



The New Consumer Price Index (CPI)

Users' Guide

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List of Abbreviations

CPI	-	Consumer Price Index
DANIDA	-	Danish International Development Agency
DFID	-	Department for International Development
EU	-	European Union
KIHBS	-	Kenya Integrated Household Budget Survey
KNBS	-	Kenya National Bureau of Statistics
NSS	-	National Statistical System
UNDP	-	United Nations Development Programme
USAID	-	United States Agency for International Development

FORWARD

The Government of Kenya, through the Kenya National Bureau of Statistics (KNBS), has embarked on a programme geared towards providing improved and relevant statistics under the National Statistical System (NSS). One of the first major activities to be implemented under the programme was the Kenya Integrated Household Budget Survey (KIHBS) in 2005/06, a key objective of which was to update the urban Consumer Price Index (CPI).

This users' guide is based on the results of the household consumption module of KIHBS. The Survey formed the basis of presenting the new proportions or weights for computing the new CPI. The data will also be used to construct other appropriate CPI's.

The new weights are not only be used in making more relevant the CPIs in Kenya's urban areas, but also in initiating the calculation of inflation rates at the provincial level. Moreover, the inclusion of new consumption behaviour data will help in the calculation of new and better inflation rates.

The new CPI basket includes commodities that have recently entered into the market, while obsolete ones have been removed. Due to the improved macro-economic environment and the reduction in poverty levels, food and non-alcoholic drinks proportions have reduced from 48.1 per cent recorded in the 1993/94 UHBS Survey to 36.03 per cent. This reduction will have a significant effect on the rates of overall inflation. The KNBS issued a publication: 'The 2008 Consumer Price Index (CPI)' in July 2008. This current Users' Guide updates that earlier publication and should therefore fill gaps that those using the earlier publication may have noted.

In the compilation of this manual, the Government wishes to extend sincere appreciation to the various development partners for providing financial support in the design and implementation of the survey. These donors include the Department for International Development (DFID), the United States Agency for International Development (USAID), the European Union (EU), the Danish International Development Agency (DANIDA), and the United Nations Development Programme (UNDP). The Government also appreciates the good gesture demonstrated by the International Monetary Fund (IMF) in providing a technical assistance mission.

Further the Government sincerely appreciates the vision and role played by Mr. A. K. M. Kilele, the Director General, KNBS, in implementing the KIHBS project. It also appreciates the technical role played by the KIHBS management under the leadership of Prof. Dankit Nassiuma (Project Manager) and congratulates KNBS technical experts, especially James Gatungu, Simon Gaitho, Robert Nderitu, and Pasquel Gichohi, for their excellent work.

It is hoped that the new consumer baskets, with the consequential new indices, will help monetary authorities and other prospective users to make sound policies.

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CHAPTER 1

OVERVIEW

The new Consumer Price Index (CPI) is based on the results of the Kenya Integrated Household Budget Survey (KIHBS), which was carried out by the Kenya National Bureau of Statistics (KNBS) over a period of 12 months – from May 2005 to April 2006. The Survey was designed to update and strengthen the CPI.

This users' guide has been prepared as a tool in understanding how the newly rebased CPI has been derived.

1.1 Background to the new urban CPI

CPI is based on a fixed basket of goods and services bought in the base year. This basket tends to be outdated with time due to changes in the social and economic characteristics of the population. New goods and services come into the market as the old ones disappear. There are also changes in consumer behaviour, incomes, tastes and preferences.

All these factors affect the relative importance of some goods and services. Thus, the CPI series based on the 1993/94 Urban Household Budget Survey (UHBS), does not reflect current consumption patterns which are affected by the availability of goods and services which have entered the market since then..

Prior to the 1993/94 UHBS, CPI used to be based on the Household Budget Survey that was carried out in 1982. This implies that the trend has been to revise the CPI series after approximately ten years. Although a better duration would have been five years or less, the cost of implementing an expenditure survey has been the main impediment to the realisation of this objective.

However, it is worth noting that Kenya's system of producing CPI has been undergoing an evolution towards the better. It started with coverage of Nairobi only, extended to the rest of urban areas and now introducing regional CPI baskets. New logistical and methodological approaches have been put in place with the introduction of new CPI baskets.

Kenya National Bureau of Statistics (KNBS) is responsible for collecting the prices data used for constructing the indices. It collects the data through a survey of retail prices for consumer goods and services. For example, through the KIHBS Household Consumption Module, KNBS captured data that would be used to construct the CPI. The survey covered both the rural and urban population and could, therefore, not only be used to update the urban CPI, but also to construct a rural one. This made KIHBS greatly superior to the earlier surveys.

It is against this background that the KNBS revised the 1994 urban CPI basket so as to reflect the prevailing consumption and expenditure patterns. Price relatives for the new basket are based on February 2009 equal to 100.

1.2 The Urban Household Budget Survey 1993/94 versus the 2005 KIHBS

The KIHBS findings showed that expenditure patterns in urban areas had changed compared to the findings of the 1993/94 UHBS. Specifically, the major differences between the two survey results were:

- (a) In the 2005/06 survey, three income groups were identified for Nairobi, namely lower, middle and upper income groups. In the 1993/94 UHBS, only two income groups were analysed. Very few households were identified in the upper income group and hence the middle and upper income groups were combined to form a single group called the Nairobi upper/middle income group. The 2005/06 proportions for the lower, the middle and the upper income groups were 72.12 per cent, 24.12 per cent, and 3.76 per cent respectively.
- (b) In the 2005/06 survey, the income groups for Nairobi comprised of households with the following monthly expenditure: lower income group, KSh. 23,670 and below; middle income group, between KSh. 23,671 and KSh. 120,000; and upper income group above KSh. 120,000. In the 1993/94 UHBS, the income groups comprised the following: lower income group, below KSh. 10,000; and the upper income group, above KSh. 40,000.
- (c) In the 2005/06 survey, the percentage of households in Nairobi, compared with those in other urban towns, increased from 39.9 per cent in the 1993/94 survey to 41.2 per cent. However, the percentage of total expenditure dropped from 57.1 per cent in the 1993/94 UHBS to 54.6 per cent in the 2005/06 KIHBS respectively.
- (d) Nationally, in the 2005/06 survey, the percentages of Food and Non-Alcoholic Drinks dropped from 50.5 per cent recorded in 1993/94 survey to 40.3 per cent, while percentages of Transport and Communications increased from 5.7 per cent to 12.7 per cent.
- (e) The number of commodities in the CPI basket increased from 216 items in the 1993/94 survey to 234 items in the 2005/06 survey. The major items brought in include unpacked fresh milk, pork, arrow roots, *wimbi* flour, black grams (*njahi*), capsicum (*pilipili hoho*), camel meat, mineral water, laboratory tests, optician services, parking charges, *boda-boda* fares, cell phone air time, internet costs, cellular handsets, computers, and school transport (for both primary and secondary schools). Inclusion of the above commodities indicates that the consumption behaviour of households has changed over time.

Despite the above changes, the number of towns where consumer prices will be collected remains 25. However, some towns like Kilifi, Meru, Kakamega and Kitale

have been dropped and replaced with Machakos, Bungoma, Kajiado and Thika. The latter towns were selected based on high expenditure criteria.

The major consumption items in the consumer basket for urban households are housing, *matatu* fares, beef with bones, kerosene, sugar, milk, bread and maize flour. Items in the new basket that have high expenditure proportions and were not in the previous basket are cell phone, airtime and unpacked fresh milk.

1.3 Construction of the Previous CPI

Previously, KNBS computed *three* Consumer Price Indices covering Nairobi Lower, Middle/Upper Income groups and Rest of Urban areas. The Nairobi CPI contributed 39.9 per cent to the Kenya index while the remaining proportion (60.1%) constituting the rest of urban areas.

As mentioned above, Nairobi's lower income group was designated as households with a monthly expenditure of below KSh. 10,000 per month as at October 1997. The remaining proportion of the middle/upper income group consisted of households spending KSh10, 000 and above.

1.4 Organisation of the users' guide

This users' guide is organised as follows: Chapter 1 is the overview and presents the background to the CPI. Chapter 2 looks at the CPI in detail including the definitions and its importance. Chapters 3 and 4 discuss the construction and compilation of the CPI and inflation rates respectively.

The rest of the users' guide provides details of the new CPI. Chapter 5 is devoted to defining and derivation of the income groups of CPI basket. Chapters 6 and 7 present the weighting system and selection of data collection areas and towns respectively, while Chapter 8 presents information on the new CPI indices from February 2009.

Regular CPI users (the Government, NGOs, international agencies, the business community and researchers) will find the users' guide useful in interpreting and appreciating the terms therein. Non-regular users like students and journalists will also find it an important reference guide.

CHAPTER 2

THE CONSUMER PRICE INDEX

2.1 The Definition of CPI

The Consumer Price Index (CPI) is a key macroeconomic indicator used to monitor price movements and how they affect policy decisions. It is defined as a measure of the weighted aggregate change in retail prices paid by consumers for a given basket of goods and services. Price changes are measured by re-pricing the same basket of goods and services at regular intervals, and comparing aggregate costs with the costs of the same basket in a selected base period.

A convenient way of thinking about the CPI is to imagine a very large “shopping basket” full of goods and services on which people typically spend their money. The basket could include rice, maize flour, coffee, paraffin, electricity and clothes. The contents of the basket are fixed at a particular point in time, but as the prices of the individual commodities in the basket change so does the price of the basketful.

CPI and the Cost of Living Index

Many users tend to confuse the CPI with a Cost of Living Index. In a strict sense, the CPI is not a Cost of Living Index, as it uses a sample of a fixed basket of goods and services. Moreover, it is not designed to measure what consumers actually purchase, but the cost of purchasing a basket of the same goods and services as in the previous time period.

The Cost of Living Index would use prices of all goods and services in the universe – including non-consumption ones while the CPI is designed to cover expenditures of consumption goods and services purchased for household use, but not for business purposes or investment. Also, the basket from which the Cost of Living Index is derived is not fixed. Such an index, which would measure the general price level, is rarely calculated in practice.

What CPI Does Not Include

In computing the CPI, certain items are excluded from the “basket”. These include the following:

- * *Savings, insurance and pensions.* These are types of investment not for consumption and are usually excluded. However, motor vehicle insurance is included because the payment of the premiums provides some sort of service in cases of motor vehicle theft or damage.
- * *Loans.* All forms of loans are excluded as no direct service is provided and nothing is actually purchased.

- * *Second-hand goods.* Although funds spent on second-hand purchases, say of clothing, are very high, there are difficulties in collecting their prices on a consistent and comparable basis; hence they are not included. It is assumed that the prices of second-hand goods move in tandem with the prices of new ones of similar varieties. However, motor vehicles of a specified year of manufacture and capacity are usually included.
- * *Consumption from own production.* These are also excluded from the fixed market of goods and services. This implies that subsistence agriculture and similar forms of production are excluded from the basket.
- * *Expenditure on lotteries and other forms of gambling.* Such expenditure is excluded as no actual goods or services are purchased.

Indirect taxes that are in-built in the prices of purchased goods and services are included as they are an integral part of the payment for goods or services.

2.2 Uses of the CPI in Kenya

Being a measure of price changes, the CPI is used by many organisations, including the Government, non-governmental organisations (NGOs), international agencies, the business community (including investors) and researchers. Specifically, the CPI is widely used in Kenya for the following:

- * *As the main estimator of the rate of inflation.* The percentage change of the CPI over a one-year period is what is usually referred to as the rate of inflation. (This is discussed in detail in Chapter 3.)
- * *As a macroeconomic indicator.* The CPI is used for general economic/social analysis and policy formulation particularly since it conveys important information about indirect tax revenue.
- * *As a tool in wage negotiation and indexation.* CPI is used to adjust taxes and to determine, among other things, wage levels in the event of trade disputes, social security benefits, public service remuneration and pensions.
- * *As a deflator of expenditure.* The prevailing CPI can be used to establish the real/constant value by deflating nominal values (previous cost) of goods and services.

2.3 Reliability of the new urban CPI

The new urban CPI attempts to reflect, on a monthly basis, the combined price movement of many retail transactions. It does this by providing a broad measure of the price changes experienced by the urban households.

The following are the main features of the new urban CPI as opposed to the previous one:

- * The 1993/94 Income brackets have been revised to reflect more relevant levels.

- * The new basket of goods and services, with corresponding new weights, has been constructed using the results of the 2005/06 KIHBS.
- * It has been expanded to enable the production of regional indices.

CHAPTER 3

COMPUTATION AND COMPILATION OF THE CPI

3.1 Formulae for Computing Price Indices

Given that I_t is the index at time t, P_{ti} is the price of the i^{th} commodity at time t, p_{0i} is its price at the base period and W_i is its weight. Currently, KNBS computes the CPI using the hybrid method which is geometric average at elementary level and arithmetic averaging at the higher level.

$$\begin{aligned} \text{Index at time t, } I_t &= \frac{\sum_{i=1}^n P_{ti} Q_{0i}}{\sum_{i=1}^n P_{0i} Q_{0i}} = \frac{\sum_{i=1}^n P_{ti} Q_{0i} * \left[\frac{P_{0i}}{P_{0i}} \right]}{\sum_{i=1}^n P_{0i} Q_{0i}} = \frac{\sum_{i=1}^n P_{0i} Q_{0i} * \left[\frac{P_{ti}}{P_{0i}} \right]}{\sum_{i=1}^n P_{0i} Q_{0i}} \\ &= \sum_{i=1}^n \frac{P_{0i} Q_{0i}}{\sum_{i=1}^n P_{0i} Q_{0i}} * \left[\frac{P_{ti}}{P_{0i}} \right] = \sum_{i=1}^n W_{0i} * \left[\frac{P_{ti}}{P_{0i}} \right] \end{aligned}$$

Now the i^{th} commodity weight at the base period can be expressed as,

$$W_{0i} = \frac{P_{0i} Q_{0i}}{\sum_{i=1}^n P_{0i} Q_{0i}}$$

This then implies that at time, t, the index takes the form expressed as,

$$I_t = \sum_{i=1}^n W_{0i} * \left[\frac{P_{ti}}{P_{0i}} \right] = \sum_{i=1}^n W_{0i} * \frac{P_{1i}}{P_{0i}} * \frac{P_{2i}}{P_{1i}} * \dots * \frac{P_{t-1,i}}{P_{t-2,i}} * \frac{P_{t,i}}{P_{t-1,i}}$$

Defining the adjusted weight at time, t to be equal to:

$$W_{t-1,i} = W_{0,i} * \frac{P_{1i}}{P_{0i}} * \frac{P_{2i}}{P_{1i}} * \dots * \frac{P_{t-1,i}}{P_{t-2,i}}$$

The Modified Laspeyres index at time t is then defined and computed as,

$$I_t = \sum_{i=1}^n W_{0i} * \left[\frac{P_{ti}}{P_{0i}} \right] = \sum_{i=1}^n W_{t-1,i} * \frac{P_{t,i}}{P_{t-1,i}}$$

Although the modified Laspeyres formula uses short-term price relatives ($\frac{P_{t,i}}{P_{t-1,i}}$), it is algebraically equivalent to the standard Laspeyres formula which uses long term price relatives, ($\frac{P_{ti}}{P_{t0}}$). However, the chaining process facilitates the introduction of replacement transactions, the introduction of new varieties and new products as need arise. Each item's short-term price relative $\frac{P_{t,i}}{P_{t-1,i}}$ is weighted by its previous period expenditure share, $W_{t-1,i}$. This is the base period value share, W_{0i} , updated for price changes to the previous period, (t-1) The formula can bring in a new transaction with the current and previous prices of the replacement transaction without imputing the base period price.

To compute the CPI, retail prices data collected from the field is carefully examined for accuracy and validity. The process involves checking on price levels in the current period and price changes from the previous pricing period. When a "doubtful price" for an item is detected, designated field supervisors are sent to the reporting outlet to ascertain the validity or otherwise of that quotation.

3.2 Compilation of Elementary Indices

Elementary Indices are generated for categories of items and are characterized by having neither weights nor several replacements nor imputations and quality adjustments. Ideally the standard Laspeyres index is a weighted arithmetic average of changes in the individual prices of the different transactions covered. The weights correspond to the shares of the different varieties in comparison to the total value of expenditures at the base period. The transactions are for clearly defined goods and services, that are, perfectly *homogeneous*.

In the real world however there are huge numbers of transactions with difficulties in obtaining reliable weights at the elementary level. These weights are usually only available at a higher level of aggregation. Hence the Laspeyres concept can only be implemented starting at the higher level. Within items, one often has to use unweighted averages of prices or price relatives. The way of aggregating individual prices within items is usually the first step in the compilation of the total index.

Common unweighted Index formulae include the average of Price Relatives (*Carli*), the ratio of average Prices (*Dutot*) and the geometric Average (*Jevons*). These three and their desirable properties are clearly set out in the International Labour Organisation (ILO) CPI manual (2004) such that one is able to assess any of them in

terms of the axioms of proportionality $\{f(\lambda p_t, \lambda p_0) = \lambda f(p_t, p_0)\}$, the formula's reaction to the change in units $\{f(p_t, p_0) = f(\beta p_t, \beta p_0)\}$, time reversal axiom

$$\left\{ f(p_t, p_0) = \frac{1}{f(p_0, p_t)} \right\}$$

and the transitivity axiom $\{f(p_t, p_{t-2}) = f(p_t, p_{t-1}) * f(p_{t-1}, p_{t-2})\}$.

Carli fails the time reversal test and has an upward bias. It can produce absurd results and is not good for unweighted indices. Dutot fails the reaction to change in the units of measurement test such that different results arise if an item's price is in kilos rather than in pounds. Dutot is only recommended for tightly specified items whose base prices are similar.

Although the geometric mean (Jevons index) has the disadvantage of being not easily interpretable in economic terms and relatively complicated, if it is used for elementary aggregation it could be inconsistent with the subsequent use of the arithmetic mean at higher levels of aggregation yet it has quite desirable properties. First and foremost, for the geo-mean (Jevons), the average of price relatives equals the ratio of price averages. It is not as sensitive as the arithmetic mean to extreme price changes and has a multi-period transitivity such that:

$$f(p_{t-1}, p_{t-2}) = f(p_t, p_{t-1}) * f(p_{t-1}, p_{t-2})$$

In the new rebased CPI series, KNBS is using the Jevons formula as the preferred method of computing elementary indices. This formula has already been in use with the 1993/94 basket of goods and income levels since October 2009 with indices available to October 2005.

3.3 Higher level aggregation

Price relatives are first calculated for the commodities that are included in the basket. In the CPI series resulting from the 1993/94 UHBS, the arithmetic average of these price relatives were then multiplied by the appropriate commodity weights. This simply means that the *Carli* index (Arithmetic mean of the price relatives) was used at the elementary level before the higher level aggregation.

Due to the undesirable properties associated with the *Carli* index, KNBS has shifted to the geometric mean computations of price relatives at the elementary level. At the higher level aggregation, the modified Laspeyres formula is being used.

3.4 The basket for the new CPI

Prior to the release in March 2010 of the new index, the CPI basket was split into ten groups. Two of the current merged groups will be disaggregated to make a total of 12 which is the standard Classification of Individual Consumption by Purpose (COICOP) as used in the neighbouring East African countries. This will enable comparisons within and outside of the East African Community.

Table 1: Comparison between the previous CPI groups and the New CPI

Group	Previous CPI Series	Division	New CPI series
1	Food and non-alcoholic drinks	1	Food & Non-Alcoholic Beverages
2	Alcohol and Tobacco	2	Alcoholic Beverages, Tobacco & Narcotics
3	Clothing and Footwear	3	Clothing and Footwear
4	Housing	4	Housing, Water, Electricity, Gas and other Fuels
5	Fuel and Power		
6	Household Goods and Services	5	Furnishings, Household Equipment and Routine Household Maintenance
7	Medical Goods and Services	6	Health
8	Transport and Communications	7	Transport
		8	Communications
9	Recreation, Entertainment and Education	9	Recreation & Culture
		10	Education
		11	Restaurant & Hotels
10	Personal Goods and Services	12	Miscellaneous Goods & Services

In the new CPI series, each item will be quoted from three different outlets in each of the 25 price collection areas (zones).

In the broad Item groups, Non-alcoholic Drinks include soda, squashes and mineral water. The group under housing has been added new items which previously used to be under Fuel and Power such as water, electricity, gas and other fuels.

Although computers are used in both households and businesses, they have been included in the new basket under recreation and entertainment. In all the regions of Kenya there was dominance of expenditure in Housing as well as a prevalence of cell phones, airtime and a considerable significance of *matatu* fares.

The overall CPI uses prices of all consumer goods and services contained in the “basket”. The items in the basket may be broken down into two categories:

- 1) Items the prices of which are not affected by policy, but by the normal market forces of supply and demand and other transitory factors, and
- 2) Items the prices of which are affected directly by fiscal and monetary policies, in addition to the forces of supply and demand.

Policy factors include changes in the money supply and the financing of government operations. Non-policy factors may include price changes induced by transitory factors such as drought, floods and other natural disasters. Again, since the government is able to change legislation to affect exchange rates, the prices of imported goods are regarded as policy controlled.

A further relevant subset is a categorisation of the surveyed items into tradable and non tradable goods and services. Clearly house rent and haircuts cannot be exported even where the domestic market is competitive. Some other goods such as sugar and maize grain which figure in the country's international trade have prices which are affected by domestic policy rather than international policy.

CHAPTER 4

COMPUTATION OF INFLATION RATES AND WEIGHTING SYSTEM OF THE NEW URBAN CPI

As earlier pointed out KNBS defines and measures the CPI as a weighted aggregate change in the retail prices paid by consumers for a given basket of goods and services. The percentage change of the CPI over a given period is what is usually referred to as inflation with respect to other time period. Currently KNBS computes relative changes in prices using the Laspeyres Index as seen earlier: This Laspeyres formula can equivalently be expressed as,

$$I_t = \sum_{i=1}^n W_i * \frac{P_{ti}}{P_{0i}}$$

Given that I_t is the index at time t, P_{ti} is the price of the i^{th} commodity at time t, p_{0i} is its price at the base period and W_i is its weight.

Based on the Consumer Price Indices (CPI) obtained from retail prices data, KNBS computes different measures of inflation each with a distinct definition but all inflation measures involve a comparison of the CPI over two periods. The "**annual average**" inflation is computed as a percentage change of a twelve months average of the CPI. The "**month on month**" inflation rate is calculated as percentage change of the CPI between the current month and the same month a year ago, e.g. percentage change of CPI between the month of March 2007 and month of March in 2008 could be computed as:

$$\text{Month on month Inflation rate for March, 2008} = \frac{I_{\text{March08}} - I_{\text{March07}}}{I_{\text{March07}}} * 100$$

Generally if I_n represents the index for the n^{th} month and I_{n-12} the index for the same month the previous year then the month on month inflation could be computed as $\left(\left(\frac{I_n}{I_{n-12}} \right) - 1 \right) \times 100$

The CPI is a weighted index. This means that some items in the CPI basket are more important than others, as more money is spent on them. Each item, sub-group and broad group of items is, therefore, assigned a "weight", which represents its relative importance in the household expenditure. Thus, the weights correspond to the share or proportion of reported expenditures in relation to total household non-investment expenditure. From the basic Laspeyres formula as seen in Chapter

Three, the i^{th} commodity weight at the base period can be expressed as,

$$W_{0i} = \frac{P_{0i}Q_{0i}}{\sum_{i=1}^n P_{0i}Q_{0i}}$$

As with the previous CPIs, the new urban CPI attempts to measure the cost of maintaining a particular expenditure pattern over time. In this case, the expenditure pattern is the observed average at the time of the survey. It has been found both convenient and useful to categorise the population into relatively homogeneous groups where homogeneity is related to a particular expenditure group. For instance, those with low incomes may tend to spend a greater proportion of their income on food, while those with higher incomes might spend more of it on education and housing. It follows, therefore, that the first step in creating an easily computable CPI is to see whether, in fact, the expenditure amounts differ in some discernable way.

Table 2a: Groups Weighting System for the New Nairobi CPI Basket

Description	Lower	Middle	Upper
Region Weights (Percent)	72.12	24.12	3.76
Food & Non-Alcoholic Beverages	42.54	22.01	6.97
Alcoholic Beverages, Tobacco & Narcotics	1.58	1.4	1.35
Clothing & Footwear	4.93	6.59	7.73
Housing, Water, Electricity, Gas and other Fuels	18.17	23.6	19.79
Furnishings, Household Equipment and Routine Household Maintenance	7.25	5.06	5.64
Health	2.39	3.05	4.34
Transport	6.94	12.43	27.91
Communication	3.45	6.4	4.79
Recreation & Culture	1.62	3.22	3.9
Education	1.61	5.73	5.84
Restaurant & Hotels	5.76	4.56	6.57
Miscellaneous Goods & Services	3.76	5.93	5.17
Total	100	100	100

Table 2b: Groups Weighting System for the New Urban Provincial CPI Basket

Description	Central	Coast	Eastern	North Eastern	Nyanza	Rift Valley	Western
Region Weights + (Percent)	12.93	26.36	8.84	2.72	13.95	27.72	7.48
Food & Non-Alcoholic Beverages	36.65	35.80	35.43	58.71	32.42	34.25	39.28
Alcoholic Beverages, Tobacco & Narcotics	1.93	3.30	2.99	1.09	1.07	2.70	1.62
Clothing & Footwear	8.71	7.45	9.87	12.03	10.01	8.55	10.23
Housing, Water, Electricity, Gas and other Fuels	15.70	22.00	16.10	12.81	15.06	16.13	16.78
Furnishings, Household Equipment and Routine Household Maintenance	6.50	5.69	7.11	3.21	6.18	4.71	7.89
Health	4.57	1.65	3.64	1.27	4.73	4.38	3.08
Transport	9.25	7.04	6.56	1.18	11.36	9.76	5.92
Communication	3.93	3.42	3.25	1.33	4.67	3.40	3.05
Recreation & Culture	2.35	2.43	1.93	1.39	2.35	2.54	2.41
Education	3.35	2.93	3.76	3.05	4.40	3.41	3.08
Restaurant & Hotels	3.14	3.97	4.64	0.36	2.15	5.14	2.36
Miscellaneous Goods & Services	3.93	4.32	4.72	3.56	5.58	5.02	4.29
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00

+ Regional weights based on proportion of households in the urban centres of the province. The lower income group, middle income group and upper income groups are only categorized in Nairobi province.

Table 3 shows the proportions of expenditure by sub-group in the respective provinces. The highest expenditure was on actual rentals followed by Bread and Cereals.

Table 3: Sub-Group Weighting System for the New Urban CPI Basket

Description	Lower	Middle	Upper	Central	Coast	Eastern	North Eastern	Nyanza	Rift Valley	Western	Kenya
Region Weights +	0.297	0.099	0.015	0.077	0.155	0.052	0.016	0.082	0.163	0.044	1.000
Bread and cereals	12.39	4.49	1.71	11.02	10.45	11.80	18.55	9.92	9.99	12.38	10.52
Meat	6.28	5.12	1.71	5.92	6.08	5.26	6.96	3.87	5.80	5.38	5.68
Fish and seafood	1.58	0.92	0.26	0.32	1.93	0.38	0.00	2.00	0.87	2.41	1.32
Milk, cheese and eggs	6.49	3.63	1.03	4.64	4.16	4.26	9.72	4.00	4.64	4.49	4.96
Oils and fats	1.83	0.91	0.20	1.82	1.64	1.92	4.97	1.85	1.36	2.39	1.69
Fruit	2.99	1.83	0.65	2.35	2.43	1.85	1.67	1.60	2.50	1.84	2.38
Vegetables	7.38	3.24	0.36	6.50	5.61	5.47	6.57	4.70	4.86	5.24	5.68
Sugar, jam, honey, chocolate and confectionery	2.35	0.80	0.37	2.49	2.00	2.57	7.73	2.81	2.56	3.15	2.33
Other Food products	0.11	0.00	0.00	0.18	0.06	0.14	0.23	0.10	0.14	0.18	0.11
Coffee, tea and cocoa	0.33	0.21	0.19	0.72	0.43	0.63	1.35	0.41	0.62	0.60	0.46
Mineral waters, soft drinks, fruit and vegetable juices	0.80	0.86	0.50	0.69	1.00	1.17	0.97	1.17	0.92	1.21	0.92
Spirits	0.13	0.29	0.42	0.07	0.08	0.41	0.00	0.07	0.13	0.19	0.15
Wine	0.00	0.08	0.43	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.03
Beer	0.76	0.72	0.40	1.41	1.62	1.29	0.00	0.93	1.97	1.09	1.18
Tobacco	0.63	0.31	0.09	0.45	1.20	0.77	0.07	0.06	0.49	0.34	0.58
Narcotics	0.06	0.00	0.00	0.00	0.40	0.52	1.01	0.01	0.00	0.00	0.12
Garments	3.92	4.83	6.16	6.09	6.15	7.72	8.59	7.40	6.37	7.60	5.67
Cleaning, repair and hire of clothing	0.19	0.67	0.62	0.43	0.16	0.36	0.34	0.32	0.42	0.47	0.33
Shoes and other footwear	0.82	1.09	0.94	2.20	1.14	1.79	3.10	2.30	1.76	2.16	1.42
Actual rentals for housing	14.43	17.92	13.59	10.71	14.58	9.47	6.54	8.33	9.26	8.51	12.51
Services for the maintenance and repair of the dwelling	0.14	0.35	2.29	0.58	1.79	2.48	0.50	1.74	1.66	3.65	1.14
Water supply	1.27	1.22	1.00	0.99	1.89	1.23	2.60	1.31	1.33	1.01	1.35
Electricity	0.63	2.16	2.19	1.61	1.57	0.68	1.23	0.99	0.86	0.49	1.10
Gas	0.38	1.62	0.71	0.62	0.50	0.49	0.00	0.56	0.75	0.30	0.62
Liquid fuels	0.04	0.00	0.00	0.00	0.03	0.00	0.03	0.13	0.04	0.06	0.04
Solid fuels	1.27	0.33	0.00	1.20	1.64	1.77	1.92	1.99	2.23	2.76	1.53
Furniture and furnishings	0.70	0.35	0.46	0.90	1.01	1.61	0.84	1.39	0.64	1.80	0.87
Major household appliances whether electric or not	4.17	1.20	0.26	2.40	2.09	2.15	1.02	1.51	1.46	2.01	2.45
Glassware, tableware and household utensils	0.08	0.06	0.17	0.08	0.12	0.12	0.08	0.17	0.08	0.29	0.10
Small tools and miscellaneous accessories	0.17	0.00	0.00	0.26	0.16	0.37	0.00	0.42	0.26	0.51	0.21
Non-durable household goods	1.82	1.12	0.47	1.38	1.40	1.34	0.84	1.62	1.37	1.71	1.50
Domestic services and household services	0.32	2.33	4.27	1.48	0.91	1.53	0.43	1.07	0.91	1.57	1.03

+ Weight based on proportion of households in the urban centres in the province

Cont.

Description	Lower	Middle	Upper	Central	Coast	Eastern	North Eastern	Nyanza	Rift Valley	Western	Kenya
Region Weights +	0.297	0.099	0.015	0.077	0.155	0.052	0.016	0.082	0.163	0.044	1.000
Pharmaceutical Products	0.73	0.63	0.22	0.45	0.45	0.66	0.61	0.61	0.74	0.76	0.64
Medical Services (s)	1.48	2.08	3.68	3.70	0.73	1.55	0.27	3.91	2.68	1.94	2.03
Dental Services (s)	0.10	0.10	0.22	0.13	0.28	0.21	0.07	0.00	0.00	0.00	0.11
Paramedical Services (s)	0.08	0.17	0.22	0.23	0.11	0.41	0.16	0.14	0.19	0.27	0.16
Hospital Services (s)	0.00	0.07	0.00	0.06	0.06	0.81	0.16	0.07	0.78	0.12	0.20
Motor cars	0.00	0.80	13.38	1.28	0.26	0.33	0.00	3.24	0.58	0.12	0.80
Motor cycles	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bicycles	0.05	0.00	0.06	0.08	0.09	0.00	0.00	0.00	0.12	0.15	0.06
Fuels and lubricants for personal transport equipment	0.00	3.92	6.78	2.85	0.41	0.87	0.00	0.91	3.86	0.66	1.55
Other services in respect of personal transport equipment	0.00	0.13	0.27	0.00	0.00	0.08	0.00	0.16	0.13	0.00	0.06
Passenger transport by road	6.89	6.38	1.97	5.04	5.77	5.28	1.18	5.05	4.81	4.91	5.70
Passenger transport by air	0.00	1.21	5.24	0.00	0.50	0.00	0.00	2.00	0.26	0.09	0.49
Telephone and telefax equipment	0.45	0.55	0.36	0.59	0.38	0.58	0.00	0.33	0.51	0.60	0.47
Telephone and telefax services	2.99	5.86	4.43	3.34	3.04	2.67	1.33	4.33	2.89	2.45	3.36
Equipment for the reception, recording and reproduction of sound and pictures	0.48	0.52	0.94	0.53	0.73	0.71	0.20	0.59	0.43	0.72	0.55
Cultural services	0.12	0.84	1.51	0.06	0.31	0.07	0.00	0.19	0.11	0.06	0.24
Books	0.44	0.90	0.87	0.98	0.80	0.61	0.89	0.83	1.28	0.91	0.80
Newspapers and periodicals	0.32	0.85	0.58	0.56	0.38	0.46	0.17	0.66	0.55	0.50	0.48
Miscellaneous printed matter, stationery and drawing materials	0.25	0.11	0.00	0.21	0.21	0.07	0.13	0.09	0.17	0.23	0.18
Pre-primary and primary education	0.74	2.50	2.59	1.53	1.38	1.86	0.77	1.08	1.29	1.43	1.31
Secondary education	0.57	1.97	2.02	1.34	1.55	1.04	2.03	1.50	1.46	1.19	1.24
Tertiary education	0.30	1.26	1.23	0.47	0.00	0.86	0.26	1.83	0.66	0.46	0.60
Restaurants, cafés and the like	5.76	3.76	3.52	3.14	3.97	4.02	0.36	2.15	4.87	2.15	4.27
Accommodation services	0.00	0.80	3.06	0.00	0.00	0.62	0.00	0.00	0.27	0.21	0.21
Hairdressing salons and personal grooming establishments	1.32	1.82	1.29	1.24	1.15	1.58	0.33	1.14	1.32	1.14	1.31
Other appliances, articles and products for personal care	1.95	1.97	1.00	1.76	2.41	1.87	2.26	2.01	1.88	2.08	2.00
Jewellery, clocks and watches	0.44	0.92	0.70	0.55	0.50	0.75	0.95	1.31	1.13	0.80	0.73
Insurance	0.00	0.97	1.79	0.24	0.07	0.17	0.01	0.28	0.20	0.16	0.22
Other financial services	0.05	0.18	0.40	0.06	0.12	0.28	0.00	0.78	0.41	0.03	0.21
Other services	0.00	0.06	0.00	0.09	0.06	0.07	0.00	0.06	0.08	0.08	0.05
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

+ Weight based on proportion of households in the urban centres in the province

CHAPTER 5

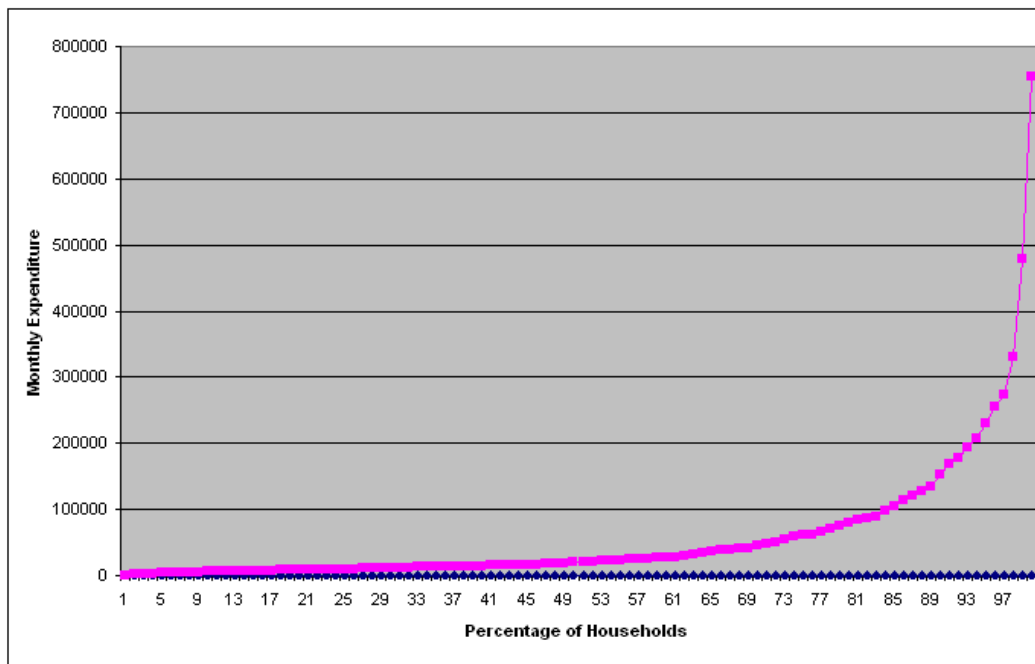
INCOME GROUPS IN THE NEW URBAN CPI

5.1: Derivation of Income Groups

As mentioned earlier, Nairobi was divided into separate income groups as a consequence of data analysis from the KIHBS reflecting the level of inequality in the province. Expenditure was used as a proxy for income.

Figure 1 shows ranking by household expenditure. The curve in the figure becomes steeper rising at the 72.12 percentage point. As it was difficult to distinguish between middle and upper income groups using the graph, percentage changes were used from one point to the other.

Figure 1: Ranking Households by Monthly Expenditures in Nairobi



The second highest kink was recorded at the 96.24 percentage point, which was decided to be the cut-off point for the middle-income group. Households above this point (i.e., 96.24%) were classified as being in the upper income group. The comparison of these breakpoints approximates a change in behaviour associated with a change in the average of propensity of households to consume.

5.2: Income Groups in the New Urban CPI

The CPI based on Feb/Mar 1986=100 settled on those households that were earning below KSh. 1,999 per month as being in the Nairobi lower income group; these differed from those earning between KSh. 2,000 and KSh. 7,999 per month which were classified as being in the middle income group. The latter in turn differed from those of high income group earning over KSh. 8,000 per month.

The CPI based on 1993/94 UHBS settled for those households earning below KSh. 10,000 in October 1997 as constituting the lower income group. As noted earlier, the survey identified very few households in the upper income group. Hence, in Nairobi, the middle and upper income groups were combined to form a single group; only 1.5 per cent of the households had a monthly expenditure of KSh. 40,000 and above.

In the new urban CPI, the income groups will be as follows:

- *Lower income group.* Households spending KSh. 23,670 or less per month in October 2005 (they constitute 72.12% of the households).
- *Middle-income group.* Households spending between KSh. 23,671 upto and including KSh. 120,000 per month in October 2005 (they constitute 24.12% of the households).
- *Upper income group.* Households spending above KSh. 120,000 per month in October 2005 (they constitute 3.76% of the households).

Table 6 shows the minimum and maximum values per annum for each decile. In the bottom 10 per cent, the household with the least expenditure per year of aggregate expenditure was KSh. 3,331, while the highest was KSh. 61,853 per annum. The minimum annual amount in the top 10 per cent was KSh. 707,600 per annum, while the highest was KSh. 9,060,036 per annum. The bottom 10 per cent of the households accounted for only 1.3 per cent share of the total expenditure, while the top 10 per cent constituted 47.7 per cent.

Table 4: 2005/06 Annual Minimum and Maximum Values for Expenditure Deciles in Nairobi

Expenditure	Minimum	Maximum	% Share of Expenditure	Cumulative % Share of Expenditure
Decile	KSh.	KSh.		
Bottom 10 per cent	3,331	61,853	1.3	1.3
2 nd Decile	61,854	85,018	2.3	3.6
3rd Decile	85,019	108,267	2.9	6.5
4th Decile	108,268	137,325	3.8	10.3
5th Decile	137,326	166,844	4.5	14.8
6th Decile	166,845	194,604	5.2	20.0
7th Decile	194,605	264,951	7.2	27.2
8th Decile	264,952	373,792	9.3	36.5
9th Decile	373,793	707,599	15.8	52.3
Top 10 per cent	707,600	9,060,036	47.7	100.0

Therefore, the data show that the top 10 percent population in Nairobi control 47.7 per cent of the total expenditure while the bottom 10 per cent controls only 1.3 percent.

CHAPTER 6

WEIGHTS FOR THE NEW URBAN CPI BASKET

Tables 5 through 16 show the percentage item weights of Food and Non-Alcoholic Beverages; Alcoholic Beverages, Tobacco and Narcotics; Clothing and Footwear; Housing; Water, Electricity, Gas and other Fuels; Furnishings; Household Equipment and Routine Household Maintenance; Health; Transport; Communication; Recreation and Culture; Education; Restaurant and Hotels and finally Miscellaneous Goods and Services in the new urban CPI basket. The weight in each category sums up to 100.

In the Food and Non-Alcoholic beverages category, the highest expenditure was on beef with bones at 9.87 per cent followed by sugar at 5.99 per cent. In the second group of Alcoholic Beverages, Tobacco and Narcotics, beer consumption accounted for 46.9 per cent followed by cigarettes at 28.17 per cent. In North Eastern Province, *mira* (*khat*) accounted for 93.17 per cent of expenditure.

In Table 7 on Clothing and Footwear weights, men's trousers had the highest expenditure of 8.387 per cent. In Table 8 on Housing, Water, Electricity, Gas and other Fuels, 'Other housing' constituted 24.34 per cent of the expenditure. (For ease of data analysis, 'Other housing' includes the Swahili shanty/*manyatta* and other traditional houses.

In the Household Equipment and Routine Household Maintenance, the highest expenditure was on kerosene stove at 37.7 per cent and domestic workers at 16.7 per cent.

In Health, doctor's consultation services accounted for 27.86 per cent while in the Transport group, *matatu* fares within towns and petrol had the highest expenditure of 44.7 and 15.9 per cent respectively.

In the communications group, cell phone airtime accounted for 80.7 per cent and in education Tuition fees for primary schools accounted for 36.8 per cent.

In Table 16 on miscellaneous goods and Services, hair dressing for women constituted 21.7 per cent.

Table 5: Percentage of Food and Non-Alcoholic Beverages Item Weights in the New Urban CPI Basket

Description	Lower	Middle	Upper	Central	Coast	Eastern	North Eastern	Nyanza	Rift Valley	Western	Kenya
Region Weights	0.297	0.099	0.015	0.077	0.155	0.052	0.016	0.082	0.163	0.044	1.000
Rice- Grade 2	2.450	0.623	0.000	3.478	3.003	4.833	7.920	2.539	3.295	2.700	2.912
Rice Grade 1	2.199	3.490	5.313	2.449	3.447	1.859	0.700	1.201	1.519	0.545	2.183
Maize Grain - Loose	1.032	0.410	0.000	0.882	0.528	2.090	1.054	7.709	2.576	7.563	2.002
Green Maize	0.881	0.598	0.000	0.694	0.346	0.773	0.168	0.562	0.797	0.867	0.703
Beans	1.712	0.338	0.000	2.511	2.443	3.456	5.017	2.313	2.268	2.198	2.128
Green Grams	0.758	0.550	0.000	0.758	0.444	0.730	0.000	0.717	0.821	0.590	0.672
Black Grams (Njahi)	0.286	0.403	0.000	0.601	0.000	0.246	0.000	0.000	0.000	0.000	0.184
Peas	0.435	0.000	0.000	0.500	0.530	0.900	0.000	0.000	0.561	0.000	0.406
Groundnuts	0.427	0.000	0.000	0.000	0.157	0.216	0.000	0.591	0.261	1.262	0.330
Millet Grain - Wimbi	0.000	0.822	0.000	0.000	0.000	0.514	0.000	1.107	0.000	0.852	0.198
Millet Flour - Wimbi	0.638	0.000	0.000	0.514	0.290	0.826	0.000	0.334	0.523	0.397	0.475
Maize Flour - Loose	1.641	0.733	0.000	0.693	0.343	0.581	0.381	0.405	2.947	1.319	1.316
Maize Flour - Sifted	5.088	3.126	2.173	5.391	6.538	4.871	3.675	1.736	2.966	1.728	4.423
Wheat Flour	1.680	2.665	1.495	2.624	2.518	2.422	6.431	2.101	2.326	2.494	2.274
Cost Of Milling	0.314	1.234	0.000	0.000	0.164	0.545	0.000	2.340	0.602	1.797	0.590
Bread	6.020	0.588	5.753	7.162	6.302	5.739	0.648	5.570	5.274	5.001	5.472
Cakes	0.931	0.747	5.160	0.763	0.489	0.854	0.000	0.192	0.586	0.337	0.686
Biscuits	0.216	1.319	1.989	0.284	0.319	0.379	0.164	0.479	0.267	0.231	0.344
Breakfast Cereal/Oat	0.217	0.627	2.689	0.220	0.186	0.335	0.000	0.000	0.356	0.000	0.240
Wheat Buns /Scones	1.632	1.337	0.000	0.000	0.382	0.382	0.000	0.504	0.862	1.488	0.973
Pasta (Spaghetti/Macaroni)	0.580	0.792	0.000	0.546	0.775	0.759	5.445	0.195	0.369	0.145	0.672
Beef - With Bones	10.230	10.730	6.438	11.613	11.566	9.563	0.824	7.239	9.409	8.995	9.877
Beef - Without Bones	0.277	1.759	2.869	0.521	0.406	0.643	0.000	1.016	1.250	0.682	0.649
Minced Meat	0.000	1.058	2.489	0.000	0.411	0.000	0.000	0.000	0.365	0.000	0.191
Sausages	0.000	1.138	3.016	0.780	0.271	0.475	0.000	0.000	0.649	0.000	0.305
Camel Meat	0.000	0.000	0.000	0.000	0.000	0.260	7.287	0.000	0.000	0.000	0.203
PORK	0.000	0.461	0.859	0.176	0.000	0.000	0.000	0.000	0.000	0.493	0.068
Mutton/Goat Meat	1.147	1.468	0.000	1.151	1.223	2.092	3.743	0.298	2.606	0.959	1.445
Chicken	1.440	4.702	8.827	1.413	2.398	1.045	0.000	2.384	1.594	1.527	1.844
Offals - Matumbo	1.671	1.928	0.000	0.499	0.703	0.777	0.000	0.999	1.067	1.038	1.178
Fresh Fish	2.511	3.172	2.691	0.631	4.631	0.838	0.000	3.898	1.953	3.752	2.655
Dried/Smoked Fish	1.199	0.994	1.033	0.254	0.754	0.227	0.000	2.257	0.577	2.376	1.001
Milk - Fresh Packeted	8.731	10.196	9.258	0.902	7.346	1.943	2.802	2.827	1.053	1.426	5.518
Milk - Fresh Unpacketed	3.111	1.707	1.450	9.960	1.926	7.675	10.151	6.544	9.721	8.118	5.309
UHT- Fresh Flavoured Milk	0.000	0.000	0.000	0.000	0.000	0.180	1.765	0.239	0.254	0.000	0.112
Baby Milk - Tinned	0.135	1.436	0.000	0.000	0.000	0.177	0.703	0.000	0.000	0.000	0.162
Milk Sour - Mala	0.979	0.913	1.095	0.000	0.470	0.346	0.000	0.718	0.428	0.303	0.625
Yogurt (Clotted Milk)	0.133	0.000	1.034	0.265	0.000	0.180	0.000	0.214	0.000	0.000	0.095
Eggs	2.172	2.247	1.934	1.521	1.873	1.522	1.129	1.796	2.098	1.591	1.951
Margarine	0.948	1.249	1.263	0.998	1.005	1.092	0.000	1.334	0.518	1.037	0.929
Cooking Fat	3.035	1.266	0.000	3.594	1.140	3.102	0.198	2.940	3.096	4.402	2.669
Cooking Oil	0.322	1.627	1.607	0.371	2.445	1.228	8.262	1.422	0.349	0.654	1.090
Banana - Ripe	2.060	2.557	1.759	1.653	2.169	1.675	1.222	1.425	1.944	1.183	1.926
Orange	1.263	1.573	1.393	1.042	1.226	1.191	0.197	1.111	1.592	1.461	1.277
Pawpaws	0.463	0.898	1.787	0.594	0.202	0.489	0.658	0.221	0.468	0.165	0.438
Avocado	1.283	0.816	0.000	0.868	0.418	0.995	0.000	0.775	1.145	0.609	0.946
Mangoes	1.135	0.611	0.000	0.506	1.028	0.168	0.293	0.724	0.892	0.631	0.871
Pineapples	0.366	0.464	1.229	0.422	0.000	0.239	0.000	0.491	0.594	0.471	0.356
Passion Fruits	0.126	0.000	0.000	0.485	0.000	0.283	0.000	0.000	0.170	0.000	0.123

Continue											
Description	Lower	Middle	Upper	Central	Coast	Eastern	North Eastern	Nyanza	Rift Valley	Western	Kenya
Region Weights	0.297	0.099	0.015	0.077	0.155	0.052	0.016	0.082	0.163	0.044	1.000
Apples	0.000	0.603	1.760	0.000	0.216	0.000	0.000	0.000	0.171	0.000	0.101
Lemons	0.000	0.000	0.000	0.832	0.182	0.169	0.206	0.000	0.000	0.156	0.115
Melons	0.333	0.796	1.418	0.000	0.000	0.000	0.260	0.186	0.312	0.000	0.238
Coconut	0.000	0.000	0.000	0.000	1.354	0.000	0.000	0.000	0.000	0.000	0.208
Spinach	0.848	0.819	0.000	0.716	0.292	0.522	0.000	0.000	0.748	0.000	0.590
Kale-Sukuma Wiki	3.686	1.939	0.000	2.010	1.896	1.861	0.400	4.640	2.685	2.916	2.862
Capsicums (Pilipili Hoho)	0.192	0.881	0.000	0.932	0.682	0.448	0.211	0.270	0.217	0.000	0.380
Coriander Leaves (Dania)	0.415	0.584	0.853	0.348	0.301	0.354	0.261	0.000	0.220	0.254	0.328
Tomatoes	3.310	2.879	1.718	2.030	4.848	2.859	2.914	3.464	2.286	3.111	3.226
Cabbages	1.434	1.247	0.000	1.560	1.054	1.494	0.308	1.025	1.179	1.030	1.255
Carrots	0.634	1.027	0.000	1.163	0.410	0.835	0.298	0.290	0.547	0.278	0.608
Onions	1.553	1.607	1.047	1.394	1.670	1.616	1.495	1.462	1.434	1.544	1.537
Potatoes (Irish)	2.703	2.108	1.477	5.547	2.618	3.723	5.011	1.277	3.392	1.528	2.931
Sweet Potato	0.461	0.318	0.000	0.216	0.345	0.389	0.000	0.779	0.348	0.660	0.414
Arrow Roots	0.317	0.000	0.000	0.537	0.384	0.381	0.000	0.278	0.000	0.452	0.274
Cooking Banana	1.232	0.868	0.000	1.289	0.768	0.946	0.000	1.004	0.946	1.568	1.048
Tomato sauce	0.338	0.000	0.000	0.000	0.416	0.000	0.287	0.000	0.177	0.000	0.217
Crisps	0.216	0.438	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.102
Sugar	5.189	2.892	2.072	6.542	4.936	6.260	13.076	8.130	7.026	7.864	5.998
Chocolate	0.000	0.410	3.202	0.000	0.644	0.382	0.000	0.317	0.182	0.000	0.204
Drinking Chocolate	0.331	0.319	0.000	0.241	0.000	0.601	0.093	0.212	0.267	0.166	0.252
Salt	0.258	0.000	0.000	0.481	0.168	0.383	0.394	0.307	0.409	0.462	0.292
Tea Leaves	0.784	0.441	0.000	1.976	0.796	1.524	1.876	0.863	1.331	1.351	1.040
Mineral Water	0.000	0.531	2.721	0.000	0.395	0.252	0.423	0.413	0.469	0.186	0.237
Soda	1.331	1.820	3.605	1.294	2.182	2.036	0.690	3.003	2.047	1.988	1.780
Squashes	0.391	0.906	1.824	0.601	0.307	0.784	0.206	0.609	0.308	0.351	0.446
Preserved Fruit - Juice	0.168	1.196	1.699	0.000	0.317	0.469	0.755	0.000	0.334	0.750	0.316
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Table 6: Percentage of Alcoholic Beverages, Tobacco and Narcotics Item Weights in the New Urban CPI Basket

Description	Lower	Middle	Upper	Central	Coast	Eastern	North Eastern	Nyanza	Rift Valley	Western	Kenya
Region Weights	0.297	0.099	0.015	0.077	0.155	0.052	0.016	0.082	0.163	0.044	1.000
Spirits	8.010	20.760	31.204	3.754	2.531	13.665	0.000	6.806	4.850	11.748	7.191
Wines	0.000	5.771	31.920	0.000	0.000	0.000	0.000	0.000	4.175	0.000	1.595
Beer	34.855	51.485	29.857	72.723	36.031	43.201	0.000	76.207	60.288	46.776	46.900
Traditional Brew	13.612	0.000	0.000	0.000	12.871	0.000	0.000	10.690	12.537	20.528	10.137
Cigarettes	39.800	21.984	7.020	23.523	36.401	25.594	6.832	5.513	18.150	20.947	28.165
Miraa (Khat)	3.724	0.000	0.000	0.000	12.166	17.539	93.168	0.784	0.000	0.000	6.011
Total	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000

Table 7: Percentage of Clothing and Footwear Item Weights in the New Urban CPI Basket

Description	Lower	Middle	Upper	Central	Coast	Eastern	North Eastern	Nyanza	Rift Valley	Western	Kenya
Region Weights	0.297	0.099	0.015	0.077	0.155	0.052	0.016	0.082	0.163	0.044	1.000
Men's Coat/Jacket	4.959	2.892	0.000	2.231	0.000	2.512	0.000	2.459	3.002	2.617	2.600
Men's Shirt	6.167	7.371	6.519	4.696	5.897	5.694	7.871	6.058	5.590	7.490	6.075
Men's Suit	4.149	9.391	16.395	10.963	1.104	5.919	0.000	4.150	3.933	6.062	5.032
Men's Trousers	9.149	5.310	5.546	7.474	10.907	7.501	6.904	6.200	9.804	7.250	8.387
Men's Underpants	0.000	0.000	0.000	1.053	0.000	0.707	1.080	0.000	1.555	0.955	0.522
Men's Sweater	0.000	1.029	2.738	1.631	0.000	0.877	0.000	0.000	1.219	0.000	0.570
Men's Vest	1.096	0.000	0.000	0.804	0.000	0.000	1.966	0.806	0.000	0.000	0.429
Men's Socks	0.000	0.000	0.000	1.184	0.000	0.742	0.000	0.926	1.029	0.000	0.454
Women's skirts	3.123	1.043	1.090	2.401	4.317	2.509	1.674	2.768	2.613	3.207	2.819
Kanga/Kikoi	3.765	0.000	2.551	1.218	7.697	1.603	15.432	2.180	1.668	1.921	3.269
Boys Shirt	0.000	1.271	0.000	1.352	1.772	1.884	1.336	1.406	1.613	1.841	1.243
Boy's Trousers	0.000	0.984	0.000	0.939	1.755	1.874	2.627	4.294	1.011	0.926	1.362
Boy's Suit	5.623	3.059	3.892	2.892	4.460	2.667	2.732	10.983	6.461	4.264	5.332
Boy's Underwear	9.162	5.846	25.703	6.823	9.134	7.218	10.406	5.387	5.054	9.817	7.663
Boy's Socks	2.729	3.064	1.617	2.868	1.958	2.404	0.000	2.189	2.231	2.808	2.392
Boy's Jacket	1.494	0.000	1.069	0.874	0.000	0.600	0.524	1.866	1.856	0.660	1.040
Girl's Socks	2.235	3.809	0.920	2.184	2.093	2.872	0.000	2.379	2.822	0.000	2.303
Girl's Trousers	4.234	3.248	0.819	1.957	7.042	2.831	2.186	1.650	1.636	2.254	3.282
Girl's Blouse	0.000	1.956	0.000	1.069	0.000	0.946	0.000	0.821	1.448	0.776	0.743
Girl's Underware	3.883	3.548	1.485	4.060	7.604	7.825	2.437	4.488	3.741	8.037	4.937
Girl's Dress	2.018	2.393	0.000	2.204	1.748	4.270	3.536	1.518	1.860	1.747	2.088
Girl's Skirt	1.219	0.000	0.000	0.000	0.000	0.686	0.747	1.879	1.026	1.155	0.777
Girl's Night Dress	3.005	5.136	6.797	3.765	1.049	4.870	0.000	1.227	5.819	0.708	3.259
Children's Shirt	1.788	2.095	0.000	0.785	5.440	2.344	2.736	1.864	1.086	2.518	2.248
Children's Suit	2.994	1.379	1.603	1.702	0.000	2.236	0.000	0.610	1.344	2.583	1.520
Children's Shorts	1.257	0.397	0.216	0.048	0.726	0.489	0.146	0.782	0.366	0.203	0.608
Napkins	1.396	1.443	0.000	0.782	1.885	0.732	0.511	1.417	0.588	0.863	1.148
Primary School Uniform	3.940	4.130	0.000	1.906	4.840	2.596	5.327	2.010	2.804	2.685	3.292
Secondary School Uniform	0.000	2.553	0.812	0.000	1.209	0.817	1.220	1.573	1.335	0.890	0.991
Laundry (Clothes)	2.407	8.926	8.025	2.168	0.000	1.964	0.000	0.685	3.229	1.085	2.462
Tailoring Services	1.546	1.235	0.000	2.740	2.123	1.708	2.862	2.485	1.651	3.526	1.981
Men's Shoes - Leather	5.291	6.299	5.417	9.255	4.307	4.971	13.973	5.746	8.436	7.608	6.570
Men's Sports Shoes	1.331	4.154	0.000	1.598	2.215	0.783	0.511	2.435	2.216	0.971	1.927
Women's Shoes - Leather	5.606	0.000	3.747	3.336	2.384	3.285	7.643	4.087	4.098	4.853	3.775
Women's Shoes - Rubber	1.398	0.000	1.765	1.120	0.000	0.949	0.000	3.697	1.190	1.154	1.172
Women's Rubber Sandals	0.000	3.475	0.000	1.615	0.839	1.832	1.251	1.048	1.177	1.019	1.139
Boy's Shoes - Plastics	1.840	1.491	0.000	0.000	2.988	1.222	1.097	1.357	0.000	0.813	1.270
Boy's Sports Shoes	1.194	0.000	1.276	4.637	1.183	1.711	0.000	1.179	1.391	1.871	1.481
Girl's Leather Shoe	0.000	1.073	0.000	3.666	1.326	3.351	1.266	3.389	2.099	2.866	1.838
Total	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000

Table 8: Percentage of Housing, Water, Electricity, Gas and other Fuels Item Weights in the New Urban CPI Basket

Description	Lower	Middle	Upper	Central	Coast	Eastern	North Eastern	Nyanza	Rift Valley	Western	Kenya
Region Weights	0.297	0.099	0.015	0.077	0.155	0.052	0.016	0.082	0.163	0.044	1.000
House/Bungalow	3.745	11.945	10.972	37.895	24.395	38.386	26.288	43.207	29.872	40.924	20.774
Flat	31.737	40.614	17.324	20.042	5.314	7.280	24.739	4.313	3.840	0.564	18.622
Maisonette	3.971	17.262	40.404	0.000	1.975	0.000	0.000	1.123	1.304	0.000	4.663
Other Houses	39.963	6.112	0.000	10.260	34.598	13.123	0.000	6.668	22.406	9.232	24.340
Maintenance And Repair	0.795	1.488	11.598	3.705	8.128	15.372	3.877	11.557	10.282	21.760	6.256
Water Service	6.988	5.173	5.037	6.273	8.581	7.617	20.291	8.724	8.217	6.000	7.406
Electricity	3.446	9.146	11.071	10.237	7.144	4.215	9.604	6.583	5.344	2.913	6.003
Gas Lpg	2.107	6.850	3.594	3.975	2.263	3.016	0.000	3.741	4.662	1.807	3.373
Kerosene	0.243	0.000	0.000	0.000	0.152	0.000	0.221	0.840	0.264	0.333	0.211
Charcoal	7.006	1.410	0.000	6.921	5.878	10.213	9.151	12.176	10.907	14.590	7.348
Firewood	0.000	0.000	0.000	0.692	1.573	0.778	5.828	1.067	2.903	1.878	1.005
Total	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000

Table 9: Percentage of Furnishings, Household Equipment and Routine Household Maintenance Item Weights in the New Urban CPI Basket

Description	Lower	Middle	Upper	Central	Coast	Eastern	North Eastern	Nyanza	Rift Valley	Western	Kenya
Region Weights	0.297	0.099	0.015	0.077	0.155	0.052	0.016	0.082	0.163	0.044	1.000
Bed	1.489	2.407	1.365	2.720	2.853	2.372	14.714	2.662	2.969	2.492	2.357
Bed Sheets	0.637	0.000	0.000	1.050	1.410	2.789	3.925	2.662	0.000	2.923	1.093
Blanket	0.000	0.000	0.000	0.000	0.000	1.727	0.000	1.055	1.140	3.923	0.553
Mattress	1.597	1.214	0.000	2.292	1.940	2.337	3.252	3.115	3.289	3.150	2.131
Sofa Set	4.941	2.060	5.798	6.781	6.335	6.242	1.888	7.898	4.434	6.214	5.372
Coffee Table	0.944	0.000	0.000	0.000	2.379	1.875	0.000	1.727	0.000	2.245	1.051
Wall Unit	0.000	1.333	1.030	1.005	2.886	5.248	2.396	3.426	1.683	1.870	1.549
Electric/Gas Cooker	0.761	1.348	4.661	0.000	0.000	1.861	0.000	0.000	0.000	1.049	0.610
Kerosene Stove	56.786	19.940	0.000	35.379	33.764	27.117	28.911	18.394	30.967	24.413	37.771
Refrigerator	0.000	2.336	0.000	1.475	2.896	1.199	2.876	6.090	0.000	0.000	1.321
Plate	0.476	0.448	0.158	0.589	0.000	0.891	1.402	0.834	0.616	1.716	0.560
Cooking Sufuria	0.566	0.422	0.000	0.698	0.633	0.793	1.143	0.961	1.002	1.172	0.706
Buckets/Basins	0.000	0.413	2.904	0.000	1.510	0.000	0.000	0.927	0.000	0.743	0.408
Batteries (Dry Cells)	2.323	0.000	0.000	4.045	2.762	5.165	0.000	6.755	5.551	6.491	3.458
Household Soap/Bar Soap	13.159	6.244	2.533	10.280	6.229	6.382	12.119	10.429	13.176	10.625	10.446
Detergents	5.390	8.316	2.828	5.190	12.932	6.109	11.700	5.667	7.073	3.775	6.893
Insecticide	0.000	5.272	3.026	0.872	1.740	2.104	0.000	4.100	1.437	1.368	1.509
Shoe Polish/Cream	2.864	2.248	0.000	3.193	1.956	2.874	0.000	3.794	5.042	3.237	3.017
Match Box	2.070	0.000	0.000	1.724	1.803	1.432	2.380	1.349	2.403	1.766	1.736
Candles	1.621	0.000	0.000	0.000	0.000	0.000	0.000	0.919	0.000	0.908	0.693
Domestic Workers	4.376	45.999	75.698	22.707	15.971	21.482	13.294	17.237	19.218	19.919	16.767
Total	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000

Table 10: Percentage of Health Item Weights in the New Urban CPI Basket

Description	Lower	Middle	Upper	Central	Coast	Eastern	North Eastern	Nyanza	Rift Valley	Western	Kenya
Region Weights	0.297	0.099	0.015	0.077	0.155	0.052	0.016	0.082	0.163	0.044	1.000
Liver Salts And Other Salts	2.835	3.890	0.000	0.000	3.870	1.830	0.000	0.000	6.060	0.000	2.826
Cold Tablets/ Cough Syrup	6.802	2.825	0.000	3.871	5.519	4.039	7.496	2.723	1.836	3.807	3.913
Multivitamin/ Other Medicine	9.199	6.374	2.069	1.544	0.000	0.000	4.522	2.264	1.876	2.973	3.783
Fever/Pain Killers e.g Panadol	6.472	3.661	1.933	1.277	5.769	3.324	18.594	3.247	2.519	6.433	4.051
Medicine Anti-Malaria	5.409	3.221	0.000	1.887	11.526	7.249	17.140	4.110	4.136	11.420	5.185
Hypertension Drugs	0.000	0.557	0.999	1.262	0.878	1.704	0.000	0.561	0.435	0.000	0.560
Doctors Service -General	31.918	26.650	7.669	19.132	32.390	34.524	21.371	24.184	23.869	56.199	27.855
Specialist Doctor	15.893	21.357	17.300	2.774	4.930	2.717	0.000	1.177	30.686	0.000	14.043
Operation/Surgery	0.000	16.533	57.469	56.583	0.000	3.285	0.000	53.886	3.919	0.000	16.917
Opticians Services	0.000	3.689	2.346	0.000	0.000	2.073	0.000	0.000	2.657	0.000	1.136
Delivery Charges	14.028	0.000	0.000	2.479	7.283	0.000	0.000	3.472	0.000	6.626	4.769
Dental Service	4.016	3.418	5.119	2.931	17.249	5.688	5.491	0.000	0.000	0.000	3.461
X-Ray	2.323	0.000	3.236	2.148	0.000	5.014	0.000	0.000	0.000	3.779	1.302
Lab Test	1.105	5.638	1.786	2.874	6.697	6.167	12.810	2.938	4.297	4.871	3.711
Room Charges (Health Facility)	0.000	2.186	0.073	1.239	3.887	22.385	12.576	1.438	17.709	3.893	6.488
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Table 11: Percentage of Transport Item Weights in the New Urban CPI Basket

Description	Lower	Middle	Upper	Central	Coast	Eastern	North Eastern	Nyanza	Rift Valley	Western	Kenya
Region Weights	0.297	0.099	0.015	0.077	0.155	0.052	0.016	0.082	0.163	0.044	1.000
Car	0.000	6.447	47.929	13.836	3.682	4.958	0.000	28.529	5.916	2.052	9.249
Motocycles	0.000	0.000	0.728	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.035
Bicycle	0.769	0.000	0.217	0.864	1.324	0.000	0.000	0.000	1.213	2.520	0.730
Petrol	0.000	31.524	17.662	20.500	4.299	10.112	0.000	7.997	37.818	6.961	15.981
Diesel	0.000	0.000	6.643	10.353	1.559	3.099	0.000	0.000	1.766	4.122	1.940
Driving Lessons	0.000	0.000	0.274	0.000	0.000	1.288	0.000	0.808	0.000	0.000	0.151
Parking Charges	0.000	1.022	0.691	0.000	0.000	0.000	0.000	0.593	1.378	0.000	0.496
Taxi Fare	0.000	1.623	1.966	1.666	4.059	21.291	33.297	1.455	4.822	1.013	2.959
City Bus/Matatu Fares	6.992	4.455	0.226	1.786	1.208	1.137	37.303	0.000	1.018	1.353	2.963
Country Bus Fares	18.746	7.158	1.253	2.382	11.780	8.866	29.401	10.045	7.819	25.308	10.916
Matatu Fares	68.338	34.578	2.535	45.758	60.695	48.397	0.000	27.888	32.885	32.756	44.665
Boda Boda Fares	1.965	0.000	0.000	1.622	0.000	0.000	0.000	3.386	0.889	18.580	1.688
Primary/Transport	0.942	2.135	0.850	1.233	1.930	0.852	0.000	1.070	0.924	2.730	1.314
Secondary/Transport	2.249	1.342	0.233	0.000	2.320	0.000	0.000	0.584	0.895	1.119	1.291
Local Flight	0.000	1.492	3.496	0.000	2.648	0.000	0.000	16.667	2.658	0.000	2.996
International Flights	0.000	8.225	15.295	0.000	4.496	0.000	0.000	0.978	0.000	1.488	2.626
Total	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000

Table 12: Percentage of Communications Item Weights in the New CPI Basket

Description	Lower	Middle	Upper	Central	Coast	Eastern	North Eastern	Nyanza	Rift Valley	Western	Kenya
Region Weights	0.297	0.099	0.015	0.077	0.155	0.052	0.016	0.082	0.163	0.044	1.000
Cellular Handset	13.144	8.571	7.541	14.963	11.132	17.939	0.000	7.153	14.974	19.665	12.179
Local Calls	3.146	2.725	13.580	2.478	6.568	2.498	19.014	13.939	3.745	3.494	4.933
Cell Phone Airtime	83.710	83.786	63.668	82.559	82.300	79.563	80.986	77.309	75.009	76.842	80.717
Internet Cost	0.000	4.918	15.211	0.000	0.000	0.000	0.000	1.599	6.272	0.000	2.171
Total	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000

Table 13: Percentage of Recreation and Culture Item Weights in the New CPI Basket

Description	Lower	Middle	Upper	Central	Coast	Eastern	North Eastern	Nyanza	Rift Valley	Western	Kenya
Region Weights	0.297	0.099	0.015	0.077	0.155	0.052	0.016	0.082	0.163	0.044	1.000
Radio	4.376	1.998	8.506	3.046	0.000	2.972	10.299	2.451	2.572	2.994	2.741
Television Sets	19.570	5.968	1.877	12.268	19.742	8.612	4.085	8.642	6.628	11.640	12.301
Radio/Cassette Player	5.978	5.440	0.000	7.196	10.129	10.884	0.000	10.102	5.273	15.040	7.350
Computer	0.000	2.888	13.808	0.000	0.000	14.368	0.000	3.717	2.354	0.000	2.157
Films Purchase/Developing	0.000	0.000	2.157	2.613	0.000	0.000	0.000	0.000	0.000	0.000	0.266
Cinema Entry Fees	0.000	3.305	10.826	0.000	7.043	0.000	0.000	4.145	0.000	0.000	2.284
Disco/Night Club Entry	4.193	15.942	20.954	0.000	3.153	3.386	0.000	3.748	2.538	0.000	5.162
Video Cassette Hire	3.509	6.727	4.768	0.000	2.687	0.000	0.000	0.000	1.900	2.302	2.733
Books	8.196	14.869	20.457	30.721	13.246	23.747	15.744	21.492	41.968	29.285	21.218
Primary Text Books	9.869	7.471	1.823	7.787	14.406	8.105	24.225	6.001	4.623	5.845	8.492
Secondary Text Books	9.169	5.703	0.000	3.302	5.405	0.000	23.918	7.743	3.691	2.430	5.630
Newspaper	15.728	21.364	10.531	23.922	15.633	24.088	12.547	25.050	16.206	20.801	18.499
Magazine	4.153	5.043	4.292	0.000	0.000	0.000	0.000	2.931	5.435	0.000	2.962
Exercise Books	10.648	3.281	0.000	5.358	5.024	0.000	0.000	0.000	3.747	5.543	4.962
Pens	4.610	0.000	0.000	3.787	3.532	3.838	9.182	3.978	3.065	4.120	3.241
Total	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000

Table 14: Percentage of Education Item Weights in the New CPI Basket

Description	Lower	Middle	Upper	Central	Coast	Eastern	North Eastern	Nyanza	Rift Valley	Western	Kenya
Region Weights	0.297	0.099	0.015	0.077	0.155	0.052	0.016	0.082	0.163	0.044	1.000
Pre Primary-Tuition	9.478	1.281	2.269	0.000	3.279	2.064	2.639	0.000	2.935	4.032	3.076
Primary-Tuition	36.609	42.402	42.012	45.842	43.762	40.536	22.466	24.492	28.368	38.509	36.853
Primary Boarding Fees	0.000	0.000	0.000	0.000	0.000	6.806	0.000	0.000	6.556	3.967	1.754
Secondary-Tuition	35.378	31.603	29.225	37.570	47.506	24.107	56.616	30.894	33.196	34.107	35.130
Secondary Boarding Fees	0.000	2.686	5.422	2.522	5.453	3.640	9.820	3.099	9.521	4.434	4.241
Tertiary-Tuition	18.535	22.028	21.072	14.066	0.000	22.846	8.458	41.515	19.425	14.951	18.945
Total	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000

Table 15: Percentage of Restaurants and Hotels Item Weights in the New CPI Basket

Description	Lower	Middle	Upper	Central	Coast	Eastern	North Eastern	Nyanza	Rift Valley	Western	Kenya
Region Weights	0.297	0.099	0.015	0.077	0.155	0.052	0.016	0.082	0.163	0.044	1.000
Cafe And Take-Away: Food	27.843	25.697	8.922	24.927	45.414	11.697	18.718	34.030	13.520	18.975	25.947
Kiosks: Food	39.118	5.415	1.182	23.186	30.645	13.559	81.282	35.181	17.877	24.506	27.081
Restaurants and Hotels: Food	33.039	51.396	43.389	51.888	23.941	61.449	0.000	30.789	63.341	47.429	42.278
Hotel Accommodation	0.000	17.492	46.507	0.000	0.000	13.295	0.000	0.000	5.262	9.090	4.694
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Table 16: Percentage of Miscellaneous Goods and Services Item Weights in the New CPI Basket

Description	Lower	Middle	Upper	Central	Coast	Eastern	North Eastern	Nyanza	Rift Valley	Western	Kenya
Region Weights	0.297	0.099	0.015	0.077	0.155	0.052	0.016	0.082	0.163	0.044	1.000
Hair Cut (Men)	11.335	5.248	4.660	5.581	6.946	5.870	7.090	5.142	6.765	6.914	7.407
Hair Dressing (Women)	23.850	25.519	20.369	25.986	19.794	27.592	2.140	15.266	19.549	19.694	21.659
Toothbrush	0.000	0.000	0.000	0.000	0.000	1.380	3.449	0.000	2.168	0.000	0.511
Hair Oil	3.173	2.603	0.000	2.747	3.046	3.879	9.762	3.435	1.776	3.930	2.924
Toilet Paper	9.325	5.780	2.810	8.154	4.208	7.327	0.000	5.610	5.655	5.940	6.510
Perfumes	3.503	0.000	8.203	0.000	8.360	0.000	17.900	1.698	3.460	3.847	3.428
Toilet Soap	9.697	5.771	2.207	6.478	10.348	5.217	11.186	4.523	4.666	7.134	7.174
Toothpaste	9.327	4.339	1.796	6.984	8.226	5.299	0.000	4.834	5.716	7.639	6.715
Body Lotion	4.361	5.648	2.581	6.927	5.598	5.096	12.399	4.770	3.115	3.850	4.788
Deodorant	0.000	3.053	0.000	1.737	5.885	1.332	3.843	0.000	1.339	1.553	1.812
Petroleum Jelly	4.637	1.444	0.000	4.009	3.535	3.657	0.000	4.299	4.242	8.156	3.867
Sanitary Pads	7.902	4.600	1.693	7.622	6.541	6.521	5.002	6.894	5.384	6.536	6.420
Watches	1.585	5.282	5.290	2.528	5.236	6.665	5.970	4.947	11.103	4.821	5.261
Purses/Handbags (Ladies)	3.380	6.188	3.361	4.624	1.878	3.212	3.785	7.338	2.750	4.443	3.932
Suitcase/Brief Cases	0.000	1.947	2.590	1.687	0.000	1.984	4.903	2.832	2.550	1.712	1.399
Travel Bags	3.421	2.118	2.224	1.502	2.141	1.763	5.669	6.743	3.225	3.929	3.173
Umbrellas	3.289	0.000	0.000	3.523	2.258	2.239	6.484	1.550	2.821	3.642	2.406
Car Insurance	0.000	16.411	34.575	5.993	1.694	3.633	0.417	4.999	3.888	3.697	4.943
Bankers Cheque	1.215	1.266	0.434	0.000	2.875	4.931	0.000	10.048	2.669	0.669	2.692
Money Order	0.000	1.701	7.206	1.623	0.000	0.952	0.000	3.990	5.578	0.000	1.918
Photocopy	0.000	1.083	0.000	2.294	1.431	1.451	0.000	1.085	1.582	1.894	1.060
Total	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000

CHAPTER 7

SELECTION OF DATA COLLECTION AREAS AND TOWNS

7.1 Selection of Areas

As shown in Tables 17 and 18, the percentage expenditure in Nairobi, compared to the rest of urban areas, dropped from 57.1 per cent in 1993/94 UHBS to 54.6 per cent in the 2005/06 KIHBS. However, the number of households in Nairobi increased from 39.9 per cent to 41.2 per cent for the 1993/94 UHBS and the 2005/06 KIHBS respectively.

The expenditure percentages (in both 1993/94 UHBS and 2005/06 KIHBS) in Nairobi and the Rest of Urban Areas in the country were as shown in the following tables:

Table 17: Percentage expenditure in Nairobi between 1993/94 and 2005/06 Surveys

Survey Date	Nairobi	Rest urban areas
1993/94	57.1	42.9
2005/06	54.6	45.4

Table 18: Percentage of households in Nairobi between 1993/94 and 2005/06 Surveys

Survey Date	Nairobi	Rest urban areas
1993/94	39.9	60.1
2005/06	41.2	58.8

These percentages on expenditure were used to determine the number of areas selected for data collection. The zones thus selected ensured that the data collected for the CPI reflects the significance of expenditure in the regions.

Nairobi has exceptionally large size, both in terms of population and household expenditure, relative to the rest of the urban areas. Hence, it was treated separately. To ensure that the income groups were self-weighted, 10 areas were taken in Nairobi, 7 for lower income, 2 for middle income and 1 for upper income groups.

7.2 Selection of Towns

In the rest of the country, urban centres were selected to represent each province. The number of the selected centres was proportional to the number of households in each province. In total 15 areas were selected. Table 19 shows their distribution with Rift Valley and Coast Provinces having 4 centres each.

Table 19: Number of Urban Households and Expenditure by Province

Province	Urban	% No. of Households	Expenditure	% Expenditure	Number of Selected Areas
Nairobi	728,696	41.21	239,338,203,267	54.58	10
Central	135,969	7.69	24,026,233,238	5.48	2
Coast	274,544	15.53	52,288,752,268	11.92	4
Eastern	91,113	5.15	17,315,989,001	3.95	1
North Eastern	29,285	1.66	3,904,621,791	0.89	1
Nyanza	144,608	8.18	37,086,093,578	8.46	2
Rift Valley	286,898	16.22	52,788,498,267	12.04	4
Western	77,214	4.37	11,788,232,744	2.69	1
Total	1,768,327	100	438,536,624,154	100	25

From Table 19, 41.21 percent of the households were found to be in Nairobi and this led to the selection of 10 out of 25 zones being allocated to Nairobi while the other 15 were allocated to the rest of urban areas. Some districts like Migori and Kilifi had high expenditures, but they were not selected. Their high expenditures were attributed to the many urban centres within the specific districts. For example, Migori had many urban centres near Lake Victoria and the border point town of Isebania This contributed to the high expenditure figure recorded for the district, yet Migori town, had very few goods and services that qualified to be in the new CPI basket. The town was, therefore, replaced with Kisii town in Kisii district, which had the third highest expenditure in Nyanza Province.

The next step was to rank expenditures according to the KIHBS data. In every province, the district with the highest expenditure was selected for the new CPI data collection. Where more than one area was required in a province, ranking was done with the highest expenditure district being selected first. Table 21 shows the districts selected in every province.

Table 20: Distribution of Selected Districts by Province

Province	Selected Area/Group	Distribution of Selected Areas
Nairobi	Lower Income	7
	Middle Income	2
	Upper Income	1
Central	Thika	1
	Nyeri	1
Coast	Mombasa	3
	Malindi	1
Eastern	Machakos	1
North Eastern	Garissa	1
Nyanza	Kisumu	1
	Kisii	1
Rift Valley	UasinGishu	1
	Nakuru	1
	Kajiado	1
	Laikipia	1
Western	Bungoma	1

Table 21: Price collection Zones within Major Urban Centres

District	Income Group	Areas Selected
Nairobi	Upper Income group	Westlands
	Middle Income group	South C
	Middle Income group	Nairobi City Centre
	Lower Income group	Githurai
		Kibera
		Kawangware
		Eastleigh
		Kangemi
		Dandora
		Kariobangi
Thika	N/A	Thika Town
Nyeri	N/A	Nyeri Town
Mombasa	N/A	Mombasa City Centre
	N/A	Likoni
Malindi	N/A	Kisauni
	N/A	Malindi Town
Machakos	N/A	Machakos Town
Garissa	N/A	Garissa Town
Kisumu	N/A	Kisumu City Centre
Kisii	N/A	Kisii Town
Uasin Gishu	N/A	Eldoret Town
Nakuru	N/A	Nakuru Town
Kajiado	N/A	Kajiado Town
Laikipia	N/A	Nyahururu Town
Bungoma	N/A	Bungoma Town

Table 22 shows the number of commodities selected in each province. In total, 234 distinct commodities were selected in the Kenyan basket; in the previous CPI basket there were 216 distinct commodities. In each province, items that had

expenditure of 0.05 per cent and above were selected into the basket. North Eastern Province has the lowest number of items at 136.

Table 22: Number of Commodities in the New Urban CPI Basket by province

Province	Number of Items
Nairobi Lower	181
Nairobi Middle	190
Nairobi Upper	146
Central	184
Coast	187
Eastern	203
North Eastern	136
Nyanza	197
Rift Valley	207
Western	190
Kenya	234

On average, 4.45 per cent of urban households' expenditure was found to be on "Other houses", as shown in Table 23. "Other houses" include Swahili, shanty, *Manyatta* and traditional structures. 'Matatu fares', 'Houses/bungalows' and 'Beef with bones' were also found to take a substantial amount of their expenditure. In total, the top 40 items constitute 63.46 per cent of the urban household expenditure.

Table 23: Items with high expenditure percentages in the Urban CPI basket

Serial No.	Commodity	Percentage	Serial No.	Commodity	Percentage
1	Other Houses	4.453	21	Cafe and Take-away: Food	1.105
2	Matatu Fares	3.868	22	Secondary-Tuition	1.105
3	House/Bungalow	3.801	23	Electricity	1.098
4	Beef-With Bones	3.559	24	Potatoes (Irish)	1.056
5	Flat	3.407	25	Rice Grade 2	1.049
6	Cell Phone Airtime	3.086	26	Domestic Workers	1.034
7	Kerosene/Paraffin	2.328	27	Kale-SukumaWiki	1.031
8	Sugar	2.162	28	Hair Dressing (Women)	0.979
9	Restaurants and Hotels: Food	2.037	29	Beer	0.967
10	Packeted Fresh Milk	1.989	30	Cooking Fat	0.962
11	Bread	1.972	31	Fresh Fish	0.957
12	Unpacketed Fresh Milk	1.913	32	Country Bus Fares	0.945
13	Maize Flour - Sifted	1.594	33	Doctors Service -General	0.872
14	Petrol	1.384	34	Maisonette	0.853
15	Water	1.355	35	Wheat Flour	0.819
16	Charcoal	1.344	36	Car	0.801
17	Tomatoes	1.163	37	Rice- Grade 1	0.787
18	Primary-Tuition	1.159	38	Beans	0.767
19	Maintenance And Repair	1.145	39	Maize Grain - Loose	0.721
20	Kiosks: Food	1.131	40	Eggs	0.703

CHAPTER 8

CPI INDICES FOR THE NEW CPI BASKET : BASE PERIOD FEB 2009=100

Table 24: CONSUMER PRICE INDICES: NAIROBI LOWER INCOME GROUP

: FEB 2009=100													
	Food & Non-Alcoholic Beverages	Alcoholic Beverages, Tobacco & Narcotics	Clothing & Footwear	Housing, Water, Electricity, Gas and other Fuels	Furnishings, Household Equipment and Routine Household Maintenance	Health	Transport	Communication	Recreation & Culture	Education	Restaurant & Hotels	Miscellaneous Goods & Services	Total
Weight	0.425	0.016	0.049	0.182	0.073	0.024	0.069	0.035	0.016	0.016	0.058	0.038	100.00
2009													
Jan													
Feb	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Mar	101.46	100.55	101.27	99.90	102.48	104.44	105.49	100.49	100.67	100.66	103.04	100.91	101.59
Apr	103.00	100.55	101.39	100.18	100.04	104.40	106.64	100.73	100.91	100.66	103.32	101.21	102.24
May	103.14	102.60	101.41	101.13	100.76	103.69	106.48	100.54	100.95	100.07	104.04	101.27	102.56
Jun	102.58	102.76	101.47	101.15	100.18	104.23	111.26	100.56	101.07	100.14	104.29	101.37	102.65
Jul	102.65	103.17	101.91	101.51	100.37	104.23	111.27	100.56	101.21	100.14	104.29	102.51	102.84
Aug	103.89	104.72	101.93	103.04	101.10	104.29	109.12	99.55	101.29	100.14	104.29	102.96	103.56
Sept	104.65	105.04	101.73	104.77	101.99	104.48	109.12	98.56	101.37	100.14	104.29	102.89	104.23
Oct	105.44	107.18	102.05	104.36	101.92	104.84	109.11	99.54	101.32	100.14	104.29	103.10	104.58
Nov	105.62	107.74	102.15	104.28	102.07	104.73	108.99	97.55	101.35	100.14	104.38	102.99	104.59
Dec	105.69	108.04	104.67	106.43	102.74	103.32	110.78	97.36	101.44	100.26	105.61	103.73	105.37
Average	103.47	103.85	101.82	102.43	101.24	103.88	108.02	99.58	101.05	100.23	103.80	102.08	103.11
2010													
Jan	105.82	109.49	104.67	106.69	102.74	105.41	111.52	97.36	101.67	100.26	105.61	103.73	105.60
Feb	106.87	109.69	104.67	106.69	102.74	105.41	111.52	100.51	101.67	100.26	105.61	103.73	106.16

Table 25: CONSUMER PRICE INDICES: NAIROBI MIDDLE INCOME GROUP

BASE FEB 2009=100													
	Food & Non-Alcoholic Beverages	Alcoholic Beverages, Tobacco & Narcotics	Clothing & Footwear	Housing, Water, Electricity, Gas and other Fuels	Furnishings, Household Equipment and Routine Household Maintenance	Health	Transport	Communication	Recreation & Culture	Education	Restaurant & Hotels	Miscellaneous Goods & Services	Total
Weight	0.220	0.014	0.066	0.236	0.051	0.031	0.124	0.064	0.032	0.057	0.046	0.059	100.00
2009													
Jan													
Feb	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Mar	102.32	100.07	100.12	100.12	99.02	100.03	99.51	99.73	100.00	100.31	100.02	100.30	100.46
Apr	104.63	99.51	100.12	100.26	97.74	100.03	99.29	99.73	101.59	100.31	100.02	100.30	100.95
May	104.61	99.39	100.12	100.39	97.61	100.03	98.17	99.73	101.61	100.31	101.45	100.59	100.91
Jun	102.80	100.86	100.12	100.62	98.32	100.03	101.22	99.39	101.89	100.31	105.21	100.39	101.15
Jul	103.13	102.77	100.15	101.20	98.34	100.03	101.66	99.39	101.88	100.31	105.21	100.36	101.44
Aug	105.40	103.30	100.15	101.81	98.32	100.06	101.49	99.39	101.88	100.31	105.21	100.20	102.06
Sept	104.42	102.78	100.15	102.19	98.71	100.06	101.96	99.39	101.83	100.31	105.21	100.25	102.01
Oct	104.41	106.57	100.67	102.05	99.91	103.97	102.05	99.39	101.95	100.31	105.21	100.90	102.30
Nov	105.60	105.40	100.49	101.99	100.33	104.02	102.03	99.23	101.45	100.31	105.21	100.70	102.49
Dec	105.90	105.40	100.49	102.52	100.82	104.07	101.94	99.23	101.45	100.31	105.21	100.80	102.71
Average	103.93	102.37	100.24	101.20	99.01	101.12	100.85	99.51	101.41	100.28	103.45	100.43	101.50
2010													
Jan	105.90	105.40	100.49	102.52	100.82	104.07	101.94	99.23	101.45	104.19	105.21	100.80	102.93
Feb	105.98	105.40	100.49	102.52	100.82	104.07	101.94	99.23	101.45	104.19	105.21	100.80	102.95

Table 26: CONSUMER PRICE INDICES: NAIROBI UPPER INCOME GROUP

: FEB 2009=100													
	Food & Non-Alcoholic Beverages	Alcoholic Beverages, Tobacco & Narcotics	Clothing & Footwear	Housing, Water, Electricity, Gas and other Fuels	Furnishings, Household Equipment and Routine Household Maintenance	Health	Transport	Communication	Recreation & Culture	Education	Restaurant & Hotels	Miscellaneous Goods & Services	Total
Weight	0.070	0.014	0.077	0.198	0.056	0.043	0.279	0.048	0.039	0.058	0.066	0.052	100.00
2009 Jan													
Feb	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Mar	99.71	100.07	101.10	99.67	103.59	100.00	99.08	100.00	100.03	99.87	99.76	100.00	99.92
Apr	99.15	101.34	102.63	99.88	103.69	100.00	99.01	100.00	99.36	99.87	99.76	100.47	100.04
May	100.76	101.34	103.67	100.00	104.03	100.00	98.76	99.74	99.66	100.21	97.52	100.47	100.08
Jun	99.40	105.19	105.19	100.27	103.92	100.20	100.68	98.09	100.74	100.21	97.52	101.71	100.78
Jul	100.04	105.44	105.19	101.43	104.14	100.20	102.55	98.09	100.69	100.21	97.52	101.88	101.60
Aug	100.54	105.44	105.19	102.15	104.14	100.20	104.26	98.09	100.69	100.21	97.52	101.88	102.25
Sept	100.07	105.87	105.09	106.36	104.04	100.54	105.21	98.09	100.65	100.21	97.52	102.06	103.33
Oct	101.05	105.43	105.09	105.30	104.03	100.54	104.67	98.09	100.65	100.21	97.52	102.09	103.03
Nov	101.98	103.96	106.27	105.30	103.93	112.45	104.22	98.44	105.87	100.21	98.54	102.20	103.85
Dec	102.65	105.43	106.50	105.91	104.18	112.45	104.86	98.44	105.95	100.21	98.59	102.34	104.26
Average	100.49	103.59	104.18	102.39	103.61	102.42	102.12	98.82	101.30	100.13	98.34	101.37	101.74
2010 Jan													
Feb	102.65	105.43	106.50	105.91	104.18	112.45	109.34	98.44	105.95	100.21	98.59	102.34	105.51
Feb	102.79	105.43	106.50	105.91	104.18	112.45	109.34	98.44	105.95	100.21	98.59	103.14	105.56

Table 27: CONSUMER PRICE INDICES:NEW NAIROBI COMBINED

: FEB 2009=100													
	Food & Non-Alcoholic Beverages	Alcoholic Beverages, Tobacco & Narcotics	Clothing & Footwear	Housing, Water, Electricity, Gas and other Fuels	Furnishings, Household Equipment and Routine Household Maintenance	Health	Transport	Communication	Recreation & Culture	Education	Restaurant & Hotels	Miscellaneous Goods & Services	Total
Weight	0.362	0.015	0.054	0.195	0.067	0.026	0.091	0.042	0.021	0.028	0.055	0.043	1.000
2009 Jan													
Feb	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Mar	101.60	100.42	100.99	99.94	101.68	103.21	103.80	100.29	100.48	100.55	102.19	100.73	101.25
Apr	103.25	100.33	101.13	100.19	99.63	103.18	104.58	100.46	101.01	100.55	102.39	100.96	101.85
May	103.40	101.78	101.18	100.91	100.13	102.67	104.18	100.32	101.06	100.13	103.17	101.08	102.07
Jun	102.51	102.39	101.28	100.99	99.87	103.06	108.44	100.18	101.26	100.19	104.25	101.15	102.22
Jul	102.67	103.16	101.61	101.44	100.02	103.06	108.62	100.18	101.35	100.19	104.25	101.97	102.46
Aug	104.13	104.41	101.62	102.71	100.55	103.11	107.09	99.46	101.41	100.19	104.25	102.25	103.15
Sept	104.42	104.52	101.48	104.21	101.28	103.26	107.24	98.74	101.45	100.19	104.25	102.22	103.66
Oct	105.03	106.97	101.83	103.84	101.51	104.47	107.24	99.45	101.45	100.19	104.25	102.53	103.97
Nov	105.48	107.04	101.90	103.77	101.72	104.85	107.13	97.99	101.55	100.19	104.36	102.40	104.06
Dec	105.63	107.30	103.73	105.47	102.33	103.85	108.42	97.85	101.61	100.27	105.25	102.97	104.69
Average	103.46	103.48	101.52	102.13	100.79	103.16	106.07	99.54	101.15	100.24	103.51	101.66	102.67
2010 Jan													
Feb	105.72	108.35	103.73	105.66	102.33	105.35	109.13	97.85	101.78	101.20	105.25	102.97	104.95
Feb	106.50	108.50	103.73	105.66	102.33	105.35	109.13	100.12	101.78	101.20	105.25	103.00	105.36

Table 28: CONSUMER PRICE INDICES: OTHER PROVINCES EXCEPT NAIROBI

: FEB 2009=100													
	Food & Non-Alcoholic Beverages	Alcoholic Beverages, Tobacco & Narcotics	Clothing & Footwear	Housing, Water, Electricity, Gas and other Fuels	Furnishings, Household Equipment and Routine Household Maintenance	Health	Transport	Communication	Recreation & Culture	Education	Restaurant & Hotels	Miscellaneous Goods & Services	Total
Weight	0.359	0.024	0.088	0.174	0.058	0.035	0.084	0.036	0.024	0.034	0.038	0.046	1.000
2009 Jan													
Feb	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Mar	101.93	100.57	100.41	99.84	100.65	100.17	100.17	99.58	100.03	100.14	100.38	100.03	100.76
Apr	104.04	100.80	100.80	101.42	100.74	100.25	100.11	99.00	100.08	100.07	101.12	100.67	101.83
May	103.61	101.86	101.21	101.35	100.70	100.42	99.30	98.44	100.23	99.80	101.60	100.93	101.68
Jun	103.81	102.95	101.62	101.58	100.43	101.04	99.11	99.28	100.39	99.81	101.94	101.26	101.93
Jul	104.21	105.32	101.84	101.70	100.62	101.45	99.79	98.78	100.56	99.81	102.18	101.58	102.24
Aug	105.01	105.29	102.00	102.69	100.96	101.47	100.18	100.21	100.64	99.81	102.69	101.36	102.79
Sept	105.47	106.37	102.24	103.28	101.28	101.57	100.72	99.92	100.46	99.89	103.10	102.53	103.26
Oct	105.50	108.20	102.83	102.96	101.41	102.21	101.29	100.30	100.50	99.91	103.71	103.20	103.47
Nov	105.77	109.05	103.31	103.12	101.82	103.03	101.75	100.34	100.62	99.75	104.32	103.05	103.75
Dec	106.92	109.79	103.99	104.02	102.59	104.04	103.48	99.80	100.85	99.64	104.62	103.10	104.64
Average	104.206	104.564	101.842	101.996	101.018	101.422	100.537	99.605	100.398	99.876	102.332	101.609	102.396
2010 Jan													
Feb	107.29	110.23	104.06	104.02	102.85	104.11	103.48	99.80	100.89	100.65	104.62	103.20	104.84
Feb	107.77	110.59	104.13	104.03	102.87	104.12	103.56	99.80	100.98	100.74	104.62	103.20	105.05

Table 29: CONSUMER PRICE INDICES: KENYA INDEX

: FEB 2009=100													
	Food & Non-Alcoholic Beverages	Alcoholic Beverages, Tobacco & Narcotics	Clothing & Footwear	Housing, Water, Electricity, Gas and other Fuels	Furnishings, Household Equipment and Routine Household Maintenance	Health	Transport	Communication	Recreation & Culture	Education	Restaurant & Hotels	Miscellaneous Goods & Services	Total
Weight	0.360	0.021	0.074	0.183	0.062	0.031	0.087	0.038	0.023	0.031	0.045	0.045	1.000
2009 Jan													
Feb	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Mar	101.79	100.51	100.65	99.88	101.07	101.42	101.67	99.87	100.22	100.31	101.12	100.32	100.96
Apr	103.71	100.61	100.94	100.91	100.28	101.46	101.95	99.60	100.47	100.26	101.65	100.79	101.84
May	103.52	101.83	101.20	101.17	100.46	101.35	101.31	99.21	100.57	99.94	102.25	100.99	101.84
Jun	103.27	102.72	101.48	101.34	100.20	101.87	102.96	99.65	100.75	99.96	102.89	101.21	102.05
Jul	103.57	104.43	101.75	101.59	100.37	102.11	103.43	99.36	100.89	99.97	103.03	101.74	102.33
Aug	104.65	104.93	101.84	102.70	100.79	102.15	103.03	99.90	100.96	99.97	103.33	101.73	102.94
Sept	105.04	105.61	101.93	103.66	101.28	102.27	103.41	99.43	100.87	100.01	103.58	102.40	103.42
Oct	105.30	107.69	102.42	103.32	101.45	103.14	103.75	99.95	100.89	100.02	103.94	102.92	103.68
Nov	105.65	108.22	102.73	103.39	101.78	103.78	103.97	99.37	101.00	99.93	104.33	102.78	103.87
Dec	106.39	108.76	103.88	104.62	102.48	103.96	105.52	99.00	101.16	99.90	104.88	103.05	104.66
Average	103.90	104.12	101.71	102.05	100.92	102.14	102.82	99.58	100.71	100.02	102.82	101.63	102.51
2010 Jan													
Feb	106.64	109.46	103.93	104.70	102.64	104.62	105.81	99.00	101.26	100.88	104.88	103.11	104.89
Feb	107.25	109.73	103.97	104.70	102.65	104.63	105.85	99.93	101.31	100.93	104.88	103.12	105.18

ANNEX 1: WEIGHTS FOR THE NEW URBAN CPI BASKET

Weights	Lower	Middle	Upper	Central	Coast	Eastern	N/Eastern	Nyanza	RiftValley	Western	Kenya
	0.297	0.099	0.015	0.077	0.155	0.052	0.016	0.082	0.163	0.044	1.000
Rice Grade 2	1.042	0.137	-	1.275	1.075	1.712	4.650	0.823	1.128	1.061	1.049
Rice- Grade 1	0.935	0.768	0.371	0.897	1.234	0.659	0.411	0.390	0.520	0.214	0.787
Maize Grain - Loose	0.439	0.090	-	0.323	0.189	0.740	0.619	2.499	0.882	2.971	0.721
Green Maize	0.375	0.132	-	0.254	0.124	0.274	0.098	0.182	0.273	0.340	0.253
Maize Flour - Loose	0.698	0.161	-	0.254	0.123	0.206	0.224	0.131	1.009	0.518	0.474
Maize Flour - Sifted	2.164	0.688	0.152	1.976	2.340	1.726	2.158	0.563	1.016	0.678	1.594
Wheat Flour	0.714	0.587	0.104	0.962	0.901	0.858	3.776	0.681	0.797	0.980	0.819
Millet Grain - Wimbi	-	0.181	-	-	-	0.182	-	0.359	-	0.335	0.072
Millet Flour - Wimbi	0.271	-	-	0.188	0.104	0.293	-	0.108	0.179	0.156	0.171
Cost Of Milling	0.134	0.272	-	-	0.059	0.193	-	0.759	0.206	0.706	0.213
Bread	2.561	0.129	0.401	2.625	2.256	2.033	0.380	1.806	1.806	1.964	1.972
Cakes	0.396	0.164	0.360	0.279	0.175	0.303	-	0.062	0.201	0.132	0.247
Biscuits	0.092	0.290	0.139	0.104	0.114	0.134	0.096	0.155	0.091	0.091	0.124
Breakfast Cereal/Oat	0.092	0.138	0.188	0.081	0.066	0.119	-	-	0.122	-	0.086
Wheat Buns /Scones	0.694	0.294	-	-	0.137	0.135	-	0.163	0.295	0.585	0.351
Pasta (Spaghetti/Macaroni)	0.247	0.174	-	0.200	0.278	0.269	3.197	0.063	0.126	0.057	0.242
Beans	0.728	0.074	-	0.920	0.875	1.224	2.946	0.750	0.777	0.863	0.767
Green Grams	0.323	0.121	-	0.278	0.159	0.258	-	0.232	0.281	0.232	0.242
Black Grams (Njahi)	0.122	0.089	-	0.220	-	0.087	-	-	-	-	0.066
Peas	0.185	-	-	0.183	0.190	0.319	-	-	0.192	-	0.146
Groundnuts	0.182	-	-	-	0.056	0.076	-	0.192	0.089	0.496	0.119
Banana - Ripe	0.876	0.563	0.123	0.606	0.776	0.593	0.717	0.462	0.666	0.465	0.694
Orange	0.537	0.346	0.097	0.382	0.439	0.422	0.116	0.360	0.545	0.574	0.460
Pawpaws	0.197	0.198	0.125	0.218	0.072	0.173	0.386	0.072	0.160	0.065	0.158
Avocado	0.546	0.180	-	0.318	0.150	0.353	-	0.251	0.392	0.239	0.341
Mangoes	0.483	0.134	-	0.185	0.368	0.060	0.172	0.235	0.306	0.248	0.314
Pineapples	0.156	0.102	0.086	0.155	-	0.085	-	0.159	0.203	0.185	0.128
Passion Fruits	0.053	-	-	0.178	-	0.100	-	-	0.058	-	0.044
Apples	-	0.133	0.123	-	0.077	-	-	-	0.059	-	0.037
Lemons	-	-	-	0.305	0.065	0.060	0.121	-	-	0.061	0.041
Melons	0.142	0.175	0.099	-	-	-	0.153	0.060	0.107	-	0.086
Coconut	-	-	-	-	0.485	-	-	-	-	-	0.075
Milk - Fresh Unpacketed	1.323	0.376	0.101	3.650	0.690	2.719	5.960	2.122	3.329	3.188	1.913
Milk - Fresh Packeted	3.714	2.245	0.646	0.331	2.629	0.689	1.645	0.917	0.361	0.560	1.989
UHT- Fresh Flavoured Milk	-	-	-	-	-	0.064	1.037	0.077	0.087	-	0.040
Baby Milk - Tinned	0.058	0.316	-	-	-	0.063	0.412	-	-	-	0.058
Milk Sour - Mala	0.416	0.201	0.076	-	0.168	0.123	-	0.233	0.147	0.119	0.225
Yogurt (Clotted Milk)	0.057	-	0.072	0.097	-	0.064	-	0.069	-	-	0.034
Eggs	0.924	0.495	0.135	0.557	0.670	0.539	0.663	0.582	0.718	0.625	0.703
Onions	0.661	0.354	0.073	0.511	0.598	0.573	0.878	0.474	0.491	0.607	0.554
Cabbages	0.610	0.275	-	0.572	0.377	0.529	0.181	0.332	0.404	0.404	0.452
Carrots	0.270	0.226	-	0.426	0.147	0.296	0.175	0.094	0.187	0.109	0.219
Tomatoes	1.408	0.634	0.120	0.744	1.736	1.013	1.711	1.123	0.783	1.222	1.163
Spinach	0.361	0.180	-	0.262	0.105	0.185	-	-	0.256	-	0.213
Kale-Sukuma Wiki	1.568	0.427	-	0.737	0.679	0.659	0.235	1.505	0.919	1.145	1.031
Capsicums (Pilipili Hoho)	0.082	0.194	-	0.342	0.244	0.159	0.124	0.087	0.074	-	0.137
Coriander Leaves (Dania)	0.177	0.129	0.059	0.128	0.108	0.125	0.153	-	0.075	0.100	0.118
Beef - With Bones	4.351	2.362	0.449	4.256	4.140	3.388	0.484	2.347	3.222	3.533	3.559
Beef - Without Bones	0.118	0.387	0.200	0.191	0.145	0.228	-	0.329	0.428	0.268	0.234
Minced Meat	-	0.233	0.174	-	0.147	-	-	-	0.125	-	0.069
Pork	-	0.101	0.060	0.065	-	-	-	-	-	0.194	0.024
Mutton/Goat Meat	0.488	0.323	-	0.422	0.438	0.741	2.198	0.097	0.893	0.377	0.521
Chicken	0.613	1.035	0.616	0.518	0.859	0.370	-	0.773	0.546	0.600	0.665
Camel Meat	-	-	-	-	-	0.092	4.279	-	-	-	0.073
Offals - Matumbo	0.711	0.424	-	0.183	0.252	0.275	-	0.324	0.366	0.408	0.425
Sausages	-	0.251	0.210	0.286	0.097	0.168	-	-	0.222	-	0.110
Fresh Fish	1.068	0.698	0.188	0.231	1.658	0.297	-	1.264	0.669	1.473	0.957
Dried/Smoked Fish	0.510	0.219	0.072	0.093	0.270	0.080	-	0.732	0.198	0.933	0.361
Margarine	0.403	0.275	0.088	0.366	0.360	0.387	-	0.433	0.177	0.407	0.335

	Lower	Middle	Upper	Central	Coast	Eastern	N/Eastern	Nyanza	RiftValley	Western	Kenya
Weights	0.297	0.099	0.015	0.077	0.155	0.052	0.016	0.082	0.163	0.044	1.000
Cooking Fat	1.291	0.279	-	1.317	0.408	1.099	0.116	0.953	1.060	1.729	0.962
Cooking Oil	0.137	0.358	0.112	0.136	0.875	0.435	4.851	0.461	0.119	0.257	0.393
Squashes	0.166	0.199	0.127	0.220	0.110	0.278	0.121	0.197	0.105	0.138	0.161
Preserved Fruit - Juice	0.071	0.263	0.118	-	0.114	0.166	0.443	-	0.114	0.295	0.114
Sugar	2.207	0.637	0.145	2.398	1.767	2.218	7.677	2.636	2.406	3.089	2.162
Chocolate	-	0.090	0.223	-	0.230	0.135	-	0.103	0.062	-	0.074
Drinking Chocolate	0.141	0.070	-	0.088	-	0.213	0.054	0.069	0.091	0.065	0.091
Tea Leaves	0.334	0.097	-	0.724	0.285	0.540	1.101	0.280	0.456	0.530	0.375
Mineral Water	-	0.117	0.190	-	0.141	0.089	0.248	0.134	0.161	0.073	0.085
Soda	0.566	0.401	0.251	0.474	0.781	0.722	0.405	0.974	0.701	0.781	0.642
Salt	0.110	-	-	0.176	0.060	0.136	0.231	0.100	0.140	0.182	0.105
Tomato Sauce	0.144	-	-	-	0.149	-	0.169	-	0.061	-	0.078
Potatoes (Irish)	1.150	0.464	0.103	2.033	0.937	1.319	2.942	0.414	1.162	0.600	1.056
Sweet Potato	0.196	0.070	-	0.079	0.124	0.138	-	0.253	0.119	0.259	0.149
Arrow Roots	0.135	-	-	0.197	0.137	0.135	-	0.090	-	0.178	0.099
Crisps	0.092	0.096	-	-	-	-	-	-	-	-	0.037
Cooking Banana	0.524	0.191	-	0.473	0.275	0.335	-	0.325	0.324	0.616	0.378
Cafe And Take-Aways: Food	1.603	1.172	0.586	0.782	1.805	0.542	0.068	0.733	0.696	0.448	1.105
Kiosks: Food	2.252	0.247	0.078	0.727	1.218	0.629	0.295	0.758	0.920	0.578	1.131
Restaurants And Hotels: Food	1.902	2.344	2.851	1.627	0.952	2.850	-	0.663	3.259	1.120	2.037
Spirits	0.126	0.292	0.421	0.073	0.084	0.409	-	0.073	0.131	0.191	0.148
Wine	-	0.081	0.431	-	-	-	-	-	0.113	-	0.033
Beer	0.550	0.723	0.403	1.405	1.190	1.293	-	0.817	1.630	0.760	0.967
Traditional Brew - Muratina/ Buzza	0.215	-	-	-	0.425	-	-	0.115	0.339	0.333	0.209
Cigarettes	0.628	0.309	0.095	0.455	1.203	0.766	0.074	0.059	0.491	0.340	0.581
Miraa (Khat)	0.059	-	-	-	0.402	0.525	1.013	0.008	-	-	0.124
Men's Coat/Jacket	0.24	0.19	-	0.19	-	0.25	-	0.25	0.26	0.27	0.193
Men's Suit	0.20	0.62	1.27	0.96	0.08	0.58	-	0.42	0.34	0.62	0.374
Men's Trousers	0.45	0.35	0.43	0.65	0.81	0.74	0.83	0.62	0.84	0.74	0.623
Men's Shirt	0.30	0.49	0.50	0.41	0.44	0.56	0.95	0.61	0.48	0.77	0.451
Men's Underpants	-	-	-	0.09	-	0.07	0.13	-	0.13	0.10	0.039
Men's Sweater	-	0.07	0.21	0.14	-	0.09	-	-	0.10	-	0.042
Men's Vest	0.05	-	-	0.07	-	-	0.24	0.08	-	-	0.032
Men's Socks	-	-	-	0.10	-	0.07	-	0.09	0.09	-	0.034
Boys Shirt	-	0.08	-	0.12	0.13	0.19	0.16	0.14	0.14	0.19	0.092
Boy's Trousers	-	0.06	-	0.08	0.13	0.18	0.32	0.43	0.09	0.09	0.101
Boy's Jacket	0.07	-	0.08	0.08	-	0.06	0.06	0.19	0.16	0.07	0.077
Boy's Suit	0.28	0.20	0.30	0.25	0.33	0.26	0.33	1.10	0.55	0.44	0.396
Boy's Underwear	0.45	0.39	1.99	0.59	0.68	0.71	1.25	0.54	0.43	1.00	0.569
Boy's Socks	0.13	0.20	0.12	0.25	0.15	0.24	-	0.22	0.19	0.29	0.178
Women's Skirt	0.15	0.07	0.08	0.21	0.32	0.25	0.20	0.28	0.22	0.33	0.209
Girl's Blouse	-	0.13	-	0.09	-	0.09	-	0.08	0.12	0.08	0.055
Girl's Skirt	0.06	-	-	-	-	0.07	0.09	0.19	0.09	0.12	0.058
Girl's Dress	0.10	0.16	-	0.19	0.13	0.42	0.43	0.15	0.16	0.18	0.155
Girl's Socks	0.11	0.25	0.07	0.19	0.16	0.28	-	0.24	0.24	-	0.171
Girl's Night Dress	0.15	0.34	0.53	0.33	0.08	0.48	-	0.12	0.50	0.07	0.242
Napkins	0.07	0.10	-	0.07	0.14	0.07	0.06	0.14	0.05	0.09	0.085
Children's Shorts	0.06	0.03	0.02	0.00	0.05	0.05	0.02	0.08	0.03	0.02	0.045
Kanga /Kikoi	0.19	-	0.20	0.11	0.57	0.16	1.86	0.22	0.14	0.20	0.243
Tailoring Services	0.08	0.08	-	0.24	0.16	0.17	0.34	0.25	0.14	0.36	0.147
Men's Shoes - Leather	0.26	0.41	0.42	0.81	0.32	0.49	1.68	0.58	0.72	0.78	0.488
Men's Sports Shoes	0.07	0.27	-	0.14	0.16	0.08	0.06	0.24	0.19	0.10	0.143
Women's Shoes - Leather	0.28	-	0.29	0.29	0.18	0.32	0.92	0.41	0.35	0.50	0.280
Women's Shoes - Rubber	0.07	-	0.14	0.10	-	0.09	-	0.37	0.10	0.12	0.087
Women's Rubber Sandals	-	0.23	-	0.14	0.06	0.18	0.15	0.10	0.10	0.10	0.085
Boys shoes - plastics	0.09	0.10	-	-	0.22	0.12	0.13	0.14	-	0.08	0.094
Boys Sports Shoes	0.06	-	0.10	0.40	0.09	0.17	-	0.12	0.12	0.19	0.110
Girl's Leather Shoe	-	0.07	-	0.32	0.10	0.33	0.15	0.34	0.18	0.29	0.137
Children's Shirt	0.09	0.14	-	0.07	0.41	0.23	0.33	0.19	0.09	0.26	0.167
Girl's Trousers	0.21	0.21	0.06	0.17	0.52	0.28	0.26	0.17	0.14	0.23	0.244

	Lower	Middle	Upper	Central	Coast	Eastern	N/Eastern	Nyanza	RiftValley	Western	Kenya
Weights	0.297	0.099	0.015	0.077	0.155	0.052	0.016	0.082	0.163	0.044	1.000
Children's Suit	0.15	0.09	0.12	0.15	-	0.22	-	0.06	0.11	0.26	0.113
Girl's Dress	0.19	0.23	0.11	0.35	0.57	0.77	0.29	0.45	0.32	0.82	0.367
Cooking Fat	1.291	0.279	-	1.317	0.408	1.099	0.116	0.953	1.060	1.729	0.962
Cooking Oil	0.137	0.358	0.112	0.136	0.875	0.435	4.851	0.461	0.119	0.257	0.393
Primary School Uniform	0.19	0.27	-	0.17	0.36	0.26	0.64	0.20	0.24	0.27	0.245
Secondary School Uniform	-	0.17	0.06	-	0.09	0.08	0.15	0.16	0.11	0.09	0.074
House/Bungalow	0.681	2.819	2.171	5.951	5.366	6.182	3.368	6.508	4.820	6.868	3.801
Flat	5.767	9.587	3.428	3.147	1.169	1.172	3.170	0.650	0.619	0.095	3.407
Maisonette	0.722	4.075	7.994	-	0.434	-	-	0.169	0.210	-	0.853
Other Houses	7.262	1.443	-	1.611	7.611	2.113	-	1.004	3.615	1.549	4.453
Maintenance And Repair	0.144	0.351	2.295	0.582	1.788	2.476	0.497	1.741	1.659	3.652	1.145
Electricity	0.626	2.159	2.190	1.608	1.571	0.679	1.231	0.992	0.862	0.489	1.098
Water	1.270	1.221	0.997	0.985	1.888	1.227	2.600	1.314	1.326	1.007	1.355
Kerosene/Paraffin	4.116	1.009	-	2.299	1.922	1.928	0.928	1.137	1.459	1.927	2.328
Gas/Lpg	0.383	1.617	0.711	0.624	0.498	0.486	-	0.564	0.752	0.303	0.617
Charcoal	1.273	0.333	-	1.087	1.293	1.645	1.172	1.834	1.760	2.449	1.344
Firewood	-	-	-	0.109	0.346	0.125	0.747	0.161	0.468	0.315	0.184
Household Soap/Bar Soap	0.954	0.316	0.143	0.668	0.354	0.454	0.389	0.645	0.621	0.838	0.644
Detergents	0.391	0.421	0.159	0.337	0.736	0.434	0.375	0.350	0.333	0.298	0.425
Insecticide	-	0.267	0.171	0.057	0.099	0.150	-	0.253	0.068	0.108	0.093
Shoe Polish/Cream	0.208	0.114	-	0.208	0.111	0.204	-	0.235	0.238	0.255	0.186
Match Box	0.150	-	-	0.112	0.103	0.102	0.076	0.083	0.113	0.139	0.107
Candles	0.117	-	-	-	-	-	-	0.057	-	0.072	0.043
Laundry (Clothes)	0.119	0.588	0.620	0.189	-	0.194	-	0.069	0.276	0.111	0.183
Batteries (Dry Cells)	0.168	-	-	0.263	0.157	0.367	-	0.418	0.262	0.512	0.213
Domestic Workers	0.317	2.327	4.268	1.476	0.909	1.528	0.427	1.066	0.905	1.572	1.034
Sofa Set	0.358	0.104	0.327	0.441	0.361	0.444	0.061	0.488	0.209	0.490	0.331
Coffee Table	0.068	-	-	-	0.135	0.133	-	0.107	-	0.177	0.065
Bed	0.108	0.122	0.077	0.177	0.162	0.169	0.472	0.165	0.140	0.197	0.145
Wall Unit	-	0.067	0.058	0.065	0.164	0.373	0.077	0.212	0.079	0.148	0.095
Plate	0.034	0.023	0.009	0.038	-	0.063	0.045	0.052	0.029	0.135	0.035
Cooking Sufuria	0.041	0.021	-	0.045	0.036	0.056	0.037	0.059	0.047	0.092	0.044
Buckets/Basins	-	0.021	0.164	-	0.086	-	-	0.057	-	0.059	0.025
Bed Sheets	0.046	-	-	0.068	0.080	0.198	0.126	0.165	-	0.231	0.067
Blanket	-	-	-	-	-	0.123	-	0.065	0.054	0.310	0.034
Mattress	0.116	0.061	-	0.149	0.110	0.166	0.104	0.193	0.155	0.249	0.131
Refrigerator	-	0.118	-	0.096	0.165	0.085	0.092	0.376	-	-	0.081
Electric/Gas Cooker	0.055	0.068	0.263	-	-	0.132	-	-	-	0.083	0.038
Kerosene Stove	0.044	-	-	-	0.033	-	0.028	0.127	0.043	0.056	0.039
Liver Salts And Other A Salts	0.068	0.119	-	-	0.064	0.067	-	-	0.265	-	0.088
Cold Tablets/Cough Syrup	0.162	0.086	-	0.177	0.091	0.147	0.095	0.129	0.080	0.117	0.122
Multivitamin/Other Medicine	0.220	0.195	0.090	0.070	-	-	0.057	0.107	0.082	0.092	0.118
Fever/Pain Killers Eg Panador	0.155	0.112	0.084	0.058	0.095	0.121	0.236	0.154	0.110	0.198	0.127
Medicine Anti-Malaria	0.129	0.098	-	0.086	0.190	0.264	0.218	0.194	0.181	0.352	0.162
X-Ray	0.055	-	0.140	0.098	-	0.182	-	-	-	0.117	0.041
Lab Test	0.026	0.172	0.078	0.131	0.110	0.224	0.163	0.139	0.188	0.150	0.116
Operation/Surgery	-	0.505	2.495	2.583	-	0.120	-	2.549	0.172	-	0.529
Delivery Charges	0.335	-	-	0.113	0.120	-	-	0.164	-	0.204	0.149
Room Charges (Health Facility)	-	0.067	0.003	0.057	0.064	0.814	0.160	0.068	0.775	0.120	0.203
Hypertension drugs	-	0.017	0.043	0.058	0.014	0.062	-	0.027	0.019	-	0.018
Doctors Service -General	0.762	0.813	0.333	0.873	0.533	1.256	0.272	1.144	1.045	1.733	0.872
Specialist Doctor	0.380	0.652	0.751	0.127	0.081	0.099	-	0.056	1.343	-	0.439
Dental Service	0.096	0.104	0.222	0.134	0.284	0.207	0.070	-	-	-	0.108
Opticians Services	-	0.113	0.102	-	-	0.075	-	-	0.116	-	0.036
Petrol	-	3.919	4.930	1.896	0.303	0.663	-	0.908	3.692	0.412	1.384
Diesel	-	-	1.854	0.958	0.110	0.203	-	-	0.172	0.244	0.168
Taxi Fare	-	0.202	0.549	0.154	0.286	1.396	0.393	0.165	0.471	0.060	0.256
Parking Charges	-	0.127	0.193	-	-	-	-	0.067	0.135	-	0.043
City Bus/Matatu Fares	0.486	0.554	0.063	0.165	0.085	0.075	0.441	-	0.099	0.080	0.257
Country Bus Fares	1.302	0.890	0.350	0.220	0.830	0.582	0.347	1.141	0.763	1.499	0.945

	Lower	Middle	Upper	Central	Coast	Eastern	N/Eastern	Nyanza	RiftValley	Western	Kenya
Weights	0.297	0.099	0.015	0.077	0.155	0.052	0.016	0.082	0.163	0.044	1.000
Matatu Fares	4.745	4.299	0.708	4.232	4.275	3.174	-	3.168	3.210	1.940	3.868
Boda Boda Fares	0.136	-	-	0.150	-	-	-	0.385	0.087	1.100	0.146
Local Flight	-	0.185	0.976	-	0.186	-	-	1.893	0.259	-	0.259
International Flights	-	1.023	4.269	-	0.317	-	-	0.111	-	0.088	0.227
Bicycl E	0.053	-	0.061	0.080	0.093	-	-	-	0.118	0.149	0.063
Primary/Transport	0.065	0.265	0.237	0.114	0.136	0.056	-	0.122	0.090	0.162	0.114
Secondary/Transport	0.156	0.167	0.065	-	0.163	-	-	0.066	0.087	0.066	0.112
Local Calls	0.108	0.175	0.651	0.097	0.225	0.081	0.254	0.650	0.127	0.107	0.189
Cell Phone Airtime	2.886	5.366	3.052	3.242	2.813	2.586	1.081	3.608	2.552	2.345	3.086
Internet Cost	-	0.315	0.729	-	-	-	-	0.075	0.213	-	0.083
Cellular Handset	0.453	0.549	0.361	0.588	0.380	0.583	-	0.334	0.509	0.600	0.466
Car Insurance	-	0.973	1.788	0.236	0.073	0.171	0.015	0.279	0.195	0.159	0.223
Driving Lessons	-	-	0.076	-	-	0.084	-	0.092	-	-	0.013
Car	-	0.802	13.377	1.280	0.259	0.325	-	3.241	0.577	0.122	0.801
Motorcycle	-	-	0.203	-	-	-	-	-	-	-	0.003
Computer	-	0.093	0.538	-	-	0.277	-	0.087	0.060	-	0.049
Radio	0.071	0.064	0.332	0.072	-	0.057	0.143	0.058	0.065	0.072	0.062
Television Sets	0.317	0.192	0.073	0.288	0.481	0.166	0.057	0.203	0.168	0.281	0.277
Radio/Cassette/Cd Player	0.097	0.175	-	0.169	0.247	0.210	-	0.238	0.134	0.363	0.165
Hotel Accommodation	-	0.798	3.056	-	-	0.617	-	-	0.271	0.215	0.210
Video Cassette Hire	0.057	0.216	0.186	-	0.065	-	-	-	0.048	0.055	0.062
Films Purchase/Developing	-	-	0.084	0.061	-	-	-	-	-	-	0.006
Cinema Entry Fees	-	0.106	0.422	-	0.171	-	-	0.098	-	-	0.051
Disco/Night Club Entry	0.068	0.513	0.817	-	0.077	0.065	-	0.088	0.064	-	0.116
Books	0.133	0.478	0.798	0.722	0.322	0.457	0.219	0.506	1.065	0.706	0.478
Newspaper	0.255	0.687	0.411	0.562	0.381	0.464	0.174	0.590	0.411	0.502	0.417
Magazine	0.067	0.162	0.167	-	-	-	-	0.069	0.138	-	0.067
Pens	0.075	-	-	0.089	0.086	0.074	0.128	0.094	0.078	0.099	0.073
Exercise Books	0.173	0.106	-	0.126	0.122	-	-	-	0.095	0.134	0.112
Photocopying	-	0.064	-	0.090	0.062	0.068	-	0.060	0.079	0.081	0.048
Pre Primary-Tuition	0.153	0.073	0.133	-	0.096	0.078	0.080	-	0.100	0.124	0.097
Primary-Tuition	0.591	2.431	2.454	1.533	1.283	1.525	0.685	1.079	0.968	1.184	1.159
Secondary-Tuition	0.571	1.812	1.707	1.257	1.393	0.907	1.727	1.361	1.133	1.049	1.105
Tertiary-Tuition	0.299	1.263	1.231	0.471	-	0.860	0.258	1.829	0.663	0.460	0.596
Primary textBooks	0.160	0.240	0.071	0.183	0.351	0.156	0.337	0.141	0.117	0.141	0.191
Secondary text Books	0.149	0.183	-	0.078	0.132	-	0.332	0.182	0.094	0.059	0.127
Primary Boarding fees	-	-	-	-	-	0.256	-	-	0.224	0.122	0.055
Secondary Boarding Fees	-	0.154	0.317	0.084	0.160	0.137	0.299	0.136	0.325	0.136	0.133
Hair Cut (Men)	0.427	0.311	0.241	0.220	0.300	0.277	0.252	0.287	0.340	0.297	0.335
Sanitary Pads	0.297	0.273	0.088	0.300	0.282	0.308	0.178	0.384	0.270	0.280	0.290
Hair Oil	0.119	0.154	-	0.108	0.131	0.183	0.347	0.192	0.089	0.169	0.132
Perfumes	0.132	-	0.424	-	0.361	-	0.637	0.095	0.174	0.165	0.155
Hair Dressing (Women)	0.897	1.514	1.054	1.022	0.854	1.302	0.076	0.851	0.982	0.845	0.979
Toothbrush	-	-	-	-	-	0.065	0.123	-	0.109	-	0.023
Toilet Soap	0.365	0.342	0.114	0.255	0.447	0.246	0.398	0.252	0.234	0.306	0.324
Toilet Paper	0.351	0.343	0.145	0.321	0.182	0.346	-	0.313	0.284	0.255	0.294
Toothpaste	0.351	0.257	0.093	0.275	0.355	0.250	-	0.270	0.287	0.328	0.304
Body Lotion	0.164	0.335	0.133	0.272	0.242	0.240	0.441	0.266	0.156	0.165	0.216
Deodorant	-	0.181	-	0.068	0.254	0.063	0.137	-	0.067	0.067	0.082
Petroleum Jelly	0.174	0.086	-	0.158	0.153	0.173	-	0.240	0.213	0.350	0.175
Watches	0.060	0.313	0.274	0.099	0.226	0.314	0.212	0.276	0.557	0.207	0.238
Purses/Handbags (Ladies)	0.127	0.367	0.174	0.182	0.081	0.152	0.135	0.409	0.138	0.191	0.178
Suitcase/Brief Cases	-	0.115	0.134	0.066	-	0.094	0.174	0.158	0.128	0.073	0.063
Travel Bags	0.129	0.126	0.115	0.059	0.092	0.083	0.202	0.376	0.162	0.168	0.143
Umbrellas	0.124	-	-	0.139	0.097	0.106	0.231	0.086	0.142	0.156	0.109
Bankers Cheque	0.046	0.075	0.022	-	0.124	0.233	-	0.560	0.134	0.029	0.122
Money Order	-	0.101	0.373	0.064	-	0.045	-	0.222	0.280	-	0.087