.8	26.4	1.3	13.1	15.5	1.0	7.5	65,893
East Asembo	17.4	12.7	32.0	1.2	15.8	14.2	0.9	5.8	16,284
West Asembo	15.2	14.6	30.5	1.4	17.7	13.3	1.3	6.1	15,836
North Uyoma	16.1	21.9	20.9	1.1	8.6	18.8	1.2	11.5	10,285
South Uyoma	14.4	27.0	21.3	1.5	12.0	15.6	0.6	7.6	9,674
West Uyoma	18.3	22.9	22.5	1.4	9.0	17.2	1.0	7.9	13,814

Table 38.3: Employment and Education Levels by County, Constituency and Wards

County /constituency/Wards	Education Totallevel	Work for pay	Family Business	Family Ag-ricultural Holding	Intern/ Volun-teeer	Retired/ Home-maker	Fulltime Student	Incapaci-tated	No work	Number of Individuals
Kenya	Total	23.7	13.1	32.0	1.1	9.2	12.8	0.5	7.7	20,249,800
Kenya	None	11.1	14.0	44.4	1.7	14.7	0.8	1.2	12.1	3,154,356
Kenya	Primary	20.7	12.6	37.3	0.8	9.6	12.1	0.4	6.5	9,528,270
Kenya	Secondary+	32.7	13.3	20.2	1.2	6.6	18.6	0.2	7.3	7,567,174
Rural	Total	15.6	11.2	43.5	1.0	8.8	13.0	0.5	6.3	12,984,788
Rural	None	8.5	13.6	50.0	1.4	13.9	0.7	1.2	10.7	2,614,951
Rural	Primary	15.5	10.8	45.9	0.8	8.4	13.2	0.5	5.0	6,785,745
Rural	Secondary+	21.0	10.1	34.3	1.0	5.9	21.9	0.3	5.5	3,584,092
Urban	Total	38.1	16.4	11.4	1.3	9.9	12.2	0.3	10.2	7,265,012
Urban	None	23.5	15.8	17.1	3.1	18.7	1.5	1.6	18.8	539,405
Urban	Primary	33.6	16.9	16.0	1.0	12.3	9.5	0.4	10.2	2,742,525
Urban	Secondary+	43.2	16.1	7.5	1.3	7.1	15.6	0.2	9.0	3,983,082
Siaya	Total	15.4	13.5	44.1	1.2	6.7	13.1	0.9	5.2	413,673
Siaya	None	10.5	10.1	62.5	2.0	6.4	0.5	3.3	4.7	38,443
Siaya	Primary	13.2	14.4	47.1	1.0	7.0	11.6	0.7	5.0	263,720
Siaya	Secondary+	22.4	12.8	30.5	1.3	5.9	20.7	0.5	5.9	111,510
Ugenya Constituency	Total	10.0	8.8	61.8	1.0	3.6	11.1	1.0	2.6	51,980
Ugenya Constituency	None	7.0	6.7	76.6	1.5	2.8	0.2	2.7	2.4	6,988
Ugenya Constituency	Primary	7.8	9.2	64.9	0.8	3.7	10.6	0.8	2.2	33,190
Ugenya Constituency	Secondary+	18.1	9.2	44.2	1.4	4.2	18.8	0.5	3.6	11,802
West Ugenya Wards	Total	7.2	7.2	70.5	0.9	2.5	9.3	0.9	1.5	14,638
West Ugenya Wards	None	4.0	5.8	84.0	1.0	1.9	0.2	2.2	1.1	1,947
West Ugenya Wards	Primary	5.9	7.6	72.5	0.6	2.6	8.7	0.8	1.3	9,660
West Ugenya Wards	Secondary+	13.5	6.8	55.3	1.8	2.7	17.2	0.4	2.3	3,031
Ukwala Wards	Total	11.3	10.5	57.3	0.9	5.7	11.0	1.1	2.3	10,392
Ukwala Wards	None	7.4	7.4	74.0	1.4	5.3	0.2	2.7	1.6	1,332
Ukwala Wards	Primary	8.2	11.1	60.4	0.6	5.3	11.3	0.9	2.2	6,434
Ukwala Wards	Secondary+	20.7	10.5	41.3	1.4	6.8	15.8	0.6	2.9	2,626

North Ugenya Wards	Total	13.7	11.1	52.0	1.4	5.5	10.6	1.1	4.6	12,835
North Ugenya Wards	None	10.9	7.1	67.2	2.2	3.7	0.5	3.1	5.4	1,714
North Ugenya Wards	Primary	10.8	11.4	55.5	1.4	6.0	9.9	0.9	4.2	7,841
North Ugenya Wards	Secondary+	22.2	12.3	35.6	1.2	5.4	17.7	0.5	5.1	3,280
East Ugenya Wards	Total	8.7	7.3	64.9	0.9	1.6	13.4	1.0	2.1	14,115
East Ugenya Wards	None	6.3	6.9	79.2	1.5	1.3	0.2	3.0	1.7	1,995
East Ugenya Wards	Primary	7.1	7.6	68.0	0.6	1.6	12.8	0.8	1.6	9,255
East Ugenya Wards	Secondary+	15.8	6.8	44.9	1.5	1.9	24.6	0.6	4.0	2,865
Ugunja Constituency	Total	13.9	10.0	52.4	1.0	6.3	11.5	1.1	3.9	45,446
Ugunja Constituency	None	9.5	7.3	69.0	1.6	5.1	0.5	3.5	3.6	4,846
Ugunja Constituency	Primary	11.8	10.0	56.0	0.8	6.6	10.3	0.9	3.6	28,889
Ugunja Constituency	Secondary+	20.8	11.1	36.6	1.2	6.1	18.9	0.5	4.7	11,711
Sidindi Wards	Total	11.7	11.6	52.1	0.9	7.6	12.6	1.2	2.3	11,863
Sidindi Wards	None	9.2	9.1	69.0	1.5	5.7	0.2	4.4	1.1	1,103
Sidindi Wards	Primary	9.8	12.0	55.4	0.6	8.3	11.1	1.0	1.8	7,678
Sidindi Wards	Secondary+	17.6	11.3	37.8	1.2	6.8	21.0	0.6	3.8	3,082
Sigomere Wards	Total	11.0	7.1	58.9	0.8	6.3	11.2	1.0	3.8	14,146
Sigomere Wards	None	7.6	4.6	73.4	1.6	5.7	0.4	3.0	3.7	1,584
Sigomere Wards	Primary	9.6	7.3	61.9	0.6	6.2	10.1	0.9	3.5	9,151
Sigomere Wards	Secondary+	16.2	7.8	44.0	1.0	7.0	19.1	0.4	4.6	3,411
Ugunja Wards	Total	17.3	11.2	47.9	1.2	5.5	11.0	1.0	4.9	19,437
Ugunja Wards	None	11.1	8.4	65.7	1.7	4.4	0.6	3.4	4.7	2,159
Ugunja Wards	Primary	14.7	10.9	52.0	1.0	5.9	10.1	0.8	4.7	12,060
Ugunja Wards	Secondary+	25.7	13.2	31.0	1.4	5.2	17.6	0.5	5.3	5,218
Alego Usonga Constituency	Total	14.4	11.5	51.0	1.4	4.5	11.6	0.9	4.8	92,531
Alego Usonga Constituency	None	9.0	8.7	68.9	2.1	3.6	0.5	2.9	4.1	10,879
Alego Usonga Constituency	Primary	11.4	11.9	55.4	1.1	4.6	10.4	0.7	4.5	57,283
Alego Usonga Constituency	Secondary+	24.0	11.7	32.7	1.5	4.5	19.5	0.5	5.7	24,369
Usonga Wards	Total	13.0	13.3	58.1	1.0	1.6	8.9	0.8	3.5	6,711
Usonga Wards	None	8.0	9.8	74.8	1.7	0.6	0.4	2.2	2.5	940
Usonga Wards	Primary	12.1	13.8	59.5	0.8	1.5	8.5	0.5	3.2	4,295



Usonga Wards	Secondary+	18.6	14.2	43.1	1.0	2.3	15.6	0.5	4.7	1,476
West Alego Wards	Total	9.1	10.8	53.3	1.7	5.4	13.8	1.3	4.6	15,458
West Alego Wards	None	7.2	9.0	66.9	3.1	5.7	0.2	3.7	4.3	2,397
West Alego Wards	Primary	7.6	11.3	54.6	1.4	5.7	14.1	0.9	4.4	9,891
West Alego Wards	Secondary+	15.4	10.4	38.8	1.7	4.4	23.3	0.5	5.5	3,170
Central Alego Wards	Total	12.0	8.9	59.2	1.1	4.9	8.9	1.2	3.8	15,255
Central Alego Wards	None	8.2	7.8	71.7	1.8	4.0	0.2	3.3	3.1	1,944
Central Alego Wards	Primary	10.6	9.5	61.0	0.9	5.0	8.3	0.9	3.7	10,139
Central Alego Wards	Secondary+	18.9	7.8	45.7	1.2	5.0	16.0	0.9	4.6	3,172
Siaya Township Wards	Total	27.2	16.8	27.2	1.9	7.0	12.4	0.5	7.1	17,155
Siaya Township Wards	None	18.1	12.6	51.3	3.8	4.9	1.1	1.9	6.4	1,196
Siaya Township Wards	Primary	19.9	18.8	34.6	1.6	8.2	9.1	0.5	7.3	8,189
Siaya Township Wards	Secondary+	36.4	15.2	15.7	1.8	6.0	17.7	0.2	7.0	7,770
North Alego Wards	Total	12.3	10.0	56.0	1.0	2.6	13.0	0.7	4.4	15,755
North Alego Wards	None	7.9	6.5	75.6	1.3	2.3	0.4	2.3	3.7	1,818
North Alego Wards	Primary	10.2	10.7	59.6	0.8	2.7	11.2	0.6	4.2	10,184
North Alego Wards	Secondary+	19.9	10.1	36.7	1.3	2.5	23.8	0.5	5.3	3,753
South East Alego Wards	Total	11.9	10.1	56.7	1.2	3.7	11.1	0.9	4.4	22,197
South East Alego Wards	None	8.4	8.6	70.2	1.6	2.9	0.7	3.1	4.5	2,584
South East Alego Wards	Primary	10.3	10.5	59.7	1.2	3.6	9.9	0.7	4.2	14,585
South East Alego Wards	Secondary+	18.2	9.8	41.0	1.2	4.2	20.1	0.5	5.1	5,028
Gem Constituency	Total	11.0	8.8	58.1	1.3	2.6	13.2	0.8	4.2	78,419
Gem Constituency	None	8.5	7.4	71.7	2.2	2.9	0.5	2.9	4.0	6,918
Gem Constituency	Primary	8.9	9.1	62.0	1.1	2.6	11.8	0.6	3.9	51,480
Gem Constituency	Secondary+	17.5	8.4	43.5	1.3	2.5	21.3	0.4	5.0	20,021
North Gem Wards	Total	9.8	8.7	64.1	1.0	1.3	10.3	0.8	4.0	17,105
North Gem Wards	None	8.5	8.3	72.3	2.2	1.4	0.8	2.6	3.9	1,788
North Gem Wards	Primary	8.0	9.2	67.2	0.7	1.4	9.2	0.6	3.7	11,202
North Gem Wards	Secondary+	15.0	7.5	52.2	1.4	1.1	17.3	0.5	4.9	4,115
West Gem Wards	Total	10.4	9.3	54.3	1.9	3.7	12.8	0.9	6.9	11,678
West Gem Wards	None	8.0	6.6	68.4	2.8	3.9	0.2	3.3	6.7	997

West Gem Wards	Primary	8.1	9.6	58.2	1.8	3.6	10.9	0.8	7.1	7,714
West Gem Wards	Secondary+	17.0	9.3	39.4	1.7	3.6	22.1	0.4	6.5	2,967
Central Gem Wards	Total	9.9	9.4	59.6	0.8	2.6	14.2	0.8	2.9	11,406
Central Gem Wards	None	6.3	8.4	74.4	1.2	2.6	0.6	3.1	3.4	915
Central Gem Wards	Primary	7.9	9.9	63.6	0.7	2.5	12.4	0.6	2.4	7,909
Central Gem Wards	Secondary+	17.3	8.2	41.8	0.9	2.7	24.3	0.4	4.4	2,582
Yala Township Wards	Total	17.1	9.5	45.0	1.1	5.8	14.6	0.7	6.1	11,519
Yala Township Wards	None	11.7	7.9	61.2	2.9	6.6	0.7	3.5	5.4	964
Yala Township Wards	Primary	13.8	9.8	49.9	0.9	6.3	12.6	0.5	6.3	6,686
Yala Township Wards	Secondary+	24.3	9.3	32.6	1.0	4.9	21.7	0.4	5.9	3,869
East Gem Wards	Total	10.7	6.5	62.9	2.1	1.3	13.4	0.8	2.2	12,018
East Gem Wards	None	8.8	3.7	78.3	2.6	1.4	0.1	2.9	2.3	930
East Gem Wards	Primary	9.2	6.4	66.1	2.1	1.3	12.5	0.7	1.8	8,177
East Gem Wards	Secondary+	15.7	7.6	49.3	2.1	1.5	20.2	0.5	3.3	2,911
South Gem Wards	Total	9.4	9.4	59.5	0.9	1.7	15.1	0.6	3.5	14,693
South Gem Wards	None	7.7	8.2	74.8	1.5	2.4	0.2	2.5	2.7	1,324
South Gem Wards	Primary	7.6	9.8	62.7	0.8	1.7	14.0	0.5	3.0	9,792
South Gem Wards	Secondary+	15.2	8.5	45.0	0.9	1.5	23.8	0.2	4.9	3,577
Bondo Constituency	Total	24.4	21.4	20.5	1.0	10.1	14.7	0.8	7.2	79,404
Bondo Constituency	None	20.0	19.1	31.4	2.2	14.2	0.7	4.0	8.5	4,848
Bondo Constituency	Primary	22.6	23.1	22.0	0.8	11.0	12.8	0.7	7.2	50,936
Bondo Constituency	Secondary+	29.3	18.1	15.1	1.2	7.2	21.7	0.4	7.1	23,620
West Yimbo Wards	Total	35.8	25.2	10.3	0.9	8.5	12.5	0.5	6.3	14,954
West Yimbo Wards	None	37.8	24.5	15.6	2.0	10.2	0.3	3.5	6.3	768
West Yimbo Wards	Primary	35.7	26.2	10.5	0.8	9.3	10.9	0.4	6.3	10,169
West Yimbo Wards	Secondary+	35.8	22.6	8.7	1.0	6.4	18.9	0.2	6.5	4,017
Central Sakwa Wards	Total	22.0	31.7	17.7	0.9	10.8	9.6	0.6	6.7	10,087
Central Sakwa Wards	None	24.3	27.7	21.5	3.2	13.7	1.0	2.0	6.6	604
Central Sakwa Wards	Primary	20.6	33.7	17.9	0.6	11.5	8.1	0.6	7.0	7,134
Central Sakwa Wards	Secondary+	25.7	26.7	16.1	1.2	8.0	16.3	0.2	6.0	2,349
South Sakwa Wards	Total	20.4	24.5	22.6	0.7	11.7	14.9	0.6	4.7	11,521

South Sakwa Wards	None	15.6	25.9	31.4	0.9	15.5	1.0	3.8	5.9	679
South Sakwa Wards	Primary	20.0	26.6	22.6	0.6	12.6	13.0	0.4	4.3	7,800
South Sakwa Wards	Secondary+	22.5	18.7	20.6	0.9	8.6	22.9	0.3	5.6	3,042
Yimbo East Wards	Total	18.9	15.8	26.4	1.0	12.2	16.9	1.3	7.6	13,432
Yimbo East Wards	None	13.1	13.1	35.7	2.2	18.5	0.6	6.4	10.6	1,018
Yimbo East Wards	Primary	17.2	17.7	28.5	0.7	12.8	15.0	0.9	7.2	8,708
Yimbo East Wards	Secondary+	24.5	12.1	18.8	1.3	9.0	25.9	0.8	7.6	3,706
West Sakwa Wards	Total	28.1	18.4	19.5	1.1	7.5	16.6	1.2	7.8	12,552
West Sakwa Wards	None	20.3	17.1	37.7	2.6	10.2	1.3	3.5	7.3	695
West Sakwa Wards	Primary	24.2	19.6	22.1	1.0	8.3	14.8	1.3	8.8	7,241
West Sakwa Wards	Secondary+	35.4	16.6	12.6	1.0	5.7	21.9	0.6	6.2	4,616
North Sakwa Wards	Total	20.2	16.3	25.9	1.2	10.0	16.3	0.8	9.4	16,858
North Sakwa Wards	None	14.1	13.0	40.0	2.3	14.9	0.4	3.5	11.7	1,084
North Sakwa Wards	Primary	16.1	16.6	30.4	0.9	11.4	14.5	0.7	9.5	9,884
North Sakwa Wards	Secondary+	28.1	16.3	15.7	1.5	6.8	22.3	0.4	9.0	5,890
Rarieda Constituency	Total	16.4	18.8	26.4	1.3	13.1	15.5	1.0	7.5	65,893
Rarieda Constituency	None	13.6	16.8	34.4	2.7	18.6	0.8	5.0	8.1	3,964
Rarieda Constituency	Primary	14.5	20.7	28.0	1.1	13.9	13.5	0.8	7.4	41,942
Rarieda Constituency	Secondary+	20.8	15.2	21.3	1.4	10.3	22.8	0.7	7.5	19,987
East Asembo Wards	Total	17.4	12.7	32.0	1.2	15.8	14.2	0.9	5.8	16,284
East Asembo Wards	None	11.5	10.0	45.3	2.0	20.6	0.5	4.4	5.8	1,080
East Asembo Wards	Primary	15.2	13.2	34.5	1.1	16.6	12.9	0.7	5.8	10,078
East Asembo Wards	Secondary+	22.9	12.3	24.4	1.2	13.2	19.6	0.5	5.8	5,126
West Asembo Wards	Total	15.2	14.6	30.5	1.4	17.7	13.3	1.3	6.1	15,836
West Asembo Wards	None	11.9	15.1	35.3	2.8	23.0	0.7	5.2	6.0	1,013
West Asembo Wards	Primary	13.2	15.7	32.3	1.2	18.6	12.2	1.1	5.6	9,834
West Asembo Wards	Secondary+	19.8	12.1	26.0	1.5	14.7	18.1	1.0	7.0	4,989
North Uyoma Wards	Total	16.1	21.9	20.9	1.1	8.6	18.8	1.2	11.5	10,285
North Uyoma Wards	None	16.3	18.8	26.2	2.7	12.3	1.5	7.4	14.8	553
North Uyoma Wards	Primary	14.0	25.2	23.3	0.9	9.6	14.6	1.0	11.6	6,462
North Uyoma Wards	Secondary+	20.1	15.8	15.3	1.1	6.0	30.2	0.7	10.8	3,270

South Uyoma Wards	Total	14.4	27.0	21.3	1.5	12.0	15.6	0.6	7.6	9,674
South Uyoma Wards	None	14.7	26.6	26.9	2.7	16.3	0.3	2.9	9.6	625
South Uyoma Wards	Primary	12.7	29.3	22.2	1.3	13.1	13.5	0.4	7.6	6,615
South Uyoma Wards	Secondary+	19.1	20.6	17.6	1.9	7.8	25.3	0.6	7.2	2,434
West Uyoma Wards	Total	18.3	22.9	22.5	1.4	9.0	17.2	1.0	7.9	13,814
West Uyoma Wards	None	16.5	19.6	29.3	3.3	16.0	1.6	5.8	7.9	693
West Uyoma Wards	Primary	17.1	25.1	23.7	1.2	9.6	14.8	0.7	7.9	8,953
West Uyoma Wards	Secondary+	21.1	18.7	18.8	1.4	6.5	24.9	0.6	7.9	4,168

Table 38.4: 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
Siaya	Total	17.8	14.4	42.8	1.2	6.5	11.4	0.7	5.2	258,649
Siaya	None	12.7	10.3	60.7	2.1	6.2	0.5	2.8	4.8	18,543
Siaya	Primary	15.1	15.1	46.4	1.0	7.0	9.8	0.6	5.0	168,050
Siaya	Secondary+	25.6	13.7	29.9	1.4	5.6	17.8	0.5	5.7	72,056
Ugenya Constituency	Total	11.7	9.6	61.1	1.0	3.5	9.8	0.8	2.6	29,467
Ugenya Constituency	None	8.3	7.3	75.3	1.4	2.6	0.2	2.1	2.8	3,148
Ugenya Constituency	Primary	8.9	9.9	65.1	0.7	3.4	9.1	0.7	2.2	19,422

Ugenya Constituency	Secondary+	21.1	10.1	43.2	1.5	4.0	16.0	0.5	3.6	6,897
West Ugenya Ward	Total	8.2	8.2	70.1	0.9	2.1	8.2	0.6	1.7	8,347
West Ugenya Ward	None	4.7	6.0	84.6	0.7	1.4	0.1	1.2	1.3	837
West Ugenya Ward	Primary	6.6	8.6	72.4	0.6	2.2	7.6	0.6	1.5	5,793
West Ugenya Ward	Secondary+	15.3	7.7	55.6	1.9	2.4	14.4	0.4	2.3	1,717
Ukwala Ward	Total	13.3	11.2	56.3	0.9	5.4	9.5	0.8	2.6	5,767
Ukwala Ward	None	9.8	8.6	70.2	1.0	5.4	0.2	2.7	2.0	590
Ukwala Ward	Primary	9.3	11.7	61.3	0.5	5.0	9.2	0.5	2.4	3,665
Ukwala Ward	Secondary+	24.5	10.8	38.8	1.7	6.3	13.7	0.7	3.4	1,512
North Ugenya Ward	Total	16.3	12.6	49.3	1.3	5.7	9.3	0.9	4.6	7,187
North Ugenya Ward	None	12.6	8.1	64.6	2.0	3.7	0.4	2.6	6.0	763
North Ugenya Ward	Primary	12.9	12.7	53.6	1.2	6.2	8.8	0.8	3.9	4,461
North Ugenya Ward	Secondary+	25.4	14.2	33.7	1.2	5.5	14.1	0.4	5.7	1,963
East Ugenya Ward	Total	10.1	7.4	65.6	0.8	1.5	12.0	0.8	1.8	8,166
East Ugenya Ward	None	7.0	6.9	79.0	1.8	1.1	0.1	2.2	1.9	958
East Ugenya Ward	Primary	7.8	7.6	69.5	0.5	1.4	11.0	0.7	1.5	5,503
East Ugenya Ward	Secondary+	19.2	7.0	45.4	1.3	1.7	21.9	0.6	2.8	1,705
Ugunja Constituency	Total	16.2	10.8	51.6	1.0	6.0	9.8	0.9	3.8	27,124
Ugunja Constituency	None	11.8	7.9	66.1	1.7	5.2	0.5	3.2	3.5	2,271
Ugunja Constituency	Primary	13.5	10.6	56.1	0.8	6.3	8.5	0.7	3.6	17,573
Ugunja Constituency	Secondary+	24.1	12.1	36.4	1.3	5.4	15.7	0.4	4.7	7,280
Sidindi Ward	Total	13.4	12.2	53.0	0.8	7.1	10.6	0.9	2.0	7,066
Sidindi Ward	None	12.1	9.1	66.6	1.7	5.3	-	4.3	0.9	530
Sidindi Ward	Primary	11.0	12.2	57.1	0.6	7.6	9.2	0.7	1.6	4,699
Sidindi Ward	Secondary+	19.9	13.0	38.7	0.9	6.4	17.3	0.5	3.3	1,837
Sigomere Ward	Total	12.9	7.7	58.2	0.8	5.9	9.8	0.9	3.9	8,639
Sigomere Ward	None	8.3	5.1	72.0	1.7	6.0	0.7	2.9	3.4	767
Sigomere Ward	Primary	11.0	7.9	61.9	0.5	5.9	8.4	0.8	3.6	5,714
Sigomere Ward	Secondary+	19.3	8.2	43.4	1.1	6.2	16.7	0.4	4.8	2,158
Ugunja Ward	Total	20.4	12.2	45.8	1.3	5.3	9.2	0.8	5.0	11,419
Ugunja Ward	None	14.5	9.4	61.3	1.7	4.5	0.7	2.8	5.0	974

Ugunja Ward	Primary	17.1	11.7	50.7	1.1	5.8	8.1	0.8	4.8	7,160
Ugunja Ward	Secondary+	29.6	14.2	30.5	1.6	4.4	14.2	0.3	5.3	3,285
Alego Usonga Constituency	Total	16.9	12.3	49.7	1.3	4.3	10.0	0.7	4.8	56,487
Alego Usonga Constituency	None	10.8	9.5	66.7	2.0	3.5	0.4	2.7	4.5	5,181
Alego Usonga Constituency	Primary	13.1	12.7	55.0	1.1	4.5	8.6	0.6	4.5	35,685
Alego Usonga Constituency	Secondary+	27.6	12.4	31.9	1.6	4.3	16.3	0.4	5.5	15,621
Usonga Ward	Total	15.0	13.9	56.5	0.9	1.6	7.6	0.6	3.8	3,846
Usonga Ward	None	9.4	8.9	72.5	2.0	0.7	-	2.5	4.0	403
Usonga Ward	Primary	13.7	14.1	59.3	0.7	1.3	7.2	0.4	3.2	2,540
Usonga Ward	Secondary+	21.4	15.7	41.4	1.0	2.7	12.2	0.3	5.3	903
West Alego Ward	Total	10.6	12.1	53.1	1.8	5.2	11.7	1.1	4.4	8,587
West Alego Ward	None	7.6	10.4	65.7	3.1	5.4	-	3.3	4.4	1,086
West Alego Ward	Primary	8.7	12.3	55.2	1.4	5.6	11.7	0.8	4.2	5,585
West Alego Ward	Secondary+	17.8	12.2	39.8	2.1	4.0	18.3	0.6	5.1	1,916
Central Alego Ward	Total	13.9	9.3	58.6	0.9	4.7	7.7	1.0	3.8	8,996
Central Alego Ward	None	9.8	9.0	70.4	1.0	3.8	0.1	3.0	2.8	864
Central Alego Ward	Primary	12.2	9.7	60.8	0.8	4.7	7.3	0.8	3.8	6,192
Central Alego Ward	Secondary+	21.3	8.2	46.4	1.3	5.1	12.7	0.7	4.3	1,940
Siaya Township Ward	Total	30.2	17.2	26.3	1.8	6.8	10.2	0.4	7.1	11,750
Siaya Township Ward	None	21.3	12.9	46.8	3.2	3.7	1.1	2.5	8.6	652
Siaya Township Ward	Primary	22.0	19.2	34.4	1.6	8.0	7.1	0.3	7.3	5,753
Siaya Township Ward	Secondary+	40.0	15.7	15.1	1.9	5.8	14.6	0.1	6.7	5,345
North Alego Ward	Total	14.2	10.7	55.5	1.0	2.5	11.3	0.6	4.2	9,470
North Alego Ward	None	8.5	6.0	75.5	1.2	2.2	0.6	2.1	3.9	902
North Alego Ward	Primary	11.5	11.2	59.8	0.9	2.6	9.5	0.5	4.0	6,254
North Alego Ward	Secondary+	23.9	11.0	36.0	1.2	2.1	20.4	0.5	4.8	2,314
South East Alego Ward	Total	13.8	10.9	55.6	1.2	3.5	9.9	0.7	4.4	13,838
South East Alego Ward	None	10.9	9.8	67.3	1.6	3.1	0.7	2.4	4.1	1,274
South East Alego Ward	Primary	11.7	11.5	59.1	1.1	3.5	8.3	0.5	4.2	9,361
South East Alego Ward	Secondary+	21.1	9.7	40.7	1.2	3.6	18.1	0.5	5.1	3,203
Gem Constituency	Total	12.2	9.1	58.2	1.2	2.6	12.0	0.6	4.0	49,806

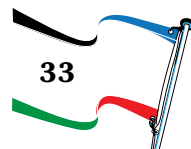
Gem Constituency	None	10.0	6.9	71.3	2.2	3.1	0.5	2.3	3.7	3,603
Gem Constituency	Primary	9.7	9.5	62.7	1.1	2.6	10.1	0.5	3.7	33,152
Gem Constituency	Secondary+	19.2	8.7	43.3	1.3	2.5	20.1	0.4	4.6	13,051
North Gem Ward	Total	10.6	9.0	63.4	1.0	1.3	10.1	0.7	3.9	10,604
North Gem Ward	None	9.5	8.7	71.7	2.4	1.5	0.9	1.9	3.4	959
North Gem Ward	Primary	8.7	9.6	67.6	0.7	1.4	7.8	0.6	3.6	6,907
North Gem Ward	Secondary+	15.9	7.5	50.1	1.4	1.1	19.0	0.4	4.7	2,738
West Gem Ward	Total	11.5	9.5	54.9	1.8	3.5	11.4	0.7	6.6	7,440
West Gem Ward	None	8.9	4.5	71.3	3.0	3.8	0.2	2.6	5.7	530
West Gem Ward	Primary	8.9	10.0	58.9	1.8	3.5	9.4	0.6	7.1	5,063
West Gem Ward	Secondary+	19.3	9.9	39.4	1.6	3.6	20.2	0.4	5.7	1,847
Central Gem Ward	Total	10.9	9.6	60.0	0.7	2.4	13.1	0.6	2.7	7,407
Central Gem Ward	None	8.6	7.2	73.3	1.8	2.4	1.0	2.6	3.2	502
Central Gem Ward	Primary	8.5	10.5	64.6	0.5	2.3	10.9	0.4	2.2	5,201
Central Gem Ward	Secondary+	19.0	7.9	41.8	0.9	2.5	23.5	0.3	4.1	1,704
Yala Township Ward	Total	19.1	10.2	43.7	1.0	6.2	13.6	0.6	5.5	7,323
Yala Township Ward	None	13.0	9.3	56.5	3.0	8.7	0.6	3.0	5.9	494
Yala Township Ward	Primary	15.4	10.6	49.5	0.9	6.6	10.8	0.4	5.9	4,263
Yala Township Ward	Secondary+	26.5	9.8	31.8	0.9	5.1	20.8	0.4	4.7	2,566
East Gem Ward	Total	12.0	6.9	62.8	2.2	1.5	11.8	0.6	2.2	7,551
East Gem Ward	None	11.8	3.5	76.5	2.0	1.8	-	2.4	2.0	451
East Gem Ward	Primary	10.1	6.8	66.3	2.2	1.5	10.8	0.6	1.7	5,255
East Gem Ward	Secondary+	17.3	8.0	49.6	2.1	1.7	17.3	0.4	3.5	1,845
South Gem Ward	Total	10.5	9.4	61.2	0.8	1.7	12.8	0.4	3.3	9,481
South Gem Ward	None	9.1	6.4	76.5	1.3	2.2	0.1	1.6	2.5	667
South Gem Ward	Primary	8.3	9.8	64.7	0.8	1.8	11.4	0.4	2.8	6,463
South Gem Ward	Secondary+	16.8	8.9	47.1	0.8	1.3	20.2	0.2	4.7	2,351
Bondo Constituency	Total	27.5	21.9	19.8	0.9	9.8	12.4	0.6	7.1	53,349
Bondo Constituency	None	24.1	18.9	29.0	2.8	13.2	0.7	2.9	8.3	2,417
Bondo Constituency	Primary	25.3	23.4	21.4	0.7	11.0	10.5	0.5	7.1	34,816
Bondo Constituency	Secondary+	32.7	19.1	14.9	1.1	6.8	18.2	0.4	6.8	16,116

West Yimbo Ward	Total	39.2	25.2	9.8	0.8	8.6	10.2	0.3	6.0	10,719
West Yimbo Ward	None	43.9	21.6	13.8	2.6	10.3	0.2	2.6	4.9	426
West Yimbo Ward	Primary	38.6	26.1	10.0	0.6	9.5	8.8	0.2	6.1	7,389
West Yimbo Ward	Secondary+	39.9	23.4	8.7	1.0	5.9	15.2	0.1	5.8	2,904
Central Sakwa Ward	Total	23.8	32.0	17.5	0.9	10.4	8.1	0.3	6.9	6,944
Central Sakwa Ward	None	26.1	26.4	21.0	4.1	14.6	1.0	1.0	5.7	314
Central Sakwa Ward	Primary	22.2	33.7	18.0	0.7	11.0	6.7	0.4	7.4	5,034
Central Sakwa Ward	Secondary+	28.6	27.5	15.3	1.2	7.6	14.0	0.2	5.6	1,596
South Sakwa Ward	Total	23.9	25.2	21.6	0.6	11.6	12.2	0.4	4.6	7,618
South Sakwa Ward	None	19.1	27.8	29.0	0.9	15.1	0.9	1.9	5.2	324
South Sakwa Ward	Primary	23.3	27.0	21.5	0.5	12.8	10.3	0.3	4.2	5,276
South Sakwa Ward	Secondary+	26.0	20.1	20.7	0.7	7.8	19.0	0.3	5.4	2,018
Yimbo East Ward	Total	20.9	16.1	26.5	1.0	11.8	15.4	1.0	7.3	8,779
Yimbo East Ward	None	14.1	12.4	36.9	3.1	16.9	0.8	4.5	11.4	491
Yimbo East Ward	Primary	19.0	17.8	28.7	0.6	12.8	13.3	0.8	7.0	5,820
Yimbo East Ward	Secondary+	26.8	12.7	19.4	1.4	8.3	23.3	0.9	7.1	2,468
West Sakwa Ward	Total	31.9	19.0	18.1	1.1	7.3	13.9	0.9	7.9	8,196
West Sakwa Ward	None	26.1	15.7	33.1	3.9	9.2	1.1	3.1	7.8	357
West Sakwa Ward	Primary	27.7	19.9	20.9	1.0	8.4	12.3	0.9	9.0	4,724
West Sakwa Ward	Secondary+	39.0	18.0	12.1	0.9	5.6	17.7	0.6	6.2	3,115
North Sakwa Ward	Total	23.1	16.9	25.5	1.2	9.8	13.7	0.7	9.1	11,093
North Sakwa Ward	None	17.8	15.0	36.0	2.4	12.9	0.2	3.6	12.1	505
North Sakwa Ward	Primary	18.5	16.9	30.7	0.8	11.7	11.8	0.6	9.1	6,573
North Sakwa Ward	Secondary+	31.4	17.0	15.6	1.5	6.5	18.7	0.3	8.8	4,015
Rarieda Constituency	Total	18.9	19.5	26.4	1.3	12.4	13.2	0.8	7.4	42,416
Rarieda Constituency	None	16.4	15.6	34.0	2.3	17.9	0.9	4.5	8.4	1,923
Rarieda Constituency	Primary	16.7	21.3	28.0	1.2	13.4	11.3	0.6	7.4	27,402
Rarieda Constituency	Secondary+	23.9	16.4	21.8	1.5	9.6	19.1	0.6	7.2	13,091
East Asembo Ward	Total	20.9	12.8	31.5	1.3	14.7	12.5	0.7	5.6	10,287
East Asembo Ward	None	11.8	9.7	45.0	1.4	21.2	0.6	4.4	6.0	518
East Asembo Ward	Primary	18.3	13.2	34.6	1.3	15.5	10.8	0.5	5.7	6,404

East Asembo Ward	Secondary+	27.2	12.3	23.6	1.4	12.2	17.4	0.5	5.3	3,365
West Asembo Ward	Total	17.7	15.1	30.3	1.4	16.9	11.7	1.1	5.9	10,007
West Asembo Ward	None	15.0	13.8	36.4	2.8	21.3	1.0	4.3	5.3	506
West Asembo Ward	Primary	15.4	16.2	32.1	1.2	18.2	10.6	0.8	5.5	6,298
West Asembo Ward	Secondary+	22.8	13.2	25.9	1.5	13.5	15.4	1.0	6.7	3,203
North Uyoma Ward	Total	18.0	22.1	22.1	1.1	8.6	15.5	1.0	11.5	6,757
North Uyoma Ward	None	20.1	13.5	28.8	2.9	12.0	1.1	7.3	14.2	274
North Uyoma Ward	Primary	15.5	25.1	24.5	0.9	9.7	11.9	0.8	11.5	4,316
North Uyoma Ward	Secondary+	22.8	17.3	16.5	1.2	6.1	24.6	0.6	11.0	2,167
South Uyoma Ward	Total	16.2	27.9	21.9	1.5	11.6	13.0	0.5	7.4	6,494
South Uyoma Ward	None	18.5	27.1	25.5	1.2	14.2	0.3	2.5	10.8	325
South Uyoma Ward	Primary	14.2	30.2	22.4	1.4	13.0	11.3	0.3	7.2	4,544
South Uyoma Ward	Secondary+	21.3	21.9	19.9	1.7	7.1	20.3	0.4	7.3	1,625
West Uyoma Ward	Total	20.5	24.2	22.5	1.4	8.3	14.3	0.7	8.0	8,871
West Uyoma Ward	None	21.0	18.3	24.7	4.0	15.7	1.7	4.7	10.0	300
West Uyoma Ward	Primary	19.1	25.9	23.5	1.3	9.1	12.1	0.6	8.4	5,840
West Uyoma Ward	Secondary+	23.6	21.1	20.1	1.6	5.8	20.4	0.5	7.0	2,731

Table 38.5: Employment and Education Levels in Female Headed Households by County, Constituency and Wards

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



Urban Urban	Primary	27.49	17.07	17.79	1.13	10.76	13.93	0.55	11.29	665,766
Urban Urban	Secondary+	36.81	14.50	8.06	1.51	6.36	22.11	0.22	10.43	935,481
Siaya	Total	11.3	12.1	46.1	1.2	6.8	16.0	1.2	5.2	155237
Siaya	None	8.5	9.9	64.3	2.0	6.5	.5	3.8	4.5	19892
Siaya	Primary	9.7	13.0	48.4	1.0	7.0	14.9	1.0	4.9	95629
Siaya	Secondary+	16.5	10.9	31.5	1.3	6.4	26.5	.6	6.2	39716
Ugenya Constituency	Total	7.9	7.8	62.7	1.1	3.9	12.8	1.3	2.6	22509
Ugenya Constituency	None	6.0	6.3	77.6	1.6	2.9	.3	3.2	2.1	3840
Ugenya Constituency	Primary	6.3	8.2	64.5	1.0	4.0	12.7	1.1	2.3	13767
Ugenya Constituency	Secondary+	13.7	7.9	45.7	1.3	4.4	22.7	.5	3.7	4902
West Ugenya Ward	Total	5.9	5.9	70.9	1.0	3.0	10.7	1.2	1.3	6291
West Ugenya Ward	None	3.5	5.6	83.5	1.2	2.2	.2	2.9	1.0	1110
West Ugenya Ward	Primary	4.8	6.2	72.7	.7	3.3	10.3	1.0	1.0	3867
West Ugenya Ward	Secondary+	11.2	5.6	54.9	1.5	3.0	20.9	.5	2.4	1314
Ukwala Ward	Total	8.7	9.5	58.7	.9	6.0	12.9	1.4	1.9	4621
Ukwala Ward	None	5.5	6.5	77.1	1.8	5.1	.1	2.7	1.2	742
Ukwala Ward	Primary	6.8	10.2	59.4	.7	5.7	14.0	1.4	1.9	2768
Ukwala Ward	Secondary+	15.6	10.1	44.7	.9	7.4	18.5	.5	2.3	1111
North Ugenya Ward	Total	10.4	9.1	55.4	1.6	5.3	12.2	1.3	4.6	5648
North Ugenya Ward	None	9.6	6.3	69.2	2.4	3.7	.5	3.5	4.8	951
North Ugenya Ward	Primary	8.0	9.7	58.0	1.5	5.8	11.3	1.0	4.7	3380
North Ugenya Ward	Secondary+	17.5	9.6	38.6	1.1	5.2	23.1	.6	4.3	1317
East Ugenya Ward	Total	6.9	7.2	63.9	1.1	1.7	15.3	1.3	2.5	5949
East Ugenya Ward	None	5.7	6.9	79.4	1.2	1.4	.2	3.8	1.5	1037
East Ugenya Ward	Primary	6.1	7.6	65.7	.9	1.7	15.5	.9	1.7	3752
East Ugenya Ward	Secondary+	10.7	6.5	44.1	1.8	2.1	28.5	.4	5.9	1160
Ugunja Constituency	Total	10.4	8.9	53.5	1.0	6.9	14.1	1.4	3.9	18336
Ugunja Constituency	None	7.4	6.8	71.4	1.6	5.0	.4	3.8	3.6	2576
Ugunja Constituency	Primary	9.1	9.2	56.0	.7	7.1	13.2	1.1	3.5	11308
Ugunja Constituency	Secondary+	15.3	9.5	36.8	1.2	7.3	24.5	.7	4.8	4452
Sidindi Ward	Total	9.3	10.7	50.8	1.0	8.5	15.6	1.6	2.7	4795
Sidindi Ward	None	6.5	9.1	71.2	1.2	6.1	.3	4.4	1.2	573
Sidindi Ward	Primary	7.8	11.7	52.8	.6	9.4	14.0	1.5	2.2	2977
Sidindi Ward	Secondary+	14.1	8.9	36.5	1.7	7.3	26.3	.6	4.5	1245
Sigomere Ward	Total	7.9	6.1	59.8	.9	6.9	13.6	1.2	3.6	5527
Sigomere Ward	None	6.9	4.2	74.7	1.6	5.4	.2	3.2	3.9	817
Sigomere Ward	Primary	7.2	6.3	62.0	.7	6.7	12.9	1.0	3.3	3434
Sigomere Ward	Secondary+	10.7	6.8	44.4	.9	8.3	24.3	.3	4.2	1276
Ugunja Ward	Total	12.7	9.8	50.8	1.0	5.9	13.6	1.4	4.7	8014
Ugunja Ward	None	8.3	7.6	69.3	1.7	4.3	.5	3.9	4.5	1186
Ugunja Ward	Primary	11.4	9.6	53.7	.8	6.0	12.9	.9	4.6	4897
Ugunja Ward	Secondary+	19.0	11.5	32.0	1.2	6.7	23.4	.9	5.3	1931
Alego Usonga Constituency	Total	10.6	10.2	53.3	1.4	4.6	14.2	1.2	4.7	36039
Alego Usonga Constituency	None	7.4	8.1	71.0	2.3	3.8	.5	3.2	3.8	5688
Alego Usonga Constituency	Primary	8.6	10.7	56.2	1.2	4.7	13.2	.9	4.5	21576
Alego Usonga Constituency	Secondary+	17.4	10.2	34.4	1.3	4.8	25.4	.5	5.9	8775
Usonga Ward	Total	10.2	12.5	60.1	1.1	1.5	10.6	.9	3.0	2865

Usonga Ward	None	6.9	10.4	76.5	1.5	.6	.7	2.0	1.3	537
Usonga Ward	Primary	9.9	13.3	59.8	1.0	1.8	10.3	.7	3.2	1755
Usonga Ward	Secondary+	14.1	11.9	45.7	1.0	1.7	20.9	.7	3.8	573
West Alego Ward	Total	7.2	9.1	53.6	1.6	5.7	16.6	1.4	4.8	6910
West Alego Ward	None	6.9	7.8	67.8	3.0	6.0	.4	4.0	4.1	1309
West Alego Ward	Primary	6.1	10.0	53.9	1.3	5.8	17.2	1.0	4.7	4301
West Alego Ward	Secondary+	11.2	7.4	38.2	1.1	4.8	31.1	.4	5.8	1300
Central Alego Ward	Total	9.3	8.4	60.0	1.3	5.2	10.5	1.5	3.9	6259
Central Alego Ward	None	6.9	6.8	72.7	2.3	4.2	.2	3.6	3.4	1080
Central Alego Ward	Primary	8.2	9.3	61.4	1.1	5.5	10.0	1.0	3.6	3947
Central Alego Ward	Secondary+	15.0	7.1	44.6	1.0	4.9	21.3	1.1	5.1	1232
Siaya Township Ward	Total	20.8	15.8	29.0	2.0	7.3	17.3	.6	7.1	5391
Siaya Township Ward	None	14.0	12.2	56.9	4.4	6.1	1.1	1.3	3.9	541
Siaya Township Ward	Primary	14.9	18.1	34.9	1.6	8.6	13.8	.8	7.3	2428
Siaya Township Ward	Secondary+	28.3	14.3	17.0	1.7	6.4	24.4	.2	7.7	2422
North Alego Ward	Total	9.4	9.1	56.7	1.0	2.8	15.5	.9	4.7	6284
North Alego Ward	None	7.3	7.0	75.6	1.3	2.4	.3	2.5	3.5	915
North Alego Ward	Primary	8.3	9.7	59.4	.7	2.8	14.0	.7	4.5	3929
North Alego Ward	Secondary+	13.6	8.6	37.6	1.4	3.0	29.2	.5	6.0	1440
South East Alego Ward	Total	8.7	8.7	58.5	1.3	3.9	13.1	1.3	4.4	8330
South East Alego Ward	None	5.9	7.5	73.0	1.6	2.5	.7	3.8	5.0	1306
South East Alego Ward	Primary	7.8	8.6	60.7	1.3	3.9	12.6	.9	4.1	5216
South East Alego Ward	Secondary+	13.2	9.8	41.8	1.1	5.0	23.6	.6	4.9	1808
Gem Constituency	Total	8.9	8.2	57.5	1.3	2.5	16.0	1.0	4.6	28825
Gem Constituency	None	6.8	7.9	72.2	2.1	2.6	.4	3.6	4.3	3315
Gem Constituency	Primary	7.3	8.4	60.7	1.2	2.5	14.9	.8	4.2	18324
Gem Constituency	Secondary+	14.0	7.7	42.5	1.3	2.5	25.9	.4	5.7	7186
North Gem Ward	Total	8.2	8.1	64.0	1.0	1.3	12.2	1.1	4.1	6620
North Gem Ward	None	7.2	8.0	72.8	2.2	1.3	.6	3.5	4.5	830
North Gem Ward	Primary	7.0	8.6	66.5	.6	1.3	11.4	.8	3.8	4291
North Gem Ward	Secondary+	12.2	6.9	51.9	1.3	1.2	21.0	.6	4.9	1499
West Gem Ward	Total	8.4	8.8	53.1	1.9	3.8	15.3	1.2	7.4	4238
West Gem Ward	None	7.1	9.0	65.1	2.6	4.1	.2	4.1	7.9	467
West Gem Ward	Primary	6.6	8.8	56.8	1.8	3.9	13.8	1.1	7.1	2651
West Gem Ward	Secondary+	13.2	8.5	39.5	1.9	3.6	25.3	.3	7.9	1120
Central Gem Ward	Total	8.0	8.9	58.8	1.0	2.9	16.0	1.1	3.4	3999
Central Gem Ward	None	3.6	9.9	75.8	.5	2.9	0.0	3.6	3.6	413
Central Gem Ward	Primary	6.6	8.7	61.8	1.1	2.8	15.3	.9	2.8	2708
Central Gem Ward	Secondary+	14.1	8.9	41.7	.8	3.0	26.0	.6	5.0	878
Yala Township Ward	Total	13.5	8.1	46.2	1.2	5.1	18.0	1.0	6.9	4288
Yala Township Ward	None	10.4	6.4	66.3	2.8	4.5	.9	3.8	4.9	469
Yala Township Ward	Primary	10.9	8.6	50.6	1.0	5.7	15.6	.7	6.9	2423
Yala Township Ward	Secondary+	19.1	7.8	31.9	1.1	4.2	27.8	.4	7.7	1396
East Gem Ward	Total	8.6	5.8	63.1	2.1	1.0	16.2	1.1	2.2	4467
East Gem Ward	None	6.1	3.8	80.0	3.1	1.0	.2	3.3	2.5	479
East Gem Ward	Primary	7.5	5.7	65.6	2.0	.9	15.5	.9	1.9	2922
East Gem Ward	Secondary+	12.9	6.8	48.8	2.0	1.2	25.1	.5	2.8	1066
South Gem Ward	Total	7.5	9.3	56.4	1.0	1.8	19.3	.9	3.8	5213

South Gem Ward	None	6.2	10.0	73.1	1.7	2.6	.2	3.3	2.9	657
South Gem Ward	Primary	6.1	9.8	58.7	.9	1.6	18.9	.6	3.5	3329
South Gem Ward	Secondary+	12.0	7.7	41.1	1.0	2.0	30.6	.3	5.3	1227
Bondo Constituency	Total	18.0	20.2	21.9	1.0	10.5	19.5	1.2	7.6	26067
Bondo Constituency	None	15.9	19.2	33.8	1.6	15.1	.7	5.0	8.8	2432
Bondo Constituency	Primary	16.6	22.4	23.1	.9	10.9	17.8	1.0	7.4	16120
Bondo Constituency	Secondary+	21.8	15.9	15.4	1.2	8.1	29.4	.5	7.7	7515
West Yimbo Ward	Total	27.4	25.1	11.3	1.2	8.5	18.5	.9	7.2	4231
West Yimbo Ward	None	30.1	28.1	17.8	1.2	9.9	.3	4.7	7.9	342
West Yimbo Ward	Primary	28.0	26.6	11.6	1.3	8.6	16.6	.7	6.6	2779
West Yimbo Ward	Secondary+	24.9	20.5	8.7	.9	7.7	28.7	.2	8.4	1110
Central Sakwa Ward	Total	17.9	31.1	18.0	.8	11.8	13.0	1.1	6.3	3144
Central Sakwa Ward	None	22.3	28.9	22.0	2.4	12.7	1.0	3.1	7.6	291
Central Sakwa Ward	Primary	16.7	33.7	17.6	.4	12.7	11.7	1.1	6.0	2100
Central Sakwa Ward	Secondary+	19.5	24.8	17.7	1.1	8.8	21.2	.3	6.6	753
South Sakwa Ward	Total	13.7	23.1	24.4	.8	11.9	20.2	.9	5.0	3903
South Sakwa Ward	None	12.4	24.2	33.5	.8	15.8	1.1	5.6	6.5	355
South Sakwa Ward	Primary	13.0	25.8	24.7	.6	12.2	18.7	.6	4.4	2524
South Sakwa Ward	Secondary+	15.6	15.8	20.6	1.3	10.0	30.5	.2	6.1	1024
Yimbo East Ward	Total	15.0	15.3	26.1	1.0	13.0	19.8	1.8	8.1	4653
Yimbo East Ward	None	12.1	13.7	34.5	1.3	19.9	.4	8.2	9.9	527
Yimbo East Ward	Primary	13.5	17.4	28.2	.9	13.0	18.5	1.0	7.6	2888
Yimbo East Ward	Secondary+	19.8	11.0	17.6	1.1	10.2	31.1	.8	8.5	1238
West Sakwa Ward	Total	20.8	17.3	22.1	1.2	7.7	21.8	1.6	7.5	4356
West Sakwa Ward	None	14.2	18.6	42.6	1.2	11.2	1.5	3.8	6.8	338
West Sakwa Ward	Primary	17.6	19.1	24.4	1.1	8.2	19.4	1.9	8.4	2517
West Sakwa Ward	Secondary+	27.8	13.9	13.5	1.3	6.1	30.4	.7	6.2	1501
North Sakwa Ward	Total	14.4	15.1	26.6	1.2	10.3	21.4	1.0	10.0	5780
North Sakwa Ward	None	10.9	11.2	43.5	2.2	16.8	.5	3.5	11.4	579
North Sakwa Ward	Primary	11.4	16.0	29.8	.9	10.9	20.0	.8	10.2	3312
North Sakwa Ward	Secondary+	20.7	14.6	15.7	1.5	7.3	30.4	.5	9.2	1889
Rarieda Constituency	Total	11.9	17.5	26.3	1.2	14.3	19.7	1.4	7.6	23461
Rarieda Constituency	None	11.0	18.0	34.8	2.9	19.2	.8	5.5	7.8	2041
Rarieda Constituency	Primary	10.5	19.7	27.9	1.0	14.8	17.6	1.2	7.3	14534
Rarieda Constituency	Secondary+	15.0	12.9	20.4	1.2	11.8	29.7	.8	8.2	6886
East Asembo Ward	Total	11.4	12.7	32.9	1.0	17.5	17.1	1.2	6.2	5995
East Asembo Ward	None	11.2	10.3	45.6	2.7	19.9	.4	4.3	5.7	562
East Asembo Ward	Primary	9.8	13.2	34.3	.8	18.4	16.5	1.0	6.0	3672
East Asembo Ward	Secondary+	14.8	12.3	26.0	.8	14.9	23.8	.5	6.9	1761
West Asembo Ward	Total	10.7	13.6	30.9	1.4	19.0	16.2	1.8	6.4	5823
West Asembo Ward	None	8.7	16.4	34.3	2.8	24.7	.4	6.1	6.7	507
West Asembo Ward	Primary	9.1	15.0	32.8	1.1	19.3	15.1	1.7	5.9	3535
West Asembo Ward	Secondary+	14.3	10.2	26.0	1.5	16.8	22.9	.8	7.5	1781
North Uyoma Ward	Total	12.3	21.3	18.5	1.0	8.5	25.1	1.7	11.6	3520
North Uyoma Ward	None	12.5	24.0	23.7	2.5	12.5	1.8	7.5	15.4	279
North Uyoma Ward	Primary	10.9	25.2	20.7	.8	9.4	19.8	1.4	11.8	2143
North Uyoma Ward	Secondary+	15.0	12.9	12.9	.8	5.7	41.3	.9	10.4	1098
South Uyoma Ward	Total	10.8	24.9	20.2	1.6	12.6	20.9	1.0	8.1	3180

South Uyoma Ward	None	10.7	26.0	28.3	4.3	18.7	.3	3.3	8.3	300
South Uyoma Ward	Primary	9.3	27.5	21.8	1.0	13.2	18.2	.6	8.4	2071
South Uyoma Ward	Secondary+	14.6	17.9	13.0	2.1	9.0	35.4	1.0	7.0	809
West Uyoma Ward	Total	14.2	20.6	22.5	1.2	10.1	22.3	1.4	7.6	4943
West Uyoma Ward	None	13.0	20.6	32.8	2.8	16.3	1.5	6.6	6.4	393
West Uyoma Ward	Primary	13.4	23.5	24.0	1.1	10.4	19.8	1.0	6.8	3113
West Uyoma Ward	Secondary+	16.4	14.3	16.4	1.1	7.8	33.3	.8	9.7	1437

Table 38.6: 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
Siaya County	0.022	3,170	0.020	0.405
Ugenya Constituency	0.003	2,780	0.0023	0.378
West Ugenya	0.001	2,510	0.0006	0.324
Ukwala	0.001	2,990	0.0005	0.375
North Ugenya	0.001	3,400	0.0007	0.438
East Ugenya	0.001	2,360	0.0006	0.336
Ugunja Constituency	0.002	3,050	0.0022	0.402
Sidindi	0.001	2,630	0.0005	0.358
Sigomere	0.001	2,590	0.0006	0.351
Ugunja	0.001	3,660	0.0011	0.434
Alego Usonga Constituency	0.005	3,320	0.0048	0.434
Usonga	0.000	2,860	0.0003	0.354
West Alego	0.001	2,600	0.0006	0.333
Central Alego	0.001	2,530	0.0006	0.336
Siaya Township	0.001	6,660	0.0016	0.418
North Alego	0.001	2,760	0.0007	0.393
South East Alego	0.001	2,550	0.0009	0.353
Gem Constituency	0.004	2,620	0.0032	0.371
North Gem	0.001	2,440	0.0007	0.356
West Gem	0.001	2,700	0.0005	0.376
Central Gem	0.001	2,440	0.0005	0.348
Yala Township	0.001	3,210	0.0006	0.428
East Gem	0.001	2,390	0.0005	0.330
South Gem	0.001	2,670	0.0006	0.365
Bondo Constituency	0.004	4,010	0.0048	0.414
West Yimbo	0.001	5,240	0.0011	0.402
Central Sakwa	0.001	3,260	0.0005	0.351
South Sakwa	0.001	3,390	0.0006	0.355
Yimbo East	0.001	3,180	0.0007	0.359
West Sakwa	0.001	4,280	0.0008	0.435
North Sakwa	0.001	4,340	0.0011	0.440
Rarieda Constituency	0.004	3,040	0.0031	0.358
East Asembo	0.001	3,410	0.0009	0.395
West Asembo	0.001	2,820	0.0007	0.341

North Uyoma	0.001	2,760	0.0005	0.316
South Uyoma	0.001	2,980	0.0005	0.355
West Uyoma	0.001	3,100	0.0007	0.348

Table 38.7: 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
Siaya County	20.5	63.8	15.7	736,992
Ugenya Constituency	23.7	63.5	12.9	95,135
West Ugenya	23.9	64.4	11.7	26,803
Ukwala	23.1	62.4	14.5	18,934
North Ugenya	22.8	62.6	14.6	23,084
East Ugenya	24.7	64.1	11.2	26,314
Ugunja Constituency	21.8	63.3	15.0	81,644
Sidindi	21.2	63.5	15.4	21,257
Sigomere	22.2	64.1	13.8	25,915
Ugunja	21.8	62.5	15.7	34,472
Alego Usonga Constituency	21.9	62.7	15.4	163,833
Usonga	25.6	61.8	12.7	12,031
West Alego	23.5	64.7	11.8	28,049
Central Alego	23.1	64.8	12.1	27,433
Siaya Township	17.2	54.5	28.3	28,238
North Alego	21.8	64.4	13.9	28,123
South East Alego	22.1	64.8	13.1	39,959
Gem Constituency	20.3	64.9	14.8	141,089
North Gem	21.0	64.9	14.1	30,647
West Gem	20.4	64.8	14.8	20,710
Central Gem	20.6	66.6	12.8	20,947
Yala Township	19.5	60.3	20.2	20,313
East Gem	19.6	66.4	14.1	21,580
South Gem	20.5	65.7	13.8	26,892
Bondo Constituency	18.0	64.2	17.8	136,813
West Yimbo	17.7	65.8	16.5	24,737
Central Sakwa	18.5	67.5	14.0	17,216
South Sakwa	18.7	65.9	15.5	20,316
Yimbo East	19.7	64.2	16.1	23,939
West Sakwa	16.5	61.4	22.2	21,514
North Sakwa	17.3	61.8	20.9	29,091
Rarieda Constituency	18.2	64.3	17.6	118,478
East Asembo	18.5	63.3	18.2	29,286
West Asembo	17.7	64.3	18.0	28,896
North Uyoma	18.0	63.6	18.4	18,685
South Uyoma	19.3	65.9	14.8	17,075
West Uyoma	17.6	64.8	17.6	24,536

Table 38.8: 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
Siaya County	17.5	63.8	18.8	345,797		23.1	63.9	13.0	391,195
Ugenya Constituency	19.3	65.0	15.8	43,232		27.4	62.2	10.4	51,903
West Ugenya	18.5	66.2	15.3	12,250		28.4	62.9	8.8	14,553
Ukwala	18.5	63.6	17.9	8,591		26.9	61.5	11.6	10,343
North Ugenya	19.1	63.9	17.0	10,439		25.9	61.5	12.7	12,645
East Ugenya	20.8	65.6	13.6	11,952		28.0	62.8	9.3	14,362
Ugunja Constituency	18.5	63.7	17.8	37,401		24.5	62.8	12.7	44,243
Sidindi	18.7	63.0	18.3	9,950		23.3	63.9	12.8	11,307
Sigomere	18.9	64.8	16.3	11,823		25.0	63.4	11.6	14,092
Ugunja	18.1	63.4	18.5	15,628		24.8	61.8	13.3	18,844
Alego Usonga Constituency	18.0	63.8	18.2	75,997		25.2	61.8	13.0	87,836
Usonga	19.8	64.4	15.8	5,489		30.4	59.6	10.0	6,542
West Alego	18.5	66.3	15.2	12,707		27.7	63.4	8.9	15,342
Central Alego	18.4	66.8	14.8	12,659		27.1	63.1	9.9	14,774
Siaya Township	15.9	53.0	31.1	13,294		18.4	55.9	25.8	14,944
North Alego	18.7	65.7	15.7	13,151		24.5	63.3	12.3	14,972
South East Alego	17.9	66.3	15.9	18,697		25.7	63.5	10.8	21,262
Gem Constituency	17.7	64.7	17.6	66,671		22.7	65.0	12.4	74,418
North Gem	18.0	65.0	17.0	14,415		23.7	64.8	11.5	16,232
West Gem	17.9	64.7	17.4	9,817		22.7	64.8	12.5	10,893
Central Gem	18.4	66.5	15.1	9,989		22.6	66.7	10.7	10,958
Yala Township	17.3	59.0	23.7	9,633		21.5	61.4	17.0	10,680
East Gem	16.8	66.5	16.8	10,127		22.0	66.2	11.7	11,453
South Gem	17.8	65.8	16.5	12,690		22.9	65.7	11.5	14,202
Bondo Constituency	16.0	63.0	21.1	66,072		19.9	65.4	14.7	70,741
West Yimbo	15.5	64.4	20.1	12,301		19.8	67.3	13.0	12,436

Central Sakwa	16.4	66.4	17.2	8,461		20.5	68.6	10.9	8,755
South Sakwa	16.9	64.1	19.0	9,624		20.3	67.4	12.3	10,692
Yimbo East	17.3	62.9	19.9	11,589		21.9	65.5	12.5	12,350
West Sakwa	14.8	60.3	24.9	10,334		18.0	62.4	19.6	11,180
North Sakwa	15.2	60.9	23.9	13,763		19.2	62.6	18.1	15,328
Rarieda Constituency	16.3	62.5	21.2	56,424		19.9	65.9	14.2	62,054
East Asembo	15.9	62.2	21.9	13,720		20.8	64.3	14.9	15,566
West Asembo	15.7	62.4	22.0	13,733		19.6	66.0	14.4	15,163
North Uyoma	16.7	61.3	22.1	9,097		19.3	65.9	14.9	9,588
South Uyoma	17.8	64.3	17.8	8,089		20.6	67.3	12.1	8,986
West Uyoma	16.1	62.8	21.1	11,785		19.1	66.6	14.3	12,751

Table 38.9: 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
Siaya County	0.2	1.8	0.4	0.3	82.6	14.5	0.1	0.1	195,408
Ugenya Constituency	0.1	0.8	0.2	0.3	89.4	9.0	0.1	0.1	25,590
West Ugenya	0.0	0.5	0.1	0.3	93.6	5.4	0.1	0.1	7,214
Ukwala	0.1	1.5	0.4	0.3	87.7	9.8	0.0	0.2	5,148
North Ugenya	0.2	1.0	0.4	0.3	81.5	16.5	0.1	0.1	6,255
East Ugenya	0.1	0.5	0.2	0.2	93.5	5.5	0.0	0.1	6,973
Ugunja Constituency	0.2	1.1	0.3	0.2	85.0	13.0	0.0	0.1	21,957
Sidindi	0.1	0.8	0.3	0.1	90.7	7.8	0.0	0.0	5,550
Sigomere	0.1	0.6	0.2	0.2	90.5	8.3	0.0	0.1	6,829
Ugunja	0.4	1.7	0.3	0.2	77.8	19.3	0.0	0.3	9,578
Alego Usonga Constituency	0.2	2.3	0.5	0.4	80.9	15.6	0.1	0.1	44,457
Usonga	0.0	1.4	0.1	0.3	88.7	9.3	0.0	0.0	3,429
West Alego	0.1	0.7	0.2	0.6	92.8	5.5	0.1	0.0	7,644
Central Alego	0.2	1.0	0.2	0.2	91.3	7.0	0.0	0.1	7,616
Siaya Township	0.6	6.7	1.5	0.5	41.2	49.2	0.1	0.2	7,796
North Alego	0.1	2.8	0.5	0.3	84.7	11.6	0.0	0.1	7,397
South East Alego	0.1	1.0	0.2	0.4	89.1	9.1	0.1	0.1	10,575
Gem Constituency	0.2	1.1	0.3	0.4	88.1	9.9	0.0	0.1	36,396
North Gem	0.2	0.8	0.3	0.5	90.5	7.7	0.0	0.1	7,856
West Gem	0.1	1.1	0.2	0.4	86.1	12.0	0.0	0.1	5,432
Central Gem	0.1	0.7	0.1	0.3	90.8	7.8	-	0.1	5,342
Yala Township	0.5	2.4	0.8	0.2	79.2	16.7	0.1	0.0	5,282
East Gem	0.3	0.8	0.2	0.3	92.5	5.8	0.0	0.0	5,608

South Gem	0.1	0.9	0.3	0.3	88.1	10.3	0.0	0.1	6,876
Bondo Constituency	0.2	2.8	0.8	0.3	69.9	25.7	0.0	0.2	36,356
West Yimbo	0.1	3.4	0.7	0.3	46.8	48.0	-	0.6	6,668
Central Sakwa	0.1	3.0	0.1	0.2	69.3	26.9	0.0	0.4	4,540
South Sakwa	0.0	2.1	0.2	0.1	79.5	17.8	0.1	0.1	5,690
Yimbo East	-	1.4	0.3	0.4	87.2	10.6	0.0	0.1	6,066
West Sakwa	0.5	3.1	1.8	0.4	69.9	24.2	0.1	0.1	5,475
North Sakwa	0.4	3.5	1.3	0.3	69.7	24.7	0.1	0.2	7,917
Rarieda Constituency	0.1	2.1	0.3	0.3	86.0	11.0	0.1	0.1	30,652
East Asembo	0.3	2.3	0.3	0.3	82.2	14.3	0.1	0.1	7,821
West Asembo	0.1	1.5	0.5	0.2	90.2	7.4	0.0	0.1	7,405
North Uyoma	0.2	2.1	0.2	0.3	91.0	5.9	0.2	0.1	4,653
South Uyoma	-	2.1	0.2	0.3	84.5	12.7	0.1	0.1	4,542
West Uyoma	0.0	2.5	0.4	0.2	83.1	13.7	0.0	0.1	6,231

Table 38.10: 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
Siaya County	0.2	2.4	0.5	0.3	78.5	17.8	0.1	0.2	106,856
Ugenya Constituency	0.1	1.2	0.3	0.3	86.6	11.2	0.0	0.1	12,407
West Ugenya	0.0	0.8	0.1	0.3	92.2	6.4	0.0	0.1	3,506
Ukwala	0.2	2.5	0.4	0.4	83.5	12.6	0.0	0.2	2,447
North Ugenya	0.3	1.5	0.4	0.3	76.7	20.7	0.1	0.1	3,001
East Ugenya	0.1	0.6	0.2	0.3	91.8	6.8	0.0	0.1	3,453
Ugunja Constituency	0.3	1.5	0.4	0.1	81.8	15.7	0.1	0.2	11,367
Sidindi	0.1	1.1	0.4	0.1	89.6	8.5	0.0	0.0	2,943
Sigomere	0.2	0.8	0.2	0.1	88.5	10.0	0.0	0.1	3,547
Ugunja	0.5	2.3	0.5	0.2	72.1	24.1	0.1	0.3	4,877
Alego Usonga Constituency	0.2	3.0	0.6	0.4	76.5	19.1	0.1	0.1	23,580
Usonga	0.0	2.3	0.1	0.4	85.4	11.8	0.1	0.1	1,692
West Alego	0.1	0.9	0.3	0.6	90.9	7.1	0.1	0.1	3,599
Central Alego	0.3	1.2	0.4	0.2	88.9	8.9	0.1	0.1	3,863
Siaya Township	0.6	7.9	1.8	0.5	36.7	52.2	0.0	0.2	4,905
North Alego	0.1	3.4	0.6	0.3	81.8	13.7	0.1	0.1	3,846
South East Alego	0.1	1.2	0.2	0.4	87.1	10.7	0.1	0.1	5,675
Gem Constituency	0.3	1.3	0.3	0.4	86.6	11.0	0.0	0.1	20,258
North Gem	0.2	1.0	0.3	0.6	89.1	8.6	0.0	0.1	4,253
West Gem	0.1	1.4	0.2	0.4	84.9	12.7	0.0	0.2	3,015
Central Gem	0.2	0.8	0.1	0.3	89.9	8.6	0.0	0.2	3,038
Yala Township	0.7	3.1	0.8	0.2	76.8	18.2	0.1	0.1	3,014
East Gem	0.3	0.9	0.3	0.4	91.7	6.4	0.0	0.1	3,094
South Gem	0.1	1.0	0.3	0.3	86.1	12.0	0.0	0.1	3,844
Bondo Constituency	0.2	3.5	0.9	0.3	63.9	30.9	0.0	0.3	22,004
West Yimbo	0.2	4.1	0.9	0.4	40.8	53.0	0.0	0.7	4,575
Central Sakwa	0.0	3.5	0.1	0.2	62.4	33.1	0.0	0.5	2,815

South Sakwa	0.0	2.5	0.2	0.2	74.0	22.9	0.1	0.2	3,227
Yimbo East	0.0	1.9	0.2	0.3	85.0	12.6	0.0	0.1	3,535
West Sakwa	0.5	4.1	2.2	0.3	64.6	28.0	0.1	0.2	3,274
North Sakwa	0.4	4.4	1.5	0.3	63.9	29.1	0.1	0.3	4,578
Rarieda Constituency	0.2	2.9	0.4	0.3	82.4	13.5	0.1	0.1	17,240
East Asembo	0.5	3.6	0.4	0.4	77.1	17.6	0.2	0.2	4,238
West Asembo	0.1	2.1	0.7	0.2	87.8	9.0	0.1	0.1	4,000
North Uyoma	0.1	2.8	0.2	0.3	89.7	6.6	0.1	0.1	2,712
South Uyoma	0.0	2.7	0.3	0.4	81.1	15.5	0.1	0.0	2,711
West Uyoma	0.1	3.3	0.3	0.2	78.3	17.5	0.1	0.2	3,579

Table 38.11: Cooking Fuel for Female Headed Households by County, Constituency and Wards

County/Constituency/Wards	Electricity	Paraffin	LPG	Biogas	Firewood	Charcoal	Solar	Other	House-holds
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
Siaya County	0.1	1.0	0.3	0.3	87.5	10.6	0.1	0.1	88,552
Ugenya Constituency	0.0	0.4	0.2	0.2	92.0	7.0	0.1	0.1	13,183
West Ugenya	-	0.2	0.1	0.2	94.9	4.5	0.1	0.0	3,708
Ukwala	0.1	0.7	0.3	0.1	91.4	7.3	-	0.1	2,701
North Ugenya	0.1	0.5	0.3	0.4	85.9	12.6	0.2	0.1	3,254
East Ugenya	0.1	0.3	0.2	0.1	95.1	4.2	0.0	0.0	3,520
Ugunja Constituency	0.2	0.7	0.2	0.2	88.5	10.1	0.0	0.1	10,590
Sidindi	0.1	0.5	0.2	0.2	91.9	7.1	0.0	0.0	2,607
Sigomere	0.1	0.4	0.1	0.2	92.7	6.5	-	-	3,282
Ugunja	0.3	1.0	0.2	0.2	83.6	14.4	-	0.2	4,701
Alego Usonga Constituency	0.2	1.4	0.3	0.4	85.9	11.7	0.1	0.0	20,877
Usonga	0.1	0.5	0.2	0.3	92.0	7.0	-	-	1,737
West Alego	0.0	0.5	0.1	0.6	94.5	4.1	0.1	0.0	4,045
Central Alego	0.1	0.7	0.1	0.3	93.7	5.0	0.0	0.1	3,753
Siaya Township	0.7	4.7	0.9	0.4	48.9	44.2	0.1	0.1	2,891
North Alego	0.1	2.1	0.4	0.2	87.8	9.3	0.0	0.1	3,551
South East Alego	0.1	0.7	0.1	0.3	91.3	7.3	0.1	0.0	4,900
Gem Constituency	0.1	0.7	0.3	0.3	90.0	8.5	0.0	0.0	16,138
North Gem	0.1	0.4	0.3	0.4	92.1	6.6	-	-	3,603
West Gem	0.0	0.7	0.1	0.5	87.5	11.1	-	0.0	2,417
Central Gem	0.0	0.7	0.1	0.3	92.1	6.8	-	-	2,304
Yala Township	0.2	1.5	0.8	0.3	82.4	14.7	0.0	-	2,268
East Gem	0.2	0.7	0.2	0.2	93.4	5.2	0.0	-	2,514
South Gem	0.1	0.6	0.3	0.3	90.6	8.0	-	0.0	3,032
Bondo Constituency	0.2	1.7	0.6	0.3	79.2	17.9	0.0	0.1	14,352
West Yimbo	0.1	2.0	0.5	0.1	59.9	37.3	-	0.2	2,093
Central Sakwa	0.2	2.2	0.1	0.1	80.4	16.8	0.1	0.1	1,725
South Sakwa	0.1	1.6	0.2	0.1	86.7	11.1	0.0	0.1	2,463
Yimbo East	-	0.7	0.4	0.5	90.4	7.9	0.1	0.1	2,531
West Sakwa	0.5	1.5	1.1	0.5	77.7	18.6	0.1	-	2,201

North Sakwa	0.4	2.2	1.0	0.3	77.6	18.5	0.0	0.0	3,339
Rarieda Constituency	0.1	1.0	0.3	0.3	90.5	7.7	0.1	0.1	13,412
East Asembo	0.1	0.8	0.2	0.3	88.3	10.3	0.1	0.1	3,583
West Asembo	0.1	0.9	0.3	0.2	93.0	5.5	-	0.1	3,405
North Uyoma	0.2	1.2	0.3	0.4	92.6	4.9	0.4	0.1	1,941
South Uyoma	-	1.2	0.1	0.2	89.6	8.6	0.1	0.3	1,831
West Uyoma	-	1.3	0.4	0.3	89.4	8.6	-	-	2,652

Table 38.12: 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
Siaya County	4.3	0.4	20.6	73.0	0.4	0.2	0.9	0.1	106,856
Ugenya Constituency	3.2	0.3	15.3	79.7	0.5	0.1	0.8	0.1	12,407
West Ugenya	1.2	0.2	10.3	86.9	0.6	0.1	0.7	0.0	3,506
Ukwala	3.5	0.2	20.5	74.5	0.3	0.3	0.6	0.1	2,447
North Ugenya	6.9	0.4	17.2	74.0	0.3	0.2	0.9	0.1	3,001
East Ugenya	1.7	0.4	15.0	81.1	0.7	0.1	1.0	0.1	3,453
Ugunja Constituency	4.4	0.4	18.2	75.4	0.5	0.2	0.8	0.1	11,367
Sidindi	4.6	0.3	18.7	75.0	0.3	0.2	0.8	0.0	2,943
Sigomere	3.2	0.2	16.4	78.4	0.4	0.2	1.1	0.1	3,547
Ugunja	5.2	0.6	19.1	73.5	0.7	0.2	0.6	0.1	4,877
Alego Usonga Constituency	5.3	0.4	18.0	74.7	0.4	0.3	0.8	0.1	23,580
Usonga	2.1	0.0	13.4	83.8	0.3	0.1	0.2	0.0	1,692
West Alego	1.1	0.3	15.3	81.7	0.5	0.4	0.7	0.0	3,599
Central Alego	1.4	0.7	14.7	81.2	0.4	0.5	1.0	0.0	3,863
Siaya Township	19.9	0.5	26.2	51.5	0.3	0.3	0.9	0.3	4,905
North Alego	4.1	0.4	16.8	77.2	0.5	0.1	0.9	0.1	3,846
South East Alego	2.2	0.5	18.8	77.2	0.4	0.2	0.7	0.0	5,675
Gem Constituency	4.6	0.4	18.6	74.8	0.5	0.2	0.8	0.1	20,258
North Gem	3.7	0.3	18.6	75.9	0.3	0.2	0.7	0.1	4,253
West Gem	3.1	0.3	18.4	76.6	0.3	0.4	0.8	0.1	3,015
Central Gem	3.2	0.6	17.3	77.4	0.4	0.3	0.7	0.1	3,038
Yala Township	10.3	0.5	19.4	68.0	0.6	0.1	1.0	0.2	3,014
East Gem	5.7	0.2	17.9	74.7	0.7	0.1	0.6	0.0	3,094
South Gem	2.3	0.7	19.8	75.4	0.4	0.3	1.0	0.1	3,844
Bondo Constituency	5.0	0.6	27.5	65.0	0.4	0.2	1.1	0.3	22,004
West Yimbo	5.8	0.8	27.5	64.1	0.3	0.1	0.8	0.7	4,575
Central Sakwa	1.3	0.3	27.1	69.7	0.2	0.4	0.7	0.3	2,815
South Sakwa	0.4	0.3	27.9	69.6	0.3	0.2	1.2	0.1	3,227
Yimbo East	2.5	0.4	24.8	70.0	0.8	0.2	1.2	0.1	3,535
West Sakwa	11.9	0.3	28.6	57.2	0.3	0.0	1.3	0.2	3,274
North Sakwa	6.7	1.0	28.7	61.5	0.4	0.1	1.3	0.2	4,578
Rarieda Constituency	2.5	0.4	24.6	70.5	0.4	0.3	1.1	0.2	17,240
East Asembo	4.9	0.6	22.6	70.2	0.6	0.1	1.0	0.1	4,238

West Asembo	2.4	0.5	23.4	71.4	0.4	0.1	1.6	0.2	4,000
North Uyoma	2.1	0.3	24.9	70.9	0.3	0.3	1.1	0.1	2,712
South Uyoma	1.1	0.3	29.2	68.1	0.2	0.3	0.6	0.3	2,711
West Uyoma	1.2	0.4	25.1	71.3	0.3	0.6	0.9	0.2	3,579

Table 38.13: Lighting Fuel for Male Headed Households by County, Constituency and Wards

County/Constituency/Wards	Electricity	Pressure Lamp	Lantern	Tin Lamp	Gas Lamp	Fuelwood	Solar	Other	Households
Kenya	24.6	0.6	30.4	36.8	0.9	4.2	1.7	0.7	5,762,320
Rural	5.6	0.5	35.3	47.5	1.1	6.8	2.4	0.7	3,413,616
Urban	52.4	0.9	23.3	21.2	0.6	0.4	0.7	0.7	2,348,704
Siaya County	5.1	0.5	22.5	70.0	0.4	0.2	1.0	0.2	106,856
Ugenya Constituency	4.0	0.3	16.8	77.2	0.5	0.2	0.9	0.1	12,407
West Ugenya	1.7	0.3	11.5	85.2	0.5	0.1	0.8	0.1	3,506
Ukwala	4.6	0.3	22.6	71.0	0.4	0.3	0.6	0.2	2,447
North Ugenya	8.6	0.5	19.4	69.7	0.4	0.2	1.2	0.1	3,001
East Ugenya	2.1	0.3	15.8	79.9	0.8	0.1	1.0	0.1	3,453
Ugunja Constituency	5.6	0.5	19.7	72.4	0.5	0.1	1.0	0.1	11,367
Sidindi	5.1	0.4	18.4	74.4	0.3	0.2	1.3	0.0	2,943
Sigomere	4.5	0.2	18.4	75.0	0.4	0.1	1.1	0.3	3,547
Ugunja	6.6	0.7	21.5	69.4	0.7	0.1	0.9	0.1	4,877
Alego Usonga Constituency	6.4	0.5	20.0	71.3	0.4	0.3	0.9	0.1	23,580
Usonga	2.6	0.1	15.1	81.6	0.4	0.1	0.2	0.0	1,692
West Alego	1.4	0.4	17.8	78.9	0.4	0.3	0.9	0.0	3,599
Central Alego	1.9	0.9	15.8	78.9	0.4	0.6	1.4	0.1	3,863
Siaya Township	20.6	0.4	27.4	49.6	0.3	0.4	0.9	0.4	4,905
North Alego	4.9	0.5	19.0	73.9	0.6	0.1	1.0	0.1	3,846
South East Alego	2.6	0.6	20.2	75.3	0.5	0.2	0.8	0.0	5,675
Gem Constituency	5.1	0.5	19.9	72.7	0.5	0.2	0.9	0.1	20,258
North Gem	4.1	0.3	19.9	74.1	0.4	0.2	0.8	0.2	4,253
West Gem	3.3	0.4	19.6	74.8	0.5	0.4	0.8	0.2	3,015
Central Gem	3.3	0.8	18.2	75.9	0.5	0.3	0.9	0.1	3,038
Yala Township	11.6	0.4	21.5	64.6	0.6	0.0	1.0	0.2	3,014
East Gem	6.2	0.2	19.3	72.8	0.6	0.2	0.7	0.0	3,094
South Gem	2.9	0.7	21.0	73.2	0.5	0.3	1.3	0.2	3,844
Bondo Constituency	5.6	0.6	29.1	62.6	0.4	0.2	1.2	0.4	22,004
West Yimbo	6.1	0.9	27.7	63.2	0.3	0.1	0.9	0.9	4,575
Central Sakwa	1.2	0.5	29.5	67.0	0.3	0.4	0.7	0.5	2,815
South Sakwa	0.2	0.3	31.1	66.6	0.2	0.2	1.1	0.2	3,227
Yimbo East	2.7	0.4	25.9	68.5	0.8	0.2	1.3	0.2	3,535
West Sakwa	13.8	0.2	30.2	53.5	0.4	0.0	1.5	0.3	3,274
North Sakwa	7.8	1.1	30.6	58.3	0.3	0.1	1.5	0.3	4,578
Rarieda Constituency	3.1	0.5	26.3	67.8	0.4	0.3	1.3	0.2	17,240
East Asembo	6.5	0.7	23.9	66.8	0.5	0.1	1.3	0.2	4,238
West Asembo	2.7	0.5	25.5	68.3	0.5	0.3	2.0	0.2	4,000
North Uyoma	2.4	0.3	26.7	68.6	0.3	0.3	1.4	0.1	2,712
South Uyoma	1.2	0.3	30.7	66.2	0.1	0.3	0.8	0.4	2,711
West Uyoma	1.5	0.5	26.6	69.2	0.2	0.8	0.8	0.3	3,579

Table 38.14: 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
Siaya County	3.3	0.3	18.3	76.6	0.4	0.2	0.7	0.1	88,552
Ugenya Constituency	2.4	0.2	14.0	82.0	0.5	0.1	0.7	0.0	13,183
West Ugenya	0.9	0.1	9.2	88.5	0.6	0.1	0.7	0.0	3,708
Ukwala	2.5	0.1	18.6	77.7	0.3	0.2	0.5	0.0	2,701
North Ugenya	5.3	0.3	15.2	78.0	0.3	0.1	0.6	-	3,254
East Ugenya	1.3	0.4	14.2	82.2	0.7	0.1	1.0	0.1	3,520
Ugunja Constituency	3.3	0.3	16.5	78.6	0.5	0.2	0.6	0.1	10,590
Sidindi	4.0	0.2	19.1	75.6	0.4	0.2	0.4	0.1	2,607
Sigomere	1.9	0.2	14.2	82.1	0.3	0.3	1.1	0.0	3,282
Ugunja	3.8	0.4	16.6	77.8	0.8	0.2	0.3	0.1	4,701
Alego Usonga Constituency	4.0	0.3	15.8	78.5	0.4	0.3	0.6	0.1	20,877
Usonga	1.6	-	11.8	86.0	0.3	0.1	0.2	-	1,737
West Alego	0.9	0.2	13.1	84.3	0.5	0.5	0.5	-	4,045
Central Alego	0.9	0.6	13.6	83.5	0.5	0.4	0.7	0.0	3,753
Siaya Township	18.9	0.6	24.3	54.8	0.2	0.1	0.8	0.2	2,891
North Alego	3.2	0.2	14.4	80.8	0.5	0.2	0.7	0.0	3,551
South East Alego	1.8	0.3	17.1	79.5	0.3	0.3	0.6	0.0	4,900
Gem Constituency	3.9	0.4	17.0	77.4	0.4	0.2	0.7	0.0	16,138
North Gem	3.3	0.2	17.1	78.1	0.2	0.3	0.6	0.1	3,603
West Gem	2.9	0.1	17.0	78.7	0.1	0.4	0.8	-	2,417
Central Gem	3.0	0.5	16.1	79.3	0.3	0.2	0.5	0.0	2,304
Yala Township	8.6	0.5	16.7	72.4	0.7	0.1	0.9	0.1	2,268
East Gem	5.1	0.2	16.1	77.1	0.8	0.1	0.5	0.0	2,514
South Gem	1.7	0.7	18.3	78.1	0.3	0.2	0.7	0.1	3,032
Bondo Constituency	4.0	0.5	25.0	68.9	0.4	0.2	1.0	0.1	14,352
West Yimbo	5.0	0.7	27.0	66.1	0.3	-	0.6	0.2	2,093
Central Sakwa	1.4	-	23.1	74.3	0.2	0.3	0.8	-	1,725
South Sakwa	0.6	0.3	23.7	73.6	0.3	0.2	1.2	0.0	2,463
Yimbo East	2.2	0.4	23.2	72.1	0.8	0.2	1.1	0.0	2,531
West Sakwa	9.0	0.4	26.3	62.7	0.3	0.0	1.0	0.1	2,201
North Sakwa	5.2	0.9	26.1	65.9	0.5	0.2	1.0	0.1	3,339
Rarieda Constituency	1.8	0.4	22.5	73.9	0.4	0.2	0.8	0.1	13,412
East Asembo	3.0	0.4	21.2	74.1	0.6	0.1	0.6	0.0	3,583
West Asembo	2.0	0.4	20.9	75.0	0.4	0.0	1.1	0.1	3,405
North Uyoma	1.7	0.3	22.5	74.1	0.3	0.3	0.7	0.1	1,941
South Uyoma	0.8	0.2	27.0	70.8	0.3	0.4	0.2	0.2	1,831
West Uyoma	0.8	0.3	23.1	74.1	0.5	0.4	0.9	-	2,652

Table 38.15: 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
Siaya County	28.8	0.4	0.4	70.0	0.4	195,408
Ugenya Constituency	22.7	0.3	0.5	76.2	0.4	25,590
West Ugenya	18.9	0.2	0.3	80.6	0.1	7,214
Ukwala	25.5	0.3	0.2	73.6	0.4	5,148
North Ugenya	29.8	0.3	1.1	68.7	0.1	6,255
East Ugenya	18.0	0.3	0.5	80.3	0.8	6,973
Ugunja Constituency	24.4	0.4	0.3	74.8	0.2	21,957
Sidindi	19.9	0.4	0.2	79.4	0.1	5,550
Sigomere	18.3	0.2	0.3	81.1	0.1	6,829
Ugunja	31.2	0.5	0.4	67.6	0.3	9,578
Alego Usonga Constituency	29.9	0.4	0.4	69.2	0.1	44,457
Usonga	23.4	0.1	0.1	76.3	0.1	3,429
West Alego	22.5	0.3	0.8	76.3	0.1	7,644
Central Alego	18.7	0.3	0.5	80.4	0.1	7,616
Siaya Township	67.6	0.8	0.2	31.2	0.1	7,796
North Alego	22.0	0.5	0.2	77.3	0.1	7,397
South East Alego	23.2	0.3	0.4	75.8	0.2	10,575
Gem Constituency	20.2	0.3	0.4	78.2	0.8	36,396
North Gem	17.5	0.2	0.4	80.7	1.2	7,856
West Gem	21.4	0.3	0.3	77.9	0.1	5,432
Central Gem	18.0	0.2	0.4	81.4	0.1	5,342
Yala Township	33.1	0.7	0.9	65.2	0.1	5,282
East Gem	15.8	0.5	0.4	83.2	0.1	5,608
South Gem	17.9	0.2	0.2	79.0	2.7	6,876
Bondo Constituency	41.8	0.6	0.3	56.7	0.5	36,356
West Yimbo	53.8	0.7	0.2	43.6	1.7	6,668
Central Sakwa	32.3	0.2	0.2	67.0	0.3	4,540
South Sakwa	33.9	0.2	0.3	65.2	0.4	5,690
Yimbo East	35.3	0.4	0.4	63.8	0.1	6,066
West Sakwa	46.8	1.5	0.3	51.2	0.1	5,475
North Sakwa	44.5	0.5	0.3	54.3	0.4	7,917
Rarieda Constituency	30.5	0.3	0.3	68.8	0.1	30,652
East Asembo	38.4	0.5	0.2	60.9	0.1	7,821
West Asembo	32.8	0.2	0.2	66.6	0.1	7,405
North Uyoma	22.0	0.4	0.5	77.1	0.1	4,653
South Uyoma	23.5	0.2	0.3	76.0	0.0	4,542
West Uyoma	29.2	0.3	0.3	69.9	0.2	6,231

Table 38.16: Main Material of the Floor in Male and Female Headed Households by County, Constituency and Ward

County/Constituency/ wards	Cement	Tiles	Wood	Earth	Other	Households		Cement	Tiles	Wood	Earth	Other	Households
Kenya	42.8	1.6	0.8	54.2	0.6	5,762,320		37.7	1.4	0.7	59.8	0.5	2,731,060
Rural	22.1	0.3	0.7	76.4	0.4	3,413,616		22.2	0.3	0.6	76.6	0.3	1,826,263
Urban	72.9	3.5	0.9	21.9	0.8	2,348,704		69.0	3.6	0.9	25.8	0.8	904,797
Siaya County	30.2	0.4	0.4	68.6	0.4	106,856		27.2	0.3	0.4	71.8	0.3	88,552
Ugenya Constituency	22.8	0.3	0.5	76.0	0.4	12,407		22.6	0.2	0.5	76.4	0.3	13,183
West Ugenya	18.5	0.1	0.2	81.2	0.1	3,506		19.4	0.2	0.4	79.9	0.1	3,708
Ukwala	26.3	0.3	0.2	72.7	0.4	2,447		24.7	0.3	0.3	74.3	0.4	2,701
North Ugenya	31.6	0.4	1.1	66.8	0.1	3,001		28.2	0.2	1.1	70.4	0.1	3,254
East Ugenya	16.9	0.5	0.6	81.0	1.0	3,453		19.1	0.1	0.5	79.7	0.7	3,520
Ugunja Constituency	25.8	0.4	0.3	73.2	0.2	11,367		22.8	0.3	0.3	76.5	0.2	10,590
Sidindi	20.0	0.4	0.2	79.1	0.1	2,943		19.8	0.3	0.2	79.7	0.1	2,607
Sigomere	19.3	0.3	0.3	80.0	0.1	3,547		17.2	0.2	0.2	82.3	0.1	3,282
Ugunja	34.1	0.6	0.4	64.6	0.3	4,877		28.3	0.4	0.4	70.6	0.3	4,701
Alego Usonga Constituency	32.4	0.5	0.4	66.6	0.1	23,580		27.1	0.4	0.4	72.1	0.1	20,877
Usonga	24.3	-	0.1	75.5	0.1	1,692		22.5	0.2	0.2	77.0	0.1	1,737
West Alego	22.5	0.3	0.9	76.1	0.2	3,599		22.4	0.2	0.7	76.6	0.1	4,045
Central Alego	18.1	0.4	0.6	80.6	0.2	3,863		19.2	0.1	0.4	80.3	0.0	3,753
Siaya Township	70.2	1.0	0.2	28.5	0.1	4,905		63.2	0.7	0.2	35.8	0.1	2,891
North Alego	23.4	0.5	0.3	75.8	-	3,846		20.4	0.5	0.1	78.9	0.1	3,551
South East Alego	24.1	0.3	0.4	75.0	0.2	5,675		22.2	0.4	0.4	76.9	0.1	4,900
Gem Constituency	20.0	0.4	0.4	78.3	0.9	20,258		20.5	0.2	0.4	78.1	0.7	16,138
North Gem	16.8	0.3	0.5	81.1	1.3	4,253		18.3	0.1	0.3	80.1	1.1	3,603
West Gem	21.5	0.4	0.2	77.9	0.1	3,015		21.3	0.2	0.3	78.0	0.1	2,417
Central Gem	16.6	0.3	0.3	82.6	0.1	3,038		19.7	0.0	0.5	79.7	0.1	2,304
Yala Township	33.7	0.8	0.9	64.4	0.1	3,014		32.2	0.5	1.0	66.3	0.0	2,268
East Gem	15.2	0.5	0.2	83.9	0.2	3,094		16.5	0.5	0.5	82.4	0.1	2,514
South Gem	18.0	0.2	0.2	78.5	3.0	3,844		17.8	0.1	0.2	79.7	2.2	3,032
Bondo Constituency	43.1	0.6	0.3	55.4	0.6	22,004		39.9	0.6	0.3	58.9	0.4	14,352
West Yimbo	53.9	0.6	0.2	43.6	1.7	4,575		53.7	0.8	0.3	43.7	1.5	2,093

Central Sakwa	33.8	0.2	0.2	65.4	0.4	2,815		29.8	0.1	0.2	69.7	0.2	1,725
South Sakwa	34.9	0.2	0.3	64.0	0.6	3,227		32.6	0.3	0.2	66.8	0.2	2,463
Yimbo East	34.4	0.4	0.5	64.6	0.1	3,535		36.6	0.4	0.3	62.6	0.1	2,531
West Sakwa	48.2	1.6	0.4	49.6	0.2	3,274		44.9	1.2	0.3	53.5	0.0	2,201
North Sakwa	47.0	0.5	0.3	51.8	0.5	4,578		41.1	0.6	0.2	57.7	0.4	3,339
Rarieda Constituency	30.9	0.3	0.3	68.4	0.1	17,240		29.9	0.4	0.3	69.3	0.1	13,412
East Asembo	40.2	0.4	0.1	59.2	0.1	4,238		36.2	0.5	0.3	62.9	0.1	3,583
West Asembo	32.6	0.3	0.3	66.8	0.1	4,000		33.2	0.1	0.2	66.4	0.1	3,405
North Uyoma	21.5	0.3	0.4	77.8	0.1	2,712		22.7	0.6	0.6	76.1	0.1	1,941
South Uyoma	24.8	0.3	0.3	74.6	0.0	2,711		21.5	0.2	0.2	78.0	0.1	1,831
West Uyoma	29.8	0.3	0.3	69.4	0.2	3,579		28.4	0.4	0.3	70.7	0.3	2,652

Table 38.17: 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
Siaya County	65.7	0.6	0.1	0.9	32.1	0.1	0.2	0.0	0.2	195,408
Ugenya Constituency	52.8	0.6	0.0	0.7	45.5	0.1	0.3	0.0	0.0	25,590
West Ugenya	50.4	0.5	0.0	0.6	48.3	0.1	0.0	0.0	0.0	7,214
Ukwala	66.4	0.5	0.1	0.2	32.7	0.1	0.0	0.0	0.1	5,148
North Ugenya	57.6	0.7	0.0	0.1	40.3	0.1	1.2	0.0	0.0	6,255
East Ugenya	40.9	0.5	0.0	1.6	56.8	0.1	0.0	0.1	0.0	6,973
Ugunja Constituency	61.4	0.6	0.1	0.5	37.0	0.2	0.0	0.0	0.1	21,957
Sidindi	64.3	0.8	0.1	0.2	34.5	0.1	0.0	0.0	0.0	5,550
Sigomere	55.0	0.5	0.0	0.4	43.7	0.3	0.0	0.0	0.0	6,829
Ugunja	64.3	0.5	0.2	0.8	33.7	0.3	0.1	0.0	0.2	9,578
Alego Usonga Constituency	61.0	0.6	0.2	1.4	36.6	0.1	0.0	0.1	0.0	44,457
Usonga	51.5	0.5	0.1	0.6	47.3	0.1	0.0	0.0	0.0	3,429
West Alego	58.8	0.6	0.2	0.4	39.7	0.2	0.0	0.1	0.0	7,644
Central Alego	57.4	0.8	0.0	0.8	40.8	0.1	0.0	0.0	0.1	7,616
Siaya Township	82.0	0.9	0.7	3.7	12.5	0.0	0.0	0.2	0.0	7,796
North Alego	55.3	0.4	0.1	1.2	42.9	0.0	0.0	0.0	0.0	7,397
South East Alego	56.7	0.4	0.1	1.2	41.3	0.1	0.0	0.0	0.0	10,575
Gem Constituency	65.4	0.6	0.1	1.0	32.3	0.1	0.0	0.0	0.5	36,396
North Gem	62.9	0.5	0.1	0.3	36.0	0.1	0.0	0.0	0.1	7,856
West Gem	56.0	0.6	0.1	0.7	42.6	0.0	0.0	0.0	0.0	5,432
Central Gem	64.9	0.8	0.1	1.3	32.9	0.0	0.0	0.0	0.0	5,342
Yala Township	83.5	1.0	0.1	0.8	14.4	0.0	0.0	0.1	0.1	5,282
East Gem	72.8	0.5	0.0	0.9	25.5	0.1	0.0	0.0	0.0	5,608

South Gem	55.9	0.4	0.0	1.9	39.0	0.1	0.0	0.0	2.7	6,876
Bondo Constituency	78.0	0.7	0.1	1.1	19.3	0.1	0.2	0.0	0.5	36,356
West Yimbo	86.8	0.4	0.2	0.2	10.3	0.4	0.0	0.0	1.6	6,668
Central Sakwa	73.0	0.5	0.2	2.4	23.4	0.1	0.0	0.2	0.3	4,540
South Sakwa	68.7	0.4	0.0	2.7	27.6	0.0	0.1	0.0	0.4	5,690
Yimbo East	76.3	0.7	0.1	0.4	22.3	0.0	0.0	0.0	0.1	6,066
West Sakwa	81.1	1.2	0.1	1.4	15.9	0.1	0.3	0.0	0.0	5,475
North Sakwa	79.2	0.9	0.1	0.3	18.7	0.0	0.6	0.0	0.2	7,917
Rarieda Constituency	72.4	0.6	0.1	0.6	25.8	0.1	0.5	0.0	0.1	30,652
East Asembo	76.9	0.7	0.0	0.3	21.8	0.0	0.1	0.1	0.1	7,821
West Asembo	74.1	0.6	0.0	0.5	24.6	0.2	0.0	0.0	0.0	7,405
North Uyoma	67.6	0.6	0.1	0.8	30.8	0.0	0.1	0.0	0.0	4,653
South Uyoma	71.5	0.7	0.1	1.6	26.0	0.0	0.0	0.0	0.0	4,542
West Uyoma	68.9	0.4	0.0	0.3	28.2	0.1	2.1	0.0	0.0	6,231

Table 38.18: 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
Siaya County	61.9	0.6	0.1	0.9	35.8	0.1	0.2	0.0	0.3	106,856
Ugenya Constituency	47.6	0.6	0.0	0.6	50.8	0.1	0.3	0.0	0.0	12,407
West Ugenya	43.4	0.6	-	0.3	55.6	0.1	-	-	-	3,506
Ukwala	61.3	0.6	0.0	0.1	37.8	-	-	0.1	0.1	2,447
North Ugenya	53.7	0.7	0.0	0.1	44.0	-	1.4	0.0	0.0	3,001
East Ugenya	36.8	0.6	0.0	1.5	60.9	0.1	-	0.0	-	3,453
Ugunja Constituency	57.3	0.6	0.2	0.5	41.0	0.2	0.1	0.0	0.1	11,367
Sidindi	57.8	0.6	0.2	0.2	41.0	0.1	-	0.0	-	2,943
Sigomere	51.1	0.5	0.1	0.4	47.8	0.2	-	0.1	-	3,547
Ugunja	61.6	0.7	0.2	0.9	36.1	0.2	0.1	0.0	0.2	4,877
Alego Usonga Constituency	57.6	0.6	0.3	1.5	39.8	0.1	0.0	0.1	0.0	23,580
Usonga	47.1	0.4	0.1	0.4	52.0	0.1	-	-	-	1,692
West Alego	53.7	0.6	0.3	0.3	44.7	0.4	-	0.0	0.1	3,599
Central Alego	50.9	0.6	0.1	0.9	47.4	0.0	0.0	-	0.1	3,863
Siaya Township	81.1	0.8	1.0	3.8	12.9	0.0	0.0	0.3	0.0	4,905

North Alego	51.4	0.4	0.1	1.1	47.0	0.0	-	-	0.0	3,846
South East Alego	51.9	0.5	0.1	1.1	46.3	0.1	0.0	0.0	0.0	5,675
Gem Constituency	59.5	0.6	0.1	0.9	38.2	0.1	0.0	0.0	0.6	20,258
North Gem	57.3	0.5	0.0	0.3	41.7	0.1	-	0.0	0.1	4,253
West Gem	50.5	0.6	0.1	0.9	47.9	0.1	-	-	0.1	3,015
Central Gem	57.3	0.6	0.1	1.1	40.8	0.0	-	-	0.1	3,038
Yala Township	79.6	1.1	0.1	1.1	17.9	-	0.0	0.1	0.1	3,014
East Gem	66.0	0.7	0.0	0.8	32.2	0.3	0.0	-	-	3,094
South Gem	49.6	0.3	0.0	1.4	45.6	0.1	-	-	3.0	3,844
Bondo Constituency	75.1	0.7	0.1	1.1	22.0	0.2	0.2	0.0	0.6	22,004
West Yimbo	86.2	0.5	0.1	0.2	10.7	0.5	0.0	-	1.7	4,575
Central Sakwa	69.7	0.6	0.2	2.6	26.3	0.1	-	0.2	0.4	2,815
South Sakwa	64.6	0.4	-	2.8	31.4	0.0	0.2	0.0	0.6	3,227
Yimbo East	71.6	0.6	0.1	0.4	27.1	0.0	0.1	-	0.1	3,535
West Sakwa	77.5	1.2	0.1	1.4	19.2	0.2	0.4	0.0	0.1	3,274
North Sakwa	75.8	0.7	0.0	0.2	22.2	0.0	0.6	0.0	0.3	4,578
Rarieda Constituency	66.9	0.6	0.1	0.6	31.1	0.1	0.5	0.0	0.1	17,240
East Asembo	72.6	0.6	0.0	0.3	26.0	-	0.0	0.1	0.2	4,238
West Asembo	67.5	0.7	0.1	0.7	30.7	0.3	0.1	0.0	0.0	4,000
North Uyoma	61.1	0.6	0.1	0.7	37.3	0.0	0.1	0.0	0.0	2,712
South Uyoma	67.2	0.7	0.1	1.3	30.6	-	0.0	0.0	-	2,711
West Uyoma	63.6	0.4	-	0.3	33.2	0.1	2.3	0.1	0.0	3,579

Table 38.19: 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
Siaya County	70.4	0.6	0.1	0.9	27.6	0.1	0.1	0.0	0.1	88,552
Ugenya Constituency	57.7	0.5	0.0	0.8	40.6	0.1	0.3	0.0	0.0	13,183

West Ugenya	57.0	0.5	0.0	0.9	41.4	0.1	0.1	-	0.1	3,708
Ukwala	71.0	0.5	0.1	0.2	28.1	0.1	-	-	0.0	2,701
North Ugenya	61.1	0.7	-	0.1	36.9	0.2	1.0	0.0	-	3,254
East Ugenya	45.0	0.5	-	1.7	52.7	-	0.0	0.1	0.0	3,520
Ugunja Constituency	65.8	0.6	0.1	0.5	32.7	0.3	0.0	-	0.1	10,590
Sidindi	71.7	1.0	-	0.1	27.2	0.1	-	-	-	2,607
Sigomere	59.2	0.5	0.0	0.4	39.4	0.4	0.1	-	-	3,282
Ugunja	67.1	0.4	0.2	0.7	31.1	0.3	0.0	-	0.2	4,701
Alego Usonga Constituency	64.8	0.6	0.1	1.3	33.0	0.1	0.0	0.1	0.0	20,877
Usonga	55.8	0.6	0.1	0.7	42.8	0.1	-	-	-	1,737
West Alego	63.4	0.5	0.1	0.5	35.2	0.1	-	0.1	0.0	4,045
Central Alego	64.2	1.0	0.0	0.7	33.9	0.1	-	0.0	0.0	3,753
Siaya Township	83.4	1.0	0.1	3.4	11.8	0.1	-	0.1	0.0	2,891
North Alego	59.6	0.5	0.1	1.2	38.6	0.0	-	-	0.1	3,551
South East Alego	62.4	0.4	0.1	1.4	35.5	0.1	0.0	0.1	-	4,900
Gem Constituency	72.8	0.6	0.0	1.1	25.0	0.0	0.0	0.0	0.4	16,138
North Gem	69.7	0.6	0.1	0.3	29.3	0.1	0.0	-	-	3,603
West Gem	62.8	0.6	0.1	0.5	36.0	-	-	-	-	2,417
Central Gem	75.0	1.0	-	1.6	22.4	-	-	-	-	2,304
Yala Township	88.8	0.9	0.0	0.4	9.8	-	0.0	0.0	-	2,268
East Gem	81.3	0.3	-	1.1	17.2	-	-	-	0.0	2,514
South Gem	63.9	0.5	0.0	2.6	30.7	0.1	0.1	-	2.2	3,032
Bondo Constituency	82.3	0.7	0.1	1.1	15.2	0.0	0.2	0.0	0.3	14,352
West Yimbo	88.1	0.4	0.3	0.0	9.5	0.1	-	-	1.5	2,093
Central Sakwa	78.3	0.3	0.3	2.2	18.6	0.1	0.1	0.1	0.1	1,725
South Sakwa	74.0	0.5	0.0	2.6	22.7	-	-	-	0.1	2,463
Yimbo East	82.9	0.8	0.1	0.5	15.5	-	-	0.1	0.1	2,531
West Sakwa	86.4	1.1	0.0	1.4	11.0	0.0	0.0	-	-	2,201
North Sakwa	83.8	1.1	0.1	0.4	13.9	-	0.6	0.0	0.1	3,339
Rarieda Constituency	79.5	0.6	0.0	0.5	18.9	0.0	0.4	0.0	0.0	13,412
East Asembo	82.1	0.8	0.0	0.2	16.9	-	0.1	0.0	0.0	3,583

West Asembo	81.9	0.5	0.0	0.2	17.3	0.1	-	-	0.0	3,405
North Uyoma	76.7	0.7	0.1	0.8	21.6	0.1	0.1	-	-	1,941
South Uyoma	77.9	0.7	0.2	2.0	19.2	-	-	0.1	-	1,831
West Uyoma	76.1	0.3	-	0.2	21.4	0.1	1.8	0.0	0.0	2,652

Table 38.20: 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
Siaya County	1.7	13.4	63.7	19.3	0.2	0.4	0.1	0.1	1.1	195,408
Ugenya Constituency	2.0	11.9	68.5	16.1	0.2	0.2	0.1	0.0	1.0	25,590
West Ugenya	1.8	7.3	75.1	15.0	0.2	0.1	0.1	0.0	0.3	7,214
Ukwala	2.3	10.9	65.5	18.9	0.2	0.3	0.2	0.0	1.6	5,148
North Ugenya	2.4	20.7	60.8	15.7	0.2	0.1	0.0	0.0	0.0	6,255
East Ugenya	1.5	9.6	70.8	15.5	0.4	0.1	0.1	0.0	2.1	6,973
Ugunja Constituency	1.8	12.5	73.8	11.3	0.2	0.1	0.2	0.0	0.1	21,957
Sidindi	1.0	10.3	78.9	9.6	0.1	0.1	0.1	0.0	0.0	5,550
Sigomere	2.7	7.3	78.8	10.5	0.2	0.1	0.3	0.0	0.0	6,829
Ugunja	1.6	17.4	67.4	12.8	0.2	0.2	0.2	0.0	0.2	9,578
Alego Usonga Constituency	1.6	16.7	65.2	15.8	0.3	0.4	0.1	0.0	0.0	44,457
Usonga	0.6	7.5	71.9	19.6	0.2	0.1	0.1	0.0	0.0	3,429
West Alego	0.9	6.9	74.3	16.8	0.9	0.1	0.0	0.0	0.0	7,644
Central Alego	0.6	6.3	77.9	14.6	0.2	0.2	0.1	0.1	0.1	7,616
Siaya Township	4.5	51.2	29.6	13.5	0.1	0.9	0.1	0.1	0.1	7,796
North Alego	0.6	14.2	67.4	16.9	0.1	0.6	0.1	0.0	0.0	7,397
South East Alego	1.6	10.7	71.8	15.5	0.1	0.1	0.1	0.0	0.1	10,575
Gem Constituency	0.9	11.1	69.4	13.9	0.1	0.3	0.1	0.0	4.1	36,396
North Gem	1.0	9.5	67.3	12.0	0.2	0.2	0.1	0.1	9.7	7,856
West Gem	0.6	12.9	69.1	16.8	0.2	0.2	0.0	0.0	0.1	5,432
Central Gem	1.3	8.0	77.0	13.3	0.1	0.2	0.1	0.0	0.0	5,342
Yala Township	1.1	20.7	62.2	14.9	0.1	0.9	0.0	0.0	0.0	5,282
East Gem	0.6	8.7	65.8	15.0	0.1	0.1	0.1	0.1	9.5	5,608
South Gem	0.7	8.6	74.8	12.8	0.1	0.3	0.1	0.0	2.6	6,876
Bondo Constituency	2.3	14.8	51.0	30.0	0.1	0.8	0.2	0.1	0.7	36,356
West Yimbo	1.8	20.4	42.3	32.4	0.1	1.0	0.1	0.1	1.7	6,668
Central Sakwa	2.6	7.2	59.3	28.7	0.2	1.1	0.4	0.1	0.4	4,540
South Sakwa	0.9	8.7	56.4	31.7	0.1	1.5	0.2	0.1	0.4	5,690
Yimbo East	2.1	11.7	59.8	25.3	0.1	0.5	0.3	0.0	0.2	6,066
West Sakwa	3.9	16.5	44.5	33.6	0.3	0.5	0.0	0.3	0.3	5,475
North Sakwa	2.8	19.9	47.2	28.5	0.1	0.5	0.1	0.1	0.9	7,917
Rarieda Constituency	1.5	11.4	58.9	26.6	0.1	0.5	0.2	0.1	0.7	30,652
East Asembo	2.2	14.3	49.2	32.4	0.2	0.3	0.1	0.0	1.3	7,821
West Asembo	1.3	9.6	58.6	28.8	0.1	0.1	0.1	0.0	1.3	7,405

North Uyoma	1.1	8.7	62.3	26.5	0.2	0.9	0.2	0.1	0.1	4,653
South Uyoma	1.7	13.5	69.1	14.7	0.1	0.6	0.2	0.0	0.1	4,542
West Uyoma	1.2	10.6	61.3	25.4	0.1	0.7	0.4	0.2	0.0	6,231

Table 38.21: 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
Siaya County	1.9	15.0	61.8	19.2	0.2	0.6	0.2	0.1	1.1	106,856
Ugenya Constituency	2.2	13.1	67.6	15.4	0.3	0.3	0.1	0.0	1.0	12,407
West Ugenya	1.9	7.9	75.0	14.2	0.2	0.3	0.1	-	0.3	3,506
Ukwala	2.9	12.6	63.3	19.0	0.2	0.5	0.2	-	1.2	2,447
North Ugenya	3.0	23.4	58.9	14.2	0.3	0.2	0.1	-	-	3,001
East Ugenya	1.2	9.8	70.7	15.1	0.5	0.2	0.1	0.0	2.3	3,453
Ugunja Constituency	2.1	14.3	71.8	11.0	0.2	0.2	0.3	0.0	0.1	11,367
Sidindi	1.1	11.8	78.3	8.5	0.1	0.1	0.1	0.0	-	2,943
Sigomere	3.3	8.4	77.4	10.1	0.2	0.2	0.4	0.0	-	3,547
Ugunja	1.9	20.2	64.0	13.1	0.1	0.2	0.2	0.0	0.2	4,877
Alego Usonga Constituency	1.9	19.8	62.0	15.4	0.2	0.4	0.1	0.1	0.1	23,580
Usonga	0.8	8.5	71.0	19.3	0.2	0.1	0.1	-	-	1,692
West Alego	1.2	8.0	73.5	16.3	0.8	0.1	0.1	-	0.1	3,599
Central Alego	0.5	7.1	77.1	14.5	0.2	0.3	0.1	0.1	0.1	3,863
Siaya Township	5.2	53.6	26.3	13.4	0.1	1.0	0.1	0.2	0.1	4,905
North Alego	0.6	16.5	65.8	16.2	0.1	0.7	0.1	-	0.0	3,846
South East Alego	1.8	12.3	70.1	15.3	0.1	0.2	0.1	0.1	0.1	5,675
Gem Constituency	1.0	11.5	69.7	13.2	0.1	0.5	0.1	0.0	3.9	20,258
North Gem	1.0	9.5	69.0	11.2	0.2	0.2	0.1	0.1	8.7	4,253
West Gem	0.6	13.7	68.7	16.4	0.2	0.3	0.0	-	0.1	3,015
Central Gem	1.2	7.7	78.0	12.5	0.1	0.4	0.1	0.0	-	3,038
Yala Township	1.5	21.1	61.8	14.1	0.2	1.2	0.1	0.1	-	3,014

East Gem	0.6	9.1	66.1	14.0	0.1	0.3	0.1	0.1	9.7	3,094
South Gem	1.0	9.3	73.8	12.2	0.1	0.5	0.1	0.0	3.0	3,844
Bondo Constituency	2.5	16.1	49.0	30.0	0.1	1.0	0.2	0.2	0.8	22,004
West Yimbo	1.7	21.0	41.3	32.6	0.0	1.3	0.1	0.2	1.7	4,575
Central Sakwa	2.9	7.9	57.4	29.2	0.2	1.3	0.5	0.1	0.6	2,815
South Sakwa	1.0	9.4	54.0	32.9	0.1	1.7	0.2	0.2	0.6	3,227
Yimbo East	2.3	12.4	59.5	24.6	0.1	0.6	0.4	-	0.2	3,535
West Sakwa	4.1	18.2	42.1	33.5	0.3	0.9	0.0	0.5	0.4	3,274
North Sakwa	3.3	22.3	44.8	27.5	0.1	0.7	0.1	0.1	0.9	4,578
Rarieda Constituency	1.8	12.8	57.7	26.0	0.2	0.6	0.2	0.1	0.5	17,240
East Asembo	2.6	17.1	47.0	31.3	0.2	0.5	0.0	0.1	1.1	4,238
West Asembo	1.5	10.8	58.4	27.8	0.2	0.2	0.1	0.1	1.1	4,000
North Uyoma	1.5	8.3	60.6	27.9	0.2	1.1	0.2	0.1	-	2,712
South Uyoma	1.8	14.9	67.8	14.4	0.1	0.6	0.3	0.0	0.1	2,711
West Uyoma	1.6	11.7	60.0	25.1	0.1	0.8	0.4	0.3	-	3,579

Table 38.22: Main Material of the Wall in Female Headed Households by County, Constituency and Ward

County/ Constituency	Stone	Brick/Block	MudWood	Mud/ Cement	Wood only	Corrugated Iron Sheets	Grass/ Reeds	Tin	Other	House-holds
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
Siaya County	1.4	11.5	66.1	19.4	0.2	0.2	0.1	0.0	1.2	88,552
Ugenya Constituency	1.8	10.8	69.4	16.7	0.2	0.1	0.1	0.0	1.0	13,183
West Ugenya	1.7	6.8	75.2	15.7	0.2	0.0	0.1	0.0	0.3	3,708
Ukwala	1.7	9.4	67.5	18.9	0.2	0.1	0.1	-	2.0	2,701
North Ugenya	1.9	18.2	62.5	17.0	0.1	0.1	0.0	0.0	-	3,254
East Ugenya	1.7	9.3	70.9	15.9	0.3	0.0	0.1	-	1.9	3,520
Ugunja Constituency	1.5	10.5	76.0	11.6	0.2	0.1	0.1	0.0	0.1	10,590
Sidindi	0.9	8.6	79.6	10.8	0.1	-	-	-	0.0	2,607
Sigomere	2.1	6.2	80.3	11.1	0.2	-	0.2	-	-	3,282
Ugunja	1.4	14.5	70.9	12.5	0.2	0.1	0.1	0.0	0.2	4,701
Alego Usonga Constituency	1.1	13.3	68.7	16.2	0.3	0.2	0.1	0.0	0.0	20,877
Usonga	0.5	6.6	72.8	19.8	0.2	0.2	0.1	-	-	1,737
West Alego	0.7	5.9	75.1	17.3	1.0	0.1	-	-	-	4,045
Central Alego	0.6	5.6	78.7	14.7	0.1	0.1	0.1	0.1	0.0	3,753
Siaya Township	3.3	47.1	35.1	13.6	0.1	0.6	0.2	0.1	0.0	2,891
North Alego	0.5	11.8	69.2	17.5	0.1	0.6	0.2	-	0.1	3,551

South East Alego	1.4	8.8	73.9	15.8	0.0	0.0	0.0	0.0	0.0	4,900
Gem Constituency	0.8	10.6	69.1	14.8	0.1	0.2	0.1	0.0	4.3	16,138
North Gem	1.0	9.4	65.3	12.9	0.2	0.2	0.1	0.1	10.9	3,603
West Gem	0.7	12.0	69.6	17.3	0.2	0.2	0.0	-	-	2,417
Central Gem	1.3	8.3	75.8	14.4	0.0	0.0	0.1	0.0	-	2,304
Yala Township	0.7	20.1	62.7	16.0	0.0	0.4	-	-	0.0	2,268
East Gem	0.6	8.3	65.4	16.2	0.1	-	0.0	0.0	9.3	2,514
South Gem	0.4	7.7	76.1	13.5	0.0	0.1	0.1	-	2.2	3,032
Bondo Constituency	2.0	12.8	54.0	29.9	0.1	0.5	0.1	0.0	0.5	14,352
West Yimbo	1.9	19.1	44.5	32.0	0.1	0.5	0.2	0.1	1.5	2,093
Central Sakwa	2.1	6.1	62.6	27.9	0.2	0.8	0.2	0.1	0.2	1,725
South Sakwa	0.9	7.7	59.7	30.2	-	1.2	0.1	-	0.1	2,463
Yimbo East	1.8	10.8	60.3	26.2	0.2	0.3	0.2	-	0.2	2,531
West Sakwa	3.6	14.0	48.1	33.7	0.2	0.1	0.0	0.0	0.2	2,201
North Sakwa	2.0	16.7	50.4	29.8	0.1	0.1	-	0.0	0.9	3,339
Rarieda Constituency	1.2	9.7	60.4	27.3	0.1	0.3	0.2	0.0	0.8	13,412
East Asembo	1.7	10.9	51.9	33.8	0.1	0.1	0.1	-	1.5	3,583
West Asembo	1.2	8.1	58.9	30.0	0.0	0.1	0.1	0.0	1.6	3,405
North Uyoma	0.5	9.3	64.8	24.5	0.1	0.5	0.2	0.1	0.2	1,941
South Uyoma	1.5	11.5	71.1	15.1	0.1	0.4	0.2	-	-	1,831
West Uyoma	0.8	9.2	63.2	25.8	0.0	0.5	0.4	0.1	0.1	2,652

Table 38.23: Source of Water by County, Constituency and Ward

County/Constituency/Wards	Pond	Dam	Lake	Stream/ River	Unpro- tected Spring	Unpro- tected Well	Jabia	Water vendor	Other	Unim- proved Sources	Protected Spring	Protected Well	Borehole	Piped into Dwelling	Piped	Rain Water Collection	Improved Sources	Number of Individuals
Kenya	2.7	2.4	1.2	232	5.0	6.9	0.3	5.2	0.4	47.4	7.6	7.7	11.6	5.9	19.2	0.7	52.6	37,919,647
Rural	3.6	3.2	1.5	296	6.4	8.7	0.4	2.2	0.5	56.0	9.2	8.1	12.0	1.8	12.1	0.8	44.0	26,075,195
Urban	0.9	0.7	0.5	9.2	1.9	2.9	0.2	11.8	0.1	28.3	4.0	6.8	10.7	14.7	34.9	0.5	71.7	11,844,452
Siaya County	11.7	2.9	13.7	23.7	7.4	3.0	0.3	1.4	0.0	64.2	10.9	3.3	14.4	0.9	5.7	0.6	35.8	833,760
Ugenya Constituency	1.8	1.9	0.4	24.2	12.0	4.6	0.0	0.1	0.0	45.1	10.3	5.1	32.9	1.0	5.4	0.2	54.9	108,021
West Ugenya	3.0	4.3	1.1	32.2	1.9	2.4	0.0	0.2	0.0	45.2	1.5	0.6	48.2	0.2	3.6	0.6	54.8	30,292
Ukwala	3.2	3.1	0.1	17.2	3.9	4.3	0.0	0.0	0.0	32.0	5.3	5.0	47.7	1.3	8.6	0.1	68.0	21,148
North Ugenya	0.2	0.1	0.1	31.3	12.8	3.0	0.0	0.3	0.0	47.8	13.0	4.7	21.3	2.7	10.5	0.0	52.2	26,346
East Ugenya	0.9	0.3	0.0	14.8	27.2	8.5	0.0	0.0	0.0	51.7	20.3	10.0	17.3	0.1	0.6	0.1	48.3	30,235
Ugunja Constituency	1.6	0.1	0.0	15.5	22.2	2.4	0.0	0.6	0.0	42.4	21.0	4.4	24.4	1.4	6.3	0.1	57.6	92,398
Sidindi	2.4	0.1	0.0	23.3	32.2	3.7	0.0	0.3	0.0	62.1	19.5	2.5	14.2	0.2	1.2	0.4	37.9	24,080
Sigomere	1.3	0.0	0.0	9.8	29.5	0.8	0.0	0.2	0.0	41.8	31.8	4.8	13.6	0.7	7.2	0.1	58.2	29,538
Ugunja	1.3	0.1	0.0	14.9	10.3	2.8	0.0	1.1	0.1	30.6	13.7	5.2	38.9	2.6	8.9	0.0	69.4	38,780
Alego Usonga Constituency	6.2	7.0	3.9	31.4	4.6	6.2	0.1	0.7	0.0	60.0	6.3	6.2	21.6	0.9	4.6	0.3	40.0	185,420
Usonga	0.7	3.6	0.1	16.5	0.8	15.4	0.1	0.4	0.0	37.6	0.6	14.7	47.0	0.0	0.0	0.1	62.4	13,594
West Alego	16.1	6.5	11.3	21.6	3.7	10.7	0.0	0.3	0.0	70.2	1.2	6.5	21.6	0.1	0.1	0.3	29.8	31,925
Central Alego	4.7	14.4	11.3	26.1	3.2	7.6	0.0	0.2	0.0	67.5	3.5	4.5	22.5	0.2	1.6	0.2	32.5	30,989
Siaya Township	2.5	7.0	0.3	26.2	0.7	2.4	0.2	1.9	0.0	41.2	2.2	5.7	32.8	3.9	13.8	0.5	58.8	31,865
North Alego	2.9	1.3	0.0	40.2	9.5	2.2	0.1	0.2	0.0	56.5	22.3	3.5	6.4	1.0	10.1	0.2	43.5	31,717

South East/Alego	6.7	7.2	0.1	43.9	6.7	4.6	0.1	1.1	0.0	70.3	5.2	7.0	16.2	0.1	0.8	0.4	29.7	45,330
Gem Constituency	0.5	0.2	0.1	45.7	8.1	1.3	0.0	0.5	0.0	56.5	29.9	2.8	6.2	0.8	3.1	0.7	43.5	159,299
North Gem	0.2	0.3	0.0	39.8	14.9	0.6	0.1	0.5	0.0	56.4	33.4	3.4	3.0	0.3	3.1	0.4	43.6	34,611
West Gem	0.2	0.2	0.3	68.1	7.9	1.2	0.0	1.0	0.0	78.9	14.4	2.6	3.3	0.1	0.0	0.8	21.1	23,417
Central Gem	0.5	0.1	0.0	47.3	8.4	0.2	0.0	0.2	0.0	56.7	34.2	2.1	5.2	0.3	1.0	0.6	43.3	23,809
Yala Township	0.2	0.0	0.1	15.1	6.3	1.1	0.0	1.0	0.0	23.9	55.9	1.4	1.2	4.3	12.5	0.8	76.1	22,744
East Gem	0.2	0.2	0.0	44.1	5.3	0.4	0.0	0.1	0.0	50.3	42.8	1.7	1.2	0.7	2.9	0.3	49.7	24,572
South Gem	1.7	0.1	0.1	58.5	4.1	3.8	0.0	0.3	0.0	68.5	4.5	4.7	20.6	0.0	0.1	1.5	31.5	30,146
Bondo Constituency	26.3	3.4	41.3	9.8	0.4	0.6	0.2	5.0	0.0	87.0	0.1	0.7	2.0	1.1	8.5	0.6	13.0	155,329
West Yimbo	0.1	0.3	90.5	0.2	0.0	0.0	0.0	7.8	0.0	98.8	0.0	0.0	0.3	0.3	0.5	0.1	1.2	28,217
Central Sakwa	9.4	1.1	65.4	1.3	1.6	0.7	0.0	1.6	0.0	81.2	0.1	0.2	0.9	1.5	15.9	0.3	18.8	19,816
South Sakwa	33.6	3.7	48.2	5.9	0.2	0.6	0.1	0.1	0.0	92.5	0.1	0.2	0.6	0.2	5.7	0.6	7.5	22,988
Yimbo East	15.9	2.8	46.7	29.5	0.0	0.0	0.1	2.8	0.1	98.0	0.2	0.1	0.1	0.2	1.1	0.4	2.0	27,083
West Sakwa	48.4	4.2	7.7	6.2	0.0	0.9	0.8	3.4	0.0	71.6	0.1	0.3	0.5	3.6	22.7	1.2	28.4	24,453
North Sakwa	45.9	7.3	0.1	12.3	0.7	1.0	0.3	11.2	0.0	78.8	0.3	2.6	7.8	0.9	8.6	1.0	21.2	32,772
Rarieda Constituency	31.1	2.5	31.7	8.1	4.5	2.8	1.7	0.7	0.0	83.2	0.8	0.8	7.1	0.3	6.6	1.2	16.8	133,293
East Asembo	13.1	3.3	15.4	20.2	8.0	4.9	0.1	1.7	0.0	66.9	1.4	1.4	22.3	0.5	6.0	1.4	33.1	32,702
West Asembo	51.1	5.4	7.1	8.6	9.7	6.2	0.1	0.6	0.0	88.9	1.3	1.3	5.9	0.1	0.8	1.7	11.1	32,494
North Uyoma	46.2	1.0	45.4	1.6	0.0	0.1	0.1	0.2	0.0	94.8	0.2	0.4	0.5	0.1	2.7	1.3	5.2	20,931
South Uyoma	12.5	0.7	78.6	2.9	0.8	0.1	1.4	0.1	0.0	97.2	0.0	0.0	0.2	0.3	1.8	0.4	2.8	19,421
West Uyoma	30.6	0.6	36.7	2.0	0.0	0.1	7.0	0.3	0.0	77.2	0.3	0.3	0.1	0.6	20.5	1.0	22.8	27,745

Table 38.24: Source of Water of Male headed Household by County Constituency and Ward

County/Constituency/ Wards	Pond	Dam	Lake	Stream/ River	Unpro- tected Spring	Unpro- tected Well	Jabia	Water vendor	Other	Unimproved Sources	Protected Spring	Protected Well	Borehole	Piped into Dwelling	Piped	Rain Water Collection	Improved Sources	Number of Individuals
Kenya	2.7	2.3	1.1	22.4	4.8	6.7	0.4	5.6	0.4	46.4	7.4	7.7	11.7	6.2	19.9	0.7	53.6	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
Siaya County	11.6	2.8	15.1	23.5	7.1	2.9	0.3	1.6	0.0	65.0	10.7	3.1	13.7	1.0	6.0	0.6	35.0	502,339
Ugenya Constituency	1.8	1.9	0.3	23.9	12.1	4.9	0.0	0.2	0.0	45.2	10.3	5.0	32.2	1.1	6.0	0.2	54.8	58,854
West Ugenya	3.3	4.3	1.0	32.1	1.8	2.4	-	0.2	-	45.2	1.7	0.6	48.2	0.2	3.5	0.6	54.8	16,708
Ukwala	3.1	3.2	0.1	17.7	4.1	4.5	0.0	0.1	-	32.7	5.4	4.9	46.2	1.3	9.4	0.0	67.3	11,288
North Ugenya	0.2	0.1	0.1	30.1	12.7	3.3	-	0.3	0.0	46.8	12.4	4.5	20.7	3.2	12.3	0.0	53.2	14,123
East Ugenya	0.9	0.3	0.0	14.5	27.4	9.0	-	-	-	52.2	20.3	9.9	16.6	0.0	0.8	0.2	47.8	16,735
Ugunja Constituency	1.5	0.1	0.0	15.2	22.2	2.1	0.0	0.7	0.0	42.0	21.3	4.3	23.7	1.4	7.1	0.2	58.0	52,835
Sidindi	2.3	0.1	0.1	23.5	32.3	3.2	-	0.3	-	61.8	19.5	1.9	14.8	0.2	1.3	0.5	38.2	13,818
Sigomere	1.3	0.1	-	9.6	29.7	0.9	-	0.3	0.0	41.8	32.1	5.1	12.5	0.6	7.7	0.2	58.2	17,276
Ugunja	1.3	0.1	0.0	14.4	9.9	2.3	0.0	1.3	0.1	29.5	14.0	5.3	38.1	2.9	10.3	0.0	70.5	21,741
Alego Usonga Constituency	5.6	6.7	4.1	31.8	4.6	5.9	0.1	0.8	0.0	59.7	6.4	6.1	21.4	1.0	5.0	0.3	40.3	109,624
Usonga	0.5	3.8	0.2	17.6	1.0	15.6	0.1	0.6	-	39.3	0.8	14.5	45.4	-	-	0.0	60.7	7,542
West Alego	15.7	6.4	12.2	21.4	3.5	11.2	-	0.3	-	70.6	0.9	6.7	21.4	0.1	0.1	0.3	29.4	17,290
Central Alego	4.4	13.3	12.8	26.8	3.2	7.0	-	0.2	-	67.8	3.6	4.1	22.1	0.3	1.8	0.3	32.2	17,637
Siaya Township	2.3	6.8	0.3	25.3	1.0	2.4	0.1	1.9	0.0	40.2	2.2	6.4	33.3	3.8	13.6	0.5	59.8	21,206
North Alego	2.4	1.3	0.0	40.8	9.1	2.1	0.1	0.2	0.0	56.1	22.6	2.6	6.2	1.1	11.1	0.2	43.9	18,696

South East/Alego	6.2	7.2	0.1	44.5	6.9	4.6	0.1	1.2	0.0	70.8	5.5	6.7	15.7	0.1	0.8	0.4	29.2	27,253
Gem Constituency	0.5	0.2	0.1	46.1	8.1	1.4	0.0	0.5	0.0	56.9	29.4	2.8	6.4	0.8	3.0	0.7	43.1	97,322
North Gem	0.2	0.3	0.1	39.7	14.9	0.8	0.1	0.5	0.1	56.7	32.8	3.6	3.1	0.2	3.1	0.4	43.3	20,517
West Gem	0.2	0.3	0.3	68.6	8.0	1.2	-	0.9	-	79.4	13.8	2.5	3.4	0.0	-	0.9	20.6	14,422
Central Gem	0.5	0.1	0.0	48.1	8.3	0.2	-	0.2	0.0	57.5	33.8	1.5	5.5	0.3	0.8	0.5	42.5	14,795
Yala Township	0.1	0.0	0.1	14.6	5.7	1.2	0.0	1.3	0.1	23.1	56.3	1.2	1.1	4.6	12.8	0.8	76.9	13,887
East Gem	0.3	0.2	0.0	45.0	5.6	0.5	-	0.1	-	51.6	41.8	1.9	1.2	0.5	2.8	0.3	48.4	14,799
South Gem	1.6	0.1	0.1	58.2	4.3	3.8	0.0	0.2	0.0	68.2	4.5	4.8	20.9	0.0	0.1	1.5	31.8	18,902
Bondo Constituency	24.6	3.4	42.8	9.6	0.4	0.6	0.2	5.3	0.0	86.8	0.1	0.6	1.8	1.2	8.8	0.6	13.2	100,947
West Yimbo	0.0	0.2	90.3	0.2	-	0.0	0.0	8.1	-	98.9	0.1	0.0	0.2	0.3	0.4	0.1	1.1	19,660
Central Sakwa	8.8	1.1	67.3	1.3	1.8	0.8	-	1.5	-	82.6	0.1	0.1	0.8	1.3	15.0	0.1	17.4	13,145
South Sakwa	31.7	3.7	50.7	5.7	0.2	0.6	0.1	0.1	-	92.9	-	0.2	0.4	0.2	5.7	0.5	7.1	14,404
Yimbo East	15.9	2.8	46.0	30.2	0.0	0.0	0.1	2.8	0.1	97.8	0.2	0.1	0.1	0.3	1.1	0.4	2.2	17,434
West Sakwa	45.3	4.4	7.7	6.5	-	1.1	0.5	3.5	-	69.0	0.1	0.2	0.6	4.1	24.5	1.5	31.0	15,522
North Sakwa	44.8	7.5	0.1	11.4	0.9	0.9	0.3	12.1	-	78.0	0.3	2.5	7.3	1.2	9.7	0.9	22.0	20,782
Rarieda Constituency	30.3	2.4	33.7	7.8	4.3	2.7	1.7	0.8	0.0	83.6	0.8	0.7	6.7	0.4	6.6	1.3	16.4	82,757
East Asembo	12.7	3.3	16.2	20.1	7.5	4.7	0.1	2.2	-	66.9	1.4	1.2	22.2	0.6	6.3	1.5	33.1	19,649
West Asembo	50.6	5.2	7.7	8.9	9.9	6.2	0.2	0.6	0.0	89.1	1.3	1.3	5.3	0.1	1.1	1.8	10.9	19,754
North Uyoma	44.6	1.1	47.0	1.4	0.0	0.2	0.1	0.2	-	94.6	0.2	0.2	0.6	0.1	2.9	1.4	5.4	13,449
South Uyoma	12.0	0.8	79.1	2.5	1.0	0.0	1.7	0.1	-	97.2	-	0.0	0.2	0.4	1.9	0.3	2.8	12,590
West Uyoma	29.3	0.5	39.7	1.6	0.0	0.1	6.5	0.4	0.0	78.0	0.4	0.2	0.2	0.5	19.6	1.0	22.0	17,315

Table 38.25: Source of Water of Female headed Household by County, Constituency and Ward

County/Constituency/Wards	Pond	Dam	Lake	Stream/ River	Unpro- tected Spring	Unpro- tected Well	Jabia	Water vendor	Other	Unim- proved Sources	Protected Spring	Protected Well	Bore- hole	Piped into Dwelling	Piped	Rain Water Collection	Improved Sources	Number of Individuals
Kenya	2.8	2.7	1.3	25.2	5.3	7.4	0.3	4.4	0.3	49.7	8.1	7.7	11.3	5.1	17.5	0.7	50.3	11,164,581
Rural	3.4	3.5	1.6	30.6	6.5	8.9	0.3	1.8	0.4	57.0	9.5	8.0	11.5	1.6	11.7	0.8	43.0	8,058,724
Urban	1.0	0.8	0.6	11.1	2.3	3.4	0.2	11.1	0.1	30.5	4.7	7.0	10.5	14.2	32.5	0.6	69.5	3,105,857
Siaya County	11.9	3.0	11.6	24.0	7.8	3.2	0.4	1.1	0.0	63.0	11.3	3.6	15.6	0.8	5.2	0.5	37.0	331,421
Ugenya Constituency	1.7	1.9	0.4	24.6	11.9	4.3	0.0	0.1	0.0	45.0	10.3	5.2	33.7	0.8	4.8	0.2	55.0	49,167
West Ugenya	2.7	4.4	1.4	32.3	2.0	2.4	-	0.2	-	45.3	1.2	0.7	48.3	0.2	3.7	0.6	54.7	13,584
Ukwala	3.4	3.0	0.1	16.6	3.7	4.2	0.1	-	-	31.1	5.1	5.1	49.5	1.3	7.7	0.1	68.9	9,860
North Ugenya	0.3	0.2	0.1	32.8	13.0	2.6	-	0.2	-	49.1	13.6	5.0	21.9	2.0	8.5	0.0	50.9	12,223
East Ugenya	0.8	0.2	0.1	15.1	26.9	7.9	0.1	-	0.0	51.0	20.3	10.1	18.1	0.1	0.3	0.1	49.0	13,500
Ugunja Constituency	1.7	0.0	0.0	15.8	22.1	2.8	0.0	0.4	0.0	42.9	20.5	4.5	25.3	1.2	5.4	0.1	57.1	39,563
Sidindi	2.5	0.1	-	23.1	32.1	4.3	0.0	0.3	-	62.3	19.5	3.4	13.3	0.3	1.0	0.2	37.7	10,262
Sigomere	1.4	-	0.0	10.0	29.4	0.7	0.0	0.1	0.0	41.8	31.4	4.5	15.0	0.8	6.4	0.1	58.2	12,262
Ugunja	1.4	0.0	-	15.5	10.9	3.4	-	0.8	0.0	32.1	13.4	5.2	40.0	2.1	7.2	0.0	67.9	17,039
Alego Usonga Constituency	6.9	7.3	3.7	30.8	4.7	6.5	0.1	0.6	0.0	60.6	6.1	6.5	21.9	0.8	3.9	0.3	39.4	75,796
Usonga	1.0	3.4	0.1	15.1	0.5	15.2	-	0.2	0.0	35.4	0.4	14.9	49.1	0.0	0.0	0.1	64.6	6,052
West Alego	16.5	6.7	10.3	21.8	4.1	10.1	0.1	0.3	-	69.7	1.5	6.3	21.9	0.1	0.1	0.3	30.3	14,635
Central Alego	4.9	15.8	9.3	25.1	3.2	8.4	-	0.3	-	67.1	3.3	5.1	23.0	-	1.2	0.2	32.9	13,352
Siaya Township	2.9	7.4	0.2	28.0	0.3	2.4	0.3	1.8	-	43.1	2.0	4.4	31.9	3.9	14.1	0.6	56.9	10,659
North Alego	3.7	1.4	0.0	39.4	10.0	2.5	-	0.2	-	57.1	21.8	4.7	6.6	1.0	8.7	0.1	42.9	13,021

South East Alego	7.4	7.1	0.0	42.9	6.5	4.5	0.1	0.9	0.0	69.5	4.9	7.4	16.9	0.1	0.9	0.3	30.5	18,077
Gem Constituency	0.5	0.2	0.1	45.2	8.2	1.2	0.0	0.5	-	55.8	30.9	2.9	5.8	0.8	3.1	0.7	44.2	61,977
North Gem	0.1	0.4	-	39.8	14.8	0.4	-	0.5	-	55.9	34.3	3.2	2.9	0.3	2.9	0.4	44.1	14,094
West Gem	0.2	0.0	0.2	67.4	7.6	1.3	0.0	1.2	-	78.0	15.5	2.7	3.0	0.2	-	0.7	22.0	8,995
Central Gem	0.4	0.2	-	45.8	8.5	0.3	0.0	0.2	-	55.3	34.8	3.0	4.6	0.3	1.2	0.6	44.7	9,014
Yala Township	0.2	-	0.1	16.0	7.1	1.0	0.1	0.6	-	25.1	55.4	1.7	1.2	3.8	12.0	0.8	74.9	8,857
East Gem	0.0	0.2	0.0	42.9	4.9	0.3	-	0.1	-	48.3	44.3	1.5	1.2	0.9	3.2	0.4	51.7	9,773
South Gem	1.8	0.1	0.2	59.0	3.8	3.7	0.1	0.4	-	69.1	4.6	4.6	20.1	-	0.1	1.5	30.9	11,244
Bondo Constituency	29.3	3.4	38.6	10.2	0.3	0.6	0.3	4.5	0.0	87.3	0.2	0.8	2.3	0.8	8.0	0.7	12.7	54,382
West Yimbo	0.2	0.3	91.0	0.1	-	-	-	7.2	-	98.8	-	0.0	0.4	0.1	0.6	0.0	1.2	8,557
Central Sakwa	10.7	1.2	61.5	1.3	1.2	0.6	-	2.0	-	78.5	0.0	0.4	1.2	1.8	17.6	0.6	21.5	6,671
South Sakwa	36.7	3.6	44.1	6.2	0.3	0.7	0.2	0.1	-	91.9	0.3	0.3	0.8	0.2	5.7	0.8	8.1	8,584
Yimbo East	15.9	3.0	47.8	28.3	-	-	0.2	2.9	0.1	98.2	0.2	0.0	0.1	-	1.0	0.5	1.8	9,649
West Sakwa	53.7	3.8	7.8	5.6	0.1	0.6	1.3	3.2	-	76.2	0.1	0.5	0.2	2.7	19.4	0.8	23.8	8,931
North Sakwa	47.8	6.9	-	13.9	0.5	1.3	0.2	9.5	-	80.0	0.3	2.7	8.6	0.4	6.8	1.2	20.0	11,990
Rarieda Constituency	32.5	2.7	28.6	8.7	4.7	3.0	1.8	0.5	0.0	82.5	0.8	0.9	7.6	0.3	6.6	1.2	17.5	50,536
East Asembo	13.9	3.3	14.2	20.5	8.8	5.2	0.1	1.0	0.0	67.0	1.6	1.8	22.6	0.3	5.6	1.3	33.0	13,053
West Asembo	51.9	5.7	6.3	8.2	9.3	6.3	0.1	0.7	0.1	88.6	1.4	1.2	6.7	0.0	0.4	1.7	11.4	12,740
North Uyoma	49.2	0.9	42.7	2.0	0.0	-	0.1	0.2	-	95.1	0.2	0.7	0.4	0.1	2.4	1.1	4.9	7,482
South Uyoma	13.5	0.7	77.7	3.7	0.6	0.2	0.8	-	-	97.1	0.1	-	0.3	0.2	1.7	0.6	2.9	6,831
West Uyoma	32.7	0.7	31.7	2.5	0.0	-	7.9	0.3	-	75.9	0.2	0.4	0.1	0.7	21.8	0.9	24.1	10,430

Table 38.26: Human Waste Disposal by County, Constituency and Ward

County/ Constituency	Main Sewer	Septic Tank	Cess Pool	VIP Latrine	Pit Latrine	Improved Sanitation	PitLatrine Uncovered	Bucket	Bush	Other	Unimproved Sanitation	Number of HH 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
Siaya County	0.19	0.22	0.11	3.93	44.20	48.65	32.08	0.07	19.01	0.19	51.35	833,760
Ugenya Constituency	0.07	0.18	0.05	4.77	57.40	62.48	24.93	0.08	12.43	0.08	37.52	108,021
West Ugenya	0.05	0.15	0.06	4.36	61.52	66.14	15.13	0.04	18.61	0.09	33.86	30,292
Ukwala	0.06	0.29	0.00	4.08	62.46	66.89	24.47	0.15	8.34	0.16	33.11	21,148
North Ugenya	0.12	0.29	0.05	3.81	51.70	55.96	33.51	0.05	10.43	0.05	44.04	26,346
East Ugenya	0.06	0.04	0.09	6.51	54.71	61.41	27.60	0.11	10.84	0.04	38.59	30,235
Ugunja Constituency	0.11	0.26	0.03	3.07	59.75	63.22	31.96	0.03	4.67	0.11	36.78	92,398
Sidindi	0.15	0.36	0.03	1.41	39.45	41.41	55.35	0.00	2.97	0.26	58.59	24,080
Sigomere	0.06	0.16	0.01	2.75	70.20	73.18	24.26	0.01	2.53	0.02	26.82	29,538
Ugunja	0.13	0.27	0.04	4.35	64.39	69.19	23.30	0.06	7.36	0.09	30.81	38,780
Alego Usonga Constituency	0.43	0.40	0.13	3.13	44.06	48.14	38.16	0.11	13.46	0.13	51.86	185,420
Usonga	0.13	0.15	0.04	0.77	48.37	49.46	39.05	0.08	11.37	0.05	50.54	13,594
West Alego	0.10	0.20	0.11	3.98	43.96	48.35	35.11	0.05	16.24	0.24	51.65	31,925
Central Alego	0.02	0.15	0.04	2.83	45.18	48.23	36.34	0.10	15.22	0.11	51.77	30,989
Siaya Township	2.01	1.52	0.28	3.84	47.72	55.36	40.36	0.23	3.96	0.09	44.64	31,865
North Alego	0.23	0.29	0.01	1.70	59.82	62.04	27.75	0.04	10.06	0.11	37.96	31,717
South East Alego	0.07	0.07	0.19	3.94	28.48	32.75	47.04	0.12	19.98	0.11	67.25	45,330
Gem Constituency	0.12	0.14	0.06	3.49	52.05	55.88	35.95	0.06	7.99	0.12	44.12	159,299
North Gem	0.05	0.08	0.06	1.00	80.43	81.63	13.91	0.11	4.30	0.04	18.37	34,611
West Gem	0.07	0.09	0.09	5.90	38.65	44.81	43.92	0.00	11.13	0.13	55.19	23,417
Central Gem	0.05	0.12	0.02	6.71	75.55	82.46	12.78	0.05	4.61	0.11	17.54	23,809
Yala Township	0.45	0.36	0.13	4.48	47.73	53.15	45.53	0.03	1.21	0.08	46.85	22,744
East Gem	0.13	0.24	0.10	3.02	45.71	49.21	44.88	0.04	5.71	0.16	50.79	24,572
South Gem	0.06	0.02	0.01	1.58	19.76	21.42	58.86	0.11	19.39	0.21	78.58	30,146
Bondo Constituency	0.13	0.22	0.24	6.08	36.89	43.55	19.85	0.03	36.49	0.07	56.45	155,329
West Yimbo	0.00	0.12	0.19	1.22	57.49	59.02	10.50	0.04	30.27	0.17	40.98	28,217
Central Sakwa	0.05	0.03	0.11	7.77	8.26	16.22	17.32	0.02	66.44	0.01	83.78	19,816
South Sakwa	0.06	0.03	0.08	4.61	27.21	31.98	15.50	0.03	52.47	0.03	68.02	22,988
Yimbo East	0.10	0.16	0.15	4.16	40.18	44.74	14.40	0.07	40.62	0.17	55.26	27,083
West Sakwa	0.46	0.66	0.89	10.24	43.89	56.14	23.25	0.03	20.57	0.00	43.86	24,453
North Sakwa	0.12	0.26	0.05	8.75	35.34	44.52	34.46	0.01	21.01	0.00	55.48	32,772
Rarieda Constituency	0.12	0.10	0.09	2.95	22.05	25.32	39.12	0.10	34.83	0.63	74.68	133,293
East Asembo	0.12	0.12	0.17	4.34	23.87	28.62	53.68	0.02	17.32	0.36	71.38	32,702
West Asembo	0.25	0.15	0.05	1.56	35.49	37.50	32.22	0.10	29.19	0.99	62.50	32,494
North Uyoma	0.02	0.14	0.11	1.71	23.10	25.08	40.26	0.12	34.30	0.23	74.92	20,931
South Uyoma	0.12	0.01	0.00	1.50	11.19	12.81	30.28	0.07	56.61	0.23	87.19	19,421
West Uyoma	0.06	0.03	0.11	4.92	10.97	16.08	35.37	0.19	47.23	1.12	83.92	27,745

Table 38.27: 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 Memmmbers
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
Siaya County	0.20	0.26	0.11	4.04	44.48	49.09	32.07	0.07	18.60	0.17	50.91	502,339
Ugenya Constituency	0.08	0.20	0.04	4.68	59.09	64.09	24.47	0.05	11.29	0.10	35.91	58,854
West Ugenya	0.05	0.15	0.04	4.24	62.20	66.68	15.35	0.07	17.75	0.15	33.32	16,708
Ukwala	0.11	0.21	0.00	3.30	65.07	68.68	23.65	0.09	7.41	0.16	31.32	11,288
North Ugenya	0.11	0.40	0.04	3.61	54.46	58.62	32.76	0.00	8.57	0.06	41.38	14,123
East Ugenya	0.07	0.07	0.05	6.97	55.85	63.01	27.13	0.07	9.75	0.05	36.99	16,735
Ugunja Constituency	0.12	0.24	0.01	3.38	60.89	64.65	31.40	0.03	3.80	0.12	35.35	52,835
Sidindi	0.14	0.33	0.03	1.30	39.93	41.72	55.59	0.00	2.37	0.31	58.28	13,818
Sigomere	0.08	0.13	0.02	2.71	70.87	73.80	24.07	0.01	2.10	0.02	26.20	17,276
Ugunja	0.15	0.28	0.00	5.23	66.29	71.94	21.85	0.06	6.07	0.08	28.06	21,741
Alego Usonga Constituency	0.47	0.49	0.14	3.26	44.58	48.93	38.41	0.11	12.46	0.08	51.07	109,624
Usonga	0.11	0.20	0.00	0.28	49.51	50.09	39.25	0.07	10.59	0.00	49.91	7,542
West Alego	0.09	0.25	0.17	4.17	44.64	49.32	34.67	0.01	15.86	0.14	50.68	17,290
Central Alego	0.02	0.24	0.03	3.00	46.13	49.42	37.04	0.12	13.37	0.05	50.58	17,637
Siaya Township	1.91	1.63	0.35	3.85	48.18	55.92	40.30	0.25	3.48	0.06	44.08	21,206
North Alego	0.35	0.45	0.00	1.74	60.88	63.43	27.03	0.06	9.39	0.09	36.57	18,696
South East Alego	0.07	0.03	0.15	4.24	28.18	32.67	47.79	0.11	19.34	0.09	67.33	27,253
Gem Constituency	0.12	0.18	0.06	3.70	52.14	56.19	36.00	0.05	7.66	0.10	43.81	97,322
North Gem	0.04	0.14	0.07	1.01	80.97	82.23	13.64	0.04	4.08	0.01	17.77	20,517
West Gem	0.10	0.15	0.12	6.13	38.78	45.27	44.23	0.01	10.35	0.14	54.73	14,422
Central Gem	0.03	0.18	0.01	7.34	75.31	82.87	12.73	0.03	4.29	0.08	17.13	14,795
Yala Township	0.44	0.48	0.11	4.87	48.38	54.27	44.81	0.00	0.81	0.12	45.73	13,887
East Gem	0.11	0.19	0.05	3.07	45.65	49.08	45.31	0.00	5.55	0.06	50.92	14,799
South Gem	0.06	0.00	0.00	1.57	20.72	22.35	58.46	0.17	18.81	0.20	77.65	18,902
Bondo Constituency	0.15	0.26	0.24	6.03	37.82	44.50	20.03	0.01	35.38	0.08	55.50	100,947
West Yimbo	0.00	0.14	0.12	1.21	58.65	60.12	10.68	0.00	29.05	0.14	39.88	19,660
Central Sakwa	0.02	0.05	0.14	7.54	7.66	15.41	17.75	0.02	66.83	0.00	84.59	13,145
South Sakwa	0.03	0.04	0.09	4.42	28.81	33.40	16.38	0.00	50.19	0.03	66.60	14,404
Yimbo East	0.15	0.07	0.14	4.57	40.55	45.48	14.39	0.07	39.81	0.25	54.52	17,434
West Sakwa	0.61	0.93	0.95	10.66	44.64	57.80	23.10	0.00	19.10	0.01	42.20	15,522
North Sakwa	0.13	0.31	0.05	8.50	36.07	45.06	35.29	0.00	19.65	0.00	54.94	20,782
Rarieda Constituency	0.14	0.11	0.09	3.04	22.60	25.98	39.59	0.12	33.74	0.57	74.02	82,757
East Asembo	0.12	0.17	0.19	4.41	24.68	29.57	53.71	0.02	16.38	0.32	70.43	19,649
West Asembo	0.29	0.21	0.08	1.79	36.29	38.66	32.00	0.15	28.27	0.92	61.34	19,754
North Uyoma	0.04	0.11	0.08	1.67	24.47	26.37	40.84	0.17	32.39	0.23	73.63	13,449
South Uyoma	0.14	0.01	0.00	1.37	11.83	13.34	32.10	0.10	54.16	0.29	86.66	12,590
West Uyoma	0.05	0.00	0.04	5.21	11.03	16.33	36.68	0.18	45.89	0.91	83.67	17,315

Table 38.28: 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
Siaya	0.2	0.2	0.1	3.7	43.8	48.0	32.1	0.1	19.6	0.2	52.0	331,421.0
Ugenya	0.1	0.2	0.1	4.9	55.4	60.6	25.5	0.1	13.8	0.1	39.4	49,167.0
West Ugenya	0.1	0.1	0.1	4.5	60.7	65.5	14.8	0.0	19.7	0.0	34.5	13,584.0
Ukwala	0.0	0.4	0.0	5.0	59.5	64.8	25.4	0.2	9.4	0.2	35.2	9,860.0
North Ugenya	0.1	0.2	0.0	4.0	48.5	52.9	34.4	0.1	12.6	0.0	47.1	12,223.0
East Ugenya	0.0	0.0	0.1	5.9	53.3	59.4	28.2	0.2	12.2	0.0	40.6	13,500.0
Ugunja	0.1	0.3	0.1	2.7	58.2	61.3	32.7	0.0	5.8	0.1	38.7	39,563.0
Sidindi	0.2	0.4	0.0	1.6	38.8	41.0	55.0	0.0	3.8	0.2	59.0	10,262.0
Sigomere	0.0	0.2	0.0	2.8	69.3	72.3	24.5	0.0	3.1	0.0	27.7	12,262.0
Ugunja	0.1	0.3	0.1	3.2	62.0	65.7	25.1	0.1	9.0	0.1	34.3	17,039.0
Alego Usonga	0.4	0.3	0.1	2.9	43.3	47.0	37.8	0.1	14.9	0.2	53.0	75,796.0
Usonga	0.2	0.1	0.1	1.4	47.0	48.7	38.8	0.1	12.3	0.1	51.3	6,052.0
West Alego	0.1	0.2	0.0	3.8	43.2	47.2	35.6	0.1	16.7	0.4	52.8	14,635.0
Central Alego	0.0	0.0	0.1	2.6	43.9	46.7	35.4	0.1	17.7	0.2	53.3	13,352.0
Siaya Township	2.2	1.3	0.1	3.8	46.8	54.3	40.5	0.2	4.9	0.2	45.7	10,659.0
North Alego	0.1	0.1	0.0	1.6	58.3	60.0	28.8	0.0	11.0	0.1	40.0	13,021.0
South East Alego	0.1	0.1	0.3	3.5	28.9	32.9	45.9	0.1	21.0	0.1	67.1	18,077.0
Gem	0.1	0.1	0.1	3.2	51.9	55.4	35.9	0.1	8.5	0.2	44.6	61,977.0
North Gem	0.1	0.0	0.0	1.0	79.6	80.8	14.3	0.2	4.6	0.1	19.2	14,094.0
West Gem	0.0	0.0	0.1	5.5	38.4	44.1	43.4	0.0	12.4	0.1	55.9	8,995.0
Central Gem	0.1	0.0	0.0	5.7	75.9	81.8	12.9	0.1	5.1	0.1	18.2	9,014.0
Yala Township	0.5	0.2	0.2	3.9	46.7	51.4	46.7	0.1	1.9	0.0	48.6	8,857.0
East Gem	0.2	0.3	0.2	2.9	45.8	49.4	44.2	0.1	6.0	0.3	50.6	9,773.0
South Gem	0.1	0.1	0.0	1.6	18.1	19.9	59.5	0.0	20.4	0.2	80.1	11,244.0
Bondo	0.1	0.1	0.2	6.2	35.2	41.8	19.5	0.1	38.6	0.0	58.2	54,382.0
West Yimbo	0.0	0.1	0.4	1.2	54.8	56.5	10.1	0.1	33.1	0.2	43.5	8,557.0
Central Sakwa	0.1	0.0	0.0	8.2	9.4	17.8	16.5	0.0	65.7	0.0	82.2	6,671.0
South Sakwa	0.1	0.0	0.1	4.9	24.5	29.6	14.0	0.1	56.3	0.0	70.4	8,584.0
Yimbo East	0.0	0.3	0.2	3.4	39.5	43.4	14.4	0.1	42.1	0.0	56.6	9,649.0
West Sakwa	0.2	0.2	0.8	9.5	42.6	53.3	23.5	0.1	23.1	0.0	46.7	8,931.0
North Sakwa	0.1	0.2	0.1	9.2	34.1	43.6	33.0	0.0	23.4	0.0	56.4	11,990.0
Rarieda	0.1	0.1	0.1	2.8	21.1	24.2	38.4	0.1	36.6	0.7	75.8	50,536.0
East Asembo	0.1	0.1	0.1	4.2	22.7	27.2	53.6	0.0	18.7	0.4	72.8	13,053.0
West Asembo	0.2	0.1	0.0	1.2	34.2	35.7	32.6	0.0	30.6	1.1	64.3	12,740.0
North Uyoma	0.0	0.2	0.1	1.8	20.6	22.8	39.2	0.0	37.7	0.2	77.2	7,482.0
South Uyoma	0.1	0.0	0.0	1.7	10.0	11.8	26.9	0.0	61.1	0.1	88.2	6,831.0
West Uyoma	0.1	0.1	0.2	4.4	10.9	15.7	33.2	0.2	49.5	1.5	84.3	10,430.0



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



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