



REPUBLIC OF RWANDA



CONSUMER PRICE INDEX (CPI)

NOVEMBER 2018

10 December 2018

1. Summary

This is the monthly publication of the Consumer Price Index (CPI) for the month of November 2018. The Urban CPI will be the focus of the publication as it is the headline index for monetary policy purposes.

1.1. Urban Index

The Urban CPI increased by 0.1 percent on annual basis and decreased by 0.5 percent on monthly basis. The annual average rate between November 2018 and November 2017 was 1.3 percent.

1.2. Rural Index

The Rural CPI decreased by 1.8 percent on annual basis and decreased by 0.6 percent on monthly basis.

1.3. Overall Rwanda Index

The Rwanda CPI decreased by 1.0 percent on annual basis and decreased by 0.5 percent on monthly basis.

	2017		2018										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
Urban CPI Annual change	2.2	0.7	1.3	0.7	0.9	1.7	3.0	2.9	2.0	2.1	1.2	-0.6	0.1
Rural CPI Annual change	1.0	-1.0	-0.9	-2.7	-2.9	-1.3	0.9	0.4	-0.3	-0.6	-2.7	-5.4	-1.8
Rwanda CPI Annual change	1.6	-0.2	0.1	-1.3	-1.4	-0.1	1.8	1.4	0.6	0.6	-1.1	-3.4	-1.0
Urban CPI Monthly change	-1.2	-1.2	0.2	0.6	0.7	1.3	1.1	-0.9	-1.0	0.4	0.2	-0.6	-0.5
Rural CPI Monthly change	-4.3	-2.5	-0.2	0.5	1.3	2.4	0.8	-1.7	-0.6	0.6	-0.3	-1.4	-0.6
Rwanda CPI Monthly change	-3.0	-1.9	0.0	0.5	1.1	1.9	0.9	-1.4	-0.8	0.5	-0.1	-1.0	-0.5

Source: NISR

2. Urban Consumer Price Index

The Urban Consumer Price Index is calculated based on approximately 1,622 products in twelve urban centres of Rwanda. The table below shows the monthly and annual changes in November 2018 for the main categories of the urban index.

Code	Categories	Weights	Percentage change in Nov. 2018	
			on Oct. 2018	on Nov. 2017
	GENERAL INDEX	100%	-0.5%	0.1%
01	Food and non-alcoholic beverages	27%	-1.9%	-7.7%
01.1.1	Bread and cereals	5%	0.8%	-3.2%
01.1.2	Meat	2%	1.1%	5.9%
01.1.4	Milk cheese and eggs	1%	0.0%	-3.4%
01.1.7	Vegetables	9%	-6.5%	-14.8%
01.2	Non-alcoholic beverages	1%	0.8%	4.3%
02	Alcoholic beverages tobacco and narcotics	5%	0.2%	6.6%
03	Clothing and footwear	5%	0.5%	2.6%
04	Housing water, electricity, gas and other fuels	21%	-1.2%	3.0%
05	Furnishings household equipment and routine household maintenance	4%	0.7%	3.9%
06	Health	1%	0.1%	0.2%
07	Transport	12%	0.9%	9.7%
08	Communication	3%	0.0%	0.1%
09	Recreation and culture	3%	0.0%	-2.7%
10	Education	3%	0.0%	1.3%
11	Restaurants and hotels	9%	0.9%	-0.6%
12	Miscellaneous goods and services	6%	0.2%	3.1%

Source: NISR

The Urban CPI increased by 0.1 percent in November 2018 compared to the same month of 2017. This was mainly due to the increase of 3.0 percent and 9.7 percent in prices of 'Housing water, electricity, gas and other fuels' and Transport respectively.

The monthly change was negative 0.5 percent in November 2018. This is mainly due to 'Food and non-alcoholic beverages' which decreased by 1.9 percent and 'Housing water, electricity, gas and other fuels' by 1.2 percent.

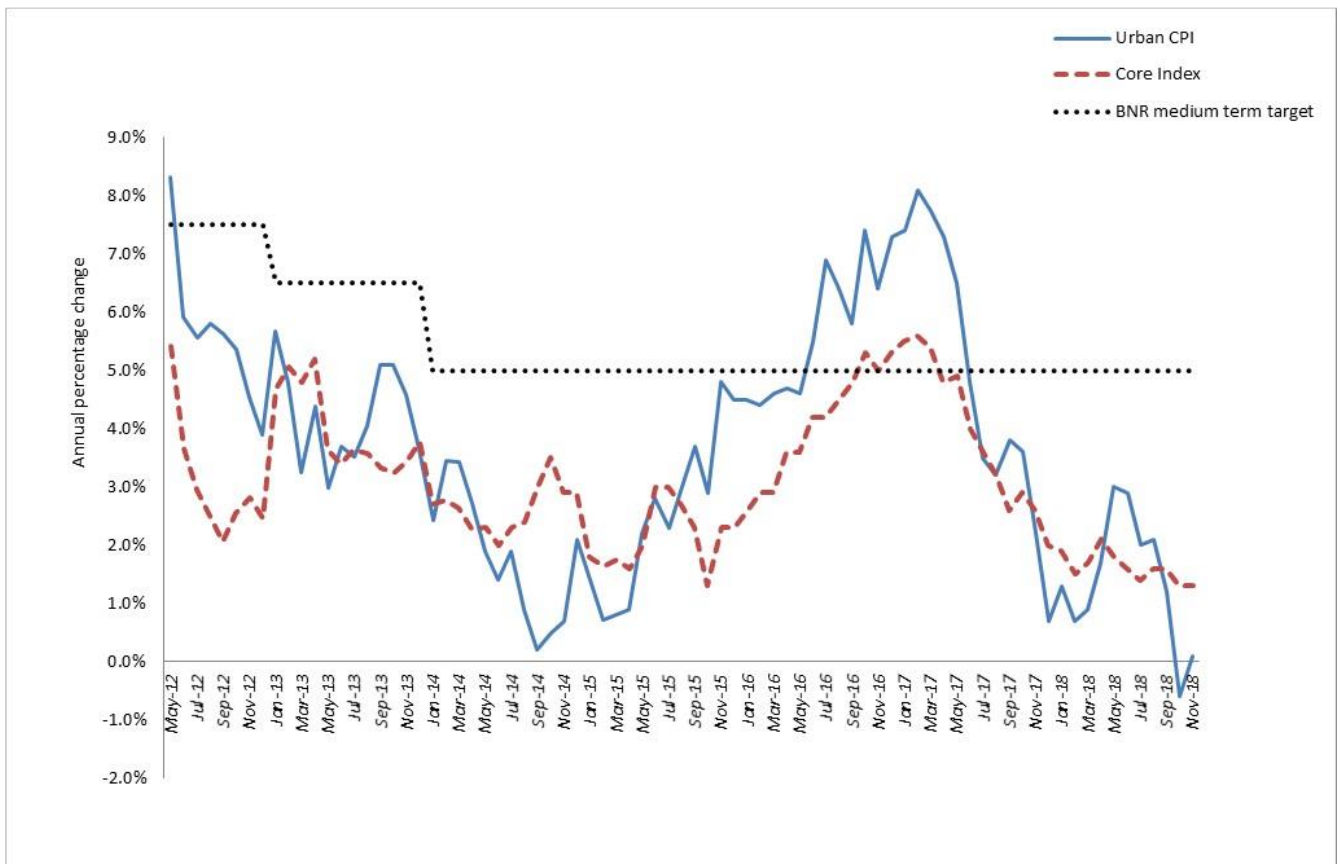
The underlying inflation rate (excluding fresh food and energy) increased by 0.2 percent compared to October 2018 and increased by 1.3 percent when compared to November 2017 (See Table 4).

The annual average inflation rate between November 2018 and November 2017 is 1.3 percent. The annual average underlying inflation rate is 1.6 percent.

	2017		2018										
	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.
General index	5.4	4.8	4.3	3.7	3.2	2.7	2.4	2.3	2.2	2.1	1.9	1.5	1.3
Core / Underlying index	4.2	3.9	3.6	3.3	3.0	2.7	2.5	2.3	2.1	2.0	1.9	1.7	1.6

Source: NISR

Figure 1: Annual changes in urban CPI (May 2012 – November 2018)



3. Other selected urban indices

In this section, we present 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 decreased by 0.9 percent, the imported goods index increased by 3.3 percent, the fresh products index decreased by 8.4 percent, the energy index increased by 8.8 percent and the core index or the general index excluding fresh products and energy increased by 1.3 percent.

On a monthly basis, the local goods index decreased by 0.8 percent; the imported goods index increased by 0.5 percent, the fresh products index decreased by 3.0 percent, the energy index decreased by 2.1 percent and the core index increased by 0.2 percent.

TABLE 4: Consumer Price Index (Urban only), Core & other				
Categories	Weights	Percentage change in Nov. 2018		
		on Oct. 2018	on Nov. 2017	
GENERAL INDEX	100%	-0.5%	0.1%	
Local Goods Index	77%	-0.8%	-0.9%	
Food and non-alcoholic beverages	21%	-2.4%	-10.1%	
Housing, water, electricity, gas and other fuels	21%	-1.2%	3.0%	
Transport	6%	0.5%	11.0%	
Imported Goods Index	23%	0.5%	3.3%	
Food and non-alcoholic beverages	7%	0.0%	0.1%	
Furnishing, household equipment	2%	0.7%	2.3%	
Transport	6%	1.2%	8.5%	
Fresh Products index¹	16%	-3.0%	-8.4%	
Energy index	7%	-2.1%	8.8%	
General Index excluding fresh Products and energy²	77%	0.2%	1.3%	
<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.

The weights used for the index are from the result of the Household Living Conditions Survey (EICV4) 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.

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.

4.1. How to Interpret the 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 Nov. 2018		Contributions ¹ :	
			Nov-17	Oct-18	Nov-18	on Oct. 2018	on Nov. 2017	1 month	12 months
	GENERAL INDEX	100%	115.1	115.8	115.2	-0.5%	0.1%	-0.5%	0.1%
01	Food and non-alcoholic beverages	27%	128.9	121.1	118.9	-1.9%	-7.7%	-0.5	-2.4
01.1.1	Bread and cereals	5%	122.5	117.6	118.6	0.8%	-3.2%	0.0	-0.2
01.1.2	Meat	2%	110.8	116.1	117.3	1.1%	5.9%	0.0	0.1
01.1.4	Milk cheese and eggs	1%	123.0	118.8	118.8	0.0%	-3.4%	0.0	0.0
01.1.7	Vegetables	9%	143.2	130.5	122.0	-6.5%	-14.8%	-0.6	-1.6
01.2	Non-alcoholic beverages	1%	117.8	121.9	122.9	0.8%	4.3%	0.0	0.1
02	Alcoholic beverages tobacco and narcotics	5%	123.7	131.6	131.9	0.2%	6.6%	0.0	0.3
03	Clothing and footwear	5%	112.8	115.1	115.7	0.5%	2.6%	0.0	0.1
04	Housing water, electricity, gas and other fuels	21%	109.7	114.3	113.0	-1.2%	3.0%	-0.2	0.6
05	Furnishings household equipment and routine household maintenance	4%	109.5	113.0	113.7	0.7%	3.9%	0.0	0.1
06	Health	1%	107.3	107.5	107.6	0.1%	0.2%	0.0	0.0
07	Transport	12%	110.9	120.7	121.7	0.9%	9.7%	0.1	1.2
08	Communication	3%	105.8	105.8	105.8	0.0%	0.1%	0.0	0.0
09	Recreation and culture	3%	117.6	114.4	114.4	0.0%	-2.7%	0.0	-0.1
10	Education	3%	102.1	103.4	103.4	0.0%	1.3%	0.0	0.0
11	Restaurants and hotels	9%	105.7	104.1	105.1	0.9%	-0.6%	0.1	0.0
12	Miscellaneous goods and services	6%	108.7	111.8	112.0	0.2%	3.1%	0.0	0.2

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										
<i>Code</i>	Categories	<i>Weights</i>	Index (Feb 2014=100)			Percentage change in Nov. 2018		Contributions¹:		
			Nov-17	Oct-18	Nov-18	on Oct. 2018	on Nov. 2017	1 month	12 months	
	GENERAL INDEX	100%	123.7	122.2	121.6	-0.6%	-1.8%	-0.6%	-1.8%	
01	Food and non-alcoholic beverages	48%	133.2	121.6	120.1	-1.2%	-9.8%	-0.6	-5.1	
01.1.1	Bread and cereals	8%	133.1	118.8	121.0	1.9%	-9.1%	0.1	-0.7	
01.1.2	Meat	2%	115.6	119.6	120.5	0.7%	4.2%	0.0	0.1	
01.1.4	Milk cheese and eggs	1%	109.0	116.6	116.6	0.0%	7.0%	0.0	0.1	
01.1.7	Vegetables	26%	139.2	125.2	121.6	-2.8%	-12.6%	-0.8	-3.7	
01.2	Non-alcoholic beverages	1%	111.0	115.3	115.3	0.0%	3.8%	0.0	0.0	
02	Alcoholic beverages tobacco and narcotics	8%	117.2	118.4	117.8	-0.5%	0.5%	0.0	0.0	
03	Clothing and footwear	5%	111.0	115.1	115.5	0.3%	4.0%	0.0	0.2	
04	Housing water, electricity, gas and other fuels	16%	112.4	129.0	129.1	0.0%	14.8%	0.0	2.2	
05	Furnishings household equipment and routine household maintenance	3%	106.5	107.9	108.5	0.6%	1.9%	0.0	0.1	
06	Health	1%	105.6	105.4	105.4	0.0%	-0.2%	0.0	0.0	
07	Transport	4%	101.9	111.3	111.4	0.1%	9.4%	0.0	0.3	
08	Communication	2%	100.0	100.0	100.0	0.0%	0.0%	0.0	0.0	
09	Recreation and culture	1%	107.5	109.4	109.3	-0.1%	1.7%	0.0	0.0	
10	Education	1%	163.9	170.6	170.6	0.0%	4.1%	0.0	0.1	
11	Restaurants and hotels	5%	112.8	115.9	116.1	0.2%	2.9%	0.0	0.1	
12	Miscellaneous goods and services	4%	102.9	106.1	106.3	0.2%	3.3%	0.0	0.1	

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 Nov. 2018		Contributions ¹ :	
			Nov-17	Oct-18	Nov-18	on Oct. 2018	on Nov. 2017	1 month	12 months
00	GENERAL INDEX	100%	120.9	120.3	119.7	-0.5%	-1.0%	-0.5%	-1.0%
01	Food and non-alcoholic beverages	39%	132.9	122.4	120.7	-1.4%	-9.2%	-0.6	-3.9
01.1.1	Bread and cereals	7%	130.7	119.6	121.4	1.5%	-7.1%	0.1	-0.5
01.1.2	Meat	2%	113.6	118.3	119.3	0.9%	5.0%	0.0	0.1
01.1.4	Milk cheese and eggs	1%	115.9	117.4	117.4	0.0%	1.3%	0.0	0.0
01.1.7	Vegetables	18%	140.3	126.6	122.0	-3.6%	-13.1%	-0.7	-2.8
01.2	Non-alcoholic beverages	1%	114.0	118.2	118.7	0.4%	4.1%	0.0	0.0
02	Alcoholic beverages tobacco and narcotics	7%	119.0	122.2	121.9	-0.3%	2.4%	0.0	0.2
03	Clothing and footwear	5%	111.7	115.0	115.5	0.4%	3.4%	0.0	0.2
04	Housing water, electricity, gas and other fuels	18%	110.2	120.9	120.3	-0.5%	9.1%	-0.1	1.5
05	Furnishings household equipment and routine household maintenance	3%	107.7	110.1	110.8	0.6%	2.8%	0.0	0.1
06	Health	1%	106.4	106.4	106.4	0.0%	0.0%	0.0	0.0
07	Transport	8%	107.7	117.3	118.1	0.7%	9.6%	0.1	0.7
08	Communication	2%	102.4	102.5	102.5	0.0%	0.0%	0.0	0.0
09	Recreation and culture	2%	113.4	112.2	112.2	0.0%	-1.1%	0.0	0.0
10	Education	2%	129.9	133.3	133.3	0.0%	2.7%	0.0	0.1
11	Restaurants and hotels	6%	109.4	109.7	110.3	0.6%	0.9%	0.0	0.1
12	Miscellaneous goods and services	5%	105.6	108.8	109.0	0.2%	3.2%	0.0	0.1

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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