

## REPUBLIC OF RWANDA



NATIONAL INSTITUTE OF STATISTICS OF RWANDA

### CONSUMER PRICE INDEX (CPI) July 2010

The National Institute of Statistics of Rwanda is very pleased to deliver to users the Consumer Price Index (February 2009=100). The All Urban CPI is regarded as the headline index, producing the official inflation rate.

**The CPI is published every month by the 15th**

#### All Urban Index:

In July 2010 the All Urban general index is established at 103.5 this stands for a decrease of 0.83% over the previous month which was 104.3. In annual change it increased by 3.01% compared to 5.03% in the previous month. This gives a general inflation rate by an annual average of 4.4% during the month of July 2010.

The underlying inflation rate (excluding fresh food and energy) is decreased by 0.73% if compared to the previous month and increased 1.10% on annual change. The annual average underlying inflation rate is + 2.8% in July 2010 down from the previous month (+3.3%).

#### All Rural Index:

In July 2010 the All Rural general index is established at 99.5 this stands for a decrease of 1.87% over the previous month which was 101.4. In annual change it decreased by (-4.78%) compared to 0.96% in the previous month.

#### All Rwanda Index:

In July 2010 the All Rwanda general index is established at 100.8 this stands for a decrease of 1.20% over the previous month which was 102.1. In annual change it decreased by (-2.22%) compared to 1.98% in the previous month.

Feb 2009=100	July 09	Aug. 09	Sept. 09	Oct. 09	Nov. 09	Dec. 09	Jan. 10	Feb. 10	Mar. 10	April 10	May 10	June 10	July 10
<b>All Urban General Index</b>	100.4	101.5	103.3	104.1	104.8	103.7	102.9	102.5	102.9	103.4	104.0	104.3	103.5
<b>Annual change</b>	7.17	5.57	6.09	5.70	5.93	5.74	4.54	2.46	2.05	2.74	4.21	5.03	3.01
<b>All Rural General Index</b>	104.5	104.3	106.3	109.3	113.4	112.4	108.3	104.4	105.4	102.7	102.4	101.4	99.5
<b>Annual change</b>								4.42	1.86	-0.34	-1.52	0.96	-4.78
<b>All Rwanda General Index</b>	103.1	103.3	105.3	107.5	110.5	109.4	106.4	103.7	104.5	102.9	102.9	102.1	100.8
<b>Annual change</b>								3.72	1.92	0.64	0.32	1.98	-2.22

**ALL URBAN CONSUMER PRICE INDEX**

**Base 100: February 2009**

	Divisions ❖ Groups	Weights	Indices for the following months:					Changes in % over		
			July 09	April 10	May 10	June 10	July 10	1 month	3 months	12 months
	<b>GENERAL INDEX</b>	<b>10000</b>	100.4	103.4	104.0	104.3	103.5	-0.83	0.02	3.01
<b>01</b>	<b>Food and non-alcoholic beverages</b>	<b>3538</b>	98.9	104.0	104.5	104.6	102.5	<b>-1.97</b>	-1.38	3.72
0111	❖ Bread and cereals	733	98.3	97.6	96.4	94.6	90.8	<b>-3.98</b>	-6.93	-7.63
0112	❖ Meat	274	96.4	94.8	94.7	94.8	95.1	0.31	0.34	-1.29
0113	❖ Fish	83	99.7	105.8	108.3	111.8	115.4	<b>3.20</b>	9.03	15.70
0117	❖ Vegetables	1200	102.0	112.0	114.7	115.5	116.7	0.98	4.18	14.34
<b>012</b>	<b>❖ Non-alcoholic beverages</b>	<b>160</b>	97.8	99.3	98.2	98.3	97.7	-0.64	-1.66	-0.10
<b>02</b>	<b>Alcoholic beverages and tobacco</b>	<b>240</b>	103.6	112.4	112.7	111.1	110.2	-0.79	-1.90	6.43
<b>03</b>	<b>Clothing and footwear</b>	<b>377</b>	99.2	101.0	100.7	100.7	101.3	0.63	0.30	2.12
<b>04</b>	<b>Housing, water, electricity, gas and other fuels</b>	<b>2204</b>	100.2	100.2	101.2	102.9	102.2	-0.63	1.98	1.99
<b>05</b>	<b>Furnishing, household equipment and routine household maintenance</b>	<b>457</b>	100.0	98.9	98.8	98.7	97.8	-0.99	-1.21	-2.23
<b>06</b>	<b>Health</b>	<b>163</b>	100.3	102.7	102.1	102.3	101.0	<b>-1.26</b>	-1.64	0.74
<b>07</b>	<b>Transport</b>	<b>1189</b>	107.0	112.4	112.8	112.7	112.8	0.07	0.39	5.40
<b>08</b>	<b>Communication</b>	<b>288</b>	99.7	99.7	99.4	99.9	100.1	0.13	0.35	0.34
<b>09</b>	<b>Recreation and culture</b>	<b>256</b>	99.7	101.7	101.9	101.1	100.5	-0.60	-1.24	0.73
<b>10</b>	<b>Education</b>	<b>331</b>	100.0	106.4	106.4	106.4	106.4	0.00	0.00	6.42
<b>11</b>	<b>Restaurants and hotels</b>	<b>558</b>	100.2	101.9	103.7	103.5	103.9	0.33	1.94	3.70
<b>12</b>	<b>Miscellaneous goods and services</b>	<b>400</b>	97.3	95.7	95.8	96.2	97.4	<b>1.25</b>	1.73	0.01

In July 2010 the All Urban general index is established at 103.5 this stands for a decrease of 0.83% over the previous month which was 104.3. In annual change it increased by 3.01% compared to 5.03% in the previous month. This gives a general inflation rate by an annual average of 4.4% during the month of July 2010.

The underlying inflation rate (excluding fresh food and energy) is decreased by 0.73% if compared to the previous month and increased 1.10% on annual change. The annual average underlying inflation rate is + 2.8% in July 2010 down from the previous month (+3.3%).

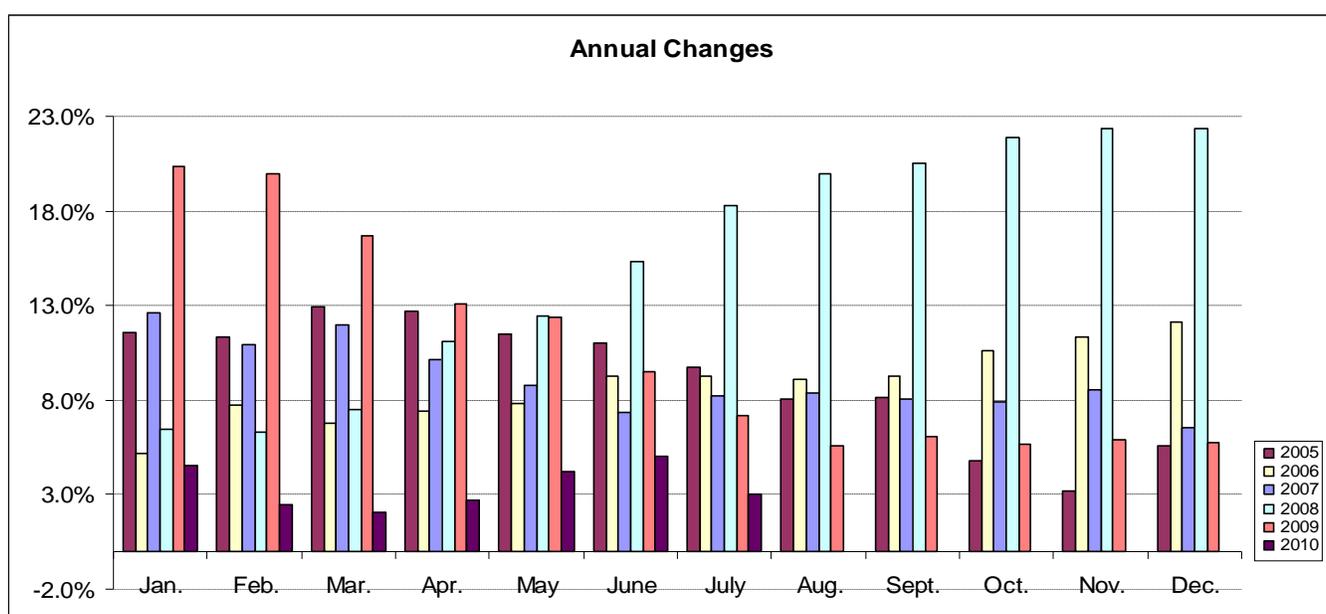
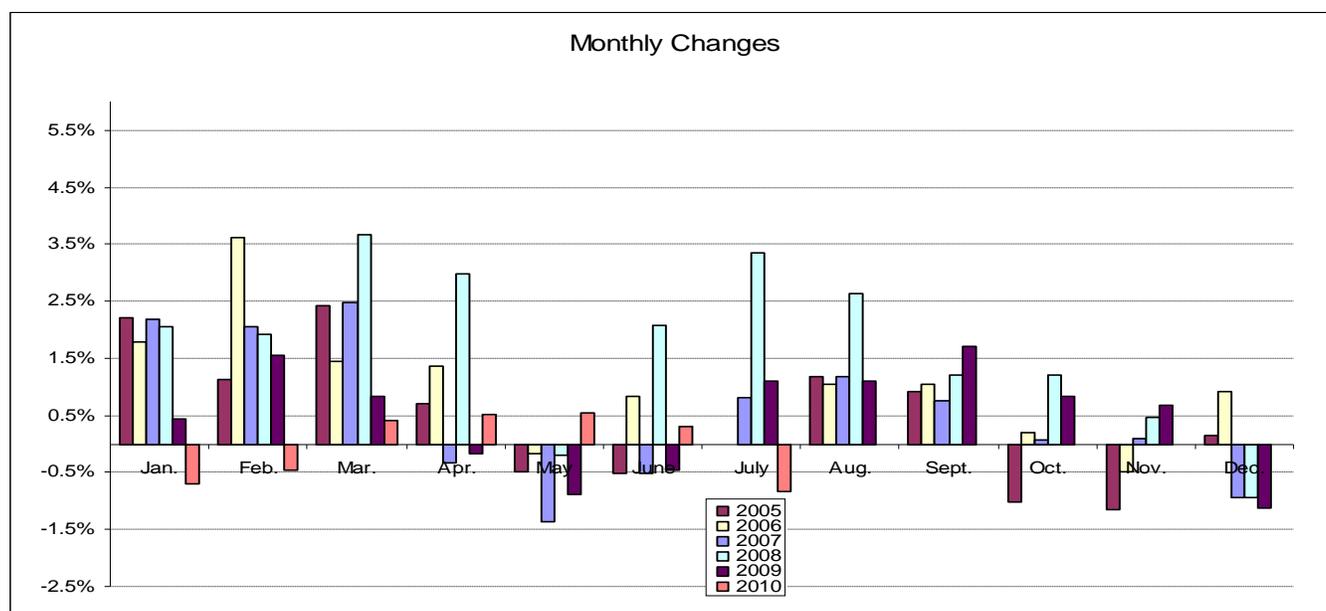
The decrease in the consumer prices index of 0.83% is attributable primarily to the decrease in Food and non-alcoholic beverages (-1.97%) and Housing, water, electricity, gas and other fuels (-0.63%).

It is noted that the decrease of 1.97% in prices of Food and non-alcoholic beverages is primary attributable to the decrease of 3.98% of Bread and cereals.

In annual change, the increase in the general index of 3.01% is mainly due to the rising prices of Food and non-alcoholic beverages (3.72%) and Transport (5.40%) which contributed +1.30% and +0.68% respectively.

The 'local goods' increased by 3.70% on annual change with a monthly variation of -0.94%, while prices of the imported products increased by 0.33% on annual change with a monthly change of -0.39%.

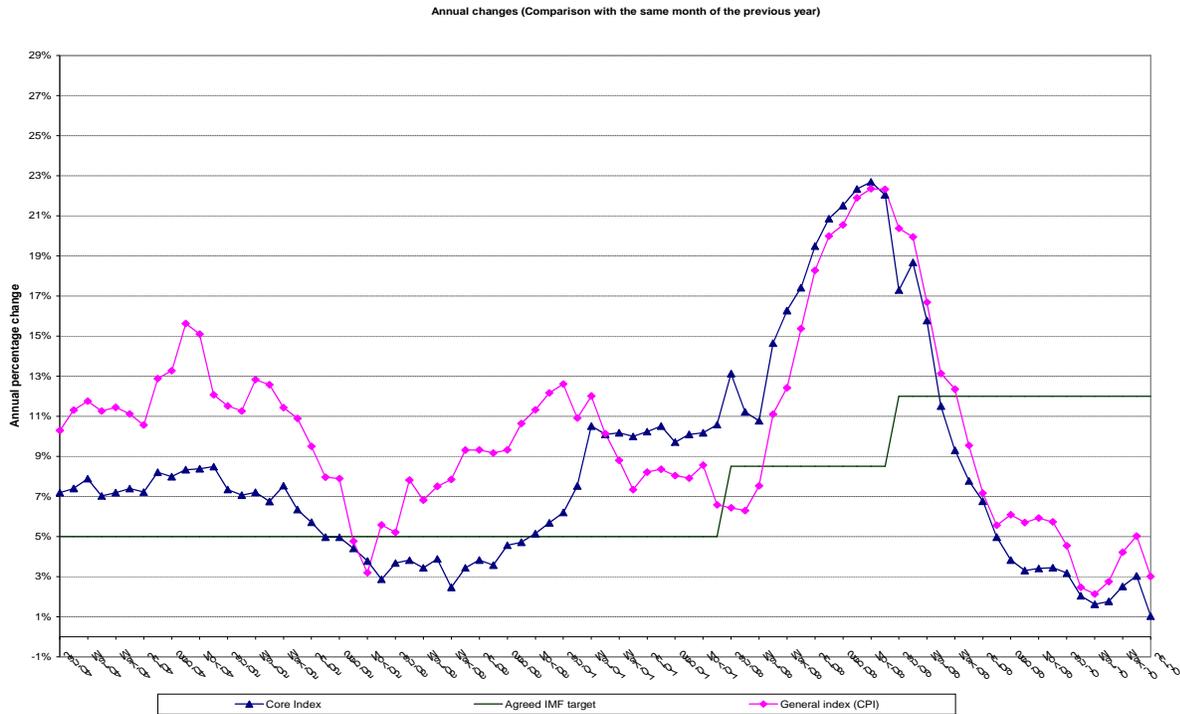
The prices of the fresh products had a positive annual change of 12.94% between July 2010 and July 2009.



### Evolution (over 12 months) of the rate of inflation (%) <sup>(1)</sup>

MONTH	July 09	Aug. 09	Sep. 09	Oct. 09	Nov. 09	Dec. 09	Jan. 10	Feb. 10	March 10	April 10	May 10	June 10	July 10
General index	16.9	15.6	14.4	13.0	11.6	10.3	9.1	7.7	6.5	5.7	5.1	4.8	4.4
Core / Underlying	16.0	14.6	13.1	11.5	10.0	8.5	7.4	6.1	5.0	4.2	3.7	3.3	2.8

(1) In July 2010 the average index of the last twelve months August 2009 to July 2010 increased by 4.4% (general index) and 2.8% (Core index) compared to the average index of the previous twelve months (August 2008 to July 2009).



### Other All Urban Indices

	Weights	Indices for the following months:				Changes in % over:			
		July 09	April 10	May 10	June 10	July 10	1 month	3 months	12 months
<b>GENERAL INDEX</b>	<b>10,000</b>	100.4	103.4	104.0	104.3	103.5	-0.83	0.02	3.01
<b>Local Goods Index</b>	7,947	100.5	104.1	104.8	105.2	104.2	-0.94	0.12	3.70
Food and non-alcoholic beverages	2,982	99.1	105.7	106.3	106.5	104.3	-2.05	-1.26	5.30
Housing, water, electricity, gas and other fuels	2,134	100.2	100.3	101.3	102.9	102.3	-0.64	2.00	2.09
Transport	759	108.7	112.7	112.8	112.5	112.6	0.13	-0.04	3.59
<b>Imported Goods Index</b>	<b>2,053</b>	100.1	100.8	101.0	100.8	100.5	-0.39	-0.39	0.33
Food and non-alcoholic beverages	555	97.7	94.9	95.2	94.3	92.9	-1.46	-2.08	-4.90
Furnishing, household equipment	196	99.2	95.1	94.9	94.8	94.4	-0.43	-0.72	-4.88
Transport	430	104.1	111.9	112.8	113.2	113.2	-0.03	1.16	8.74
<b>Fresh Products index<sup>(1)</sup></b>	<b>1,403</b>	99.6	110.8	113.2	113.1	112.5	-0.56	1.57	12.94
<b>Energy index</b>	<b>767</b>	102.0	106.3	108.3	109.2	106.6	-2.32	0.34	4.50
<b>General Index excluding fresh Products and energy<sup>(2)</sup></b>	<b>7,829</b>	100.4	101.8	101.9	102.3	101.5	-0.73	-0.32	1.10

(1) Fresh products are food products which have seasonal fluctuations

(2) Proxy for underlying inflation

## ALL RURAL CONSUMER PRICE INDEX:

February 2009=100

	Divisions ❖ Groups	Weights	Indices for the following months:					Changes in % over		
			July 09	April 10	May 10	June 10	July 10	1 month	3 months	12 months
	<b>GENERAL INDEX</b>	<b>10000</b>	104.5	102.7	102.4	101.4	99.5	<b>-1.87</b>	-3.05	-4.78
<b>01</b>	<b>Food and non-alcoholic beverages</b>	<b>6387</b>	106.9	104.5	103.7	101.5	98.5	<b>-2.97</b>	-5.69	-7.82
0111	❖ Bread and cereals	<b>1203</b>	94.3	93.4	91.5	87.3	79.2	<b>-9.31</b>	-15.20	-16.05
0112	❖ Meat	<b>169</b>	99.1	94.1	94.5	95.4	98.5	<b>3.32</b>	4.72	-0.51
0113	❖ Fish	<b>72</b>	104.2	108.5	106.6	109.5	114.3	<b>4.39</b>	5.27	9.67
0117	❖ Vegetables	<b>3213</b>	118.5	115.6	116.4	114.1	114.2	0.05	-1.28	-3.66
<b>012</b>	<b>❖ Non-alcoholic beverages</b>	<b>196</b>	94.5	88.9	88.7	88.4	88.6	0.15	-0.36	-6.23
<b>02</b>	<b>Alcoholic beverages and tobacco</b>	<b>424</b>	94.2	103.5	103.2	100.0	99.1	-0.85	-4.25	5.20
<b>03</b>	<b>Clothing and footwear</b>	<b>348</b>	97.9	104.8	105.1	104.4	104.6	0.15	-0.16	6.78
<b>04</b>	<b>Housing, water, electricity, gas and other fuels</b>	<b>1274</b>	103.2	98.7	99.6	99.9	100.5	0.58	1.84	-2.62
<b>05</b>	<b>Furnishing, household equipment and routine household maintenance</b>	<b>277</b>	101.8	105.9	105.9	105.5	105.2	-0.23	-0.66	3.38
<b>06</b>	<b>Health</b>	<b>112</b>	103.3	101.4	101.5	101.3	101.1	-0.21	-0.27	-2.08
<b>07</b>	<b>Transport</b>	<b>426</b>	97.8	98.0	98.2	100.2	100.1	-0.15	2.11	2.31
<b>08</b>	<b>Communication</b>	<b>51</b>	95.5	94.5	94.7	94.6	94.4	-0.21	-0.05	-1.08
<b>09</b>	<b>Recreation and culture</b>	<b>112</b>	104.9	100.8	100.3	99.5	99.4	-0.09	-1.33	-5.18
<b>10</b>	<b>Education</b>	<b>137</b>	100.1	108.5	108.5	108.5	108.5	0.00	0.00	8.47
<b>11</b>	<b>Restaurants and hotels</b>	<b>222</b>	100.6	105.5	106.3	105.5	105.6	0.04	0.08	4.95
<b>12</b>	<b>Miscellaneous goods and services</b>	<b>230</b>	100.7	96.4	96.5	97.1	97.1	0.02	0.74	-3.60

## ALL RWANDA CONSUMER PRICE INDEX:

February 2009=100

Divisions ❖ Groups	Weights	Indices for the following months:					Changes in % over		
		July 09	April 10	May 10	June 10	July 10	1 month	3 months	12 months
<b>GENERAL INDEX</b>	<b>10000</b>	103.1	102.9	102.9	102.1	100.8	<b>-1.20</b>	-1.98	-2.22
<b>01 Food and non-alcoholic beverages</b>	<b>5422</b>	105.2	104.3	103.9	102.2	99.4	<b>-2.75</b>	-4.74	-5.51
0111 ❖ Bread and cereals	<b>1044</b>	95.6	94.4	92.6	89.0	81.9	<b>-7.96</b>	-13.17	-14.32
0112 ❖ Meat	<b>205</b>	97.8	94.4	94.6	95.1	97.0	<b>1.96</b>	2.72	-0.87
0113 ❖ Fish	<b>76</b>	102.3	107.5	107.3	110.3	114.7	<b>3.94</b>	6.65	12.05
0117 ❖ Vegetables	<b>2531</b>	115.9	115.1	116.1	114.3	114.6	0.20	-0.43	-1.12
<b>012 ❖ Non-alcoholic beverages</b>	<b>184</b>	95.4	92.0	91.5	91.3	91.3	-0.10	-0.77	-4.34
<b>02 Alcoholic beverages and tobacco</b>	<b>362</b>	96.3	105.5	105.4	102.5	101.6	-0.83	-3.69	5.50
<b>03 Clothing and footwear</b>	<b>358</b>	98.4	103.4	103.5	103.1	103.4	0.32	0.00	5.14
<b>04 Housing, water, electricity, gas and other fuels</b>	<b>1589</b>	101.8	97.1	98.0	99.3	101.3	<b>2.05</b>	4.35	-0.53
<b>05 Furnishing, household equipment and routine household maintenance</b>	<b>338</b>	100.3	102.0	101.9	101.6	101.1	-0.54	-0.89	0.75
<b>06 Health</b>	<b>130</b>	101.8	102.0	101.8	101.8	101.1	-0.66	-0.86	-0.72
<b>07 Transport</b>	<b>685</b>	103.2	106.1	106.8	107.6	107.6	-0.02	1.33	4.26
<b>08 Communication</b>	<b>131</b>	97.0	98.4	98.2	98.6	98.6	0.05	0.25	1.72
<b>09 Recreation and culture</b>	<b>161</b>	102.0	101.4	101.2	100.4	100.1	-0.38	-1.28	-1.90
<b>10 Education</b>	<b>203</b>	100.0	107.0	107.0	107.4	107.4	0.00	0.34	7.34
<b>11 Restaurants and hotels</b>	<b>336</b>	100.3	103.5	104.8	104.4	104.6	0.20	1.11	4.28
<b>12 Miscellaneous goods and services</b>	<b>288</b>	98.4	96.1	96.2	96.6	97.2	0.58	1.19	-1.22

## METHODOLOGICAL NOTICE

The Consumer Price Index (CPI) is a measure of the average change over time of goods and services purchased by households. The CPI uses a Modified Laspeyres formula to calculate the index. The reference population for the CPI consists of all households, urban and rural, living in Rwanda.

The household basket includes 1,136 products observed in many places spread all over the administrative centers of all provinces in Rwanda. All kinds of places of observation are selected: shops, markets, services etc. More than 29,200 prices are collected every month by enumerators of the National Institute of Statistics of Rwanda and of the National Bank of Rwanda.

The index reference, or base, for the CPI is February 2009.

The weights used for the index are the result of the Household Living Conditions Survey (EICV II) conducted in 2005-2006 with a sample of 6,900 households.

## How to Interpret the CPI

Movements of the indexes from one month to another usually are expressed as percent changes rather than changes in index points. The level of the index (relative to its base period) affects index point changes, but it does not affect percent changes. The following example illustrates how to calculate percent changes:

### *Index point change*

CPI	178
Less CPI for previous period	<u>176</u>
Equals index point change	2

### *Percent change*

Index point difference	2
Divided by the previous index	176
Equals	0.011
Results multiplied by 100	0.011 x 100
Equals percent change	1.1

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