



REPUBLIC OF RWANDA



# CONSUMER PRICE INDEX (CPI)

## JULY 2022

10 August 2022

## 1. Summary

This is the monthly publication of the Consumer Price Index (CPI) for the month of July 2022. Urban CPI will be the focus of this publication as it is the headline index for monetary policy purposes.

### 1.1. Urban Index

Urban CPI increased by 15.6 percent on annual basis (July 2022 and July 2021) and increased by 1.7 percent on monthly basis (July 2022 to June 2022). The annual average inflation rate between July 2022 and July 2021 was 5.9 percent.

### 1.2. Rural Index

Rural CPI increased by 22.5 percent on annual basis and increased by 3.5 percent on monthly basis.

### 1.3. Overall Rwanda Index

Rwanda CPI increased by 19.6 percent on annual basis and increased by 2.7 percent on monthly basis.

	2021						2022						
	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.
Urban CPI Annual change	-0.4	-0.6	-0.9	0.6	1.0	1.9	4.3	5.8	7.5	9.9	12.6	13.7	15.6
Rural CPI Annual change	-1.7	-2.8	-4.8	-6.0	-6.4	-4.7	-0.8	3.1	4.3	11.0	16.4	17.9	22.5
Rwanda CPI Annual change	-1.1	-1.8	-3.2	-3.3	-3.4	-2.0	1.3	4.2	5.6	10.5	14.8	16.1	19.6
Urban CPI Monthly change	0.0	0.3	0.6	0.6	-0.5	0.0	2.1	1.8	3.1	2.4	1.9	0.8	1.7
Rural CPI Monthly change	-0.4	0.6	-0.1	-0.7	-1.1	0.1	2.9	4.5	2.6	4.7	2.3	1.5	3.5
Rwanda CPI Monthly change	-0.3	0.5	0.2	-0.1	-0.9	0.1	2.5	3.3	2.8	3.7	2.1	1.2	2.7

Source: NISR

## 2. Urban Consumer Price Index

The urban CPI is calculated based on approximately 1,622 products in twelve urban centres of Rwanda. The table below shows monthly and annual changes in July 2022 for the main categories of the urban index.

**TABLE 2: Consumer Price Index, Urban summary**

Code	Categories	Weights	Percentage change in Jul. 2022	
			on Jun. 2022	on Jul. 2021
	<b>GENERAL INDEX</b>	<b>100%</b>	<b>1.7%</b>	<b>15.6%</b>
01	Food and non-alcoholic beverages	27%	2.9%	28.6%
01.1.1	Bread and cereals	5%	2.4%	26.3%
01.1.2	Meat	2%	1.4%	18.0%
01.1.4	Milk cheese and eggs	1%	1.3%	11.2%
01.1.7	Vegetables	9%	7.1%	34.4%
01.2	Non-alcoholic beverages	1%	5.5%	10.4%
02	Alcoholic beverages tobacco and narcotics	5%	4.9%	10.6%
03	Clothing and footwear	5%	1.0%	9.7%
04	Housing water, electricity, gas and other fuels	21%	-0.6%	7.5%
05	Furnishings household equipment and routine household maintenance	4%	3.9%	16.0%
06	Health	1%	0.0%	1.2%
07	Transport	12%	0.7%	12.4%
08	Communication	3%	0.0%	2.2%
09	Recreation and culture	3%	0.0%	8.4%
10	Education	3%	0.0%	7.6%
11	Restaurants and hotels	9%	2.6%	17.2%
12	Miscellaneous goods and services	6%	0.8%	7.6%

Source: NISR

Urban CPI increased by 15.6 percent in July 2022 compared to the same month of 2021. 'Food and non-alcoholic beverages' increased by 28.6 percent, 'Housing water, electricity, gas and other fuels' increased by 7.5 percent, Transport increased by 12.4 percent and Restaurants and Hotels increased by 17.2 percent.

The CPI for July 2022 increased by 1.7 percent compared to June 2022. 'Food and non-alcoholic beverages' increased by 2.9 percent.

The underlying inflation rate (excluding fresh food and energy) increased by 12.5 percent when compared to July 2021 and increased by 1.2 percent when compared to June 2022 (See Table 4).

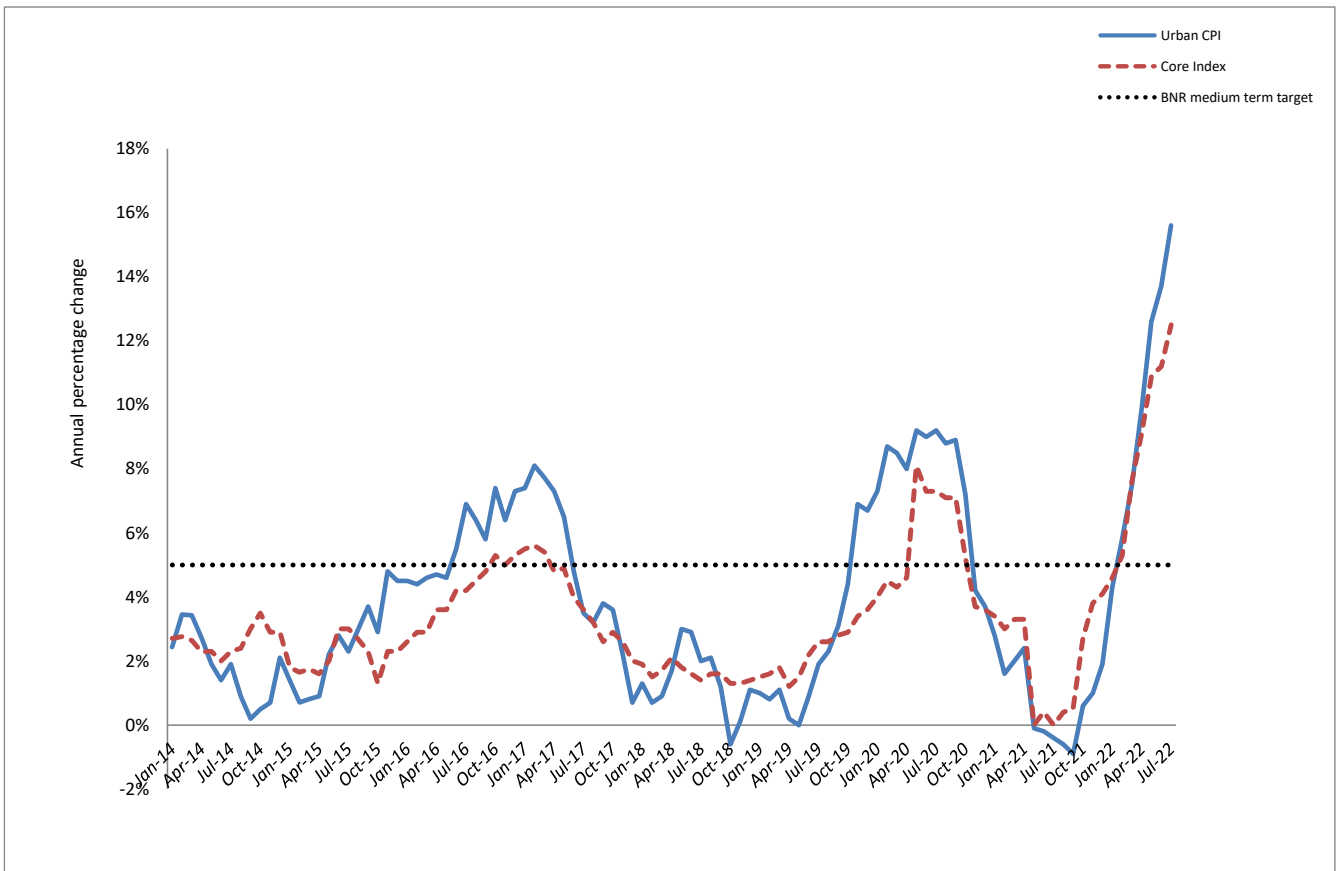
The annual average inflation rate between July 2022 and July 2021 is 5.9 percent. The annual average underlying inflation rate is 6.1 percent.

**TABLE 3: Consumer Price Index (Urban only): Core and General, annual percentage change (evolution over 12 months)**  
*percentage change on the same period 12 months earlier:*

	2021						2022						
	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.
General index	3.3	2.6	1.8	1.2	1.0	0.8	0.9	1.3	1.8	2.4	3.5	4.6	5.9
Core / Underlying index	3.3	2.7	2.2	2.0	2.0	2.0	2.1	2.3	2.7	3.2	4.1	5.0	6.1

Source: NISR

**Figure 1: Annual changes in urban CPI (January 2014 – July 2022)**



### 3. Other selected urban indices

This section highlights five selected urban indices: the local goods index, the imported goods index, the fresh products index, the energy index and the core index.

On annual basis, the local goods index increased by 14.6 percent, the imported goods index increased by 18.7 percent, the fresh products index increased by 27.5 percent, the energy index increased by 17.8 percent and the core index or the general index excluding fresh products and energy increased by 12.5 percent.

On monthly basis, the local goods index increased by 1.7 percent, the imported goods index increased by 1.6 percent, the fresh products index increased by 4.4 percent, the energy index decreased by 1.2 percent and the core index increased by 1.2 percent.

<b>TABLE 4: Consumer Price Index (Urban only), Core &amp; other</b>			
<b>Categories</b>	<b>Weights</b>	<b>Percentage change in Jul. 2022</b>	
		<b>on Jun. 2022</b>	<b>on Jul. 2021</b>
<b>GENERAL INDEX</b>	<b>100%</b>	<b>1.7%</b>	<b>15.6%</b>
<b>Local Goods Index</b>	<b>77%</b>	<b>1.7%</b>	<b>14.6%</b>
Food and non-alcoholic beverages	21%	3.4%	29.2%
Housing, water, electricity, gas and other fuels	21%	-0.6%	7.5%
Transport	6%	0.1%	4.3%
<b>Imported Goods Index</b>	<b>23%</b>	<b>1.6%</b>	<b>18.7%</b>
Food and non-alcoholic beverages	7%	1.4%	26.9%
Furnishing, household equipment	2%	6.7%	23.2%
Transport	6%	1.2%	19.6%
<b>Fresh Products index<sup>1</sup></b>	<b>16%</b>	<b>4.4%</b>	<b>27.5%</b>
<b>Energy index</b>	<b>7%</b>	<b>-1.2%</b>	<b>17.8%</b>
<b>General Index excluding fresh Products and</b>	<b>77%</b>	<b>1.2%</b>	<b>12.5%</b>
<i>Source: NISR</i>			
(1) Fresh products are food products which have seasonal fluctuations			
(2) Proxy for underlying inflation			

#### 4. 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 in Rwanda.

The household basket includes 1,622 products sold in many places spread all over the country. A variety of places of observation are selected: shops, markets, hospitals, schools etc. More than 29,482 prices in urban areas and 10,744 in rural areas are collected every month.

Weights used for the index are from the Household Living Conditions Survey (EICV4) results conducted in 2013-2014 with a sample of 14,419 households.

Each month, NISR publishes the All Rwanda index, All Urban index and All Rural index. The Urban CPI is considered as the headline index for monetary policy purposes. In addition, select detailed item indices are published for items judged to be important or experiencing extreme price movement.

## 4.1 Main terms used in Rwandan CPI

**General index:** The highest level of aggregation of a CPI which covers all the items within the scope of the CPI

**Core (underlying) inflation:** A type of CPI which shows the underlying trend in inflation by excluding those movements which arise from transient factors such as seasonality or other short term price volatility

**Index reference period (Feb 2014=100):** The period with which all other periods are compared (the period for which the value of the CPI is set at 100).

**Monthly inflation:** Compare the current index number compared with the index number of the previous month

**Annual inflation:** Compare the index number for a particular month with the index number for the same month of the previous year

**Annual average inflation:** Compare the average of all the monthly indices in a particular year with the corresponding average for the previous year. Any twelve-month average (eg. from July 2016 to June 2017) may be compared with the twelve-month average (also from July 2015 to June 2016) in order to calculate June 2017 inflation rate.

## 4. 2. How to Interpret CPI

Movements of the indices from one month to another usually are expressed as percentage 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 percentage 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

## 6. Annexes: Reference Tables

Annex 1: Consumer Price Index, Urban									
Code	Categories	Weights	Index (Feb 2014=100)			Percentage change in Jul. 2022		Contributions <sup>1</sup> :	
			Jul-21	Jun-22	Jul-22	on Jun. 2022	on Jul. 2021	1 month	12 months
00	<b>GENERAL INDEX</b>	100%	128.4	146.0	148.4	<b>1.7%</b>	<b>15.6%</b>	<b>1.7%</b>	<b>15.6%</b>
01	Food and non-alcoholic beverages	27%	140.3	175.3	180.4	2.9%	28.6%	1.0	8.6
01.1.1	Bread and cereals	5%	129.6	159.9	163.7	2.4%	26.3%	0.1	1.4
01.1.2	Meat	2%	155.9	181.4	183.9	1.4%	18.0%	0.0	0.4
01.1.4	Milk cheese and eggs	1%	122.4	134.4	136.1	1.3%	11.2%	0.0	0.1
01.1.7	Vegetables	9%	149.6	187.7	201.0	7.1%	34.4%	0.8	3.5
01.2	Non-alcoholic beverages	1%	131.1	137.3	144.8	5.5%	10.4%	0.1	0.1
02	Alcoholic beverages tobacco and narcotics	5%	174.8	184.3	193.3	4.9%	10.6%	0.3	0.7
03	Clothing and footwear	5%	129.6	140.6	142.1	1.0%	9.7%	0.1	0.5
04	Housing water, electricity, gas and other fuels	21%	121.4	131.3	130.5	-0.6%	7.5%	-0.1	1.5
05	Furnishings household equipment and routine household maintenance	4%	122.8	137.0	142.4	3.9%	16.0%	0.1	0.6
06	Health	1%	107.8	109.2	109.1	0.0%	1.2%	0.0	0.0
07	Transport	12%	129.6	144.6	145.7	0.7%	12.4%	0.1	1.6
08	Communication	3%	105.8	108.1	108.1	0.0%	2.2%	0.0	0.1
09	Recreation and culture	3%	128.0	138.9	138.8	0.0%	8.4%	0.0	0.3
10	Education	3%	121.3	130.5	130.5	0.0%	7.6%	0.0	0.2
11	Restaurants and hotels	9%	108.8	124.4	127.6	2.6%	17.2%	0.2	1.3
12	Miscellaneous goods and services	6%	116.6	124.5	125.5	0.8%	7.6%	0.0	0.4

Source: NISR

(1) "Contributions" take into account both the growth rate and the relative weight of each category to explain the percentage change observed.

## Annex 2: Consumer Price Index, Rural

Code	Categories	Weights	Index (Feb 2014=100)			Percentage change in Jul. 2022		Contributions <sup>1</sup> :	
			Jul-21	Jun-22	Jul-22	on Jun. 2022	on Jul. 2021	1 month	12 months
00	<b>GENERAL INDEX</b>	100%	139.3	165.0	170.7	<b>3.5%</b>	<b>22.5%</b>	<b>3.5%</b>	<b>22.5%</b>
01	Food and non-alcoholic beverages	48%	143.0	180.8	192.4	6.4%	34.5%	3.4	17.0
01.1.1	Bread and cereals	8%	139.4	190.2	197.4	3.8%	41.6%	0.3	3.2
01.1.2	Meat	2%	169.4	198.9	199.0	0.1%	17.5%	0.0	0.3
01.1.4	Milk cheese and eggs	1%	133.3	157.2	165.9	5.5%	24.4%	0.1	0.2
01.1.7	Vegetables	26%	144.6	178.9	198.3	10.8%	37.2%	3.0	10.0
01.2	Non-alcoholic beverages	1%	122.3	140.8	152.6	8.4%	24.7%	0.1	0.2
02	Alcoholic beverages tobacco and narcotics	8%	150.9	162.8	166.0	2.0%	10.0%	0.2	0.9
03	Clothing and footwear	5%	135.8	144.9	145.5	0.4%	7.1%	0.0	0.4
04	Housing water, electricity, gas and other fuels	16%	135.8	154.5	151.3	-2.1%	11.4%	-0.3	1.8
05	Furnishings household equipment and routine household maintenance	3%	123.6	154.9	157.1	1.4%	27.1%	0.0	0.8
06	Health	1%	107.2	110.6	110.0	-0.5%	2.7%	0.0	0.0
07	Transport	4%	108.3	109.6	109.6	0.0%	1.2%	0.0	0.0
08	Communication	2%	100.0	100.1	100.1	0.0%	0.1%	0.0	0.0
09	Recreation and culture	1%	128.6	147.0	145.9	-0.7%	13.5%	0.0	0.2
10	Education	1%	176.4	186.3	186.3	0.0%	5.6%	0.0	0.1
11	Restaurants and hotels	5%	125.4	141.4	150.0	6.1%	19.6%	0.2	0.8
12	Miscellaneous goods and services	4%	117.7	130.1	130.6	0.4%	11.0%	0.0	0.4

Source: NISR

(1) "Contributions" take into account both the growth rate and the relative weight of each category to explain the percentage change observed.



### Annex 3: Consumer Price Index, All Rwanda

Code	Categories	Weights	Index (Feb 2014=100)			Percentage change in Jul. 2022		Contributions <sup>1</sup> :	
			Jul-21	Jun-22	Jul-22	on Jun. 2022	on Jul. 2021	1 month	12 months
00	<b>GENERAL INDEX</b>	100%	135.6	157.9	162.2	<b>2.7%</b>	<b>19.6%</b>	<b>2.7%</b>	<b>19.6%</b>
01	Food and non-alcoholic beverages	39%	143.3	180.5	190.1	5.3%	32.7%	2.4	13.5
01.1.1	Bread and cereals	7%	137.4	181.2	187.3	3.3%	36.3%	0.3	2.4
01.1.2	Meat	2%	163.2	190.8	192.2	0.7%	17.7%	0.0	0.4
01.1.4	Milk cheese and eggs	1%	127.3	145.0	150.1	3.5%	17.9%	0.0	0.2
01.1.7	Vegetables	18%	145.9	181.1	199.2	10.0%	36.6%	2.1	7.2
01.2	Non-alcoholic beverages	1%	126.3	138.7	148.3	6.9%	17.4%	0.1	0.2
02	Alcoholic beverages tobacco and narcotics	7%	157.9	169.1	174.0	2.9%	10.2%	0.2	0.8
03	Clothing and footwear	5%	133.0	143.0	143.9	0.7%	8.2%	0.0	0.4
04	Housing water, electricity, gas and other fuels	18%	127.8	142.1	140.1	-1.4%	9.6%	-0.2	1.7
05	Furnishings household equipment and routine household maintenance	3%	123.0	146.2	149.9	2.5%	21.9%	0.1	0.7
06	Health	1%	107.5	109.9	109.6	-0.3%	2.0%	0.0	0.0
07	Transport	8%	122.6	133.5	134.2	0.6%	9.5%	0.0	0.7
08	Communication	2%	102.5	103.8	103.8	0.0%	1.3%	0.0	0.0
09	Recreation and culture	2%	128.0	141.9	141.4	-0.3%	10.5%	0.0	0.2
10	Education	2%	147.3	157.1	157.1	0.0%	6.7%	0.0	0.1
11	Restaurants and hotels	6%	116.3	132.2	137.6	4.1%	18.2%	0.2	1.0
12	Miscellaneous goods and services	5%	116.7	126.6	127.4	0.6%	9.2%	0.0	0.4

Source: NISR

(1) "Contributions" take into account both the growth rate and the relative weight of each category to explain the percentage change observed.

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