Exploring Kenya's Inequality

Pulling Apart or Pooling Together?

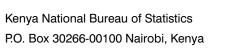


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Table of contents

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

Foreword

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

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

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

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

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

Ali Hersi

Society for International Development (SID) Regional Director



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Stefano Prato Managing Director, SID



Striking Features on Intra-County Inequality in Kenya

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

Income/expenditure inequalities

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

Access to Education

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



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

Access to Improved Sanitation

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

Access to Improved Sources of Water

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

Access to Improved Sources of Lighting

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

Access to Improved Housing

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

Overall ranking of the variables

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



Abbreviations

AMADPOC African Migration and Development Policy Centre

CRA Commission on Revenue Allocation

DANIDA Danish International Development Agency

DAP Drivers of Accountability Programme

EAS Enumeration Areas

HDI Human Development Index

IBP International Budget Partnership

IEA Institute of Economic Affairs

IPAR Institute of Policy Analysis and Research

KIHBS Kenya Intergraded Household Budget Survey

KIPPRA Kenya Institute for Public Policy Research and Analysis

KNBS Kenya National Bureau of Statistics

LPG Liquefied Petroleum Gas

NCIC National Cohesion and Integration Commission

NTA National Taxpayers Association

PCA Principal Component Analysis

SAES Small Area Estimation

SID Society for International Development

TISA The Institute for Social Accountability

VIP latrine Ventilated-Improved Pit latrine

VOCs Volatile Organic Carbons

WDR World Development Report

Introduction

Background

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

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

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

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

Methodology

Gini-coefficient of inequality

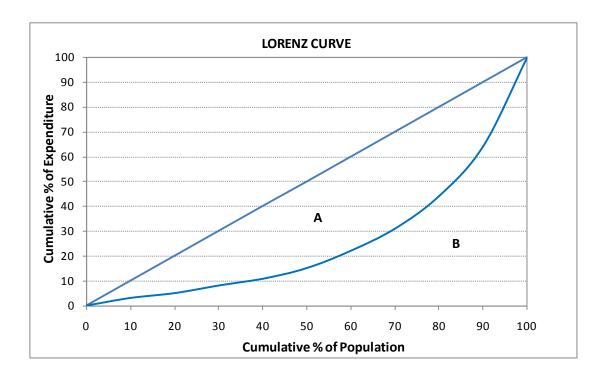
This is the most commonly used measure of inequality. The coefficient varies between '0', which reflects complete equality and '1' which indicates complete inequality. Graphically, the Gini coefficient can be



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

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

An Illustration of the Lorenz Curve



Small Area Estimation (SAE)

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

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

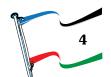
The sample in the 2005/06 KIHBS, which was a representative subset of the population, collected detailed information regarding consumption expenditures. The survey gives poverty estimate of urban and rural poverty at the national level, the provincial level and, albeit with less precision, at the district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

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

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

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

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



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

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

Identification of poor households Principal Component Analysis (PCA)

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

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

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

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

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

Concepts and definitions

Inequality

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

Equality and Equity

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

Poverty

The poverty line is a threshold below which people are deemed poor. Statistics summarizing the bottom of the consumption distribution (i.e. those that fall below the poverty line) are therefore provided. In 2005/06, the poverty line was estimated at Ksh1,562 and Ksh2,913 per adult equivalent 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.

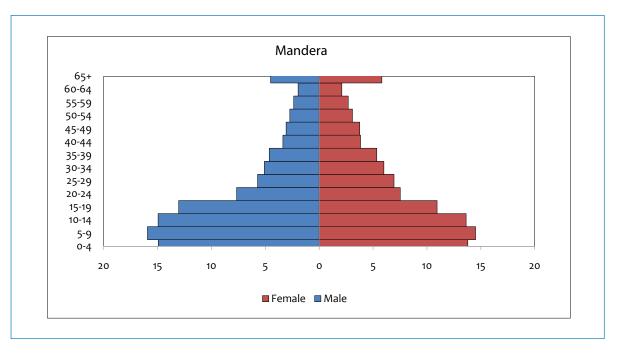


Mandera County



MANDERA COUNTY

Figure 24.1: Mandera Population Pyramid



Population

Mandera County has a child rich population structure, where 0-14 year olds constitute 54% of the total population. This makes Mandera the county with the highest proportion of children in Kenya. This is a result of very high fertility rates among women as shown by the percentage household size of 7+ members at 79%. The small percentage of 0-3 year olds is due to high mortality of children under five years.

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 24.3 up to ward level.

Table 24:Overall Employment by Education Levels in Mandera County

Education Level	Work for pay	Family Business	Family Agricul- tural Holding	Intern/ Volunteer	Retired/ Home- maker	Fulltime Student	Incapacitated	No work	Number of Individuals
Total	7.1	12.4	37.1	1.2	12.0	13.3	0.4	16.5	454,509
None	6.5	14.2	43.4	1.2	14.6	2.1	0.5	17.7	353,286
Primary	5.4	7.1	18.4	1.1	3.8	51.5	0.2	12.6	59,755
Secondary+	14.4	5.5	11.1	1.1	1.6	54.4	0.1	11.8	41,468

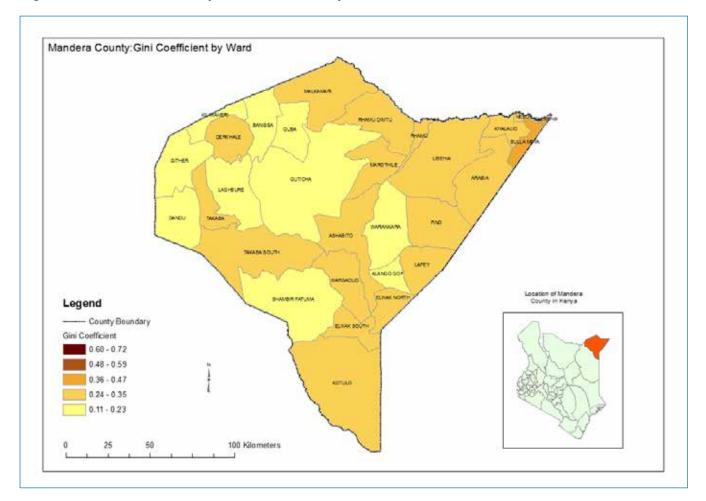
In Mandera County, 7% of the residents with no formal education are working for pay, 5% of those with a primary level of education and 14% for those with a secondary level of education or above. Work for pay is highest in Nairobi at 49% and this is thrice the level in Mandera for those with a secondary level of education or above.



Gini Coefficient

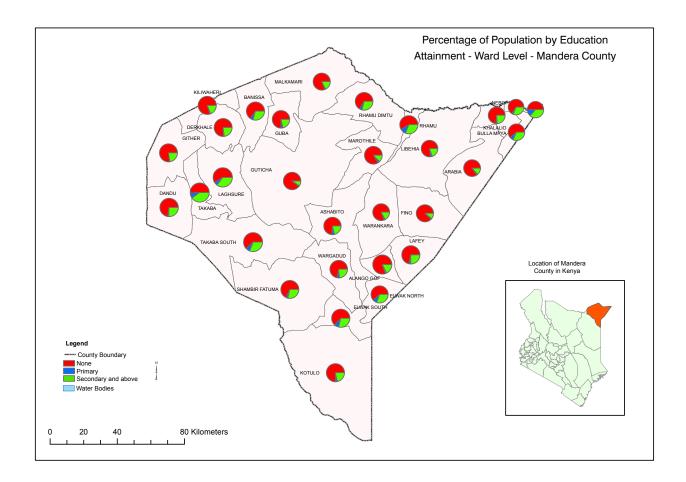
In this report, the Gini index measures the extent to which the distribution of consumption expenditure among individuals or households within an economy deviates from a perfectly equal distribution. A Gini index of '0' represents perfect equality, while an index of '1' implies perfect inequality. Mandera County's Gini index is 0.332 compared with Turkana County, which has the least inequality nationally (0.283).

Figure 24.2: Mandera County-Gini Coefficient by Ward



Education

Figure 24.3: Mandera County-Percentage of Population by Education attainment by Ward



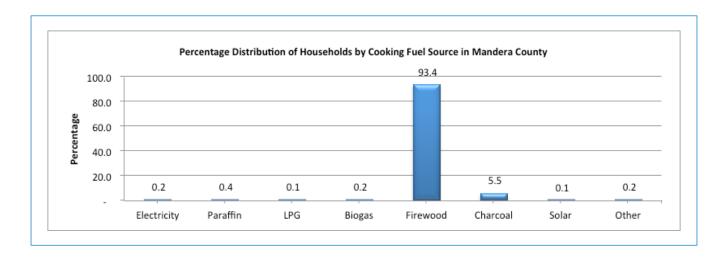
Only 5% of Mandera County residents have a secondary level of education or above. Mandera East constituency has the highest share of residents with a secondary level of education or above at 7%. This is 4 percentage points above Banissa constituency, which has the lowest share of residents with a secondary level of education or above. Mandera East is 2 percentage points above the county average. Township ward has the highest share of residents with a secondary level of education or above at 13%. This is 12 percentage points above Gither ward, which has the lowest share of residents with a secondary level of education or above. Township is 8 percentage points above the county average.

A total of 25% of Mandera County residents have a primary level of education only. Mandera West constituency has the highest share of residents with a primary level of education only at 30%. This is 10 percentage points above Lafey constituency, which has the lowest share of residents with a primary level of education only. Mandera West is 5 percentage points above the county average. Takaba ward has the highest share of residents with a primary level of education only at 40%. This is four times Guticha ward, which has the lowest share of residents with a primary education only. Takaba is 15 percentage points above the county average.

A full 70% of Mandera County residents have no formal education. Lafey constituency has the highest share of residents with no formal education at 77%. This is 13 percentage points above Mandera East constituency, which has the lowest share of residents with no formal education. Lafy constituency is 7 percentage points above the county average. Guticha ward has the highest percentage of residents with no formal education at 90%. This is 40 percentage points above Township ward, which has the lowest percentage of residents with no formal education. Guticha is 20 percentage points above the county average.



Figure 24.4: Percentage Distribution of Households by Source of Cooking Fuel in Mandera County Less than 1% of residents in Mandera County use Liquefied Petroleum Gas (LPG) and Less than 1% use paraffin. 93% use firewood and 6% use charcoal. Firewood is the most common cooking fuel by gender; 94% in male headed households and 90% in female headed households.

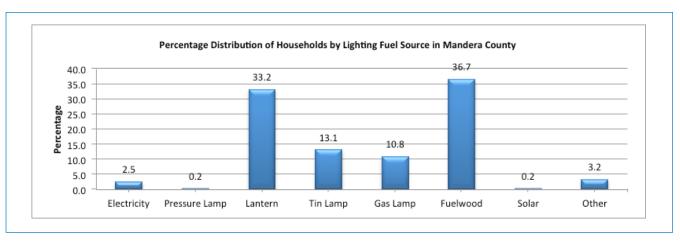


Three constituencies, Lafey, Mandera West and Mandera South, have the highest level of firewood use at 98% each. This is 30 percentage points above Mandera East constituency, which has the lowest share. Lafey, Mandera West and Mandera South are about 5 percentage points above the county average. Fino ward has the highest level of firewood use at 100%. This is 58 percentage points above Township ward, which has the lowest share. Fino ward is 7 percentage points above the county average.

Mandera East constituency has the highest level of charcoal use in Mandera County at 30%. This is 29 percentage points above Mandera West constituency, which has the lowest share. Mandera East is 24 percentage points above the county average. Township ward has the highest level of charcoal use in Mandera County at 54%. This is 54 percentage points more than Fino ward which has the lowest share. Township is 48 percentage points above the county average.

Lighting

Figure 24.5: Percentage Distribution of Households by Source of Lighting Fuel in Mandera County



Only 3% of residents in Mandera County use electricity as their main source of lighting. A further 33% use lanterns, and 13% use tin lamps. 37% use fuel wood. Electricity use is mostly common in female headed households at 5% compared with male headed households at 2%.

Mandera East constituency has the highest level of electricity use at 15%. That is 15 percentage points above Mandera West and Banissa constituencies, which have the lowest level of electricity use. Mandera East is 12 percentage points above the county average. Township ward has the highest level of electricity use at 32%. That is 32 percentage points above 12 wards namely, Laghsure, Dandu, Gither, Ashabito, Guticha, Marothile, Rhamu Dimtu, Shambir Fatuma, Arabia, Khalalio, Sala, and Fino wards that have no electricity use. Township ward is 29 percentage points above the county average.

Housing

Flooring

In Mandera County, 7% of residents have homes with cement floors, while 92% have earth floors. 1% has wood and less than 1% has tile floors. Mandera East constituency has the highest share of cement floors at 25%. That is 25 percentage points above Lafey constituency, which has the lowest share of cement floors. Mandera East constituency is 18 percentage points above the county average. Township ward has the highest share of cement floors at 50%. That is 50 percentage points above Guticha ward, which has the lowest share of cement floors. Township ward is 43 percentage points above the county average.

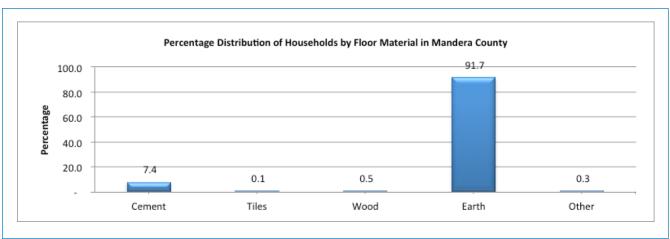
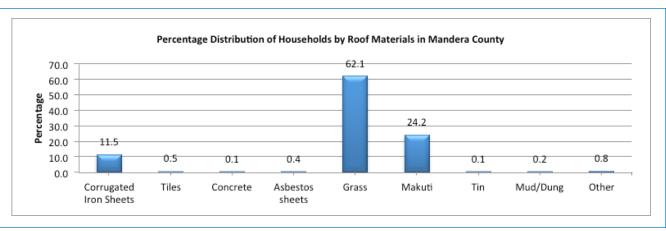


Figure 24.6: Percentage Distribution of Households by Floor Material in Mandera County

Roofing





In Mandera County, less than 1% of residents have homes with concrete roofs, while 12% have corrugated iron roofs. Grass and makuti roofs constitute 86% of homes, and less than 1% has mud/dung roofs.

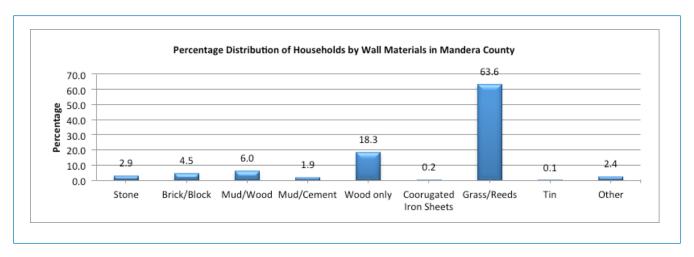


Mandera East constituency has the highest share of corrugated iron sheet roofs at 30%. That is 29 percentage points above Lafey constituency, which has the lowest share of corrugated iron sheet roofs. Mandera East is 18 percentage points above the county average. Township ward has the highest share of corrugated iron sheet roofs at 58%. That is 58 percentage points above Sala ward, which has the lowest share of corrugated iron sheet roofs. Township is 46 percentage points above the county average.

Lafey constituency has the highest share of grass/makuti roofs at 96%. That is 28 percentage points above Mandera East constituency, which has the lowest share of grass/makuti roofs. Lafey constituency is 10 percentage points above the county average. Warankara, Fino, Alango Gof, Guticha, and Lafey wards have the highest share of grass/makuti roofs at 99% each. This is almost three times Township ward, which has the lowest share. These five wards are 13 percentage points above the county average.

Walls

Figure 24.8: Percentage Distribution of Households by Wall Material in Mandera County



In Mandera County, 7% of homes have either brick or stone walls, 8% of homes have mud/wood or mud/cement walls, 18% have wood walls, less than 1% has corrugated iron walls, 64% have grass/thatched walls, and 3% have tin or other walls.

Mandera East constituency has the highest share of brick/stone walls at 26%. That is 25 percentage points above Lafey constituency, which has the lowest share of brick/stone walls. Mandera East 19 percentage points above the county average. Township ward has the highest share of brick/stone walls at 51%. This is 51 percentage points above Alango Gof ward, which has the lowest share of brick/stone walls. Township ward is 44 percentage points above the county average.

Mandera West constituency has the highest share of mud with wood/cement walls at 14%. This is seven times Lafey constituency, which has the lowest share of mud with wood/cement. Mandera West is 6 percentage points above the county average. Rhamu ward has the highest share of mud with wood/cement walls at 34%. This is 34 percentage points above Alango Gof ward with the lowest share of mud with wood/cement walls. Rhamu is 26 percentage points above the county average.

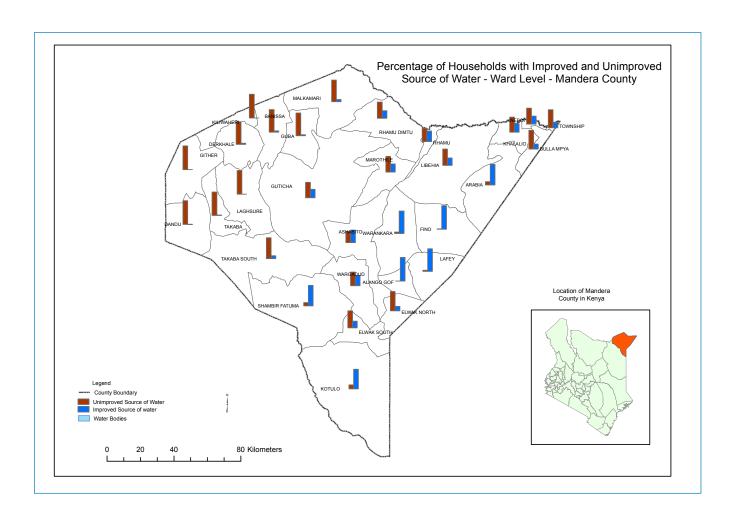
Water

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

In Mandera County, 38% of residents use improved sources of water, with the rest relying on unimproved sources. There is no significant gender differential as 38% of male headed households and 39% of female headed households use improved water sources.

Lafey constituency has the highest share of residents using improved sources of water at 75%. That is almost 19 times Mandera West constituency, which has the lowest share using improved sources of water. Lafey constituency is 37 percentage points above the county average. Alango Gof ward has the highest share of residents using improved sources of water at 100%. This is 100 percentage points above Laghsure ward which has no share using improved sources of water. Alango Gof is 62 percentage points above the county average.

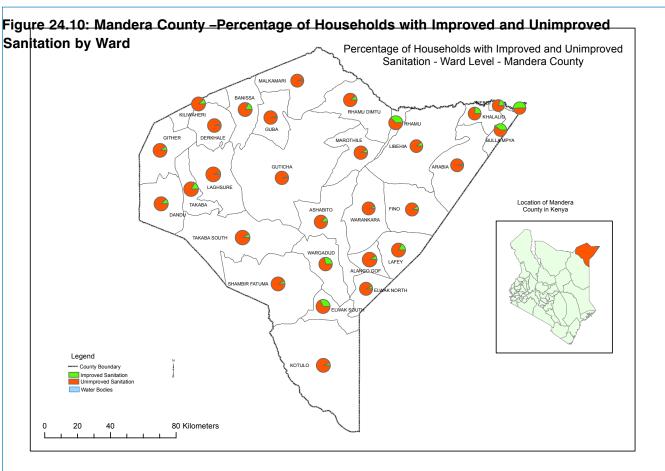
Figure 24.9: Mandera County-Percentage of Households with Improved and Unimproved Sources of water by Ward



Sanitation

Only 16% of residents in Mandera County use improved sanitation, while the rest use unimproved sanitation. Use of improved sanitation is slightly higher in female headed households at 21% compared with male headed households at 15%.

Mandera East constituency has the highest share of residents using improved sanitation at 33%. That is almost four times Banissa constituency, which has the lowest share using improved sanitation. Mandera East is 17 points above the county average. Township ward has the highest share of residents using improved sanitation at 51%. That is 17 times Guba ward, which has the lowest share using improved sanitation. Township is 35 percentage points above the county average. Figure 24.10: Mandera County –Percentage of Households with Improved and Unimproved Sanitation by Ward



Mandera County Annex Tables

24. MANDERA

Table 24.1: Gender, Age group, Demographic Indicators and Households Size by County Constituency and Wards

	Gender			Age group						Demographic indicators	ic indicators			Prortion o	Prortion of HH Members:	ers:	
County/Constituen- cy/Wards	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 de- pendancy ratio	0-3	4-6	1.4	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
Mandera County	1,022,794	557,647	465,147	173,659	549,218	331,030	301,187	454,509	19,067	1.199	1.250	1.208	0.042	3.0	17.9	79.1	120,077
Mandera West Constituency	160,701	86,519	74,182	27,611	90,286	54,798	44,098	67,523	2,892	1.166	1.380	1.337	0.043	9.0	8.2	91.2	17422
Takaba South	42,300	22,664	19,636	6,354	22,237	14,852	13,127	19,419	644	1.154	1.178	1.145	0.033	0.4	5.2	94.4	4316
Takaba	33,283	18,030	15,253	5,427	18,280	11,698	9,814	14,425	578	1.182	1.307	1.267	0.040	1.5	10.1	88.4	3469
Laghsure	14,756	7,684	7,072	2,499	8,311	5,279	4,106	6,229	216	1.087	1.369	1.334	0.035	0.1	2.1	97.9	1506
Dandu	37,404	20,695	16,709	7,363	22,784	12,394	8,482	13,847	773	1.239	1.701	1.645	0.056	9.0	7.0	92.6	4228
Gither	32,958	17,446	15,512	5,968	18,674	10,575	8,569	13,603	681	1.125	1.423	1.373	0.050	0.5	13.4	86.1	3903
Banissa Constit- uency	157,833	87,359	70,474	27,983	88,325	50,731	42,638	66,821	2,687	1.240	1.362	1.322	0.040	1.4	15.0	83.6	18876
Banissa	44,365	23,786	20,579	7,924	25,825	14,944	11,039	17,942	598	1.156	1.473	1.439	0.033	0.7	6.6	89.3	5146
Derkhale	32,078	17,780	14,298	6,255	18,919	10,231	7,962	12,672	487	1.244	1.531	1.493	0.038	0.3	12.6	87.1	3787
Guba	20,039	11,452	8,587	3,026	10,028	6,222	6,246	9,584	427	1.334	1.091	1.046	0.045	2.1	21.4	76.5	2490
Malkamari	27,581	15,784	11,797	4,659	14,521	8,556	8,338	12,565	495	1.338	1.195	1.156	0.039	4.2	27.0	8.8	3554
Kiliwaheri	33,770	18,557	15,213	6,119	19,032	10,778	9,053	14,058	089	1.220	1.402	1.354	0.048	0.5	9.1	90.5	3899

Mandera North Constituency	169,360	94,703	74,657	25,442	86,743	56,169	53,172	79,815	2,802	1.269	1.122	1.087	0.035	2.9	18.9	78.2	20170
Ashabito	43,415	23,954	19,461	7,101	22,460	13,608	13,394	20,251	704	1.231	1.144	1.109	0.035	3.6	21.0	75.5	5417
Guticha	33,649	18,973	14,676	4,607	16,840	11,460	10,710	16,270	539	1.293	1.068	1.035	0.033	1.3	19.5	79.2	4103
Marothile	13,550	7,650	5,900	2,053	7,052	4,390	4,045	6,259	239	1.297	1.165	1.127	0.038	6.0	14.9	84.2	1410
Rhamu	42,156	24,178	17,978	5,829	20,821	14,646	14,180	20,489	846	1.345	1.057	1.016	0.041	5.1	16.3	78.6	4846
Rhamu Dimtu	36,590	19,948	16,642	5,852	19,570	12,065	10,843	16,546	474	1.199	1.211	1.183	0.029	8:1	20.0	78.2	4394
Mandera South Constituency	247,038	130,144	116,894	44,641	137,377	79,660	69,222	104,976	4,685	1.113	1.353	1.309	0.045	1.2	15.5	83.3	28904
Wargadud	30,346	16,408	13,938	5,181	17,131	9,916	8,221	12,783	432	1.177	1.374	1.340	0.034	1.1	16.1	82.8	3673
Kotulo	70,298	36,235	34,063	13,517	40,378	22,821	18,228	28,514	1,406	1.064	1.465	1.416	0.049	6:0	11.9	87.1	7974
Elwak South	74,796	39,830	34,966	11,834	39,373	25,435	22,845	33,826	1,597	1.139	1.211	1.164	0.047	1.2	15.2	83.6	8595
Elwak North	27,345	14,169	13,176	5,350	14,729	7,644	8,092	12,143	473	1.075	1.252	1.213	0.039	2.6	27.7	9.69	3527
Shambir Fatuma	44,253	23,502	20,751	8,759	25,766	13,844	11,836	17,710	777	1.133	1.499	1.455	0.044	0.7	13.0	86.3	5135
Mandera East Constituency	134,775	71,930	62,845	23,076	65,684	40,987	45,591	65,549	3,542	1.145	1.056	1.002	0.054	10.9	28.2	6.09	16893
Arabia	27,263	15,373	11,890	4,109	14,177	8,630	960'8	12,646	440	1.293	1.156	1.121	0.035	3.3	29.1	9.79	3348
Bulla Mpya	36,725	19,211	17,514	6,376	17,699	11,207	12,434	17,798	1,228	1.097	1.063	0.994	0.069	10.9	25.7	63.4	4293
Khalalio	13,799	7,504	6,295	2,354	6,851	4,153	4,553	6,653	295	1.192	1.074	1.030	0.044	4.0	33.4 6	62.6	1746
Neboi	12,220	6,410	5,810	2,740	6,283	3,077	3,934	5,685	252	1.103	1.150	1.105	0.044	8.9	23.6	67.5	1293
Township	44,768	23,432	21,336	7,497	20,674	13,920	16,574	22,767	1,327	1.098	996:0	0.908	0.058	17.3	29.0	53.7	6213
Lafey Constituency	153,087	86,992	96,095	24,906	80,803	48,685	46,466	69,825	2,459	1.316	1.192	1.157	0.035	2.8	23.2	73.9	17812
Sala	49,098	27,713	21,385	7,872	24,760	14,897	15,895	23,560	778	1.296	1.084	1.051	0.033	4.8	32.2	63.0	6222

Fino	16,620	9,349	7,271	2,868	8,592	4,783	5,058	7,635	393	1.286	1.177	1.125	0.051	3.6	20.6	75.8	1641
Lafey	48,644	27,010	21,634	8,073	27,343	16,562	13,584	20,680	621	1.248	1.352	1.322	0:030	0.8	14.0	85.2	5503
Warankara	24,603	14,024	10,579	4,178	12,820	7,252	7,556	11,429	354	1.326	1.153	1.122	0.031	3.3	32.5	64.1	2988
Alango Gof	14,122	8,896	5,226	1,915	7,288	5,191	4,373	6,521	313	1.702	1.166	1.118	0.048	0.2	3.8	0.96	1458

Table 24.2: Employment by County, Constituency and Wards

County/Constituen-	Work for	Family	Family Ag-	Intern/	Retired/	Fulltime	Incapaci-		Number of Indi-
cy/Wards	pay	Business	Holding	Volunteer	Homemaker	Student	tated	No work	viduals
Kenya	23.7	13.1	32.0	1.1	9.2	12.8	0.5	7.7	20,249,800
Rural	15.6	11.2	43.5	1.0	8.8	13.0	0.5	6.3	12,984,788
Urban	38.1	16.4	11.4	1.3	9.9	12.2	0.3	10.2	7,265,012
Mandera County	7.1	12.4	37.1	1.2	12.0	13.3	0.4	16.5	454,509
Mandera West Constituency	7.5	10.7	50.1	1.1	5.1	13.7	0.5	11.4	67,523
Takaba South	5.5	16.1	40.4	1.0	7.1	14.6	0.4	15.1	19,419
Takaba	13.9	10.8	31.7	2.6	7.5	23.4	0.6	9.6	14,425
Laghsure	5.8	10.3	43.8	1.1	1.9	14.3	0.3	22.5	6,229
Dandu	7.4	9.1	60.5	0.4	4.3	10.3	0.5	7.5	13,847
Gither	4.3	5.0	75.7	0.5	1.9	5.2	0.7	6.7	13,603
Banissa Constit-									
uency	4.9	16.9	51.7	0.9	3.7	7.1	0.4	14.6	66,821
Banissa	5.5	20.2	48.8	0.9	3.0	12.3	0.2	9.2	17,942
Derkhale	5.2	15.5	60.1	0.5	2.5	5.9	0.4	9.9	12,672
Guba	4.3	11.5	41.4	1.2	10.6	8.7	0.9	21.5	9,584
Malkamari	7.0	16.8	56.2	1.1	3.9	2.9	0.5	11.6	12,565
Kiliwaheri	2.3	17.5	50.6	0.8	0.8	4.0	0.5	23.5	14,058
Mandera North Constituency	5.3	8.8	34.4	0.8	18.7	13.9	0.3	17.9	79,815
Ashabito	6.6	5.0	39.0	0.7	25.3	12.2	0.5	10.7	20,251
Guticha	3.2	8.6	61.6	0.7	14.6	4.7	0.2	6.5	16,270
Marothile	5.0	27.9	27.0	0.5	23.8	9.2	0.9	5.8	6,259
Rhamu	6.8	6.4	16.8	1.0	13.6	21.2	0.2	34.1	20,489
Rhamu Dimtu	4.1	9.4	26.9	0.7	19.0	17.6	0.2	22.1	16,546
Mandera South Constituency	8.8	11.7	27.7	1.1	18.5	18.6	0.5	13.0	104,976
Wargadud	5.6	4.8	45.3	0.9	8.1	16.6	0.3	18.5	12,783
Kotulo	6.6	16.9	21.0	0.9	25.1	16.3	0.7	12.5	28,514
Elwak South	11.8	14.6	19.6	1.3	16.8	22.4	0.5	13.0	33,826
Elwak North	11.5	8.4	37.9	1.2	13.4	17.6	0.8	9.2	12,143
Shambir Fatuma	7.3	4.8	34.3	1.0	22.3	17.2	0.4	12.7	17,710
Mandera East Constituency	11.2	15.8	23.0	2.1	11.1	15.0	0.4	21.3	65,549
Arabia	5.6	25.9	40.7	1.3	6.1	2.2	0.1	18.2	12,646
Bulla Mpya	11.8	10.1	12.7	2.7	14.6	19.9	0.3	27.8	17,798
Khalalio	8.1	17.0	50.7	1.2	4.5	5.4	1.1	12.1	6,653
Neboi	12.5	14.6	39.7	3.3	6.3	9.1	0.2	14.4	5,685
Township	14.4	14.7	9.1	2.2	14.3	22.6	0.6	22.2	22,767
Lafey Constituency	4.1	12.0	41.2	1.1	10.0	8.9	0.3	22.3	69,825
Sala	4.3	13.2	52.7	0.8	7.9	4.9	0.2	16.0	23,560
Fino	4.0	5.0	56.0	1.4	15.9	2.5	0.2	15.1	7,635
Lafey	4.1	13.9	22.6	1.5	12.2	15.4	0.5	29.7	20,680
Warankara	3.8	9.9	55.1	0.9	0.6	5.8	0.2	23.7	11,429
Alango Gof	4.3	13.3	17.4	1.3	19.6	15.8	0.8	27.5	6,521

Table 24.3: Employment and Education Levels by County, Constituency and Wards

County /constituency/Wards	Education Totallevel	Work for pay	Family Business	Family Agri- cultural Holding	Intern/Vol- unteer	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
Mandera	Total	7.1	12.4	37.1	1.2	12.0	13.3	0.4	16.5	454,509
Mandera	None	6.5	14.2	43.4	1.2	14.6	2.1	0.5	17.7	353,286
Mandera	Primary	5.4	7.1	18.4	1.1	3.8	51.5	0.2	12.6	59,755
Mandera	Secondary+	14.4	5.5	11.1	1.1	1.6	54.4	0.1	11.8	41,468
Mandera West Constituency	Total	7.5	10.7	50.1	1.1	5.1	13.7	0.5	11.4	67,523
Mandera West Constituency	None	7.1	12.1	59.8	1.1	6.2	1.1	0.7	11.9	51,324
Mandera West Constituency	Primary	4.9	6.4	22.2	1.1	1.7	53.3	0.1	10.2	9,573
Mandera West Constituency	Secondary+	13.8	6.4	15.4	1.0	0.8	53.7	0.1	9.0	6,626
Takaba South Wards	Total	5.5	16.1	40.4	1.0	7.1	14.6	0.4	15.1	19,419
Takaba South Wards	None	5.4	18.3	47.9	1.0	9.3	0.8	0.6	16.8	14,133
Takaba South Wards	Primary	3.6	10.0	22.0	0.9	1.4	50.5	0.0	11.5	2,778
Takaba South Wards	Secondary+	7.7	10.3	18.1	1.0	0.8	52.6	-	9.5	2,508
Takaba Wards	Total	13.9	10.8	31.7	2.6	7.5	23.4	0.6	9.6	14,425
Takaba Wards	None	13.9	14.5	42.4	3.2	10.5	3.0	1.0	11.5	9,072
Takaba Wards	Primary	6.4	5.2	17.9	1.7	3.5	60.1	0.1	5.1	2,772
Takaba Wards	Secondary+	22.1	3.7	8.9	1.3	1.2	55.4	0.0	7.5	2,581

Laghsure Wards	Total	5.8	10.3	43.8	1.1	1.9	14.3	0.3	22.5	6,229
Laghsure Wards	None	5.4	11.8	54.1	1.2	2.6	0.7	0.4	24.1	4,320
Laghsure Wards	Primary	4.8	6.3	19.9	1.0	0.4	48.2	0.3	19.1	1,179
Laghsure Wards	Secondary+	10.0	8.2	21.2	0.7	0.4	40.6	-	18.9	730
Dandu Wards	Total	7.4	9.1	60.5	0.4	4.3	10.3	0.5	7.5	13,847
Dandu Wards	None	7.5	9.9	67.9	0.3	4.9	1.1	0.5	7.9	11,887
Dandu Wards	Primary	5.8	5.4	17.3	1.2	1.4	62.8	0.2	6.0	1,371
Dandu Wards	Secondary+	9.2	1.2	12.9	0.3	0.3	73.2	0.2	2.7	589
Gither Wards	Total	4.3	5.0	75.7	0.5	1.9	5.2	0.7	6.7	13,603
Gither Wards	None	4.3	5.3	81.1	0.5	2.1	0.2	0.8	5.8	11,912
Gither Wards	Primary	4.0	2.9	36.7	0.5	0.3	41.0	0.2	14.3	1,473
Gither Wards	Secondary+	9.2	1.8	47.3	0.5	-	36.2	0.9	4.1	218
Banissa Constituency	Total	4.9	16.9	51.7	0.9	3.7	7.1	0.4	14.6	66,821
Banissa Constituency	None	4.4	18.1	56.2	0.9	4.3	0.9	0.5	14.7	55,830
Banissa Constituency	Primary	3.6	11.7	31.8	0.9	0.9	35.4	0.2	15.5	7,267
Banissa Constituency	Secondary+	13.9	8.3	22.0	0.8	0.6	44.0	0.1	10.4	3,724
Banissa Wards	Total	5.5	20.2	48.8	0.9	3.0	12.3	0.2	9.2	17,942
Banissa Wards	None	4.0	23.0	57.7	0.9	3.8	1.2	0.2	9.1	13,633
Banissa Wards	Primary	4.6	12.5	25.9	0.7	0.7	46.2	0.0	9.5	2,441
Banissa Wards	Secondary+	17.2	9.5	13.5	0.6	0.4	49.1	-	9.6	1,868
Derkhale Wards	Total	5.2	15.5	60.1	0.5	2.5	5.9	0.4	9.9	12,672
Derkhale Wards	None	5.2	16.5	64.6	0.4	2.8	1.1	0.4	9.0	10,811
Derkhale Wards	Primary	2.5	10.8	37.3	0.7	0.6	31.3	0.6	16.2	1,424
Derkhale Wards	Secondary+	15.1	6.2	22.7	2.1	0.2	43.3	-	10.5	437
Guba Wards	Total	4.3	11.5	41.4	1.2	10.6	8.7	0.9	21.5	9,584
Guba Wards	None	4.2	12.7	43.9	1.2	12.3	1.2	1.0	23.7	8,042
Guba Wards	Primary	4.4	6.7	28.7	1.6	2.3	44.3	0.4	11.6	924
Guba Wards	Secondary+	5.3	3.9	28.0	0.2	1.8	52.9	0.3	7.6	618
Malkamari Wards	Total	7.0	16.8	56.2	1.1	3.9	2.9	0.5	11.6	12,565
Malkamari Wards	None	7.0	17.1	57.7	1.2	4.2	0.4	0.5	11.9	11,130
Malkamari Wards	Primary	4.3	15.7	44.4	0.7	1.3	23.9	0.1	9.6	1,048

Malkamari Wards	Secondary+	14.0	10.1	47.6	1.0	-	18.1	-	9.3	387
Kiliwaheri Wards	Total	2.3	17.5	50.6	0.8	0.8	4.0	0.5	23.5	14,058
Kiliwaheri Wards	None	2.1	18.4	53.9	0.8	0.9	0.7	0.6	22.6	12,214
Kiliwaheri Wards	Primary	2.0	11.5	29.4	0.9	0.4	23.9	-	31.8	1,430
Kiliwaheri Wards	Secondary+	10.4	10.1	26.8	0.7	0.5	32.6	-	18.8	414
Mandera North Constituency	Total	5.3	8.8	34.4	0.8	18.7	13.9	0.3	17.9	79,815
Mandera North Constituency	None	4.8	10.0	40.6	0.7	22.5	1.5	0.4	19.5	63,594
Mandera North Constituency	Primary	4.2	4.4	12.8	1.0	4.4	61.6	0.2	11.5	8,735
Mandera North Constituency	Secondary+	10.9	3.5	7.6	1.1	2.5	63.2	0.1	11.2	7,486
Ashabito Wards	Total	6.6	5.0	39.0	0.7	25.3	12.2	0.5	10.7	20,251
Ashabito Wards	None	5.8	5.5	44.7	0.7	29.4	2.4	0.6	10.9	16,544
Ashabito Wards	Primary	5.6	3.6	17.5	0.8	9.1	53.2	0.3	9.9	1,949
Ashabito Wards	Secondary+	14.7	2.3	8.9	0.6	4.6	59.3	0.1	9.6	1,758
Guticha Wards	Total	3.2	8.6	61.6	0.7	14.6	4.7	0.2	6.5	16,270
Guticha Wards	None	3.1	8.2	64.4	0.5	15.6	1.7	0.2	6.4	15,007
Guticha Wards	Primary	3.6	12.7	28.0	1.2	2.2	43.4	-	8.9	908
Guticha Wards	Secondary+	9.6	14.1	29.6	3.9	1.4	34.1	-	7.3	355
Marothile Wards	Total	5.0	27.9	27.0	0.5	23.8	9.2	0.9	5.8	6,259
Marothile Wards	None	4.4	30.8	29.5	0.5	26.6	1.1	1.0	6.1	5,541
Marothile Wards	Primary	5.4	7.1	7.4	0.6	3.4	73.4	0.3	2.6	353
Marothile Wards	Secondary+	13.7	4.1	8.2	0.3	0.3	69.6	-	3.8	365
Rhamu Wards	Total	6.8	6.4	16.8	1.0	13.6	21.2	0.2	34.1	20,489
Rhamu Wards	None	6.5	8.0	21.4	0.9	18.9	0.9	0.2	43.2	13,710
Rhamu Wards	Primary	4.7	3.3	9.9	1.1	3.7	60.5	0.2	16.6	3,169
Rhamu Wards	Secondary+	9.9	2.8	5.1	1.2	2.0	63.9	0.1	15.0	3,610
Rhamu Dimtu Wards	Total	4.1	9.4	26.9	0.7	19.0	17.6	0.2	22.1	16,546
Rhamu Dimtu Wards	None	4.0	11.1	32.7	0.7	23.8	1.1	0.3	26.4	12,792
Rhamu Dimtu Wards	Primary	2.2	3.1	7.8	0.9	2.6	75.3	-	8.2	2,356
Rhamu Dimtu Wards	Secondary+	8.4	3.9	6.3	0.9	2.0	72.2	-	6.3	1,398
Mandera South Constituency	Total	8.8	11.7	27.7	1.1	18.5	18.6	0.5	13.0	104,976
Mandera South Constituency	None	8.4	13.7	33.9	1.1	23.3	4.2	0.7	14.8	79,246

Mandera South Constituency	Primary	6.4	6.3	11.4	1.1	5.8	61.5	0.1	7.4	14,283
Mandera South Constituency	Secondary+	14.9	4.3	5.5	0.9	1.6	65.1	_	7.8	11,447
Wargadud Wards	Total	5.6	4.8	45.3	0.9	8.1	16.6	0.3	18.5	12,783
Wargadud Wards	None	4.9	5.3	54.4	0.8	9.9	2.9	0.3	21.5	10,087
Wargadud Wards	Primary	4.5	4.0	14.6	1.5	2.2	66.9	_	6.3	1,486
Wargadud Wards	Secondary+	12.7	1.7	7.4	1.4	0.3	69.0	_	7.6	1,210
Kotulo Wards	Total	6.6	16.9	21.0	0.9	25.1	16.3	0.7	12.5	28,514
Kotulo Wards	None	6.1	19.4	25.0	0.9	29.6	5.3	0.9	12.9	23,003
Kotulo Wards	Primary	5.5	7.3	5.0	0.8	7.9	61.4	0.1	12.0	3,488
Kotulo Wards	Secondary+	15.1	5.8	2.8	0.8	3.5	63.9	-	8.2	2,023
Elwak South Wards	Total	11.8	14.6	19.6	1.3	16.8	22.4	0.5	13.0	33,826
Elwak South Wards	None	11.9	18.6	25.3	1.5	22.9	3.5	0.6	15.7	23,407
Elwak South Wards	Primary	6.3	7.0	9.2	1.2	4.8	66.3	0.1	5.1	5,243
Elwak South Wards	Secondary+	16.9	4.6	4.0	0.9	1.4	63.7	-	8.5	5,176
Elwak North Wards	Total	11.5	8.4	37.9	1.2	13.4	17.6	0.8	9.2	12,143
Elwak North Wards	None	10.8	9.7	46.5	1.3	17.4	3.4	1.0	10.0	8,728
Elwak North Wards	Primary	11.3	6.3	20.3	1.0	5.9	47.8	0.1	7.5	1,688
Elwak North Wards	Secondary+	15.1	4.2	11.8	0.9	1.0	59.7	-	7.3	1,727
Shambir Fatuma Wards	Total	7.3	4.8	34.3	1.0	22.3	17.2	0.4	12.7	17,710
Shambir Fatuma Wards	None	7.5	5.1	39.8	1.0	26.9	4.8	0.5	14.4	14,021
Shambir Fatuma Wards	Primary	5.6	4.3	17.5	1.0	7.3	57.7	0.1	6.5	2,378
Shambir Fatuma Wards	Secondary+	8.3	2.8	5.6	0.5	1.2	75.7	-	5.8	1,311
Mandera East Constituency	Total	11.2	15.8	23.0	2.1	11.1	15.0	0.4	21.3	65,549
Mandera East Constituency	None	10.5	19.7	27.8	2.4	14.5	1.7	0.6	22.9	44,234
Mandera East Constituency	Primary	7.7	8.3	15.7	1.6	5.4	43.8	0.3	17.2	12,739
Mandera East Constituency	Secondary+	20.1	7.3	9.3	1.7	2.1	40.9	0.1	18.6	8,576
Arabia Wards	Total	5.6	25.9	40.7	1.3	6.1	2.2	0.1	18.2	12,646
Arabia Wards	None	5.5	28.4	41.9	1.3	6.8	0.1	0.1	16.1	11,193
Arabia Wards	Primary	5.6	7.9	34.1	0.7	1.9	16.9	0.1	32.7	993
Arabia Wards	Secondary+	7.6	3.7	26.5	1.7	0.4	20.4	-	39.6	460
Bulla Mpya Wards	Total	11.8	10.1	12.7	2.7	14.6	19.9	0.3	27.8	17,798

Bulla Mpya Wards	None	11.9	12.2	15.3	3.1	20.7	3.2	0.4	33.2	11,333
Bulla Mpya Wards	Primary	8.1	6.6	8.6	2.0	5.1	51.6	0.2	17.8	4,134
Bulla Mpya Wards	Secondary+	18.0	6.0	7.4	2.4	2.0	45.0	0.0	19.3	2,331
Khalalio Wards	Total	8.1	17.0	50.7	1.2	4.5	5.4	1.1	12.1	6,653
Khalalio Wards	None	8.3	18.9	52.1	1.3	5.2	0.3	1.2	12.7	5,527
Khalalio Wards	Primary	3.5	8.3	47.4	0.3	1.1	30.8	0.5	8.3	811
Khalalio Wards	Secondary+	16.2	6.0	35.2	1.0	-	29.2	0.3	12.1	315
Neboi Wards	Total	12.5	14.6	39.7	3.3	6.3	9.1	0.2	14.4	5,685
Neboi Wards	None	13.9	16.3	41.7	3.8	7.9	0.5	0.2	15.8	4,234
Neboi Wards	Primary	8.3	10.9	36.5	1.8	2.1	30.6	0.3	9.6	1,100
Neboi Wards	Secondary+	9.4	5.7	24.8	1.7	0.3	45.9	-	12.3	351
Township Wards	Total	14.4	14.7	9.1	2.2	14.3	22.6	0.6	22.2	22,767
Township Wards	None	13.6	20.2	10.3	2.8	22.6	2.8	0.9	26.9	11,947
Township Wards	Primary	8.2	9.0	9.2	1.6	7.4	47.3	0.4	16.9	5,701
Township Wards	Secondary+	23.1	8.4	5.9	1.5	2.5	41.2	0.1	17.3	5,119
Lafey Constituency	Total	4.1	12.0	41.2	1.1	10.0	8.9	0.3	22.3	69,825
Lafey Constituency	None	4.0	13.2	44.3	1.2	11.5	2.1	0.4	23.4	59,058
Lafey Constituency	Primary	3.1	5.9	25.4	0.7	1.9	46.4	0.1	16.5	7,158
Lafey Constituency	Secondary+	8.2	4.5	22.0	0.9	1.4	46.4	0.1	16.5	3,609
Sala Wards	Total	4.3	13.2	52.7	0.8	7.9	4.9	0.2	16.0	23,560
Sala Wards	None	4.1	13.8	54.7	0.8	9.0	1.0	0.2	16.4	20,067
Sala Wards	Primary	4.7	10.7	43.2	0.7	2.2	28.0	0.1	10.5	2,163
Sala Wards	Secondary+	6.3	8.3	37.7	0.6	1.0	26.6	0.1	19.5	1,330
Fino Wards	Total	4.0	5.0	56.0	1.4	15.9	2.5	0.2	15.1	7,635
Fino Wards	None	3.5	5.1	57.9	1.3	16.5	0.1	0.2	15.4	6,925
Fino Wards	Primary	4.6	5.5	38.8	0.9	12.1	25.1	-	13.0	438
Fino Wards	Secondary+	16.2	1.8	36.0	2.6	7.0	26.8	-	9.6	272
Lafey Wards	Total	4.1	13.9	22.6	1.5	12.2	15.4	0.5	29.7	20,680
Lafey Wards	None	4.2	16.8	26.1	1.7	15.0	2.5	0.5	33.3	16,679
Lafey Wards	Primary	2.2	2.6	9.1	0.5	0.7	67.9	0.2	16.8	2,648
Lafey Wards	Secondary+	6.5	1.4	7.0	0.6	0.8	71.8	0.3	11.7	1,353

Warankara Wards	Total	3.8	9.9	55.1	0.9	0.6	5.8	0.2	23.7	11,429
Walalikala Walus	IUIAI	3.0	9.9	33.1	0.9	0.0	5.0	0.2	23.1	11,429
Warankara Wards	None	3.6	10.7	60.1	0.9	0.7	0.7	0.2	23.1	9,790
Warankara Wards	Primary	2.6	5.1	27.2	1.1	0.3	37.8	0.1	25.9	1,184
Warankara Wards	Secondary+	11.4	5.5	18.9	1.5	0.7	32.8	-	29.2	455
Alango Gof Wards	Total	4.3	13.3	17.4	1.3	19.6	15.8	0.8	27.5	6,521
Alango Gof Wards	None	4.3	14.8	17.4	1.4	22.5	9.7	1.0	29.0	5,597
Alango Gof Wards	Primary	1.8	5.1	20.8	0.8	1.5	49.9	-	20.0	725
Alango Gof Wards	Secondary+	13.6	1.5	7.0	0.5	2.0	64.8	-	10.6	199

Table 24.4: Employment and Education Levels in Male Headed Household by County, Constituency and Wards

County, Constituency and Wards	Education Level reached	Work for Pay	Family Business	Family Agri- cultural holding	Inter- nal/ Volun- teer	Retired/ Home- maker	Fulltime Student	Incapaci- tated	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
Mandera	Total	7.1	12.6	38.5	1.1	11.8	12.4	0.4	16.1	376,125
Mandera	None	6.4	14.2	44.5	1.1	14.2	2.0	0.5	17.1	296,826
Mandera	Primary	5.5	7.3	19.2	1.1	3.7	50.3	0.1	12.8	46,728
Mandera	Secondary+	15.7	5.7	11.4	1.1	1.5	53.1	0.1	11.4	32,571
Mandera West Constituency	Total	7.5	10.8	50.7	1.0	5.1	13.0	0.5	11.4	57,482
Mandera West Constituency	None	7.2	12.1	60.2	1.0	6.2	1.0	0.6	11.8	43,949
Mandera West Constituency	Primary	4.9	6.6	22.3	1.2	1.8	52.4	0.1	10.8	7,932

Mandera West Constituency	Secondary+	14.2	6.9	16.3	1.1	0.8	51.6	0.1	9.2	5,601
Takaba South Ward	Total	5.5	15.8	40.5	0.9	7.4	14.0	0.4	15.5	17,239
Takaba South Ward	None	5.5	17.7	47.8	0.9	9.7	0.8	0.5	17.1	12,628
Takaba South Ward	Primary	3.5	10.0	21.7	0.9	1.5	50.1	0.0	12.3	2,405
Takaba South Ward	Secondary+	7.6	10.9	19.1	1.1	0.6	50.5	-	10.2	2,206
Takaba Ward	Total	14.6	10.7	32.3	2.4	7.5	22.6	0.5	9.3	11,615
Takaba Ward	None	14.5	14.4	43.0	3.0	10.4	2.7	0.8	11.2	7,317
Takaba Ward	Primary	6.5	5.0	18.7	1.8	3.8	59.0	-	5.2	2,212
Takaba Ward	Secondary+	23.7	3.8	9.4	1.3	1.2	53.6	0.0	6.8	2,086
Laghsure Ward	Total	5.7	11.2	43.7	1.0	1.8	13.6	0.3	22.7	5,327
Laghsure Ward	None	5.1	12.7	54.1	1.0	2.4	0.6	0.4	23.6	3,701
Laghsure Ward	Primary	4.6	6.8	19.0	1.1	0.5	46.8	0.3	20.8	994
Laghsure Ward	Secondary+	10.8	9.2	21.5	0.6	0.5	37.3	-	20.1	632
Dandu Ward	Total	7.5	9.3	61.4	0.4	3.9	9.8	0.4	7.3	12,018
Dandu Ward	None	7.6	10.1	68.6	0.3	4.4	1.0	0.4	7.6	10,363
Dandu Ward	Primary	5.6	5.6	17.8	1.5	1.0	61.8	0.2	6.5	1,157
Dandu Ward	Secondary+	10.2	1.2	13.5	0.4	0.4	71.3	0.2	2.8	498
Gither Ward	Total	4.2	4.7	77.0	0.4	1.8	4.9	0.7	6.2	11,283
Gither Ward	None	4.2	5.0	82.1	0.4	2.0	0.2	0.7	5.4	9,940
Gither Ward	Primary	3.9	3.3	37.8	0.4	0.3	40.2	0.2	13.9	1,164
Gither Ward	Secondary+	7.3	1.7	50.3	0.6	-	36.9	1.1	2.2	179
Banissa Constituency	Total	5.0	16.8	52.3	0.8	3.5	6.8	0.4	14.4	57,130
Banissa Constituency	None	4.5	18.0	56.9	0.8	4.0	0.9	0.5	14.5	47,907
Banissa Constituency	Primary	3.8	11.4	31.9	0.9	1.0	35.0	0.2	15.8	6,160
Banissa Constituency	Secondary+	14.8	8.4	22.4	0.8	0.7	42.8	0.1	10.1	3,063
Banissa Ward	Total	5.8	20.5	48.7	0.8	2.7	12.3	0.2	9.0	15,215
Banissa Ward	None	4.3	23.5	57.6	0.9	3.4	1.2	0.2	8.9	11,629
Banissa Ward	Primary	5.2	11.7	25.3	0.8	0.6	47.2	0.0	9.2	2,062
Banissa Ward	Secondary+	18.8	9.1	12.7	0.5	0.4	49.5	-	9.0	1,524
Derkhale Ward	Total	5.4	15.7	60.0	0.5	2.5	5.7	0.3	9.8	11,190
Derkhale Ward	None	5.3	16.8	64.3	0.4	2.9	1.2	0.3	8.8	9,574

Derkhale Ward	Primary	2.6	10.6	38.1	0.6	0.6	29.7	0.6	17.2	1,234
Derkhale Ward	Secondary+	16.0	5.5	23.8	2.1	0.3	42.4	-	9.9	382
Guba Ward	Total	4.0	11.8	43.7	1.2	9.8	7.9	0.8	20.9	7,855
Guba Ward	None	3.9	12.9	46.0	1.1	11.1	1.1	0.9	22.9	6,617
Guba Ward	Primary	3.9	6.8	30.7	1.8	2.4	42.4	0.3	11.7	762
Guba Ward	Secondary+	5.3	4.4	31.9	0.2	2.3	47.5	0.4	8.0	476
Malkamari Ward	Total	7.1	17.1	56.3	1.1	3.8	2.8	0.5	11.4	10,789
Malkamari Ward	None	7.1	17.3	57.8	1.1	4.1	0.4	0.5	11.6	9,583
Malkamari Ward	Primary	4.3	16.5	43.9	0.7	1.6	23.6	0.1	9.2	877
Malkamari Ward	Secondary+	13.1	11.6	47.4	1.2	-	17.3	-	9.4	329
Kiliwaheri Ward	Total	2.4	16.0	51.8	0.7	0.8	3.8	0.5	23.9	12,081
Kiliwaheri Ward	None	2.1	16.7	55.3	0.7	0.9	0.6	0.6	23.0	10,504
Kiliwaheri Ward	Primary	2.2	11.0	29.2	0.9	0.5	23.2	-	33.0	1,225
Kiliwaheri Ward	Secondary+	10.8	11.1	27.0	0.6	0.6	31.8	-	18.2	352
Mandera North Constituency	Total	5.4	8.9	36.4	0.7	18.4	12.9	0.3	17.0	65,404
Mandera North Constituency	None	4.9	10.0	42.3	0.7	21.9	1.4	0.4	18.4	52,954
Mandera North Constituency	Primary	4.3	4.6	13.6	1.0	4.4	60.6	0.1	11.3	6,656
Mandera North Constituency	Secondary+	11.9	3.5	7.7	1.1	2.1	63.1	0.1	10.5	5,794
Ashabito Ward	Total	7.0	4.7	40.7	0.7	24.7	11.5	0.5	10.2	16,962
Ashabito Ward	None	6.2	5.1	46.4	0.7	28.5	2.2	0.5	10.3	14,012
Ashabito Ward	Primary	5.6	3.7	18.3	0.8	9.2	52.3	0.3	9.8	1,562
Ashabito Ward	Secondary+	16.0	2.0	8.7	0.6	3.7	59.5	0.1	9.4	1,388
Guticha Ward	Total	3.2	8.3	64.1	0.6	13.3	4.0	0.2	6.2	13,753
Guticha Ward	None	3.0	8.0	66.7	0.4	14.2	1.4	0.2	6.0	12,751
Guticha Ward	Primary	4.0	12.5	30.8	1.3	2.1	39.3	-	9.9	704
Guticha Ward	Secondary+	10.4	13.8	31.5	4.7	1.3	31.2	-	7.0	298
Marothile Ward	Total	4.8	28.7	26.6	0.5	23.6	9.2	0.8	5.9	5,395
Marothile Ward	None	4.2	31.7	29.0	0.5	26.5	1.0	0.9	6.2	4,772
Marothile Ward	Primary	4.0	7.4	7.7	-	2.7	74.8	0.3	3.0	298
Marothile Ward	Secondary+	13.2	4.3	8.3	0.3	0.3	69.2	-	4.3	325
Rhamu Ward	Total	7.4	6.5	17.6	1.0	13.3	20.1	0.1	34.0	15,627

Rhamu Ward None 6.9 8.1 22.3 0.9 18.2 0.8 0.2 42.6 Rhamu Ward Primary 5.4 3.3 10.0 1.2 3.4 60.0 0.1 16.6 Rhamu Ward Secondary+ 10.9 2.8 4.9 1.2 1.8 64.0 0.1 14.2 Rhamu Dimtu Ward Total 3.8 9.7 28.3 0.7 19.3 16.7 0.2 21.2	10,702 2,255 2,670
Rhamu Ward Secondary+ 10.9 2.8 4.9 1.2 1.8 64.0 0.1 14.2	<u> </u>
	2,670
Rhamu Dimtu Ward Total 3.8 9.7 28.3 0.7 19.3 16.7 0.2 21.2	
	13,667
Rhamu Dimtu Ward None 3.6 11.3 34.0 0.7 24.0 1.1 0.3 25.0	10,717
Rhamu Dimtu Ward Primary 1.9 3.5 8.3 1.0 2.8 74.3 - 8.1	1,837
Rhamu Dimtu Ward Secondary+ 9.3 4.0 6.5 0.6 1.5 72.1 - 5.9	1,113
Mandera South Constituency Total 9.1 11.9 28.3 1.0 18.6 17.9 0.5 12.7	87,219
Mandera South Constituency None 8.5 14.0 34.3 1.0 23.2 4.1 0.7 14.2	66,570
Mandera South Constituency Primary 6.6 6.2 11.6 1.0 5.6 61.3 0.1 7.6	11,452
Mandera South Constituency Secondary+ 16.7 4.4 5.4 0.8 1.6 63.5 - 7.5	9,197
Wargadud Ward Total 5.9 4.9 46.8 0.8 8.1 16.0 0.2 17.3	10,567
Wargadud Ward None 4.8 5.4 56.0 0.7 9.9 2.9 0.3 20.1	8,413
Wargadud Ward Primary 5.2 4.0 14.0 1.3 2.2 66.6 - 6.6	1,163
Wargadud Ward Secondary+ 16.0 1.7 7.1 1.2 0.3 67.0 - 6.7	991
Kotulo Ward Total 6.7 17.6 21.6 0.8 24.9 15.5 0.7 12.2	24,507
Kotulo Ward None 6.1 19.9 25.4 0.8 29.1 5.2 0.8 12.6	20,029
Kotulo Ward Primary 5.5 7.2 5.2 0.7 7.6 61.4 0.1 12.4	2,849
Kotulo Ward Secondary+ 15.8 6.4 3.0 0.9 3.8 61.8 - 8.3	1,629
Elwak South Ward Total 12.5 14.6 19.8 1.3 17.0 21.6 0.5 12.6	27,884
Elwak South Ward None 12.2 18.4 25.5 1.4 23.1 3.5 0.6 15.2	19,471
Elwak South Ward Primary 6.9 6.8 9.5 1.3 4.6 65.6 0.0 5.4	4,240
Elwak South Ward Secondary+ 19.7 4.8 3.8 0.8 1.3 61.8 - 7.8	4,173
Elwak North Ward Total 11.5 8.2 38.5 1.1 13.7 17.2 0.8 9.1	10,120
Elwak North Ward None 11.0 9.2 47.2 1.2 17.6 3.2 1.0 9.6	7,326
Elwak North Ward Primary 11.1 6.7 20.6 0.9 6.0 47.1 0.1 7.6	1,357
Elwak North Ward Secondary+ 14.6 4.3 11.2 0.9 1.0 60.5 - 7.5	1,437
Shambir Fatuma Ward Total 7.3 4.9 35.5 0.9 22.0 16.4 0.4 12.7	14,141
Shambir Fatuma Ward None 7.5 5.2 40.8 0.9 26.3 4.5 0.5 14.3	11,331
Shambir Fatuma Ward Primary 5.5 4.2 18.0 0.7 6.8 58.5 0.1 6.2	1,843
Shambir Fatuma Ward Secondary+ 9.0 2.7 5.9 0.5 0.9 75.2 - 5.8	967

Mandera East Constituency	Total	11.7	16.9	24.8	2.0	10.5	12.7	0.4	20.9	47,999
Mandera East Constituency	None	10.5	20.4	29.5	2.2	13.4	1.3	0.5	22.2	33,527
Mandera East Constituency	Primary	8.3	9.4	17.3	1.7	5.3	40.3	0.3	17.4	8,562
Mandera East Constituency	Secondary+	23.4	7.9	9.1	1.6	2.0	37.3	0.1	18.5	5,910
Arabia Ward	Total	5.4	26.1	41.2	1.2	6.1	1.9	0.1	18.0	11,066
Arabia Ward	None	5.4	28.5	42.3	1.2	6.7	0.1	0.1	15.7	9,831
Arabia Ward	Primary	4.7	8.5	35.8	0.8	2.1	15.2	-	32.8	847
Arabia Ward	Secondary+	6.7	3.9	26.5	1.3	0.3	18.3	-	43.0	388
Bulla Mpya Ward	Total	12.4	10.8	12.6	2.8	14.4	17.9	0.4	28.7	12,350
Bulla Mpya Ward	None	12.4	12.7	14.9	3.0	20.0	2.6	0.4	34.0	8,062
Bulla Mpya Ward	Primary	8.5	7.8	9.1	2.2	5.3	49.4	0.3	17.5	2,719
Bulla Mpya Ward	Secondary+	19.6	6.4	6.9	2.5	1.8	42.1	0.1	20.7	1,569
Khalalio Ward	Total	8.2	17.7	50.0	1.1	4.7	5.3	1.1	12.0	5,379
Khalalio Ward	None	8.1	19.6	51.4	1.3	5.4	0.3	1.3	12.6	4,533
Khalalio Ward	Primary	4.4	8.8	46.5	0.2	1.1	31.4	-	7.6	617
Khalalio Ward	Secondary+	18.8	3.9	32.3	0.9	-	32.8	-	11.4	229
Neboi Ward	Total	12.5	14.7	40.1	3.2	6.3	9.5	0.1	13.7	4,379
Neboi Ward	None	13.9	16.5	42.7	3.8	7.8	0.5	0.1	14.8	3,263
Neboi Ward	Primary	8.5	10.7	35.2	1.6	2.5	32.0	0.2	9.3	838
Neboi Ward	Secondary+	8.3	5.0	24.1	1.1	0.4	47.5	-	13.7	278
Township Ward	Total	16.8	15.6	9.0	2.0	14.0	20.1	0.6	21.8	14,825
Township Ward	None	14.9	20.5	10.3	2.4	21.8	2.6	0.9	26.7	7,838
Township Ward	Primary	9.7	10.7	9.9	1.8	7.5	42.8	0.4	17.2	3,541
Township Ward	Secondary+	28.6	9.6	5.4	1.4	2.6	36.8	0.1	15.6	3,446
Lafey Constituency	Total	4.1	12.0	41.5	1.1	10.1	8.4	0.3	22.4	60,891
Lafey Constituency	None	4.0	13.2	44.5	1.2	11.5	2.1	0.3	23.3	51,919
Lafey Constituency	Primary	3.2	5.8	25.8	0.8	2.0	45.1	0.1	17.2	5,966
Lafey Constituency	Secondary+	8.5	4.7	21.7	0.8	1.5	45.8	0.1	16.8	3,006
Sala Ward	Total	4.2	13.4	52.0	0.8	8.1	4.9	0.2	16.5	20,631
Sala Ward	None	4.0	13.9	54.0	0.8	9.1	1.1	0.2	16.9	17,671
Sala Ward	Primary	4.9	10.9	42.7	0.8	2.1	28.0	0.1	10.6	1,810

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Sala Ward	Secondary+	6.5	8.4	35.1	0.5	1.0	27.4	-	21.0	1,150
Fino Ward	Total	4.0	4.8	55.9	1.5	16.3	2.6	0.0	14.8	6,660
Fino Ward	None	3.5	4.9	57.8	1.4	16.8	0.1	0.0	15.3	6,054
Fino Ward	Primary	4.7	4.5	38.2	1.1	13.4	27.1	-	11.1	380
Fino Ward	Secondary+	15.0	2.2	34.5	3.1	8.0	27.9	-	9.3	226
Lafey Ward	Total	4.1	14.4	23.4	1.5	12.4	14.0	0.4	30.0	17,698
Lafey Ward	None	4.2	17.0	26.4	1.7	14.9	2.3	0.4	33.1	14,503
Lafey Ward	Primary	2.1	2.7	10.1	0.7	0.9	64.6	0.1	18.8	2,128
Lafey Ward	Secondary+	6.8	1.5	8.0	0.3	0.8	71.6	0.4	10.6	1,067
Warankara Ward	Total	3.9	9.6	56.5	0.9	0.6	5.4	0.2	22.8	10,111
Warankara Ward	None	3.7	10.4	61.4	0.8	0.7	0.7	0.2	22.3	8,730
Warankara Ward	Primary	2.9	4.6	28.2	1.1	0.2	37.5	0.1	25.5	1,004
Warankara Ward	Secondary+	12.5	5.6	19.6	1.9	0.8	30.8	-	28.9	377
Alango Gof Ward	Total	4.2	12.7	17.1	1.2	20.0	16.2	0.9	27.8	5,791
Alango Gof Ward	None	4.1	14.1	17.3	1.3	23.0	9.8	1.0	29.3	4,961
Alango Gof Ward	Primary	1.9	4.7	18.9	0.6	1.6	51.4	-	21.0	644
Alango Gof Ward	Secondary+	14.0	1.6	5.9	0.5	2.2	64.5	-	11.3	186

Table 24.5: 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	Incapaci-	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
Mandera	Total	6.8	11.5	30.7	1.51	12.9	17.8	.5	18.2	78417
Mandera	None	6.6	13.9	37.6	1.6	16.7	2.6	.7	20.4	56388
Mandera	Primary	5.0	6.2	15.5	1.1	4.3	55.6	.2	12.1	13018
Wandera	Timary	3.0	0.2	10.0	1.1	7.0	30.0	.2	12.1	10010
Mandera	Secondary+	10.9	4.5	9.9	1.2	1.9	58.4	.1	13.2	9011
Mandera West Constituency	Total	7.1	10.4	46.7	1.5	5.0	17.3	.8	11.2	10039
Mandera West Constituency	None	6.9	12.4	57.4	1.8	6.3	1.7	1.0	12.5	7373
Mandera West Constituency	Primary	5.3	5.5	21.5	.9	1.6	57.4	.2	7.6	1641
Mandera West Constituency	Secondary+	11.4	3.6	10.3	.8	1.0	65.1	0.0	7.8	1025
Takaba South Ward	Total	5.4	18.3	39.5	1.3	4.3	19.1	.5	11.6	2180
Takaba South Ward	None	5.0	22.9	49.0	1.6	5.4	.8	.7	14.6	1505
Takaba South Ward	Primary	4.3	9.9	24.4	.8	1.3	53.1	0.0	6.2	373
Takaba South Ward	Secondary+	8.9	5.6	10.9	.3	2.0	68.5	0.0	3.6	302
Takaba Ward	Total	11.0	11.0	29.1	3.1	7.5	26.5	1.0	10.7	2810
Takaba Ward	None	11.6	14.8	40.1	4.2	10.9	4.2	1.5	12.7	1755
Takaba Ward	Primary	5.7	5.9	14.8	1.4	2.5	64.1	.5	5.0	560
Takaba Ward	Secondary+	15.2	3.2	6.5	1.2	.8	62.8	0.0	10.3	495
Laghsure Ward	Total	6.3	5.2	44.2	1.6	2.2	18.7	.1	21.6	902
Laghsure Ward	None	6.6	6.3	54.0	1.9	3.2	1.0	.2	26.8	619
Laghsure Ward	Primary	5.9	3.2	24.9	.5	0.0	55.7	0.0	9.7	185
Laghsure Ward	Secondary+	5.1	2.0	19.4	1.0	0.0	61.2	0.0	11.2	98
Dandu Ward	Total	6.1	7.9	54.8	.4	6.9	13.8	1.0	8.9	1827
Dandu Ward	None	6.2	8.8	63.2	.5	7.8	2.0	1.2	10.1	1522
Dandu Ward	Primary	6.5	4.2	14.5	0.0	3.3	68.2	0.0	3.3	214
Dandu Ward	Secondary+	3.3	1.1	9.9	0.0	0.0	83.5	0.0	2.2	91
Gither Ward	Total	4.9	6.2	69.4	.8	2.3	6.6	.8	9.1	2320
Gither Ward	None	4.7	7.0	75.8 32.7	.8	2.7	44.0	.9	8.0	1972 309
Gither Ward Gither Ward	Primary Secondary+	4.5 17.9	2.6	33.3	0.0	0.0	33.3	0.0	15.9	39
Banissa Constituency	Total	4.0	17.4	47.6	1.0	5.2	8.6	.6	15.6	9687
Banissa Constituency	None	3.8	18.7	52.2	1.0	6.2	1.1	.7	16.2	7923
Banissa Constituency	Primary	2.5	13.2	31.3	.7	.6	37.9	.3	13.6	1107
Banissa Constituency	Secondary+	9.0	7.9	20.1	.9	.3	49.8	0.0	12.0	657
Banissa Ward	Total	3.2	18.4	49.2	1.0	4.7	12.7	.1	10.7	2727
Banissa Ward	None	2.5	20.0	58.4	1.0	6.2	1.5	.1	10.3	2004
Banissa Ward	Primary	1.1	16.6	29.3	.5	.8	40.6	0.0	11.1	379
Banissa Ward	Secondary+	9.9	11.3	17.2	1.2	.6	47.4	0.0	12.5	344
Derkhale Ward	Total	4.0	14.1	60.3	.6	1.8	7.7	.7	10.8	1482
Derkhale Ward	None	4.0	14.6	66.7	.5	2.0	.6	.8	10.8	1237
Derkhale Ward	Primary	2.1	12.1	32.1	1.1	.5	41.6	.5	10.0	190
Derkhale Ward	Secondary+	9.1	10.9	14.5	1.8	0.0	49.1	0.0	14.5	55
Guba Ward	Total	5.4	10.5	31.1	1.2	14.7	12.0	1.2	24.0	1729
Guba Ward	None	5.3	11.8	34.0	1.3	17.6	1.5	1.3	27.2	1425
Guba Ward	Primary	6.8	6.2	19.1	.6	1.9	53.1	1.2	11.1	162
Guba Ward	Secondary+	5.6	2.1	14.8	0.0	0.0	71.1	0.0	6.3	142
Malkamari Ward	Total	6.3	15.0	55.7	1.3	4.4	3.6	.4	13.4	1772

Malkamari Ward None 6.3 15.8 56.8 1.4 5.0 .5 5 13.7 1547 Malkamari Ward Primary 4.1 11.7 46.8 .6 0.0 25.1 0.0 11.7 171 Malkamari Ward Secondary+ 13.0 1.9 51.9 0.0 0.0 24.1 0.0 9.3 54 Kiliwaheri Ward None 1.7 28.7 45.4 .9 .9 1.2 .9 20.2 1710 Kiliwaheri Ward Primary 1.0 14.6 30.7 1.0 0.0 27.8 0.0 24.9 205 Kiliwaheri Ward Secondary+ 8.1 4.8 25.8 1.6 0.0 37.1 0.0 22.6 62 Mandera North Constituency Total 4.8 8.2 25.8 1.8 20.0 18.3 .4 21.7 14404 Mandera North Constituency Primary 3.8 3.8 10.1 8
Malkamari Ward Secondary+ 13.0 1.9 51.9 0.0 0.0 24.1 0.0 9.3 54 Kiliwaheri Ward Total 1.8 26.5 43.3 1.0 .8 5.1 .8 20.8 1977 Kiliwaheri Ward None 1.7 28.7 45.4 .9 .9 1.2 .9 20.2 1710 Kiliwaheri Ward Primary 1.0 14.6 30.7 1.0 0.0 27.8 0.0 24.9 205 Kiliwaheri Ward Secondary+ 8.1 4.8 25.8 1.6 0.0 37.1 0.0 22.6 62 Mandera North Constituency Total 4.8 8.2 25.8 8 20.0 18.3 .4 21.7 14404 Mandera North Constituency None 4.5 9.8 31.8 .8 25.6 2.0 .5 25.0 10635 Mandera North Constituency Primary 3.8 3.8 10.1
Kiliwaheri Ward Total 1.8 26.5 43.3 1.0 .8 5.1 .8 20.8 1977 Kiliwaheri Ward None 1.7 28.7 45.4 .9 .9 1.2 .9 20.2 1710 Kiliwaheri Ward Primary 1.0 14.6 30.7 1.0 0.0 27.8 0.0 24.9 205 Kiliwaheri Ward Secondary+ 8.1 4.8 25.8 1.6 0.0 37.1 0.0 22.6 62 Mandera North Constituency Total 4.8 8.2 25.8 8 20.0 18.3 .4 21.7 14404 Mandera North Constituency None 4.5 9.8 31.8 .8 25.6 2.0 .5 25.0 10635 Mandera North Constituency Primary 3.8 3.8 10.1 .8 4.5 64.9 2 12.0 2078 Mandera North Constituency Secondary+ 7.6 3.4 7.0 </th
Kiliwaheri Ward None 1.7 28.7 45.4 .9 .9 1.2 .9 20.2 1710 Kiliwaheri Ward Primary 1.0 14.6 30.7 1.0 0.0 27.8 0.0 24.9 205 Kiliwaheri Ward Secondary+ 8.1 4.8 25.8 1.6 0.0 37.1 0.0 22.6 62 Mandera North Constituency Total 4.8 8.2 25.8 .8 20.0 18.3 .4 21.7 14404 Mandera North Constituency None 4.5 9.8 31.8 .8 25.6 2.0 .5 25.0 10635 Mandera North Constituency Primary 3.8 3.8 10.1 .8 4.5 64.9 .2 12.0 2078 Mandera North Constituency Primary 3.8 3.8 10.1 .8 4.5 64.9 .2 12.0 2078 Mandera North Constituency Secondary+ 7.6 3.4
Kiliwaheri Ward Primary 1.0 14.6 30.7 1.0 0.0 27.8 0.0 24.9 205 Kiliwaheri Ward Secondary+ 8.1 4.8 25.8 1.6 0.0 37.1 0.0 22.6 62 Mandera North Constituency Total 4.8 8.2 25.8 .8 20.0 18.3 .4 21.7 14404 Mandera North Constituency None 4.5 9.8 31.8 .8 25.6 2.0 .5 25.0 10635 Mandera North Constituency Primary 3.8 3.8 10.1 .8 4.5 64.9 .2 12.0 2078 Mandera North Constituency Secondary+ 7.6 3.4 7.0 1.1 3.8 63.6 .1 13.4 1691 Ashabito Ward Total 4.5 6.6 30.2 .7 28.2 15.6 .8 13.4 3284 Ashabito Ward Primary 5.9 3.1 14
Kiliwaheri Ward Secondary+ 8.1 4.8 25.8 1.6 0.0 37.1 0.0 22.6 62 Mandera North Constituency Total 4.8 8.2 25.8 8 20.0 18.3 4 21.7 14404 Mandera North Constituency None 4.5 9.8 31.8 8 25.6 2.0 .5 25.0 10635 Mandera North Constituency Primary 3.8 3.8 10.1 8 4.5 64.9 2 12.0 2078 Mandera North Constituency Secondary+ 7.6 3.4 7.0 1.1 3.8 63.6 .1 13.4 1691 Ashabito Ward Total 4.5 6.6 30.2 .7 28.2 15.6 .8 13.4 3284 Ashabito Ward None 3.5 7.6 35.7 .7 34.2 3.0 .9 14.3 2527 Ashabito Ward Primary 5.9 3.1 14.2
Mandera North Constituency Total 4.8 8.2 25.8 .8 20.0 18.3 .4 21.7 14404 Mandera North Constituency None 4.5 9.8 31.8 8 25.6 2.0 .5 25.0 10635 Mandera North Constituency Primary 3.8 3.8 10.1 .8 4.5 64.9 .2 12.0 2078 Mandera North Constituency Secondary+ 7.6 3.4 7.0 1.1 3.8 63.6 .1 13.4 1691 Ashabito Ward Total 4.5 6.6 30.2 .7 28.2 15.6 .8 13.4 3284 Ashabito Ward None 3.5 7.6 35.7 .7 34.2 3.0 .9 14.3 2527 Ashabito Ward Primary 5.9 3.1 14.2 .5 8.8 56.8 .3 10.3 387 Ashabito Ward Secondary+ 10.0 3.2 9.7
Mandera North Constituency None 4.5 9.8 31.8 .8 25.6 2.0 .5 25.0 10635 Mandera North Constituency Primary 3.8 3.8 10.1 .8 4.5 64.9 .2 12.0 2078 Mandera North Constituency Secondary+ 7.6 3.4 7.0 1.1 3.8 63.6 .1 13.4 1691 Ashabito Ward Total 4.5 6.6 30.2 .7 28.2 15.6 .8 13.4 3284 Ashabito Ward None 3.5 7.6 35.7 .7 34.2 3.0 .9 14.3 2527 Ashabito Ward Primary 5.9 3.1 14.2 .5 8.8 56.8 .3 10.3 387 Ashabito Ward Secondary+ 10.0 3.2 9.7 .5 7.8 58.4 0.0 10.3 370 Guticha Ward None 3.3 10.0 47.8 1.0
Mandera North Constituency Primary 3.8 3.8 10.1 .8 4.5 64.9 .2 12.0 2078 Mandera North Constituency Secondary+ 7.6 3.4 7.0 1.1 3.8 63.6 .1 13.4 1691 Ashabito Ward Total 4.5 6.6 30.2 .7 28.2 15.6 .8 13.4 3284 Ashabito Ward None 3.5 7.6 35.7 .7 34.2 3.0 .9 14.3 2527 Ashabito Ward Primary 5.9 3.1 14.2 .5 8.8 56.8 .3 10.3 387 Ashabito Ward Secondary+ 10.0 3.2 9.7 .5 7.8 58.4 0.0 10.3 370 Guticha Ward Total 3.3 10.0 47.8 1.0 21.4 8.4 .2 8.0 2517 Guticha Ward None 3.3 9.5 51.2 1.0 <td< th=""></td<>
Mandera North Constituency Secondary+ 7.6 3.4 7.0 1.1 3.8 63.6 .1 13.4 1691 Ashabito Ward Total 4.5 6.6 30.2 .7 28.2 15.6 .8 13.4 3284 Ashabito Ward None 3.5 7.6 35.7 .7 34.2 3.0 .9 14.3 2527 Ashabito Ward Primary 5.9 3.1 14.2 .5 8.8 56.8 .3 10.3 387 Ashabito Ward Secondary+ 10.0 3.2 9.7 .5 7.8 58.4 0.0 10.3 370 Guticha Ward Total 3.3 10.0 47.8 1.0 21.4 8.4 .2 8.0 2517 Guticha Ward None 3.3 9.5 51.2 1.0 23.6 2.9 .2 8.2 2256 Guticha Ward Primary 2.5 13.2 18.1 1.0 2.5
Ashabito Ward Total 4.5 6.6 30.2 .7 28.2 15.6 .8 13.4 3284 Ashabito Ward None 3.5 7.6 35.7 .7 34.2 3.0 .9 14.3 2527 Ashabito Ward Primary 5.9 3.1 14.2 .5 8.8 56.8 .3 10.3 387 Ashabito Ward Secondary+ 10.0 3.2 9.7 .5 7.8 58.4 0.0 10.3 370 Guticha Ward Total 3.3 10.0 47.8 1.0 21.4 8.4 .2 8.0 2517 Guticha Ward None 3.3 9.5 51.2 1.0 23.6 2.9 .2 8.2 2256 Guticha Ward Primary 2.5 13.2 18.1 1.0 2.5 57.4 0.0 5.4 204 Guticha Ward Secondary+ 5.3 15.8 19.3 0.0 1.8 49.1
Ashabito Ward None 3.5 7.6 35.7 .7 34.2 3.0 .9 14.3 2527 Ashabito Ward Primary 5.9 3.1 14.2 .5 8.8 56.8 .3 10.3 387 Ashabito Ward Secondary+ 10.0 3.2 9.7 .5 7.8 58.4 0.0 10.3 370 Guticha Ward Total 3.3 10.0 47.8 1.0 21.4 8.4 .2 8.0 2517 Guticha Ward None 3.3 9.5 51.2 1.0 23.6 2.9 .2 8.2 2256 Guticha Ward Primary 2.5 13.2 18.1 1.0 2.5 57.4 0.0 5.4 204 Guticha Ward Secondary+ 5.3 15.8 19.3 0.0 1.8 49.1 0.0 8.8 57
Ashabito Ward Primary 5.9 3.1 14.2 .5 8.8 56.8 .3 10.3 387 Ashabito Ward Secondary+ 10.0 3.2 9.7 .5 7.8 58.4 0.0 10.3 370 Guticha Ward Total 3.3 10.0 47.8 1.0 21.4 8.4 .2 8.0 2517 Guticha Ward None 3.3 9.5 51.2 1.0 23.6 2.9 .2 8.2 2256 Guticha Ward Primary 2.5 13.2 18.1 1.0 2.5 57.4 0.0 5.4 204 Guticha Ward Secondary+ 5.3 15.8 19.3 0.0 1.8 49.1 0.0 8.8 57
Ashabito Ward Secondary+ 10.0 3.2 9.7 .5 7.8 58.4 0.0 10.3 370 Guticha Ward Total 3.3 10.0 47.8 1.0 21.4 8.4 .2 8.0 2517 Guticha Ward None 3.3 9.5 51.2 1.0 23.6 2.9 .2 8.2 2256 Guticha Ward Primary 2.5 13.2 18.1 1.0 2.5 57.4 0.0 5.4 204 Guticha Ward Secondary+ 5.3 15.8 19.3 0.0 1.8 49.1 0.0 8.8 57
Guticha Ward Total 3.3 10.0 47.8 1.0 21.4 8.4 .2 8.0 2517 Guticha Ward None 3.3 9.5 51.2 1.0 23.6 2.9 .2 8.2 2256 Guticha Ward Primary 2.5 13.2 18.1 1.0 2.5 57.4 0.0 5.4 204 Guticha Ward Secondary+ 5.3 15.8 19.3 0.0 1.8 49.1 0.0 8.8 57
Guticha Ward None 3.3 9.5 51.2 1.0 23.6 2.9 .2 8.2 2256 Guticha Ward Primary 2.5 13.2 18.1 1.0 2.5 57.4 0.0 5.4 204 Guticha Ward Secondary+ 5.3 15.8 19.3 0.0 1.8 49.1 0.0 8.8 57
Guticha Ward Primary 2.5 13.2 18.1 1.0 2.5 57.4 0.0 5.4 204 Guticha Ward Secondary+ 5.3 15.8 19.3 0.0 1.8 49.1 0.0 8.8 57
Guticha Ward Secondary+ 5.3 15.8 19.3 0.0 1.8 49.1 0.0 8.8 57
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Marothile Ward Total 6.6 22.8 29.9 .5 24.8 9.1 1.4 5.0 864
Marothile Ward None 5.6 25.1 32.8 .3 27.3 1.8 1.6 5.6 769
Marothile Ward Primary 12.7 5.5 5.5 3.6 7.3 65.5 0.0 0.0 55
Marothile Ward Secondary+ 17.5 2.5 7.5 0.0 0.0 72.5 0.0 0.0 40
Rhamu Ward Total 4.9 5.9 14.1 1.0 14.6 24.7 .2 34.6 4860
Rhamu Ward None 4.9 7.7 18.1 1.0 21.4 1.3 .2 45.4 3008
Rhamu Ward Primary 3.1 3.2 9.3 1.0 4.5 61.8 .4 16.8 913
Rhamu Ward Secondary+ 7.0 2.8 5.6 1.2 2.6 63.5 .1 17.3 939
Rhamu Dimtu Ward Total 5.6 8.0 19.9 .6 17.1 22.0 .2 26.6 2879
Rhamu Dimtu Ward None 6.3 10.3 25.4 .5 22.8 .8 .2 33.6 2075
Rhamu Dimtu Ward Primary 3.1 1.3 5.8 .2 1.7 79.2 0.0 8.7 519
Rhamu Dimtu Ward Secondary+ 5.3 3.5 5.6 1.8 3.9 72.3 0.0 7.7 285
Mandera South Constituency Total 8.2 10.3 24.6 1.4 18.1 22.1 .5 14.7 17888
Mandera South Constituency None 8.0 12.5 31.3 1.4 23.7 4.7 .7 17.7 12671
Mandera South Constituency Primary 5.7 6.5 10.9 1.4 6.7 62.1 .1 6.6 2841
Mandera South Constituency Secondary+ 12.6 3.4 5.7 .9 1.5 67.4 0.0 8.6 2376
Wargadud Ward Total 6.4 4.1 37.4 1.3 7.6 19.3 .4 23.4 2254
Wargadud Ward None 5.5 4.6 46.3 1.1 9.9 3.0 .5 29.1 1669
Wargadud Ward Primary 3.7 16.5 2.1 2.1 66.7 0.0 5.2 327
Wargadud Ward Secondary+ 15.9 1.2 6.6 1.6 0.0 65.1 0.0 9.7 258
Kotulo Ward Total 6.5 13.0 17.6 1.0 25.9 21.3 .7 14.0 4007
Kotulo Ward None 6.0 15.3 22.6 1.0 32.7 6.0 .9 15.5 2974
Kotulo Ward Primary 5.3 8.1 4.2 1.3 9.1 61.3 0.0 10.6 639
Kotulo Ward Secondary+ 12.2 3.6 2.0 .5 2.0 72.3 0.0 7.4 394
Elwak South Ward Total 9.8 14.5 18.0 1.5 15.4 25.7 .4 14.6 6035
Elwak South Ward None 10.4 19.2 24.3 1.7 21.7 3.4 .6 18.6 3936
Elwak South Ward Primary 4.3 7.9 7.8 1.1 5.9 68.9 .1 4.0 1009
Elwak South Ward Secondary+ 12.8 3.8 4.6 1.1 1.5 66.1 0.0 10.3 1090
Elwak North Ward Total 11.3 9.6 35.0 1.5 12.3 19.4 .7 10.1 2023

Elwak North Ward	None	9.8	12.0	43.0	1.8	16.1	4.6	1.1	11.6	1402
Elwak North Ward	Primary	12.1	4.8	19.0	1.2	5.4	50.5	0.0	6.9	331
Elwak North Ward	Secondary+	17.2	3.8	14.8	.7	1.4	55.9	0.0	6.2	290
Shambir Fatuma Ward	Total	7.0	4.5	29.7	1.5	23.6	20.3	.4	12.9	3569
Shambir Fatuma Ward	None	7.2	4.7	35.6	1.5	29.3	6.2	.5	14.9	2690
Shambir Fatuma Ward	Primary	6.0	4.7	16.1	2.1	9.0	54.8	.2	7.3	535
Shambir Fatuma Ward	Secondary+	6.4	3.2	4.9	.3	2.0	77.3	0.0	5.8	344
Mandera East Constituency	Total	9.7	12.7	18.2	2.5	12.8	21.2	.5	22.4	17472
Mandera East Constituency	None	10.4	17.2	22.5	3.0	18.3	2.7	.6	25.4	10653
Mandera East Constituency	Primary	6.3	5.8	12.5	1.4	5.5	51.2	.4	17.0	4160
Mandera East Constituency	Secondary+	12.6	5.8	9.7	2.0	2.1	48.7	.1	18.9	2659
Arabia Ward	Total	6.6	24.2	36.9	1.7	6.4	4.2	.1	19.9	1580
Arabia Ward	None	5.8	27.5	38.8	1.8	7.3	.3	.1	18.5	1362
Arabia Ward	Primary	11.0	4.1	24.7	0.0	.7	26.7	.7	32.2	146
Arabia Ward	Secondary+	12.5	2.8	26.4	4.2	1.4	31.9	0.0	20.8	72
Bulla Mpya Ward	Total	10.4	8.5	12.8	2.7	15.1	24.3	.3	25.9	5445
Bulla Mpya Ward	None	10.4	11.0	16.1	3.2	22.5	4.5	.5	31.3	3268
Bulla Mpya Ward	Primary	7.3	4.4	7.6	1.7	4.8	55.6	.1	18.6	1416
Bulla Mpya Ward	Secondary+	14.7	5.1	8.4	2.0	2.5	50.9	0.0	16.4	761
Khalalio Ward	Total	7.7	14.0	53.5	1.5	3.6	5.9	1.2	12.5	1270
Khalalio Ward	None	9.0	15.6	55.2	1.7	4.4	.2	1.0	12.8	991
Khalalio Ward	Primary	.5	6.7	49.7	.5	1.0	29.0	2.1	10.4	193
Khalalio Ward	Secondary+	9.3	11.6	43.0	1.2	0.0	19.8	1.2	14.0	86
Neboi Ward	Total	11.8	13.3	39.8	3.1	6.5	8.0	.3	17.2	1237
Neboi Ward	None	13.4	14.3	39.8	3.1	8.5	.6	.3	19.8	924
Neboi Ward	Primary	6.1	10.6	42.4	2.4	.8	26.5	.4	10.6	245
Neboi Ward	Secondary+	10.3	8.8	29.4	4.4	0.0	41.2	0.0	5.9	68
Township Ward	Total	9.9	13.1	9.1	2.5	14.8	27.1	.6	22.9	7940
Township Ward	None	11.2	19.6	10.4	3.5	24.1	3.1	.9	27.3	4108
Township Ward	Primary	5.8	6.2	8.1	1.3	7.2	54.7	.4	16.3	2160
Township Ward	Secondary+	12.0	5.9	7.1	1.8	2.2	50.3	.1	20.8	1672
Lafey Constituency	Total	4.2	11.8	39.3	1.2	8.9	12.2	.6	21.8	8927
Lafey Constituency	None	4.3	13.4	43.2	1.3	10.9	2.3	.7	23.8	7133
Lafey Constituency	Primary	2.7	6.0	23.6	.5	1.2	53.0	.1	12.9	1191
Lafey Constituency	Secondary+	6.6	3.3	23.4	1.2	.7	49.4	.2	15.3	603
Sala Ward	Total	5.0	12.2	57.5	.7	6.8	5.2	.2	12.6	2929
Sala Ward	None	5.1	12.9	59.6	.7	7.8	.5	.2	13.2	2396
Sala Ward	Primary	4.0	9.3	45.6	.6	2.8	28.0	0.0	9.6	353
Sala Ward	Secondary+	5.0	7.2	53.9	1.1	.6	21.7	.6	10.0	180
Fino Ward	Total	4.0	6.4	56.5	.5	13.0	1.7	1.1	16.7	975
Fino Ward	None	3.1	6.3	58.1	.6	14.2	0.0	1.3	16.4	871
Fino Ward	Primary	3.4	12.1	43.1	0.0	3.4	12.1	0.0	25.9	58
Fino Ward	Secondary+	21.7	0.0	43.5	0.0	2.2	21.7	0.0	10.9	46
Lafey Ward	Total	4.1	11.3	18.3	1.7	11.5	23.9	1.0	28.2	2982
Lafey Ward	None	4.3	14.9	23.5	2.1	15.6	3.8	1.3	34.5	2176
Lafey Ward	Primary	2.5	2.1	5.2	0.0	0.0	81.5	.2	8.5	520
Lafey Ward	Secondary+	5.2	1.0	3.1	1.7	.7	72.4	0.0	15.7	286
Warankara Ward	Total	2.7	12.4	43.9	1.6	.8	8.5	.1	30.0	1311

Warankara Ward	None	2.8	13.7	49.8	1.8	.9	.8	.1	30.2	1054
Warankara Ward	Primary	1.1	7.8	21.8	1.1	.6	39.1	0.0	28.5	179
Warankara Ward	Secondary+	6.4	5.1	15.4	0.0	0.0	42.3	0.0	30.8	78
Alango Gof Ward	Total	4.8	18.2	19.9	1.8	16.4	13.3	.5	25.1	730
Alango Gof Ward	None	5.2	19.8	17.8	1.7	18.7	9.0	.6	27.2	636
Alango Gof Ward	Primary	1.2	8.6	35.8	2.5	1.2	38.3	0.0	12.3	81
Alango Gof Ward	Secondary+	7.7	0.0	23.1	0.0	0.0	69.2	0.0	0.0	13

Table 24.6: 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
Mandera County	0.025	1,400	0.010	0.332
Mandera West Constituency	0.004	1,280	0.0015	0.277
Takaba South	0.001	1,160	0.0004	0.256
Takaba	0.001	1,720	0.0004	0.294
Laghsure	0.000	1,040	0.0001	0.219
Dandu	0.001	1,480	0.0004	0.196
Gither	0.001	898	0.0002	0.222
Banissa Constituency	0.004	1,140	0.0014	0.241
Banissa	0.001	1,230	0.0004	0.240
Derkhale	0.001	1,150	0.0003	0.255
Guba	0.001	1,110	0.0002	0.219
Malkamari	0.001	967	0.0002	0.231
Kiliwaheri	0.001	1,190	0.0003	0.223
Mandera North Constituency	0.004	1,370	0.0017	0.321
Ashabito	0.001	1,170	0.0004	0.267
Guticha	0.001	1,060	0.0003	0.212
Marothile	0.000	968	0.0001	0.285
Rhamu	0.001	2,090	0.0006	0.338
Rhamu Dimtu	0.001	1,250	0.0003	0.275
Mandera South Constituency	0.006	1,220	0.0021	0.286
Wargadud	0.001	1,090	0.0002	0.242
Kotulo	0.002	1,120	0.0006	0.268
Elwak South	0.002	1,520	0.0007	0.319
Elwak North	0.001	1,270	0.0003	0.258
Shambir Fatuma	0.001	1,010	0.0003	0.227
Mandera East Constituency	0.003	2,660	0.0020	0.403
Arabia	0.001	1,280	0.0002	0.290
Bulla Mpya	0.000	3,160	0.0003	0.379
Khalalio	0.000	2,020	0.0002	0.338
Neboi	0.000	2,540	0.0001	0.302
Township	0.001	3,440	0.0012	0.368
Lafey Constituency	0.004	1,220	0.0013	0.279
Sala	0.001	1,460	0.0005	0.326
Fino	0.000	1,190	0.0002	0.251

Lafey	0.001	1,130	0.0004	0.243
Warankara	0.001	1,110	0.0002	0.236
Alango Gof	0.000	973	0.0001	0.199

Table 24.7: 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
Mandera County	70.2	25.1	4.7	940,239
Mandera West Constituency	64.8	30.4	4.8	147,716
Takaba South	62.0	31.1	6.9	39,145
Takaba	51.0	40.2	8.8	30,697
Laghsure	58.9	35.3	5.8	13,553
Dandu	72.4	25.6	2.0	34,148
Gither	76.6	22.6	0.8	30,173
Banissa Constituency	74.5	22.8	2.8	144,495
Banissa	65.6	29.6	4.8	40,700
Derkhale	75.5	22.9	1.6	29,162
Guba	74.9	21.4	3.7	18,526
Malkamari	80.9	17.4	1.7	25,410
Kiliwaheri	79.7	18.8	1.5	30,697
Mandera North Constituency	72.6	22.3	5.1	157,343
Ashabito	73.9	21.4	4.7	40,166
Guticha	89.5	9.3	1.2	31,503
Marothile	84.1	12.7	3.2	12,623
Rhamu	59.0	31.0	9.9	39,067
Rhamu Dimtu	66.5	29.0	4.5	33,984
Mandera South Constituency	68.4	26.2	5.4	226,009
Wargadud	72.1	23.4	4.5	28,120
Kotulo	75.1	21.5	3.4	63,468
Elwak South	63.2	28.9	7.9	69,663
Elwak North	61.9	30.7	7.4	24,684
Shambir Fatuma	68.1	28.4	3.5	40,074
Mandera East Constituency	64.0	28.7	7.2	122,913
Arabia	84.6	13.4	2.0	25,267
Bulla Mpya	61.1	31.8	7.2	33,541
Khalalio	73.4	24.0	2.6	12,570
Neboi	65.7	30.9	3.4	10,810
Township	50.4	36.6	13.0	40,725
Lafey Constituency	77.4	19.9	2.8	141,763
Sala	77.1	19.8	3.2	45,309
Fino	87.6	10.5	1.9	15,352
Lafey	71.5	25.1	3.3	45,176
Warankara	80.7	17.2	2.1	22,838
Alango Gof	80.7	17.5	1.9	13,088

Table 24.8: Education for Male and Female Headed Households by County, Constituency and Ward

County/Constituency/Wards	None	Primary	Second- ary+	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
Mandera County	67.4	26.7	5.9	515,577	73.7	23.1	3.2	424,662
Mandera West Constituency	62.3	31.7	6.0	80,099	67.8	28.8	3.4	67,617
Takaba South	60.1	31.9	8.0	21,212	64.4	30.1	5.6	17,933
Takaba	47.4	41.1	11.5	16,741	55.3	39.2	5.5	13,956
Laghsure	55.3	37.0	7.6	7,141	62.9	33.4	3.8	6,412
Dandu	70.5	27.1	2.4	18,970	74.8	23.7	1.5	15,178
Gither	74.2	24.7	1.1	16,035	79.2	20.3	0.5	14,138
Banissa Constituency	72.0	24.5	3.5	80,500	77.6	20.6	1.8	63,995
Banissa	63.0	30.7	6.3	21,989	68.7	28.2	3.1	18,711
Derkhale	73.0	24.8	2.2	16,300	78.7	20.5	0.9	12,862
Guba	72.8	22.8	4.4	10,611	77.7	19.6	2.7	7,915
Malkamari	77.9	19.9	2.2	14,605	84.9	14.0	1.1	10,805
Kiliwaheri	77.2	20.9	2.0	16,995	82.9	16.2	0.9	13,702
Mandera North Constituency	69.8	23.7	6.5	88,347	76.1	20.5	3.4	68,996
Ashabito	70.7	23.0	6.3	22,322	77.9	19.5	2.7	17,844
Guticha	88.2	10.3	1.4	17,764	91.2	7.9	1.0	13,739
Marothile	82.3	13.4	4.3	7,172	86.5	11.8	1.7	5,451
Rhamu	55.6	32.3	12.1	22,434	63.7	29.3	7.0	16,633
Rhamu Dimtu	63.5	31.0	5.5	18,655	70.3	26.5	3.2	15,329
Mandera South Constituency	65.3	27.9	6.8	119,926	71.9	24.3	3.8	106,083
Wargadud	68.1	25.8	6.1	15,316	76.8	20.6	2.6	12,804
Kotulo	73.3	22.5	4.2	32,993	77.2	20.3	2.5	30,475
Elwak South	59.8	30.5	9.7	37,299	67.2	27.0	5.8	32,364
Elwak North	58.2	32.9	9.0	12,835	65.8	28.4	5.8	11,849
Shambir Fatuma	64.9	30.3	4.8	21,483	71.7	26.2	2.2	18,591
Mandera East Constituency	58.8	31.7	9.5	65,765	70.0	25.3	4.7	57,148

Arabia	82.9	14.5	2.6	14,300	86.7	12.0	1.3	10,967
Dulla Maya	54.4	26.0	9.4	17 570	68.4	26.0	4.8	15 071
Bulla Mpya	54.4	36.2	9.4	17,570	00.4	26.9	4.8	15,971
Khalalio	69.5	27.1	3.4	6,845	78.1	20.2	1.7	5,725
Neboi	60.0	35.2	4.8	5,682	72.0	26.3	1.7	5,128
Township	42.6	40.1	17.4	21,368	59.0	32.9	8.2	19,357
Lafey Constituency	75.2	21.3	3.5	80,940	80.3	17.9	1.8	60,823
Sala	74.6	21.5	4.0	25,733	80.4	17.6	2.1	19,576
Fino	85.0	12.2	2.8	8,673	91.0	8.3	0.7	6,679
Lafey	69.5	26.3	4.2	25,131	74.1	23.7	2.2	20,045
Warankara	77.8	19.5	2.7	13,138	84.7	14.0	1.2	9,700
vvaiainaia	11.0	10.0	L. 1	10,100	UT.1	17.0	1.2	5,700
Alango Gof	79.8	17.9	2.2	8,265	82.2	16.6	1.2	4,823

Table 24.9: Cooking Fuel by County, Constituency and Wards

County/Constituency/ Wards	Electricity	Paraffin	LPG	Biogas	Firewood	Charcoal	Solar	Other	Households
	0.8	11.7	5.1	0.7	64.4	17.0	0.1	0.3	8,493,380
Kenya	***		4	***	-		***	***	
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
Mandera County	0.2	0.4	0.1	0.2	93.4	5.5	0.1	0.2	120,077
Mandera West Constit- uency	0.0	0.3	0.2	0.1	98.1	1.1	0.1	0.0	17,422
Takaba South	0.0	0.4	0.2	0.1	98.0	1.1	0.1	0.0	4,316
Takaba	0.0	0.7	0.4	0.2	97.5	1.0	0.1	0.0	3,469
Laghsure	0.1	0.3	0.1	0.1	97.3	2.1	-	0.1	1,506
Dandu	0.0	0.1	0.1	0.1	98.5	1.1	0.1	0.0	4,228
Gither	0.0	-	0.2	0.1	98.8	0.8	0.0	0.1	3,903
Banissa Constituency	0.0	0.6	0.1	0.2	97.2	1.7	0.1	0.1	18,876
Banissa	0.1	1.5	0.2	0.3	96.2	1.5	0.1	0.1	5,146
Derkhale	0.1	0.1	0.1	0.2	99.0	0.4	0.1	-	3,787
Guba	-	0.2	0.1	0.2	93.9	5.6	-	0.1	2,490
Malkamari	-	0.1	0.1	0.1	97.7	1.7	0.1	0.2	3,554
Kiliwaheri	0.1	0.4	0.1	0.2	98.5	0.8	0.1	-	3,899
Mandera North Constituency	0.0	0.2	0.1	0.2	97.2	1.9	0.1	0.2	20,170
Ashabito	-	0.0	0.1	0.1	99.1	0.6	0.1	0.0	5,417
Guticha	-	0.1	0.1	0.3	98.7	0.7	0.1	0.0	4,103
Marothile	-	0.2	0.1	-	95.7	3.7	0.2	0.1	1,410
Rhamu	0.1	0.7	0.2	0.4	93.3	4.8	0.2	0.3	4,846
Rhamu Dimtu	0.0	0.0	0.1	0.2	98.4	0.9	0.0	0.4	4,394
Mandera South Constituency	0.1	0.3	0.1	0.2	97.8	1.3	0.1	0.1	28,904
Wargadud	-	0.1	0.1	0.3	98.1	1.2	0.1	0.2	3,673

/at-ila		0.4	0.1	0.4	00.0	0.0	0.0	0.4	7.074
Kotulo	-	0.4	0.1	0.1	98.8	0.6	0.0	0.1	7,974
Elwak South	0.3	0.5	0.2	0.1	96.1	2.6	0.1	0.1	8,595
Elwak North	0.1	0.1	0.3	0.1	97.6	1.5	0.1	0.1	3,527
Shambir Fatuma	0.0	0.1	0.0	0.3	99.1	0.4	0.1	0.0	5,135
Mandera East Constit- uency	0.8	0.6	0.1	0.1	68.0	29.9	0.0	0.4	16,893
Arabia	0.1	-	0.1	0.1	98.5	0.7	0.1	0.4	3,348
Bulla Mpya	0.2	0.2	0.1	0.0	62.7	36.6	0.0	0.2	4,293
Khalalio	-	0.7	0.1	0.1	97.4	1.7	-	0.1	1,746
Neboi	-	-	0.2	0.2	93.1	6.5	-	0.1	1,293
Township	1.9	1.4	0.0	0.2	41.8	53.9	0.0	0.7	6,213
Lafey Constituency	0.1	0.2	0.1	0.1	97.5	1.3	0.0	0.6	17,812
Sala	-	0.0	0.1	0.1	97.8	0.7	0.0	1.2	6,222
Fino	-	-	0.1	0.1	99.6	0.2	-	-	1,641
Lafey	0.1	0.1	0.1	0.1	97.4	1.8	0.0	0.3	5,503
Warankara	0.1	0.9	0.1	0.2	97.2	1.4	-	0.3	2,988
Alango Gof	-	-	0.2	0.3	95.3	3.5	-	0.7	1,458

Table 24.10: 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
Mandera County	0.1	0.4	0.1	0.2	94.3	4.6	0.1	0.2	97,817
Mandera West Constituency	0.0	0.3	0.2	0.1	98.0	1.2	0.0	0.0	14,614
Takaba South	0.1	0.4	0.2	0.1	97.9	1.1	0.1	0.0	3,773
Takaba	0.0	0.8	0.4	0.3	97.0	1.3	0.0	0.0	2,737
Laghsure	0.1	0.3	0.1	0.1	97.1	2.3	0.0	0.0	1,281
Dandu	0.0	0.1	0.1	0.0	98.5	1.1	0.0	0.1	3,624
Gither	0.0	0.0	0.2	0.1	98.9	0.8	0.0	0.1	3,199
Banissa Constituency	0.0	0.6	0.1	0.2	97.1	1.8	0.1	0.1	15,916
Banissa	0.1	1.6	0.3	0.3	95.9	1.7	0.1	0.1	4,300
Derkhale	0.1	0.1	0.1	0.2	99.0	0.4	0.1	0.0	3,308
Guba	0.0	0.2	0.1	0.2	93.1	6.3	0.0	0.1	2,014
Malkamari	0.0	0.1	0.1	0.2	97.8	1.6	0.1	0.2	2,988
Kiliwaheri	0.1	0.4	0.0	0.1	98.6	0.7	0.1	0.0	3,306
Mandera North Constituency	0.0	0.1	0.1	0.2	97.3	1.9	0.1	0.2	16,318
Ashabito	0.0	0.0	0.1	0.1	99.0	0.7	0.1	0.0	4,430
Guticha	0.0	0.1	0.0	0.3	98.7	0.7	0.1	0.1	3,414
Marothile	0.0	0.1	0.1	0.0	95.4	4.0	0.3	0.2	1,170
Rhamu	0.1	0.4	0.2	0.5	93.4	4.9	0.3	0.2	3,648
Rhamu Dimtu	0.0	0.1	0.1	0.2	98.4	0.8	0.0	0.4	3,656
Mandera South Constituency	0.1	0.3	0.1	0.2	97.7	1.4	0.1	0.1	23,630
Wargadud	0.0	0.1	0.0	0.3	98.0	1.4	0.0	0.1	2,961
Kotulo	0.0	0.5	0.1	0.1	98.7	0.6	0.0	0.1	6,819
Elwak South	0.3	0.5	0.1	0.1	95.9	2.6	0.2	0.2	6,994
Elwak North	0.1	0.1	0.3	0.1	97.6	1.5	0.1	0.2	2,869

Shambir Fatuma	0.0	0.1	0.0	0.4	99.1	0.3	0.1	0.0	3,987
Mandera East Constituency	0.8	0.7	0.1	0.1	71.5	26.3	0.0	0.5	12,070
Arabia	0.1	0.0	0.1	0.1	98.5	0.7	0.1	0.4	2,910
Bulla Mpya	0.2	0.2	0.0	0.0	65.6	33.6	0.0	0.3	2,904
Khalalio	0.0	0.7	0.1	0.1	97.7	1.2	0.0	0.1	1,367
Neboi	0.0	0.0	0.1	0.2	92.6	7.1	0.0	0.0	989
Township	2.3	1.7	0.1	0.2	41.1	53.7	0.1	0.9	3,900
Lafey Constituency	0.1	0.2	0.1	0.1	97.4	1.4	0.0	0.6	15,269
Sala	0.0	0.0	0.1	0.1	97.7	0.8	0.0	1.2	5,351
Fino	0.0	0.0	0.1	0.1	99.6	0.2	0.0	0.0	1,414
Lafey	0.1	0.1	0.2	0.1	97.3	1.9	0.0	0.3	4,613
Warankara	0.1	1.0	0.1	0.2	97.0	1.3	0.0	0.3	2,603
Alango Gof	0.0	0.0	0.2	0.1	95.2	3.7	0.0	0.8	1,288

Table 24.11: Cooking Fuel for Female Headed Households by County, Constituency and Wards

County/Constituency/Wards	Electricity	Paraffin	LPG	Biogas	Firewood	Charcoal	Solar	Other	Households
Kenya	0.6	7.9	4.6	0.7	70.6	15.5	0.0	0.1	2,731,060
Rural	0.1	1.0	0.5	0.3	91.5	6.5	0.0	0.1	1,826,263
Urban	1.6	21.7	13.0	1.5	28.5	33.6	0.0	0.3	904,797
Mandera County	0.2	0.3	0.1	0.1	89.6	9.4	0.0	0.2	22,260
Mandera West Constit- uency	0.0	0.1	0.2	0.2	98.6	0.7	0.1	0.1	2,808
Takaba South	-	0.2	0.2	0.4	98.7	0.6	-	-	543
Takaba	0.1	0.3	0.3	-	99.2	-	0.1	-	732
Laghsure	-	-	-	0.4	98.2	0.9	-	0.4	225
Dandu	-	-	0.2	0.3	98.0	1.2	0.3	-	604
Gither	-	-	0.3	0.1	98.4	1.0	-	0.1	704
Banissa Constituency	-	0.5	0.1	0.1	97.8	1.3	0.1	0.1	2,960
Banissa	-	1.4	0.1	0.1	97.5	0.4	0.1	0.4	846
Derkhale	-	-	0.2	0.2	99.2	0.4	-	-	479
Guba	-	0.2	-	-	97.1	2.7	-	-	476
Malkamari	-	0.2	-	-	97.5	2.3	-	-	566
Kiliwaheri	-	0.3	0.2	0.3	97.8	1.2	0.2	-	593
Mandera North Constit- uency	0.0	0.5	0.2	0.1	96.8	2.0	0.0	0.3	3,852
Ashabito	-	-	0.1	0.1	99.5	0.3	-	-	987
Guticha	-	-	0.3	0.1	98.8	0.7	-	-	689
Marothile	-	0.8	-	-	97.1	2.1	-	-	240
Rhamu	0.1	1.5	0.3	0.3	92.7	4.7	0.1	0.4	1,198
Rhamu Dimtu	-	-	0.1	-	98.0	1.1	-	0.8	738
Mandera South Constituency	0.1	0.1	0.1	0.1	98.2	1.2	0.0	0.1	5,274
Wargadud	-	-	0.3	0.3	98.7	0.3	0.1	0.3	712
Kotulo	-	0.1	-	0.1	99.2	0.5	-	0.1	1,155
Elwak South	0.3	0.1	0.2	0.1	96.6	2.6	-	0.1	1,601
Elwak North	0.2	0.2	0.2	-	97.9	1.5	0.2	-	658
Shambir Fatuma	-	-	-	0.2	99.4	0.4	-	-	1,148

Mandera East Constituency	0.7	0.5	0.1	0.1	59.4	39.0	-	0.2	4,823
Arabia	0.2	-	-	0.2	98.4	0.9	-	0.2	438
Bulla Mpya	0.2	0.2	0.3	-	56.5	42.7	-	0.1	1,389
Khalalio	-	0.5	-	-	96.3	3.2	-	-	379
Neboi	-	-	0.3	-	94.7	4.6	-	0.3	304
Township	1.2	0.9	0.0	0.1	43.1	54.3	-	0.3	2,313
Lafey Constituency	0.0	0.0	0.1	0.2	98.2	0.8	0.0	0.7	2,543
Sala	-	0.1	0.1	-	98.4	0.3	-	1.0	871
Fino	-	-	-	-	100.0	-	-	-	227
Lafey	0.1	-	0.1	0.1	97.8	1.0	0.1	0.8	890
Warankara	-	-	-	-	98.2	1.6	-	0.3	385
Alango Gof	-	-	-	1.8	96.5	1.8	-	-	170

Table 24.12: Lighting Fuel by County, Constituency and Wards

County/Constituency/Wards	Electricity	Pressure Lamp	Lantern	Tin Lamp	Gas Lamp	Fuelwood	Solar	Other	House- holds
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
Mandera County	2.5	0.2	33.2	13.1	10.8	36.7	0.2	3.2	97,817
Mandera West Constituency	0.1	0.1	52.4	6.1	3.8	37.0	0.2	0.3	14,614
Takaba South	0.1	0.0	60.0	14.6	8.8	16.4	0.1	0.1	3,773
Takaba	0.1	0.3	79.2	1.7	1.1	16.8	0.5	0.3	2,737
Laghsure	0.0	0.1	47.8	7.6	0.7	42.2	0.1	1.5	1,281
Dandu	0.0	0.1	40.6	3.0	4.1	51.8	0.1	0.2	3,624
Gither	0.0	0.1	34.8	3.4	1.7	59.7	0.2	0.1	3,199
Banissa Constituency	0.1	0.2	23.7	12.9	4.9	56.8	0.2	1.0	15,916
Banissa	0.2	0.3	36.9	19.0	2.9	38.8	0.4	1.5	4,300
Derkhale	0.1	0.4	22.0	10.2	0.9	65.9	0.1	0.3	3,308
Guba	0.1	0.2	14.7	6.6	16.3	61.4	0.2	0.6	2,014
Malkamari	0.1	0.1	6.6	13.9	5.8	71.4	0.1	2.0	2,988
Kiliwaheri	0.1	0.2	29.4	10.5	3.5	55.7	0.3	0.4	3,306
Mandera North Constituency	0.2	0.2	22.3	16.1	17.1	40.2	0.3	3.5	16,318
Ashabito	0.0	0.1	33.0	17.0	1.8	45.9	0.2	2.1	4,430
Guticha	0.0	0.0	2.9	22.3	11.5	59.4	0.1	3.7	3,414
Marothile	0.0	0.1	13.4	25.9	13.8	45.6	0.3	0.9	1,170
Rhamu	0.9	0.9	32.0	17.7	20.3	23.9	0.7	3.6	3,648
Rhamu Dimtu	0.0	0.1	19.2	4.5	38.7	31.5	0.0	5.9	3,656
Mandera South Constituency	0.8	0.1	37.7	11.3	6.0	42.4	0.2	1.5	23,630
Wargadud	0.1	0.1	43.6	2.0	0.7	47.7	0.0	5.7	2,961
Kotulo	0.1	0.1	47.8	4.7	4.5	41.9	0.4	0.5	6,819
Elwak South	2.4	0.1	35.5	10.3	10.7	39.8	0.2	1.1	6,994
Elwak North	0.5	0.1	32.6	5.3	5.8	53.7	0.2	1.8	2,869
Shambir Fatuma	0.0	0.1	25.2	33.8	4.6	36.1	0.0	0.2	3,987
Mandera East Constituency	15.3	0.6	37.3	21.1	17.4	4.9	0.4	3.1	12,070

Arabia	0.0	0.1	49.3	12.2	13.7	14.1	0.5	10.0	2,910
Bulla Mpya	13.7	0.1	28.0	29.4	25.8	1.2	0.3	1.5	2,904
Khalalio	0.0	0.3	80.4	5.6	2.7	10.3	0.2	0.6	1,367
Neboi	0.1	0.2	68.1	20.7	8.6	1.0	0.2	1.2	989
Township	32.2	1.4	18.7	24.6	19.4	1.8	0.5	1.6	3,900
Lafey Constituency	0.7	0.1	25.5	12.1	18.5	31.8	0.2	11.1	15,269
Sala	0.0	0.2	26.6	18.6	6.6	31.2	0.1	16.6	5,351
Fino	0.0	0.1	42.7	19.3	10.2	23.0	0.1	4.7	1,414
Lafey	2.1	0.1	14.0	6.6	32.5	35.4	0.2	9.2	4,613
Warankara	0.1	0.1	36.8	8.7	12.5	30.9	0.1	10.7	2,603
Alango Gof	0.5	0.0	21.1	3.6	38.2	33.3	0.1	3.3	1,288

Table 24.13: Lighting Fuel for Male Headed Households by County, Constituency and Wards

County/Constituency/Wards	Electricity	Pressure Lamp	Lantern	Tin Lamp	Gas Lamp	Fuel- wood	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
Mandera County	2.1	0.2	32.9	12.7	10.6	38.3	0.2	3.1	97,817
Mandera West Constituency	0.1	0.1	51.4	6.3	4.0	37.5	0.2	0.3	14,614
Takaba South	0.1	0.1	59.2	15.1	8.9	16.5	0.1	0.1	3,773
Takaba	0.1	0.3	78.7	1.9	1.2	16.9	0.6	0.3	2,737
Laghsure	0.0	0.2	47.5	7.1	0.8	42.9	0.1	1.4	1,281
Dandu	0.1	0.1	39.8	3.4	4.2	52.0	0.2	0.2	3,624
Gither	0.0	0.1	33.7	2.9	1.6	61.5	0.1	0.1	3,199
Banissa Constituency	0.1	0.3	23.7	12.8	4.7	57.3	0.2	0.9	15,916
Banissa	0.2	0.3	37.4	18.3	2.5	39.5	0.4	1.3	4,300
Derkhale	0.1	0.4	22.3	9.3	1.0	66.7	0.2	0.2	3,308
Guba	0.1	0.1	13.5	5.9	16.0	63.7	0.2	0.5	2,014
Malkamari	0.1	0.1	6.6	14.6	5.6	71.0	0.1	2.0	2,988
Kiliwaheri	0.1	0.2	29.0	11.6	3.6	54.8	0.3	0.5	3,306
Mandera North Constituency	0.3	0.2	21.5	15.9	16.7	42.0	0.3	3.2	16,318
Ashabito	0.0	0.1	32.0	17.5	1.8	46.6	0.2	1.9	4,430
Guticha	0.0	0.0	2.7	22.0	11.2	60.9	0.2	3.0	3,414
Marothile	0.0	0.0	13.2	23.5	14.4	47.7	0.3	0.9	1,170
Rhamu	1.2	0.7	32.1	17.0	18.4	26.5	0.7	3.5	3,648
Rhamu Dimtu	0.1	0.1	18.2	4.6	38.9	32.5	0.0	5.5	3,656
Mandera South Constituency	0.8	0.1	37.2	11.3	5.8	43.3	0.2	1.3	23,630
Wargadud	0.1	0.1	41.0	2.2	0.7	50.9	0.0	5.1	2,961
Kotulo	0.1	0.1	47.3	4.9	3.8	43.2	0.3	0.4	6,819
Elwak South	2.3	0.1	34.2	10.6	10.9	40.6	0.2	1.1	6,994
Elwak North	0.5	0.1	32.6	5.1	5.5	54.4	0.2	1.6	2,869
Shambir Fatuma	0.0	0.1	25.9	34.7	4.5	34.8	0.1	0.1	3,987
Mandera East Constituency	13.7	0.5	38.6	20.5	17.2	5.8	0.4	3.3	12,070
Arabia	0.0	0.1	48.9	11.9	14.1	15.0	0.4	9.7	2,910
Bulla Mpya	12.5	0.0	25.3	31.7	27.5	1.2	0.4	1.3	2,904
Khalalio	0.0	0.3	79.6	5.8	2.9	10.5	0.1	0.8	1,367

Neboi	0.1	0.3	69.2	21.1	7.1	1.1	0.2	0.9	989
Township	33.1	1.3	18.8	23.6	19.4	1.8	0.4	1.6	3,900
Lafey Constituency	0.7	0.1	25.5	11.5	18.6	32.9	0.2	10.6	15,269
Sala	0.0	0.2	26.3	17.2	6.8	32.8	0.2	16.4	5,351
Fino	0.0	0.1	42.1	19.3	10.5	23.1	0.1	4.7	1,414
Lafey	2.0	0.1	13.4	6.5	33.1	37.2	0.3	7.3	4,613
Warankara	0.2	0.1	38.7	8.0	12.2	29.9	0.1	10.9	2,603
Alango Gof	0.5	0.0	20.7	3.6	36.9	34.7	0.1	3.6	1,288

Table 24.14: 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
Mandera County	4.5	0.3	34.5	14.8	12.0	29.7	0.3	3.8	22,260
Mandera West Constit- uency	-	0.1	57.4	4.9	3.0	34.1	0.1	0.4	2,808
Takaba South	-	-	65.2	11.0	7.9	15.7	-	0.2	543
Takaba	-	0.3	81.3	1.0	0.7	16.5	-	0.3	732
Laghsure	-	-	49.3	10.7	-	38.2	-	1.8	225
Dandu	-	-	45.4	0.8	3.3	50.3	-	0.2	604
Gither	-	0.1	39.6	5.8	2.4	51.3	0.4	0.3	704
Banissa Constituency	0.1	0.2	23.8	13.7	6.3	54.3	0.2	1.5	2,960
Banissa	0.2	0.4	34.0	22.6	4.8	34.9	0.7	2.4	846
Derkhale	-	0.2	20.5	16.9	0.6	60.8	-	1.0	479
Guba	-	0.2	20.2	9.7	17.4	51.5	-	1.1	476
Malkamari	-	-	6.4	10.4	6.9	74.0	-	2.3	566
Kiliwaheri	-	-	31.5	4.7	3.2	60.4	0.2	-	593
Mandera North Constituency	0.1	0.4	25.6	17.2	18.9	32.5	0.3	5.0	3,852
Ashabito	-	-	37.5	14.7	1.8	42.7	-	3.3	987
Guticha	-	-	3.8	23.5	13.2	52.2	-	7.3	689
Marothile	-	0.8	14.2	37.5	11.3	35.4	0.4	0.4	240
Rhamu	0.2	1.3	31.6	19.7	26.0	16.3	0.9	4.1	1,198
Rhamu Dimtu	-	-	24.3	3.9	37.9	26.0	-	7.9	738
Mandera South Constituency	0.9	0.0	40.0	11.3	7.0	38.4	0.2	2.2	5,274
Wargadud	-	-	54.5	1.5	0.8	34.7	0.1	8.3	712
Kotulo	0.1	0.1	51.0	4.0	9.0	34.1	0.7	1.0	1,155
Elwak South	2.9	-	40.9	8.9	9.7	36.3	0.1	1.3	1,601
Elwak North	0.5	-	32.7	6.5	6.8	50.5	0.2	2.9	658
Shambir Fatuma	-	-	22.8	30.8	5.1	40.9	-	0.3	1,148
Mandera East Constit- uency	19.3	0.7	33.8	22.7	17.8	2.7	0.4	2.5	4,823
Arabia	0.2	-	52.5	14.8	11.2	8.2	0.9	12.1	438
Bulla Mpya	16.1	0.1	33.4	24.7	22.3	1.3	0.1	1.9	1,389
Khalalio	-	0.3	83.1	5.0	1.8	9.5	0.3	-	379
Neboi	-	-	64.5	19.4	13.5	0.7	-	2.0	304

Township	30.6	1.4	18.4	26.3	19.5	1.6	0.6	1.5	2,313
Lafey Constituency	0.9	0.2	25.2	15.7	18.0	25.4	0.1	14.6	2,543
Sala	-	0.5	28.8	27.1	4.9	21.0	-	17.7	871
Fino	-	-	46.3	19.4	7.9	22.0	-	4.4	227
Lafey	2.4	-	16.9	6.6	29.0	26.1	0.1	19.0	890
Warankara	-	-	24.4	13.8	14.5	37.4	0.3	9.6	385
Alango Gof	0.6	-	23.5	4.1	48.2	22.4	-	1.2	170

Table 24.15: 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
Mandera County	7.4	0.1	0.5	91.7	0.3	120,077
Mandera West Constituency	6.7	0.1	0.4	92.6	0.2	17,422
Takaba South	5.1	0.1	0.7	93.9	0.2	4,316
Takaba	24.1	0.4	0.4	74.9	0.2	3,469
Laghsure	1.4	-	0.5	97.9	0.3	1,506
Dandu	1.6	0.0	0.2	98.1	0.2	4,228
Gither	0.8	-	0.1	98.8	0.2	3,903
Banissa Constituency	1.9	0.1	0.3	97.6	0.2	18,876
Banissa	5.6	0.1	0.4	93.6	0.2	5,146
Derkhale	0.2	0.1	0.1	99.5	0.1	3,787
Guba	0.9	0.1	0.0	98.6	0.4	2,490
Malkamari	0.2	0.1	0.1	99.5	0.1	3,554
Kiliwaheri	0.9	0.1	0.5	98.4	0.1	3,899
Mandera North Constituency	3.4	0.1	0.5	95.7	0.3	20,170
Ashabito	2.0	0.1	0.3	97.5	0.1	5,417
Guticha	0.1	0.1	0.1	99.5	0.2	4,103
Marothile	1.9	0.1	0.2	97.6	0.2	1,410
Rhamu	10.7	0.2	1.6	87.1	0.5	4,846
Rhamu Dimtu	0.5	0.0	0.1	99.0	0.3	4,394
Mandera South Constituency	8.0	0.1	0.5	91.3	0.2	28,904
Wargadud	2.2	0.1	0.1	97.1	0.4	3,673
Kotulo	3.1	0.0	0.6	96.2	0.2	7,974
Elwak South	21.3	0.1	0.8	77.6	0.2	8,595
Elwak North	2.8	0.0	0.6	96.4	0.3	3,527
Shambir Fatuma	0.9	0.0	0.0	98.8	0.2	5,135
Mandera East Constituency	25.4	0.4	1.0	72.7	0.6	16,893
Arabia	0.3	-	0.1	99.5	0.1	3,348
Bulla Mpya	27.3	0.3	0.2	71.2	1.1	4,293
Khalalio	0.6	0.1	0.8	98.4	0.1	1,746
Neboi	1.3	-	8.0	89.6	1.1	1,293
Township	49.6	0.9	0.6	48.5	0.5	6,213
Lafey Constituency	0.3	0.1	0.4	99.0	0.3	17,812
Sala	0.3	0.1	0.1	99.3	0.2	6,222
Fino	0.1	0.1	0.1	99.6	0.1	1,641

Lafey	0.3	0.1	1.0	98.2	0.3	5,503
Warankara	0.3	-	0.1	99.2	0.5	2,988
Alango Gof	0.1	0.1	0.2	99.5	0.1	1,458

Table 24.16: 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
Mandera County	6.5	0.1	0.5	92.7	0.3	97,817	11.2	0.2	0.6	87.7	0.4	22,260
Mandera West Constituency	6.7	0.1	0.4	92.6	0.2	14,614	6.9	0.1	0.2	92.4	0.3	2,808
Takaba South	5.0	0.1	0.8	93.9	0.2	3,773	5.3	-	0.6	93.9	0.2	543
Takaba	25.1	0.4	0.3	74.0	0.1	2,737	20.5	0.3	0.5	78.4	0.3	732
Laghsure	1.4	-	0.5	97.8	0.2	1,281	1.3	-	-	98.2	0.4	225
Dandu	1.6	0.0	0.2	98.0	0.2	3,624	1.5	-	-	98.5	-	604
Gither	0.9	-	0.1	98.8	0.1	3,199	0.6	-	-	98.7	0.7	704
Banissa Constituency	1.9	0.1	0.2	97.6	0.1	15,916	2.1	0.1	0.4	97.1	0.3	2,960
Banissa	5.4	0.1	0.4	93.9	0.2	4,300	6.6	0.1	0.7	92.2	0.4	846
Derkhale	0.2	0.1	0.1	99.5	0.1	3,308	0.2	-	0.2	99.2	0.4	479
Guba	0.9	0.1	-	98.7	0.3	2,014	0.8	-	0.2	98.5	0.4	476
Malkamari	0.2	0.1	0.1	99.5	0.0	2,988	-	-	-	99.8	0.2	566
Kiliwaheri	1.1	0.1	0.5	98.3	0.1	3,306	0.3	0.2	0.7	98.7	0.2	593
Mandera North Constituency	3.1	0.1	0.5	96.1	0.2	16,318	4.3	0.2	0.7	94.4	0.3	3,852
Ashabito	1.9	0.1	0.3	97.7	0.0	4,430	2.3	0.2	0.1	97.1	0.3	987
Guticha	0.1	0.1	0.0	99.5	0.1	3,414	-	0.1	0.3	99.1	0.4	689
Marothile	1.7	-	0.3	97.8	0.3	1,170	2.9	0.4	-	96.7	-	240
Rhamu	10.5	0.1	1.5	87.4	0.4	3,648	11.2	0.3	2.1	85.9	0.5	1,198
Rhamu Dimtu	0.5	0.0	0.2	98.9	0.4	3,656	0.1	-	-	99.7	0.1	738
Mandera South Constituency	7.7	0.1	0.5	91.4	0.2	23,630	8.9	0.1	0.3	90.5	0.2	5,274
Wargadud	2.1	0.1	0.1	97.3	0.4	2,961	2.5	0.1	0.3	96.6	0.4	712
Kotulo	2.8	0.0	0.6	96.3	0.1	6,819	4.4	-	0.3	95.1	0.3	1,155
Elwak South	20.9	0.1	0.9	77.9	0.2	6,994	23.3	0.1	0.4	76.1	0.1	1,601

Elwak North	2.6	_	0.6	96.5	0.3	2,869	3.6	0.2	0.3	95.7	0.2	658
Shambir Fatuma	1.0	0.1	0.1	98.7	0.3	3,987	0.5	_	_	99.3	0.2	1,148
Mandera East Constit-												
uency	22.3	0.4	0.9	75.9	0.5	12,070	33.0	0.4	1.2	64.7	0.7	4,823
Arabia	0.2	-	0.0	99.7	0.1	2,910	0.9	-	0.7	98.4	-	438
Bulla Mpya	25.1	0.1	0.2	73.7	1.0	2,904	31.8	0.6	0.2	66.2	1.2	1,389
Khalalio	0.4	0.1	0.7	98.8	0.1	1,367	1.6	-	1.3	96.8	0.3	379
Neboi	1.6	-	6.6	91.1	0.7	989	0.3	-	12.5	84.9	2.3	304
Township	49.8	1.1	0.7	47.9	0.6	3,900	49.2	0.5	0.4	49.5	0.5	2,313
Lafey Constituency	0.3	0.1	0.4	99.0	0.3	15,269	0.4	0.1	0.6	98.7	0.2	2,543
, ,						,						,
Sala	0.3	0.1	0.2	99.2	0.2	5,351	0.2	0.1	-	99.5	0.1	871
Fino	0.1	0.1	0.1	99.7	0.1	1,414	0.4	-	0.4	99.1	-	227
Lafey	0.3	0.1	1.0	98.4	0.3	4,613	0.4	0.2	1.5	97.3	0.6	890
Warankara	0.3	_	0.1	99.1	0.5	2,603	0.3	_	_	99.7	_	385
	3.0			30	7.0	2,000						
Alango Gof	0.1	0.1	0.2	99.5	0.2	1,288	0.6	-	-	99.4	-	170

Table 24.17: 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
Mandera County	11.5	0.5	0.1	0.4	62.1	24.2	0.1	0.2	0.8	120,077
Mandera West Constituency	14.9	0.3	0.1	0.1	83.2	0.8	0.1	0.4	0.1	17,422
Takaba South	13.1	0.4	0.1	0.2	83.3	1.5	0.2	1.2	0.0	4,316
Takaba	45.1	0.3	0.1	0.1	53.5	0.4	0.1	0.3	0.0	3,469
Laghsure	7.2	0.5	0.2	0.3	90.7	0.3	0.1	0.3	0.4	1,506
Dandu	5.1	0.2	0.0	0.1	94.0	0.3	0.2	0.0	0.0	4,228
Gither	3.5	0.3	0.0	0.1	94.9	1.1	0.1	0.1	0.0	3,903
Banissa Constituency	8.3	0.3	0.0	1.0	75.4	14.6	0.1	0.2	0.1	18,876
Banissa	22.4	0.5	0.0	0.3	65.1	11.5	0.1	0.1	0.1	5,146
Derkhale	2.8	0.3	0.0	0.3	84.6	11.6	0.0	0.3	0.1	3,787
Guba	4.3	0.2	0.0	0.3	93.9	0.6	0.2	0.3	0.3	2,490
Malkamari	2.6	0.2	0.0	0.0	92.1	4.6	0.2	0.2	0.1	3,554
Kiliwaheri	3.0	0.2	0.1	3.7	53.0	39.8	0.1	0.2	0.1	3,899
Mandera North Constituency	5.5	1.8	0.1	0.6	54.1	36.4	0.1	0.3	1.0	20,170
Ashabito	5.7	4.2	0.0	0.3	75.9	13.3	0.1	0.4	0.1	5,417
Guticha	0.4	0.1	0.0	0.2	81.5	17.4	0.0	0.2	0.1	4,103
Marothile	5.7	5.1	0.0	0.4	68.5	19.0	0.1	1.0	0.1	1,410
Rhamu	13.8	0.7	0.4	1.6	31.5	50.9	0.2	0.3	0.7	4,846

Rhamu Dimtu	0.8	0.8	0.0	0.1	22.1	72.1	0.1	0.1	3.8	4,394
Mandera South Constituency	11.6	0.2	0.1	0.2	86.2	1.3	0.1	0.1	0.1	28,904
Wargadud	9.9	0.1	0.0	0.1	87.5	2.0	0.1	0.0	0.3	3,673
Kotulo	5.7	0.2	0.1	0.2	92.4	1.1	0.1	0.3	0.0	7,974
Elwak South	24.5	0.3	0.3	0.3	73.7	0.6	0.1	0.0	0.1	8,595
Elwak North	3.0	0.1	0.1	0.5	94.1	2.0	0.0	0.1	0.1	3,527
Shambir Fatuma	6.3	0.2	0.0	0.1	91.3	1.8	0.0	0.0	0.1	5,135
Mandera East Constituency	30.1	0.3	0.3	0.8	26.5	41.0	0.1	0.3	0.7	16,893
Arabia	0.6	0.1	0.2	0.1	22.0	76.3	0.1	0.0	0.5	3,348
Bulla Mpya	31.9	0.4	0.0	0.8	49.6	16.2	0.1	0.2	0.7	4,293
Khalalio	1.5	0.1	0.2	0.1	1.9	96.0	0.1	0.1	0.0	1,746
Neboi	3.1	0.1	0.0	0.2	14.8	81.5	0.0	0.1	0.2	1,293
Township	58.4	0.4	0.7	1.4	22.4	15.1	0.3	0.5	0.9	6,213
Lafey Constituency	0.5	0.1	0.1	0.0	30.9	65.0	0.1	0.0	3.3	17,812
Sala	0.3	0.1	0.1	0.0	11.1	79.1	0.2	0.1	9.0	6,222
Fino	1.2	0.1	0.0	0.0	98.4	0.2	0.0	0.1	0.0	1,641
Lafey	0.6	0.2	0.1	0.0	5.8	93.1	0.0	0.0	0.1	5,503
Warankara	0.5	0.1	0.0	0.1	95.4	3.8	0.0	0.0	0.0	2,988
Alango Gof	0.3	0.0	0.0	0.0	1.6	97.1	0.0	0.0	1.0	1,458

Table 24.18: Main Roofing Material in Male Headed Households by County, Constituency and Wards

County/Constituency/Wards	Corrugat- ed 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
Mandera County	10.4	0.4	0.1	0.4	62.9	24.7	0.1	0.2	0.8	97,817
Mandera West Constituency	14.5	0.3	0.1	0.1	83.5	0.8	0.2	0.4	0.0	14,614
Takaba South	13.1	0.4	0.1	0.1	83.2	1.6	0.2	1.2	0.0	3,773
Takaba	45.9	0.3	0.1	0.1	52.8	0.4	0.1	0.3	0.0	2,737
Laghsure	6.6	0.5	0.2	0.4	91.2	0.4	0.2	0.2	0.4	1,281
Dandu	4.8	0.3	-	0.1	94.3	0.2	0.2	0.0	-	3,624
Gither	3.6	0.2	-	0.1	94.7	1.2	0.2	0.1	-	3,199
Banissa Constituency	8.1	0.3	0.0	0.7	75.5	14.9	0.1	0.2	0.1	15,916
Banissa	21.9	0.5	0.0	0.3	65.7	11.3	0.0	0.1	0.1	4,300
Derkhale	2.8	0.3	-	0.4	84.4	11.8	0.0	0.2	0.1	3,308
Guba	4.1	0.2	-	0.4	93.9	0.7	0.2	0.2	0.2	2,014
Malkamari	2.6	0.2	-	0.0	92.1	4.7	0.2	0.2	0.0	2,988

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Kiliwaheri	3.0	0.2	0.0	2.5	53.3	40.7	0.1	0.2	0.1	3,306
Mandera North Constituency	5.2	1.4	0.1	0.4	54.3	37.2	0.1	0.3	1.0	16,318
Ashabito	5.2	3.0	-	0.2	76.7	14.4	0.1	0.3	0.1	4,430
Guticha	0.4	0.1	-	0.2	82.8	16.2	0.1	0.2	0.1	3,414
Marothile	5.5	3.2	-	0.4	70.2	19.3	0.1	1.2	0.2	1,170
Rhamu	13.7	0.7	0.3	1.3	30.3	52.4	0.2	0.3	0.6	3,648
Rhamu Dimtu	0.8	0.9	0.0	0.1	19.3	75.1	0.1	0.1	3.5	3,656
Mandera South Constituency	11.1	0.2	0.1	0.2	86.8	1.2	0.1	0.1	0.1	23,630
Wargadud	9.5	0.1	0.0	0.1	88.1	1.8	0.1	0.0	0.3	2,961
Kotulo	5.3	0.1	0.1	0.2	92.9	1.0	0.1	0.2	0.0	6,819
Elwak South	23.9	0.4	0.4	0.3	74.2	0.7	0.1	0.0	0.1	6,994
Elwak North	2.8	0.1	0.1	0.5	94.6	1.8	-	0.1	0.1	2,869
Shambir Fatuma	6.0	0.2	0.0	0.1	91.9	1.6	_	0.0	0.1	3,987
Mandera East Constituency	26.6	0.3	0.3	0.8	26.3	44.6	0.1	0.3	0.5	12,070
Arabia	0.5	0.1	0.2	0.2	22.0	76.3	0.1	0.0	0.5	2,910
Bulla Mpya	29.8	0.4	0.1	0.8	52.8	15.4	0.1	0.2	0.5	2,904
Khalalio	1.2	0.1	0.1	0.1	2.2	96.1	0.1	0.1	_	1,367
Neboi	3.1	0.1	-	0.2	13.9	82.4	_	0.1	0.2	989
Township	58.5	0.4	0.8	1.8	21.5	15.2	0.3	0.7	0.7	3,900
Lafey Constituency	0.5	0.1	0.0	0.0	31.2	64.8	0.1	0.0	3.2	15,269
Sala	0.2	0.1	0.1	0.1	11.2	79.2	0.2	0.1	8.9	5,351
Fino	0.8	0.1	_	_	98.8	0.2	-	-	-	1,414
Lafey	0.6	0.2	0.1	0.0	5.7	93.2	0.0	-	0.1	4,613
Warankara	0.5	0.1	_	0.0	95.4	3.9	_	-	0.0	2,603
Alango Gof	0.3	_	-	_	1.6	97.4	_	-	0.6	1,288
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Table 24.19: 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
Mandera County	16.3	0.8	0.1	0.7	58.4	22.4	0.1	0.2	0.9	22,260
Mandera West Con- stituency	16.6	0.3	0.1	0.2	81.9	0.5	-	0.4	0.1	2,808
Takaba South	12.7	0.4	-	0.4	84.3	0.6	-	1.5	0.2	543
Takaba	41.8	0.4	0.3	0.1	56.4	0.7	-	0.3	-	732
Laghsure	10.7	-	-	-	88.0	-	-	0.9	0.4	225
Dandu	7.0	-	-	-	92.4	0.7	-	-	-	604
Gither	3.4	0.4	-	0.3	95.5	0.4	-	-	-	704
Banissa Constituency	9.5	0.2	0.0	2.1	74.6	13.0	0.1	0.4	0.1	2,960
Banissa	24.6	0.5	-	0.5	61.8	12.3	0.2	0.1	-	846
Derkhale	2.9	0.2	-	-	85.6	10.4	-	0.8	-	479
Guba	5.0	-	-	-	93.7	-	-	0.8	0.4	476
Malkamari	3.0	-	-	-	92.2	4.1	0.4	0.2	0.2	566
Kiliwaheri	3.0	-	0.2	9.9	51.8	34.9	-	0.2	-	593
Mandera North Constituency	7.1	3.5	0.2	1.0	53.5	33.0	0.1	0.3	1.3	3,852
Ashabito	8.1	9.3	-	0.6	72.1	8.8	0.1	0.8	0.1	987
Guticha	0.4	0.1	-	0.4	75.0	23.5	-	0.3	0.1	689
Marothile	7.1	14.6	-	0.4	60.4	17.5	-	-	-	240
Rhamu	13.9	0.4	0.7	2.3	35.1	46.3	0.2	0.3	0.8	1,198
Rhamu Dimtu	0.7	0.3	-	-	36.0	57.5	0.1	-	5.4	738
Mandera South Con- stituency	13.7	0.2	0.1	0.2	83.5	1.8	0.1	0.2	0.2	5,274
Wargadud	11.5	-	-	-	85.0	2.9	0.1	-	0.4	712
Kotulo	8.1	0.4	0.1	0.3	88.9	1.5	-	0.5	0.2	1,155
Elwak South	27.2	0.2	0.2	0.3	71.4	0.2	0.2	0.1	0.1	1,601
Elwak North	4.0	0.2	-	0.5	92.1	3.2	0.2	-	-	658
Shambir Fatuma	7.6	0.1	-	-	89.3	2.8	-	0.1	0.2	1,148
Mandera East Constit- uency	38.8	0.3	0.2	0.6	26.9	31.7	0.1	0.2	1.1	4,823
Arabia	0.7	0.5	-	-	21.7	76.7	-	-	0.5	438
Bulla Mpya	36.4	0.4	-	0.6	43.0	17.9	0.2	0.2	1.3	1,389
Khalalio	2.6	-	0.5	0.3	1.1	95.5	-	-	-	379
Neboi	3.0	-	-	0.3	17.8	78.6	-	-	0.3	304

Township	58.1	0.3	0.4	0.8	23.7	14.9	0.2	0.2	1.4	2,313
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Lafey Constituency	0.7	0.2	0.1	0.0	28.9	66.3	-	0.1	3.7	2,543
Sala	0.3	0.3	0.1	_	10.2	79.0	_	0.1	9.9	871
Odia	0.5	0.0	0.1	-	10.2	73.0	_	0.1	3.3	071
Fino	3.5	-	-	-	96.0	-	-	0.4	-	227
Lafey	0.7	_	0.1	_	6.3	92.7	_	0.1	0.1	890
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Warankara	0.3	0.3	0.3	0.3	95.8	3.1	-	-	-	385
Alango Gof	0.6	-	-	-	1.8	94.1	-	-	3.5	170

Table 24.20: Main material of the wall by County, Constituency and Wards

County/Constituency/ Wards	Stone	Brick/ Block	Mud/ Wood	Mud/Ce- ment	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
Mandera County	2.9	4.5	6.0	1.9	18.3	0.2	63.6	0.1	2.4	120,077
Mandera West Constituency	0.3	4.6	10.4	3.1	20.4	0.5	60.5	0.1	0.1	17,422
Takaba South	0.7	2.8	13.8	4.7	21.1	0.5	56.1	0.1	0.0	4,316
Takaba	0.5	18.1	21.0	7.6	7.8	1.1	43.8	0.0	0.1	3,469
Laghsure	0.1	0.9	9.4	1.2	58.8	0.4	28.7	0.1	0.3	1,506
Dandu	0.1	0.4	4.6	0.9	8.9	0.2	84.6	0.1	0.1	4,228
Gither	0.1	0.5	3.9	0.4	28.6	0.1	66.4	0.0	0.0	3,903
Banissa Constituency	0.3	0.9	7.5	1.9	10.9	0.2	78.0	0.1	0.1	18,876
Banissa	0.6	2.8	17.5	5.9	17.5	0.3	55.2	0.1	0.2	5,146
Derkhale	0.0	0.2	4.5	0.2	13.7	0.1	81.2	0.1	0.0	3,787
Guba	0.2	0.2	4.4	0.9	4.7	0.5	88.8	0.0	0.3	2,490
Malkamari	0.1	0.1	2.6	0.5	1.0	0.1	95.6	0.0	0.0	3,554
Kiliwaheri	0.6	0.2	3.5	0.4	12.7	0.2	82.2	0.1	0.1	3,899
Mandera North Constituency	1.2	2.2	9.4	2.9	23.8	0.4	57.6	0.1	2.4	20,170
Ashabito	0.8	1.0	6.2	1.1	5.0	0.1	85.7	0.0	0.1	5,417
Guticha	0.1	0.0	4.6	0.3	9.5	0.1	85.3	0.0	0.0	4,103
Marothile	1.6	0.3	7.3	2.1	20.2	2.6	65.5	0.0	0.4	1,410
Rhamu	3.3	7.3	24.6	9.5	15.8	0.4	38.2	0.1	0.7	4,846
Rhamu Dimtu	0.2	0.5	1.9	0.5	70.2	0.2	16.2	0.2	10.1	4,394
Mandera South Constituency	7.5	1.1	3.1	0.9	10.5	0.1	76.7	0.0	0.1	28,904
Wargadud	1.1	0.6	6.7	1.1	4.1	0.0	86.2	0.1	0.2	3,673
Kotulo	1.5	2.0	3.7	0.4	16.9	0.1	75.2	0.0	0.1	7,974
Elwak South	21.9	1.3	0.4	2.0	11.1	0.1	63.0	0.0	0.2	8,595
Elwak North	2.8	0.5	0.4	0.2	13.8	0.1	82.2	0.0	0.1	3,527
Shambir Fatuma	0.6	0.4	5.9	0.2	1.5	0.1	91.2	0.0	0.1	5,135
Mandera East Constituency	5.1	21.2	5.8	2.5	14.5	0.2	49.0	0.1	1.5	16,893
Arabia	0.5	0.3	0.4	0.3	10.9	0.1	86.6	0.1	0.8	3,348
Bulla Mpya	4.0	24.7	6.2	2.9	3.4	0.2	54.7	0.1	3.7	4,293
Khalalio	0.1	0.8	9.8	3.2	66.7	0.3	18.8	0.2	0.1	1,746

Neboi	0.8	0.5	2.5	0.7	36.9	0.3	58.2	0.0	0.2	1,293
Township	10.7	40.1	7.9	3.7	4.8	0.3	31.3	0.1	1.1	6,213
Lafey Constituency	0.2	0.6	1.4	0.8	34.2	0.2	50.6	0.3	11.8	17,812
Sala	0.4	0.3	2.6	2.0	15.6	0.2	54.2	0.3	24.4	6,222
Fino	0.1	0.4	1.0	0.0	5.1	0.2	92.5	0.0	0.6	1,641
Lafey	0.1	1.4	0.4	0.1	66.4	0.3	20.8	0.5	10.0	5,503
Warankara	0.2	0.3	1.3	0.1	2.6	0.1	95.4	0.0	0.0	2,988
Alango Gof	0.1	0.1	0.3	0.1	89.2	0.3	8.3	0.2	1.3	1,458

Table 24.21: 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	Corrugat- ed 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
Mandera County	2.6	3.9	5.8	1.9	19.1	0.3	64.1	0.1	2.3	97,817
Mandera West Constituency	0.4	4.5	10.2	3.2	20.9	0.5	60.2	0.1	0.1	14,614
Takaba South	0.8	2.7	14.1	5.0	22.8	0.6	53.9	0.1	0.1	3,773
Takaba	0.5	18.7	20.8	7.9	7.9	1.2	42.9	0.0	0.0	2,737
Laghsure	0.2	1.1	8.6	1.1	59.4	0.4	28.9	0.2	0.2	1,281
Dandu	0.2	0.5	4.2	0.9	8.1	0.1	85.7	0.1	0.1	3,624
Gither	0.2	0.4	3.8	0.4	28.8	0.1	66.2	0.0	0.0	3,199
Banissa Constituency	0.4	0.9	7.2	1.9	11.3	0.2	78.1	0.1	0.1	15,916
Banissa	0.7	2.7	16.9	5.6	18.7	0.3	54.7	0.1	0.2	4,300
Derkhale	0.0	0.2	4.3	0.2	14.1	0.2	81.0	0.1	0.0	3,308
Guba	0.2	0.2	4.3	0.9	5.1	0.4	88.6	-	0.2	2,014
Malkamari	0.1	0.1	2.4	0.6	1.1	0.1	95.6	-	-	2,988
Kiliwaheri	0.6	0.3	3.3	0.4	11.6	0.2	83.5	0.1	0.1	3,306
Mandera North Constituency	1.1	2.0	8.6	2.7	24.7	0.4	57.9	0.1	2.4	16,318
Ashabito	0.7	1.0	5.3	1.1	4.7	0.1	87.0	0.0	0.1	4,430
Guticha	0.1	0.1	4.1	0.3	9.5	0.1	85.6	0.1	0.0	3,414
Marothile	1.5	0.3	7.4	2.3	21.1	2.8	64.2	-	0.4	1,170
Rhamu	3.3	7.2	24.3	9.4	16.9	0.5	37.7	0.1	0.7	3,648
Rhamu Dimtu	0.1	0.6	1.7	0.5	72.0	0.2	15.0	0.2	9.7	3,656

Mandera South Constituency	7.1	1.1	3.0	1.0	11.3	0.1	76.3	0.0	0.1	23,630
Wargadud	1.0	0.6	6.4	0.9	4.2	-	86.7	0.1	0.1	2,961
Kotulo	1.2	1.8	3.9	0.4	18.0	0.1	74.4	0.0	0.1	6,819
Elwak South	20.9	1.4	0.5	2.4	11.8	0.2	62.8	0.0	0.2	6,994
Elwak North	2.6	0.5	0.4	0.1	14.8	0.1	81.4	-	0.1	2,869
Shambir Fatuma	0.7	0.4	5.4	0.2	1.6	0.1	91.5	0.0	0.2	3,987
Mandera East Constituency	4.3	19.0	5.7	2.5	15.7	0.2	51.3	0.1	1.2	12,070
Arabia	0.5	0.3	0.4	0.3	10.8	0.1	86.8	0.1	0.7	2,910
Bulla Mpya	3.3	23.2	6.8	3.2	3.2	0.2	57.2	0.0	2.7	2,904
Khalalio	0.1	0.4	9.0	3.0	68.1	0.2	18.9	0.2	0.1	1,367
Neboi	0.9	0.5	2.5	0.8	37.3	0.2	57.6	-	0.1	989
Township	10.0	41.0	8.4	3.9	4.9	0.4	30.0	0.2	1.2	3,900
Lafey Constituency	0.3	0.6	1.2	0.8	34.6	0.2	51.0	0.2	11.2	15,269
Sala	0.4	0.2	2.3	2.1	14.7	0.2	55.4	0.3	24.5	5,351
Fino	0.1	0.4	0.7	-	5.7	0.1	92.4	-	0.6	1,414
Lafey	0.2	1.3	0.4	0.0	69.3	0.3	20.1	0.4	8.1	4,613
Warankara	0.2	0.3	1.3	0.1	2.8	0.0	95.1	-	0.0	2,603
Alango Gof	0.1	-	0.4	0.2	89.1	0.3	8.8	0.2	1.0	1,288

Table 24.22: Main Material of the Wall in Female Headed Households by County, Constituency and Ward

County/ Constitu-	Stone	Brick/Block	Mud/Wood	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
Mandera County	4.1	7.4	7.3	2.0	14.7	0.2	61.4	0.1	2.8	22,260
Mandera West Constituency	0.1	5.1	11.6	2.6	18.2	0.4	61.9	0.1	0.1	2,808
Takaba South	0.2	3.9	12.0	2.8	9.6	-	71.5	0.2	-	543
Takaba	0.3	15.8	21.9	6.6	7.4	1.0	47.0	-	0.1	732
Laghsure	-	-	14.2	1.8	55.6	0.4	27.6	-	0.4	225
Dandu	-	0.2	6.8	1.0	13.9	0.3	77.5	0.2	0.2	604
Gither	-	0.6	4.0	0.1	27.7	0.1	67.5	-	-	704
Banissa Constitu- ency	0.2	0.8	9.3	2.4	9.3	0.2	77.6	0.0	0.2	2,960
Banissa	0.1	2.8	20.4	7.1	11.0	0.2	58.0	-	0.2	846
Derkhale	-	-	6.3	0.4	10.4	-	82.7	0.2	-	479

Guba	0.4	-	4.6	1.1	2.9	1.1	89.5	-	0.4	476
Malkamari	0.4	-	3.5	0.2	0.5	_	95.2	-	0.2	566
Kiliwaheri	0.2	-	4.9	0.3	19.2	-	75.2	-	0.2	593
Mandera North Constituency	1.6	2.7	12.8	3.5	20.0	0.2	56.4	0.1	2.6	3,852
Ashabito	1.1	0.9	10.3	1.1	6.4	-	79.9	-	0.2	987
Guticha	0.1	-	6.8	0.1	9.4	0.1	83.3	-	-	689
Marothile	2.5	0.4	6.7	1.3	15.8	1.3	71.7	-	0.4	240
Rhamu	3.5	7.6	25.6	9.8	12.6	0.2	39.7	0.2	0.8	1,198
Rhamu Dimtu	0.3	0.4	3.0	0.5	61.5	0.1	22.1	0.1	11.9	738
Mandera South Constituency	9.3	1.1	3.4	0.6	6.8	0.0	78.6	-	0.1	5,274
Wargadud	1.3	0.6	7.9	1.5	4.1	-	84.4	-	0.3	712
Kotulo	3.2	2.9	2.6	0.4	10.6	0.1	79.9	-	0.2	1,155
Elwak South	26.1	0.8	0.2	0.7	8.2	-	63.8	-	0.1	1,601
Elwak North	3.6	0.5	0.3	0.3	9.6	-	85.6	-	0.2	658
Shambir Fatuma	0.4	0.4	7.5	0.2	1.2	-	90.2	-	0.1	1,148
Mandera East Constituency	7.3	26.7	6.0	2.6	11.5	0.2	43.2	0.2	2.3	4,823
Arabia	0.5	0.5	0.2	-	11.6	-	85.8	0.2	1.1	438
Bulla Mpya	5.5	27.9	4.8	2.3	3.8	0.2	49.5	0.2	5.8	1,389
Khalalio	0.3	2.4	12.7	4.0	61.7	0.5	18.2	0.3	-	379
Neboi	0.3	0.3	2.3	0.3	35.5	0.7	59.9	-	0.7	304
Township	11.8	38.5	7.1	3.3	4.8	0.1	33.3	0.1	1.0	2,313
Lafey Constituency	0.1	1.1	2.2	0.7	31.7	0.2	48.0	0.5	15.5	2,543
Sala	0.2	0.5	4.7	1.8	21.6	0.1	47.0	0.2	23.9	871
Fino	-	0.9	3.1	-	1.8	0.4	93.0	-	0.9	227
Lafey	-	2.1	0.7	0.2	51.3	0.1	24.4	1.2	19.9	890
Warankara	-	0.3	0.8	0.3	1.0	0.3	97.4	-	-	385
Alango Gof	-	0.6	_	_	90.6	0.6	4.7		3.5	170

Table 24.23: Source of Water by County, Constituency and Ward

County/Constituency/ Wards	Pond	Dam	Lake	Stream/ River	Unpro- tected Spring	Unprotect- ed Well	Jabia	Water	Other	Unim- proved Sources	Protected Spring	Protect- ed Well	Borehole	Piped into Dwelling	Piped	Rain Water Collection	Improved Sources	Number of Individuals
Kenya	2.7	2.4	1.2	23.2	5.0	6.9	0.3	5.2	0.4	47.4	7.6	7.7	11.6	5.9	19.2	0.7	52.6	37,919,647
Rural	3.6	3.2	1.5	29.6	6.4	8.7	9.4	2.2	0.5	56.0	9.2	8.1	12.0	1.8	12.1	8.0	44.0	26,075,195
Urban	6:0	0.7	0.5	9.2	1.9	2.9	0.2	11.8	0.1	28.3	4.0	8.9	10.7	14.7	34.9	0.5	71.7	11,844,452
Mandera County	25.9	3.7	0.1	6.4	0.3	9.7	3.7	11.9	0.3	62.0	0.2	3.6	27.3	1.2	4.5	1.2	38.0	1,022,794
Mandera West Constituency	90.3	1.2	0:0	0.0	0.1	1.2	2.4	0.2	6.0	96.3	0.0	0.0	0.3	0.0	0.0	3.3	3.7	160,701
Takaba South	81.2	2.0	0.0	0.1	0.1	0.0	0.1	6:0	3.1	87.6	0.0	0.0	1.1	0.0	0.1	11.2	12.4	42,300
Takaba	97.6	1.2	0.0	0.0	0.2	0.0	8.8	0.0	9.4	98.3	0.0	0.0	0.0	0.0	0.1	1.6	1.7	33,283
Laghsure	2.66	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.1	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14,756
Dandu	2.96	6:0	0.0	0.0	0.0	0.0	2.2	0.0	0:0	99.9	0.0	0.0	0.0	0.0	0.0	0.0	0.1	37,404
Gither	93.2	6:0	0.0	0.0	0.0	5.7	0.0	0.0	0.0	6.66	0.1	0.1	0.0	0.0	0.0	0.0	0.1	32,958
Banissa Constituency	73.9	3.2	0.0	6.3	0.1	3.1	9.6	0.5	0:0	95.7	0.1	0.2	1.2	0.0	0.1	2.7	4.3	157,833
Banissa	91.7	3.8	0.1	0.0	0.0	0.0	0.0	0.0	0:0	95.7	0.2	0.0	0.0	0.0	0.0	4.0	4.3	44,365
Derkhale	45.4	2.8	0.0	0.0	0.4	14.9	31.5	0.1	0:0	95.1	0.0	9.0	0.0	0.1	0.1	3.9	4.9	32,078
Guba	88.5	1.9	0.0	0.0	0.0	0.1	2.5	2.9	0.0	95.9	0.1	0.2	2.2	0.0	0.1	1.5	4.1	20,039
Malkamari	37.4	6.3	0.1	35.8	0.1	0.4	10.5	0.4	0.1	91.0	0.1	0.3	5.0	0.1	0.0	3.5	9.0	27,581
Kiliwaheri	98.6	6:0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	9.66	0.0	0.1	0.0	0.0	0.0	0.1	0.2	33,770
Mandera North Constituency	6:0	8.8	0.5	16.7	0.7	1.9	7.9	20.6	0.1	58.0	0.3	1.2	22.0	2.8	14.2	1.6	42.0	169,360
Ashabito	0.0	0.3	0.0	0.1	0.3	1.8	6.6	32.3	0:0	44.7	0.1	3.6	49.8	0.1	1.6	0.0	55.3	43,415
Guticha	9.0	30.6	0.0	9.0	1.9	9.0	11.7	20.1	0.1	66.4	0.5	0.5	32.5	0.1	0.0	0.0	33.6	33,649

Marothile	0.2	11.5	0.2	0.0	6.0	0.0	0.0	51.4	0.0	64.3	0.3	1.6	29.3	0.3	4.0	0.1	35.7	13,550
Rhamu	3.1	1.8	0.2	26.1	0.5	1.5	12.2	10.4	0.2	55.9	0.3	0.1	1.5	9.4	26.6	6.2	44.1	42,156
Rhamu Dimtu	0:0	5.8	1.9	46.4	0.0	4.3	0:0	7.5	0.0	66.1	0.2	0.1	0.1	1.9	31.6	0.1	33.9	36,590
Mandera South Constituency	0.1	4.2	0.0	0.1	0.3	25.8	0.1	13.2	0.2	44.0	0.2	8.8	45.5	0.2	0.2	0.0	56.0	247,038
Wargadud	0.0	0.1	0.0	0.1	0.1	0.1	0.0	53.9	1.	55.4	0.1	1.0	44.5	0.0	0.0	0.0	44.6	30,346
Kotulo	0.1	11.4	0.0	0.1	0.0	1.8	0.2	2.7	0.0	16.4	0.0	2.1	81.3	0.1	0.0	0.1	83.6	70,298
Elwak South	0.2	0.1	0.0	0.1	0.5	55.5	0.3	13.9	0.0	70.5	0.4	25.6	2.4	0.5	0.7	0.0	29.5	74,796
Elwak North	0.1	3.3	0.0	0.0	1.3	75.6	0.0	9.0	0.0	80.9	1.0	11.9	6.1	0.0	0:0	0.0	19.1	27,345
Shambir Fatuma	0.0	3.2	0.0	0.1	0.1	0.5	0.0	8.5	0.0	12.5	0.0	8.0	96.6	0.0	0.0	0.0	87.5	44,253
Mandera East Constituency	0.8	1.7	0.0	12.6	0.1	3.5	3.3	39.2	7.0	61.9	0.2	3.6	18.0	5.1	11.2	0.0	38.1	134,775
Arabia	0.1	0.1	0.0	2.0	0.1	7.0	0.2	3.8	0.0	13.3	0.3	6.1	80.3	0.0	0.0	0.1	86.7	27,263
Bulla Mpya	2.3	3.8	0.0	16.3	0.2	0.5	3.5	51.8	0.1	78.4	0.2	0.3	3.8	5.0	12.3	0.0	21.6	36,725
Khalalio	0.1	3.4	0.3	24.4	0.2	17.2	9.0	8.7	0.0	63.3	0.0	4.2	0.2	2.9	29.5	0.0	36.7	13,799
Neboi	0:0	0.2	0.0	49.2	0.2	9.0	6:0	8.0	8.9	62.9	0.0	6:0	3.7	5.2	24.3	0.0	34.1	12,220
Township	9.0	6:0	0.0	2.3	0.1	0.3	3.8	68.4	0.1	76.4	0.2	5.3	1.0	9.0	8.0	0.1	23.6	44,768
Lafey Constituency	0.1	2.0	0.0	6.9	0.3	13.8	1.7	0.1	0:0	25.0	0.3	3.5	67.2	0.0	4.0	0.1	75.0	153,087
Sala	0.1	1.7	0.0	21.6	0.5	42.4	2.4	0.2	0:0	68.9	0.4	9.7	8.5	0.0	12.4	0.1	31.1	49,098
Fino	0:0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.3	0.1	98.1	0.0	0.0	0.0	98.4	16,620
Lafey	0.1	2.8	0.0	0.0	0.2	0.1	1.9	0.0	0:0	5.2	0.4	0.1	94.3	0.0	0.0	0.0	94.8	48,644
Warankara	0.2	2.4	0.0	0.1	9.0	8.0	2.3	0.0	0:0	6.4	0.0	2.0	91.5	0.0	0.0	0.0	93.6	24,603
Alango Gof	0.0	0.1	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.3	0.0	0.1	99.4	0.0	0.0	0.1	99.7	14,122



Table 24.24: Source of Water of Male headed Household by County, Constituency and Ward

County/Constituen- cy/Wards	Pond	Dam	Lake	Stream/ River	Unpro- tected Spring	Unpro- tected Well	Jabia	Water	Other	Unim- proved Sources	Pro- tected Spring	Protect- ed Well	Bore- hole	Piped into Dwelling	Piped	Rain Water Collec- tion	lm- proved Sources	Number of Indi- viduals
Kenya	2.7	2.3	1.1	22.4	4.8	6.7	9.0	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	9.6	0.4	2.4	0.5	55.6	9.2	8.2	12.1	1.9	12.2	8.0	44.4	18,016,471
Urban	0.8	9:0	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
Mandera County	26.5	3.7	0.1	6.3	0.3	10.0	3.7	11.2	0.3	62.1	0.2	3.5	27.8	1.0	4.1	1.3	37.9	844,472
Mandera West Constituency	90.6	1.2	0.0	0.1	0.1	1.1	2.2	0.2	6.0	96.4	0.0	0:0	0.3	0:0	0.0	3.2	3.6	136,092
Takaba South	81.9	2.1	0.0	0.1	1:0	0.1	0.1	6:0	2.9	88.1	0.0	0:0	1.0	0:0	0.1	10.8	11.9	37,135
Takaba	88.4	1.3	0.0	0.0	0.2		8.2	0.0	0.3	98.5		0.0			0:0	1.5	1.5	26,844
Laghsure	8.66			0.1					0.1	100.0							1	12,624
Dandu	96.7	6:0		0.0	0.0	0.0	2.2			8.66	1	0.1	0.0		0.1	0.0	0.2	32,251
Gither	93.4	6:0	,	0.0	0.0	5.6				6.66		0.1			,		0.1	27,238
Banissa Constituency	73.4	3.2	0.0	6.4	0.1	3.2	8.7	0.5	0.0	95.5	0.1	0.3	1.2	0.1	0.1	2.8	4.5	134,069
Banissa	91.7	3.1	0.1	0.0	0:0	0.0	0.1		0.0	95.1	0.2	0:0	0.0	0:0	0.0	4.6	4.9	37,331
Derkhale	45.9	3.0			0.3	14.8	31.2	0.1	0.0	95.3	0.0	0.8		0.1	0.1	3.6	4.7	28,173
Guba	87.4	2.2				0.1	2.9	3.4		0.96	0.1	0.3	2.2		0.1	1.3	4.0	16,328
Malkamari	36.4	8.9	0.1	36.6	0.1	0.5	10.1	0.4	0.0	6.06	0.1	0.2	5.1	0.1	0:0	3.5	9.1	23,500
Kiliwaheri	98.6	1.0	0.1	0.0	1	0.1		1		8.66	0.0	0.1	0.0			0.1	0.2	28,737
Mandera North Constituency	6.0	8.6	0.5	16.4	0.7	2.1	8.0	21.9	0.1	59.1	0.2	6.0	22.1	2.7	13.2	1.7	40.9	138,525
Ashabito	0.1	0.3		0.0	0.2	1.9	11.1	33.9	0.0	47.6	0.1	2.6	48.4	0.1	1.2	0.0	52.4	35,647
Guticha	0.7	28.4		9.0	1.8	0.5	10.7	21.9	0.1	64.9	0.5	0.5	34.0	0.1	0:0	0.1	35.1	28,263

Marothile	0.3	11.2	0.2	,	7:			53.0		65.8	0.4	1.3	28.1	0.3	4.0	0.1	34.2	11,531
Rhamu	3.1	1.5	0.1	25.6	0.5	1.8	12.6	10.3	0.1	55.8	0.3	0.1	1.3	9.2	26.1	7.1	44.2	32,579
Rhamu Dimtu	0.0	9.9	2.2	46.3	0.0	4.7	0.0	8.4	0.0	68.3	0.2	0.1	0.1	2.0	29.2	0.1	31.7	30,505
Mandera South Constituency	0.1	4.5	0.0	0.1	0.3	26.0	0.1	13.5	0.2	44.9	0.2	9.3	45.1	0.2	0.2	0.0	55.1	204,155
Wargadud	,	0.1		0.1	0.1	0.1	0.0	55.5	1.1	57.0	0.0	0.1	42.8	,		0.1	43.0	24,750
Kotulo	0.1	12.0	0.1	0.1	0:0	1.8	0.2	2.8	0.0	17.1	0.0	2.0	9.08	0.2	0.0	0.0	82.9	60,683
Elwak South	0.2	0:0	0.0	0.1	0.5	56.4	0.3	14.2	0.0	71.7	0.4	24.2	2.6	0.4	2.0	0.0	28.3	61,444
Elwak North	0.1	3.1		0.0	1.4	76.2		0.7	1	81.4	8.0	11.5	6.3			0.0	18.6	22,546
Shambir Fatuma	0.0	3.5		0.1	0.0	0.7		9.3	0.1	13.7	0.0	6.0	85.3	,	0.0		86.3	34,732
Mandera East Constituency	8.0	1.7	0.0	13.2	0.1	4.0	3.3	35.6	9.0	59.5	0.2	3.8	21.3	4.5	10.8	0.0	40.5	99,523
Arabia	0.1	0.1	0.0	2.0	0.1	7.1	0.1	3.9		13.5	0.3	6.2	79.9	,		0.0	86.5	24,094
Bulla Mpya	2.8	3.1		17.2	0.2	9.0	4.0	51.0	0.1	79.0	0.2	0.3	4.6	4.2	11.7	0.0	21.0	26,038
Khalalio	0.1	4.1	0.2	23.2	0.1	18.1	9.1	8.8		63.7		4.6	0.2	3.2	28.4		36.3	11,061
Neboi		0.1	,	51.4	0.1	9.0	8.0	7.9	5.8	6.99		1.	4.1	4.1	23.8		33.1	9,648
Township	0.3	1.2	0.0	2.3	0.0	0.3	4.0	0.89	0.2	76.3	0.1	5.4	1.0	9.2	7.8	0.1	23.7	28,682
Lafey Constituency	0.1	2.0		9.9	0.3	14.2	1.5	0.1	0.0	24.8	0.3	3.8	67.4	0.0	3.6	0.1	75.2	132,108
Sala	0.1	1.8		20.3	9.0	43.8	2.1	0.3		0.69	0.4	10.5	8.7	0.0	11.3	0.1	31.0	42,472
Fino		1.2		,		0.0		0.0		1.3	0.3	0.1	98.3	,			7.86	14,537
Lafey	0.1	2.8		0.0	0.2	0.1	1.5	0.0	0.0	4.7	0.4	0.1	94.7	0.0	0:0		95.3	41,141
Warankara	0.1	2.6		0.1	0.3	9.0	2.2			0.9		2.1	91.8		0:0	0.0	94.0	21,469
Alango Gof		0.1		0.1		0.1				0.2		0.2	99.5			0.1	8.66	12,489



Table 24.25: 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	Other	Unim- proved Sources	Protected Spring	Protected Well	Borehole	Piped into Dwelling	Piped	Rain Water Collection	Improved Sources	Number of Individuals
Kenya	2.8	2.7	1.3	25.2	5.3	7.4	0.3	4.4	0.3	49.7	8.1	7.7	11.3	5.1	17.5	0.7	50.3	11,164,581
Rural	3.4	3.5	1.6	30.6	6.5	8.9	0.3	1.8	0.4	57.0	9.5	8.0	11.5	1.6	11.7	0.8	43.0	8,058,724
Urban	1.0	8.0	9.0	11.1	2.3	3.4	0.2	11.1	0.1	30.5	4.7	7.0	10.5	14.2	32.5	9.0	69.5	3,105,857
Mandera County	22.8	3.4	0.1	7.1	0.4	8.3	3.9	15.2	0.4	61.4	0.2	4.2	24.7	2.0	6.5	1.0	38.6	178,322
Mandera West Constituency	88.5	6.0		1	0.0	1.5	3.6	0.2	1.1	95.8	0.1	0.0	0.4		0.1	3.6	4.2	24,609
Takaba South	76.4	1.4			ı	-	0.4	6.0	4.5	83.5	,	,	1.9		0.1	14.5	16.5	5,165
Takaba	84.7	9.0	1	ı	0.1	-	11.6		7.0	7.76	-	-	-	-	0.1	2.2	2.3	6,439
Laghsure	99.5	0.5	-	-	-	-	-		-	100.0	-	-	-	-	-	-	-	2,132
Dandu	96.5	8.0	-	ı	1	0.2	2.4		-	100.0	-	-		-	-	-	-	5,153
Gither	92.3	6.0	-	ı	-	6.3	_			99.5	0.3	0.1	0.1	-		-	0.5	5,720
Banissa Constituency	77.0	3.1	0.0	5.4	0.1	2.6	8.0	0.3	0.0	96.5		0.2	1.1		0.1	2.2	3.5	23,764
Banissa	91.6	7.0	0.1	0.1	1	0.1				98.9					0.1	1.0	1.1	7,034
Derkhale	41.9	1.6	1	0.2	0.7	15.2	34.1	0.2		93.9		0.5			1	5.6	6.1	3,905
Guba	92.9	0.5	1	ı	1	0.3	6:0	8.0		95.5			2.1		0.3	2.1	4.5	3,711
Malkamari	43.5	3.1	ı	30.9	1	0.2	12.9	6.0	0.2	91.6		0.7	4.3			3.4	8.4	4,081
Kiliwaheri	99.0	0.7	ı	ı	ı	ı		,	1	9.66	,		0.2			0.2	0.4	5,033
Mandera North Constituency	1.0	9.5	0.2	18.1	0.7	1.1	7.5	14.7	0.1	52.9	0.3	2.4	21.5	3.4	18.5	1.0	47.1	30,835
Ashabito	1	0.2	1	0.2	9.0	6.	4.5	25.0		31.8	0.3	7.9	56.1	0.2	3.7		68.2	7,768
Guticha	0.1	42.0	1	0.7	2.5	- -	17.2	10.6		74.2	0.5	0.4	24.7	0.1		1	25.8	5,386

Marothile		13.6	ı	0.3	1	0.2		42.1		56.3		3.7	36.1		4.0		43.7	2,019
Rhamu	3.2	2.5	0.3	27.8	6.0	0.3	10.8	10.7	0.3	56.2	0.5	0.1	2.2	8.6	28.1	3.1	43.8	9,577
Rhamu Dimtu	1	2.1	0.5	47.0	0.1	2.5		2.6		54.7	-	0.1		1.5	43.6	-	45.3	6,085
Mandera South Constituency	0.1	2.7	ı	0.0	0.4	24.6	0.2	11.6	0.2	39.7	0.4	12.2	47.3	0.2	0.2	0.0	60.3	42,883
Wargadud	1	,	1	0.2	0.1	1		46.8	1.1	48.1	0.1	,	51.8				51.9	5,596
Kotulo	1	7.5		ı	1	2.2	0.3	9.1	0.1	11.9		2.5	85.3		0.2	0.1	88.1	9,615
Elwak South	0.3	0.2			0.7	51.2	0.3	12.3		65.0	0.3	32.1	1.5	0.7	0.5		35.0	13,352
Elwak North		4.3		,	8.0	72.7		0.5		78.3	2.3	13.8	5.6				21.7	4,799
Shambir Fatuma	1	2.1		1	0.2	0.1		5.6	1	7.9	-	9.0	91.5			-	92.1	9,521
Mandera East Constituency	8.0	1.9	0.1	10.7	0.2	8.	3.1	49.3	0.8	68.7	0.2	3.0	8.6	6.8	12.6	0.1	31.3	35,252
Arabia	1	ı	ı	2.1	ı	6.1	0.5	3.2		11.9		5.0	82.8			0.3	88.1	3,169
Bulla Mpya	<u>+</u>	5.4	1	14.0	0.3	0.2	2.2	53.8	0.1	77.1	0.1	0.3	1.8	6.8	13.8		22.9	10,687
Khalalio	1	9.0	9.0	29.3	0.7	13.4	8.7	8.4		61.8		2.5		1.6	34.1		38.2	2,738
Neboi	1	0.3	1	40.9	0.5	0.2	1.4	8.5	10.4	62.2		0.1	2.1	9.4	26.1		37.8	2,572
Township	1.0	4.0	0.0	2.2	0.1	0.3	3.5	0.69	0.1	9.92	0.3	5.0	1.0	9.6	8.4	0.1	23.4	16,086
Lafey Constituency	0.1	1.6	ı	9.4	9.0	11.0	3.2		0.0	26.1	0.2	1.7	65.8	0.0	6.2	0.1	73.9	20,979
Sala	0.1	0.7	ı	29.7	ı	33.4	4.4			68.2	0.3	4.8	7.0		19.5	0.2	31.8	9,626
Fino	1	3.2	1	ı	ı	ı				3.2			8.96				96.8	2,083
Lafey	1	2.8			9.0	0.2	3.8		0.1	7.5	0.2		92.3	0.0			92.5	7,503
Warankara	6.0	0.8			2.5	2.1	3.3		,	9.6		1.4	89.0				90.4	3,134
Alango Gof	1	ı	1		9.0	0.5	1	1	1	1.1		1	98.5	0.4	1		98.9	1,633

Table 24.26: Human Waste Disposal by County, Constituency and Ward

County/ Constituency	Main Sewer	Septic Tank	Cess Pool	VIP Latrine	Pit Latrine	Improved Sanita- tion	Pit Latrine Uncov- ered	Bucket	Bush	Other	Unim- proved Sanitation	Number of 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
Mandera County	0.08	0.05	0.17	0.68	15.12	16.09	18.20	0.13	65.28	0.30	83.91	1,022,794
Mandera West Con- stituency	0.08	0.03	0.06	0.21	10.67	11.05	27.29	0.21	61.43	0.03	88.95	160,701
Takaba South	0.16	0.04	0.03	0.13	8.15	8.51	30.49	0.58	60.38	0.04	91.49	42,300
Takaba	0.06	0.02	0.06	0.57	16.07	16.78	48.13	0.05	35.03	0.00	83.22	33,283
Laghsure	0.12	0.00	0.00	0.13	3.59	3.84	43.64	0.00	52.34	0.18	96.16	14,756
Dandu	0.04	0.03	0.08	0.07	12.19	12.41	13.55	0.07	73.97	0.00	87.59	37,404
Gither	0.04	0.05	0.09	0.14	9.87	10.19	10.43	0.12	79.26	0.00	89.81	32,958
Banissa Constituency	0.10	0.04	0.09	0.58	8.54	9.34	15.16	0.14	75.33	0.02	90.66	157,833
Banissa	0.09	0.00	0.07	1.69	15.68	17.53	20.17	0.14	62.12	0.04	82.47	44,365
Derkhale	0.07	0.05	0.06	0.12	3.55	3.86	16.50	0.07	79.54	0.03	96.14	32,078
Guba	0.05	0.04	0.00	0.13	2.34	2.56	20.03	0.05	77.35	0.00	97.44	20,039
Malkamari	0.13	0.02	0.11	0.19	3.76	4.21	11.98	0.14	83.67	0.00	95.79	27,581
Kiliwaheri	0.12	0.09	0.18	0.13	11.47	11.98	7.03	0.27	80.69	0.03	88.02	33,770
Mandera North Constituency	0.06	0.03	0.04	0.94	15.06	16.13	9.86	0.13	73.59	0.30	83.87	169,360
Ashabito	0.02	0.00	0.02	0.07	12.38	12.50	9.31	0.12	77.98	0.09	87.50	43,415
Guticha	0.00	0.10	0.02	0.36	2.15	2.63	3.19	0.08	94.03	0.07	97.37	33,649
Marothile	0.00	0.00	0.00	0.07	8.34	8.41	8.06	0.72	81.16	1.65	91.59	13,550
Rhamu	0.20	0.05	0.05	3.11	34.28	37.70	15.80	0.05	45.98	0.47	62.30	42,156
Rhamu Dimtu	0.01	0.00	0.07	0.31	10.46	10.85	10.47	0.05	78.58	0.05	89.15	36,590
Mandera South Constituency	0.01	0.03	0.03	0.19	16.88	17.14	15.53	0.08	67.07	0.19	82.86	247,038
Wargadud	0.00	0.00	0.03	0.02	27.87	27.91	8.81	0.06	62.30	0.92	72.09	30,346
Kotulo	0.02	0.03	0.02	0.42	5.81	6.30	15.78	0.04	77.80	0.08	93.70	70,298
Elwak South	0.01	0.06	0.02	0.07	31.87	32.03	17.94	0.10	49.86	0.06	67.97	74,796
Elwak North	0.00	0.00	0.11	0.12	7.28	7.52	4.40	0.07	88.02	0.00	92.48	27,345
Shambir Fatuma	0.00	0.00	0.02	0.19	7.53	7.73	22.54	0.13	69.44	0.17	92.27	44,253
Mandera East Constituency	0.28	0.17	0.94	2.26	29.09	32.74	32.90	0.17	33.06	1.13	67.26	134,775
Arabia	0.00	0.02	0.05	0.22	3.15	3.44	16.70	0.13	79.54	0.19	96.56	27,263
Bulla Mpya	0.23	0.07	3.21	0.48	35.57	39.56	37.22	0.16	21.17	1.89	60.44	36,725
Khalalio	0.00	0.05	0.07	4.67	19.56	24.34	22.02	0.04	53.60	0.00	75.66	13,799
Neboi	0.00	0.00	0.26	0.10	19.31	19.67	21.99	0.26	54.14	3.94	80.33	12,220
Township	0.67	0.42	0.08	4.80	45.18	51.15	45.55	0.20	2.44	0.66	48.85	44,768
Lafey Constituency	0.00	0.01	0.05	0.43	11.48	11.97	12.38	0.10	75.24	0.31	88.03	153,087
Sala	0.00	0.02	0.00	1.05	10.52	11.60	12.40	0.11	75.55	0.34	88.40	49,098
Fino	0.00	0.00	0.04	0.16	8.60	8.81	8.41	0.08	82.70	0.00	91.19	16,620
Lafey	0.00	0.00	0.14	0.19	16.99	17.31	17.61	0.04	64.69	0.35	82.69	48,644
Warankara	0.00	0.02	0.04	0.00	5.82	5.88	8.99	0.11	84.55	0.47	94.12	24,603

Alango Gof 0.00 0.00	0.00 0.13	1 4 1 16	9.20	4.84	0.28	85.54	0.14	90.80	14,122
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Table 24.27: Human Waste Disposal in Male Headed household by County, Constituency and Ward

							Pit					
County/ Constituency/	Main	Septic	Cess	VIP	Pit	Improved	Latrine Uncov-				Unimproved	Number of HH
wards	Sewer	Tank	Pool	Latrine	Latrine	Sanitation	ered	Bucket	Bush	Other	Sanitation	Memmbers
Kenya	6.30	2.98	0.29	4.60	47.65	61.81	20.65	0.28	17.12	0.14	38.19	26,755,066
Rural	0.15	0.40	0.08	3.97	49.08	53.68	22.22	0.07	23.91	0.12	46.32	18,016,471
Urban	18.98	8.29	0.73	5.89	44.69	78.58	17.41	0.70	3.13	0.18	21.42	8,738,595
Mandera County	0.07	0.04	0.17	0.64	14.09	15.01	17.40	0.14	67.20	0.25	84.99	844,472
Mandera West Constit- uency	0.09	0.03	0.06	0.21	10.32	10.70	27.43	0.22	61.63	0.03	89.30	136,092
Takaba South	0.15	0.05	0.04	0.10	7.96	8.30	30.79	0.65	60.24	0.02	91.70	37,135
Takaba	0.08	0.00	0.07	0.61	15.26	16.02	50.07	0.07	33.84	0.00	83.98	26,844
Laghsure	0.13	0.00	0.00	0.15	3.92	4.21	43.12	0.00	52.46	0.21	95.79	12,624
Dandu	0.05	0.03	0.09	0.09	12.16	12.42	12.80	0.08	74.70	0.00	87.58	32,251
Gither	0.03	0.03	0.07	0.13	9.43	9.69	10.59	0.05	79.67	0.00	90.31	27,238
Banissa Constituency	0.07	0.02	0.09	0.61	8.40	9.19	14.68	0.14	75.98	0.01	90.81	134,069
Banissa	0.09	0.00	0.05	1.79	14.85	16.78	20.24	0.12	62.85	0.02	83.22	37,331
Derkhale	0.05	0.03	0.07	0.11	3.72	3.98	16.22	0.08	79.73	0.00	96.02	28,173
Guba	0.00	0.05	0.00	0.10	2.41	2.57	17.80	0.03	79.61	0.00	97.43	16,328
Malkamari	0.14	0.00	0.13	0.22	3.80	4.28	11.58	0.10	84.04	0.00	95.72	23,500
Kiliwaheri	0.07	0.03	0.18	0.15	11.80	12.24	6.71	0.32	80.70	0.03	87.76	28,737
Mandera North Constituency	0.06	0.04	0.04	0.88	14.08	15.10	9.26	0.15	75.19	0.29	84.90	138,525
Ashabito	0.03	0.00	0.03	0.05	11.74	11.84	8.30	0.15	79.61	0.11	88.16	35,647
Guticha	0.00	0.11	0.03	0.31	1.95	2.40	2.68	0.10	94.74	0.08	97.60	28,263
Marothile	0.00	0.00	0.00	0.09	7.96	8.05	8.19	0.76	81.21	1.80	91.95	11,531
Rhamu	0.21	0.06	0.06	3.09	32.99	36.42	15.35	0.06	47.79	0.37	63.58	32,579
Rhamu Dimtu	0.02	0.00	0.05	0.30	10.18	10.56	10.40	0.07	78.91	0.06	89.44	30,505
Mandera South Constituency	0.01	0.03	0.03	0.20	16.13	16.41	14.96	0.08	68.40	0.16	83.59	204,155
Wargadud	0.00	0.00	0.04	0.02	26.27	26.33	8.79	0.07	63.99	0.82	73.67	24,750
Kotulo	0.02	0.03	0.03	0.40	5.74	6.22	13.93	0.04	79.73	0.08	93.78	60,683
Elwak South	0.01	0.07	0.02	0.09	30.44	30.63	18.52	0.10	50.72	0.03	69.37	61,444
Elwak North	0.00	0.00	0.08	0.13	7.04	7.25	4.12	0.08	88.54	0.00	92.75	22,546
Shambir Fatuma	0.00	0.00	0.00	0.24	7.67	7.90	21.87	0.12	69.94	0.16	92.10	34,732
Mandera East Constituency	0.30	0.19	1.01	2.10	26.58	30.18	31.35	0.18	37.35	0.94	69.82	99,523
Arabia	0.00	0.02	0.05	0.17	2.88	3.12	15.92	0.15	80.64	0.17	96.88	24,094
Bulla Mpya	0.16	0.07	3.57	0.58	34.87	39.25	36.40	0.13	22.56	1.65	60.75	26,038
Khalalio	0.00	0.06	0.08	4.73	19.11	23.99	23.38	0.05	52.58	0.00	76.01	11,061
Neboi	0.00	0.00	0.33	0.12	18.31	18.77	22.89	0.26	55.38	2.71	81.23	9,648
Township	0.91	0.54	0.08	4.77	44.62	50.91	45.64	0.27	2.47	0.71	49.09	28,682
Lafey Constituency	0.00	0.01	0.06	0.42	11.19	11.68	11.62	0.10	76.29	0.31	88.32	132,108
Sala	0.00	0.02	0.00	1.04	9.83	10.88	11.95	0.10	76.70	0.36	89.12	42,472
Fino	0.00	0.00	0.05	0.19	8.43	8.67	8.34	0.04	82.95	0.00	91.33	14,537
Lafey	0.00	0.00	0.14	0.16	16.94	17.23	16.26	0.05	66.10	0.36	82.77	41,141
Warankara	0.00	0.02	0.05	0.00	5.82	5.90	8.13	0.13	85.44	0.41	94.10	21,469
Alango Gof	0.00	0.00	0.00	0.15	9.37	9.52	5.06	0.23	85.03	0.16	90.48	12,489

Table 24.28: 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	Unim- proved Sanitation	Number of HH Memmbers
Kenya	5.0	2.2	0.2	4.5	47.6	59.5	21.4	0.3	18.7	0.2	40.5	11,164,581.0
Rural	0.1	0.3	0.1	4.0	48.5	53.0	22.6	0.1	24.2	0.1	47.0	8,058,724.0
Urban	17.6	7.2	0.6	5.9	45.1	76.4	18.4	0.7	4.3	0.2	23.6	3,105,857.0
Mandera	0.1	0.1	0.2	0.9	20.0	21.2	22.0	0.1	56.2	0.5	78.8	178,322.0
Mandera West	0.1	0.1	0.0	0.2	12.6	13.0	26.5	0.1	60.3	0.0	87.0	24,609.0
Takaba South	0.2	0.0	0.0	0.4	9.5	10.0	28.3	0.1	61.4	0.2	90.0	5,165.0
Takaba	0.0	0.1	0.0	0.4	19.4	20.0	40.1	0.0	40.0	0.0	80.0	6,439.0
Laghsure	0.0	0.0	0.0	0.0	1.6	1.6	46.8	0.0	51.6	0.0	98.4	2,132.0
Dandu	0.0	0.0	0.0	0.0	12.4	12.4	18.2	0.0	69.4	0.0	87.6	5,153.0
Gither	0.1	0.1	0.2	0.2	12.0	12.6	9.7	0.5	77.3	0.0	87.4	5,720.0
Banissa	0.2	0.1	0.1	0.4	9.3	10.2	17.9	0.2	71.7	0.1	89.8	23,764.0
Banissa	0.1	0.0	0.1	1.1	20.1	21.5	19.8	0.3	58.2	0.1	78.5	7,034.0
Derkhale	0.3	0.2	0.0	0.2	2.4	3.0	18.5	0.0	78.2	0.3	97.0	3,905.0
Guba	0.3	0.0	0.0	0.3	2.0	2.6	29.8	0.2	67.4	0.0	97.4	3,711.0
Malkamari	0.1	0.1	0.0	0.0	3.6	3.8	14.3	0.4	81.5	0.0	96.2	4,081.0
Kiliwaheri	0.4	0.4	0.2	0.0	9.6	10.6	8.8	0.0	80.6	0.0	89.4	5,033.0
Mandera North	0.0	0.0	0.0	1.2	19.5	20.8	12.5	0.0	66.4	0.3	79.2	30,835.0
Ashabito	0.0	0.0	0.0	0.2	15.3	15.5	14.0	0.0	70.5	0.0	84.5	7,768.0
Guticha	0.0	0.0	0.0	0.6	3.2	3.8	5.9	0.0	90.3	0.0	96.2	5,386.0
Marothile	0.0	0.0	0.0	0.0	10.5	10.5	7.3	0.4	80.9	0.8	89.5	2,019.0
Rhamu	0.2	0.0	0.0	3.2	38.7	42.0	17.3	0.0	39.8	0.8	58.0	9,577.0
Rhamu Dimtu	0.0	0.0	0.1	0.3	11.8	12.3	10.8	0.0	76.9	0.0	87.7	6,085.0
Mandera South	0.0	0.0	0.0	0.1	20.4	20.6	18.2	0.1	60.7	0.3	79.4	42,883.0
Wargadud	0.0	0.0	0.0	0.0	34.9	34.9	8.9	0.0	54.8	1.3	65.1	5,596.0
Kotulo	0.0	0.0	0.0	0.5	6.2	6.8	27.4	0.1	65.6	0.1	93.2	9,615.0
Elwak South	0.0	0.0	0.0	0.0	38.5	38.5	15.3	0.1	45.9	0.2	61.5	13,352.0
Elwak North	0.0	0.0	0.3	0.1	8.4	8.8	5.7	0.0	85.6	0.0	91.2	4,799.0
Shambir Fatuma	0.0	0.0	0.1	0.0	7.0	7.1	25.0	0.1	67.6	0.2	92.9	9,521.0
Mandera East	0.2	0.1	0.8	2.7	36.2	40.0	37.3	0.1	21.0	1.7	60.0	35,252.0
Arabia	0.0	0.0	0.0	0.6	5.3	5.9	22.6	0.0	71.2	0.3	94.1	3,169.0
Bulla Mpya	0.4	0.0	2.3	0.2	37.3	40.3	39.2	0.2	17.8	2.5	59.7	10,687.0
Khalalio	0.0	0.0	0.0	4.4	21.4	25.8	16.5	0.0	57.7	0.0	74.2	2,738.0
Neboi	0.0	0.0	0.0	0.0	23.1	23.1	18.6	0.3	49.5	8.6	76.9	2,572.0
Township	0.2	0.2	0.1	4.9	46.2	51.6	45.4	0.1	2.4	0.6	48.4	16,086.0
Lafey	0.0	0.0	0.0	0.5	13.3	13.8	17.1	0.1	68.6	0.3	86.2	20,979.0
Sala	0.0	0.1	0.0	1.1	15.0	16.2	15.3	0.2	68.2	0.2	83.8	6,626.0
Fino	0.0	0.0	0.0	0.0	9.8	9.8	8.9	0.3	80.9	0.0	90.2	2,083.0
Lafey	0.0	0.0	0.1	0.3	17.3	17.8	25.0	0.0	57.0	0.3	82.2	7,503.0
Warankara	0.0	0.0	0.0	0.0	5.8	5.8	14.9	0.0	78.4	0.9	94.2	3,134.0
Alango Gof	0.0	0.0	0.0	0.0	6.7	6.7	3.2	0.6	89.5	0.0	93.3	1,633.0



About KNBS

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

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