

# **CONSUMER PRICE INDEX**

August 2019

# **INFLATION RISES**

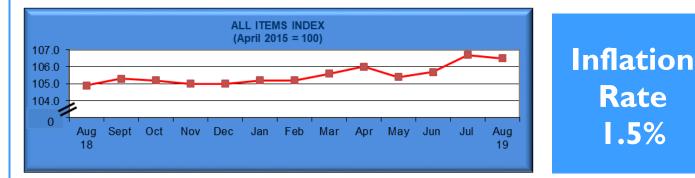
Consumers paid 1.5 per cent more in August 2019 than they did a year ago for the basket of goods and services included in the Consumer Price Index (CPI). The level of inflation rose 0.3 percentage points from July 2019.

Between July 2019 and August 2019, the average cost of goods and services in the CPI decreased 0.2 per cent. The all-items index was 106.5 in August. This means that the basket of goods and services that cost \$100.00 in April 2015 now costs \$106.50.

## YEAR-TO-YEAR ANALYSIS

The Rent sector was the largest contributor to the year-over-year change, increasing 2.0 per cent. The average rental cost for controlled and non-controlled properties were the main contributors to the annual increase.

In addition, the Food and Health & Personal Care sectors contributed to the rise in the annual rate of inflation as price shifts in these sectors were 3.0 per cent and 3.8 per cent, respectively.



The compilation of	SUMMARY STATISTICS							
the CPI involves the		Monthly			Quarterly			
processing of several thousand price	Period	Index	Annual per cent Change	Period	Index	Annual per cent Change		
quotations. The	2018	101.0		2017	100.1	1.0		
Department of	Aug	104.9	+0.9	Q2	103.1	+1.9		
Department of	Sept	105.3	+1.1	Q3	104.0	+1.8		
Statistics wishes to	Oct	105.2	+1.1	Q4	104.1	+1.8		
	Nov	105.0	+0.8					
acknowledge the	Dec	104.9	+0.9	2018				
cooperation of the				Q1	104.1	+1.8		
cooperation of the	2019			Q2	105.0	+1.8		
business community	Jan	105.2	+1.3	Q3	105.2	+1.2		
in supplying the	Feb	105.2	+1.1	Q4	105.0	+0.9		
in supplying the	Mar	105.6	+1.2					
required price data.	Apr	106.0	+1.0	2019				
	May	105.4	+0.3	Q1	105.3	+1.2		
	Jun	105.7	+0.7	Q2	105.7	+0.7		
	Jul	106.7	+1.2					
	Aug	106.5	+1.5					
	,	100.0	0					

# **MONTH-TO-MONTH ANALYSIS**

### Rent

The Rent sector rose 0.2 per cent for the month. The average cost of home maintenance materials increased 1.4 per cent.

# Household Goods, Services & Supplies

The Household Goods, Services & Supplies sector edged up 0.1 per cent. The average cost of cellular phones climbed 11.3 per cent.

# Tobacco & Liquor

The Tobacco & Liquor sector jumped 0.2 per cent for the month. The average cost of spirits and wines increased 0.6 per cent and 0.4 per cent, respectively.

# Health & Personal Care

The Health & Personal Care sector was static for the month.

# **Clothing & Footwear**

Following a 0.2 per cent increase in July, the Clothing & Footwear sector recorded no price movement in August.

## Fuel & Power

The Fuel & Power sector was unchanged for the month.

# Food

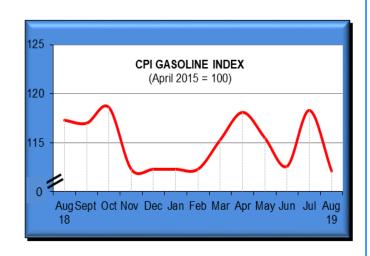
The Food sector fell 0.1 per cent. The main contributors behind the decrease were the average cost of eggs (-1.5 per cent), ice cream (-1.0 per cent) and whipping cream (-0.5 per cent).

# Education, Recreation, Entertainment & Reading

The Education, Recreation, Entertainment & Reading sector dipped 0.3 per cent in August. The average cost of pleasure crafts declined 2.9 per cent.

# **Transport & Foreign Travel**

The Transport & Foreign Travel sector edged back 1.7 per cent. Price declines were reported in the average cost of premium fuels (-5.3 per cent) and overseas car rentals (-5.4 per cent).



# **COMPUTING PRICE INCREASES**

The Department of Statistics receives calls daily requesting the rate of inflation over specific periods of time. The following calculations are provided to guide users as to how to compute rates of price increases. The monthly index numbers can be obtained from our website <u>www.gov.bm.</u>

## A) Month-to-Month Price Change

The price change between November and October, 2015 is calculated as Follows:

 $=\frac{\text{Nov15 index} - \text{Oct15 index}}{\text{Oct15 index}} \times 100$ 

 $=\frac{100.5-100.6}{100.6}\times100$ 

= -0.1%

#### B) Year-to-Year Price Change

The price change between December 2015 and December, 2014 is calculated as follows:

$$\frac{\text{Dec 15 index} - \text{Dec 14 index}}{\text{Dec 14 index}} \times 100$$

$$=\frac{100.5-98.7}{98.7}\times 100$$

=1.8%

#### C) Particular Period Price Change

The price change between April 2014 and January, 2016 is calculated as follows:

$$=\frac{\text{Jan 16 index - Apr 14 index}}{\text{Apr 14 index}} \times 100$$

$$=\frac{100.3-98.3}{98.3}\times100$$

= 2.0%

#### **APRIL** 2015 = 100

	All Items	Food	Rent	Clothing & Footwear	Tobacco & Liquor	Fuel & Power	Household Goods, Services & Supplies	Transport & Foreign Travel	Education, Recreation, Entertain. & Reading	Health & Personal Care	
2013 WEIGHT	1000	115	267	25	31	39	116	130	147	130	
ANNUAL AVERAGE ( per cent)											
2014 2015 2016 2017 2018	+2.0 +1.5 +1.5 +1.9 +1.4	+3.1 +2.7 +1.9 +2.2 +2.1	+0.8 +0.6 +1.0 +0.1 +0.2	+2.0 +1.3 +0.4 +1.5 +1.5	+2.4 +1.2 +5.1 +7.8 +4.3	-2.4 -8.9 -3.3 +7.8 +5.8	+0.8 +2.1 +1.6 +0.5 -0.2	+1.7 -1.3 -2.2 +3.6 +0.3	+1.9 +0.9 +3.3 +2.0 +2.1	+6.7 +7.8 +4.5 +1.3 +3.1	
MONTHLY ( per cent)											
2017 May Jun Jul Aug Sept Oct Nov Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sept Oct Nov Dec	+0.4 Nii +0.6 +0.1 +0.2 -0.1 +0.1 -0.2 +0.3 +0.2 +0.6 +0.2 -0.1 +0.4 -0.5 +0.4 -0.1 -0.2 -0.1	$\begin{array}{c} +1.7 \\ +0.6 \\ +0.2 \\ +0.1 \\ -0.1 \\ +0.1 \\ +0.1 \\ +0.1 \\ -0.7 \\ \end{array}$ $\begin{array}{c} +1.2 \\ -0.7 \\ +0.2 \\ +0.3 \\ +1.0 \\ +0.2 \\ +0.1 \\ -0.3 \\ +0.4 \\ -0.1 \\ +0.3 \end{array}$	Nil +0.1 Nil +0.1 Nil +0.1 Nil Nil Nil Nil Nil Nil Nil Nil Nil +0.4 Nil +0.1 +0.1 +0.1 Nil	Nil Nil +0.2 Nil Nil +0.1 Nil Nil Nil +0.1 Nil +1.5 Nil +2.5 Nil Nil -0.1 Nil Nil Nil	+4.7 Nil +0.7 Nil +0.1 +0.2 +0.1 +0.1 +0.3 Nil -0.2 +0.6 +0.2 +0.8 Nil +0.2 +0.8 Nil +0.2 +0.2 +0.2 +0.2 -0.1 Nil +0.3	+1.8 +3.3 +3.0 Nil +0.2 Nil -2.1 Nil -2.1 Nil -1.5 Nil Nil +3.8 +1.4 +3.9 -1.4 +1.5 Nil -0.6 -1.8	-0.1 +0.2 +0.2 Nil +0.1 Nil Nil Nil -0.1 +0.2 Nil -1.0 Nil Nil -0.1 +0.2 +0.2 -0.1 Nil Nil Nil	Nil -1.2 +2.4 Nil +0.2 -1.4 +1.2 -1.4 -1.9 +2.6 +0.8 +1.4 -1.2 -1.8 +1.5 -2.3 +1.3 -1.0 -1.5 -0.3	+0.1 -0.1 +0.2 +0.8 -0.2 +0.5 +0.1 +0.1 -0.1 +0.4 +0.4 -0.1 -0.1 +0.5 Nil -0.1 Nil	Nii Nii +0.5 Nii +0.5 Nii Nii Nii Nii Nii Nii Nii Nii Nii Ni	
Dec 2019 Jan Feb Mar Apr May Jun Jul Aug	-0.1 +0.2 Nil +0.4 +0.4 -0.6 +0.3 +0.9 -0.2 <b>106.5</b>	+0.3 +1.0 -0.2 -0.1 -0.2 +0.3 +1.0 +0.4 -0.1 <b>110.1</b>	Nil +0.5 +0.5 +0.9 -0.1 -2.0 -0.4 +2.1 +0.2 <b>103.2</b>	Nil +0.4 Nil Nil Nil Nil +0.2 Nil <b>105.7</b>	+0.3 +0.3 +0.2 +0.4 +1.0 +0.8 +1.1 -0.6 +0.2 <b>123.5</b>	-1.8 Nil Nil Nil +1.0 +0.8 Nil Nil <b>113.3</b>	Nil +0.1 +0.1 Nil -0.2 Nil Nil +0.1 <b>102.9</b>	-0.3 -0.7 -0.9 +2.1 +0.4 -1.6 +0.7 +2.7 -1.7 <b>99.7</b>	Nil +0.1 Nil -0.4 +0.1 +0.1 -0.2 +0.2 -0.3	Nil Nil -0.1 +2.3 Nil +1.4 +0.1 Nil <b>112.4</b>	
<u>Aug '19</u> Aug '18	+1.5	+3.0	+2.0	+0.6	+4.0	+0.9	+0.2	-0.8	-0.1	+3.8	

# WHAT IS THE CONSUMER PRICE INDEX?

The Consumer Price Index (CPI) is a statistical tool used for measuring changes in the general level of prices of consumer goods and services purchased by private households.

The index measures price movements of a given quality and quantity of goods and services. The mix of these consumer goods and services comprising the index, are figuratively thought of as a "shopping basket." In constructing this "shopping basket", the selected goods and services are organized first by commodity type. They are then divided into subcomponents and assigned to a major expenditure group. The Bermuda CPI is structured into nine expenditure groups or sectors:

- Food
- Rent
- Clothing & Footwear
- Tobacco & Liquor
- Fuel & Power
- Transport & Foreign Travel
- Household Goods, Services & Supplies
- Education, Recreation, Entertainment & Reading
- Health & Personal Care

# **CONCEPTS AND DEFINITIONS**

#### **Base Period**

The time period which is used as a reference point for measuring the price change of goods and services. The base period for the Bermuda CPI is April 2015.

#### **Price Index Number**

A single figure that shows how a set of prices has changed over a specified period of time. An index number on its own means nothing. It must be compared with an index number from another period to have meaning. For example, a comparison of the index number 97.2 for January 2014 with 100.4 for January 2016, reveals that prices have increased by 3.3 percent.

## **Laspeyres Equation**

The CPI is computed using this statistical equation. This formula calculates the total amount of money a household needs today to purchase the same basket of goods and services that it bought in the base period, April 2015.

# WEIGHTED AVERAGE

A mathematical formula that takes into account the relative importance of an item's price change compared to the overall change in the sector or CPI.

## Inflation

Inflation is the process of rising prices, resulting in diminishing purchasing power of a given sum of money.

### **Cost of Living Index**

Many individuals refer to the CPI as a cost-of-living index. The CPI is an index of pure price change only. A cost-of-living index reflects the changes in buying or consumption patterns that consumers would ordinarily make to adjust to any change in the price of a good or service.

## A COMPARISON OF RATES OF INFLATION (%) Selected Countries & Bermuda

	2015	2016	2017	2018	Aug 19
Bermuda	1.5	1.5	1.9	1.4	+1.5
United States <sup>1</sup>	0.1	1.3	2.1	2.4	+1.7
Canada <sup>2</sup>	1.1	1.4	1.6	2.3	+1.9
United Kingdom <sup>3</sup>	1.0	1.8	3.6	3.3	+2.6

#### Sources:

1. US Bureau of Labour Statistics

2. Statistics Canada

3. UK Office of National Statistics

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