

CONSUMER PRICE INDEX

June 2020

INFLATION FLATTENS

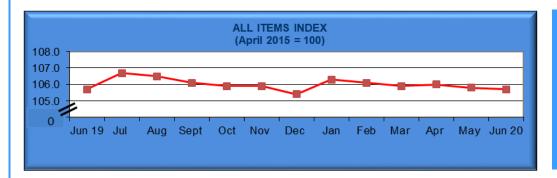
Consumers paid the same as they did a year ago for the basket of goods and services included in the Consumer Price Index (CPI). June 2020 marks the second year-over-year period of no inflation for 2020.

Between May and June 2020, the average cost of goods and services in the CPI declined 0.1 per cent. The all-items index decreased from 105.8 to 105.7 in June. This means that the basket of goods and services that cost \$100.00 in April 2015 now costs \$105.70.

YEAR-TO-YEAR ANALYSIS

The Rent sector (-0.9 per cent), the Transport & Foreign Travel sector (-4.4 per cent) and the Fuel & Power sector (-2.4 per cent) impacted strongly on the annual rate of inflation.

Offsetting increases in the CPI were registered in the Food sector (+3.0 per cent) and the Health & Personal Care sector (+1.8 per cent). The annual increase in health and personal care services stood at its lowest level since March 2018.



Annual Inflation Rate 0.0%

The compilation of the CPI involves the processing of several thousand price quotations. The **Department** Statistics wishes to acknowledge the cooperation of the business community supplying the in required price data.

SUMMARY STATISTICS								
	Мо	nthly			Quarterly			
Period	Index	Annual per cent Change		Period	Index	Annual per cent Change		
2019				2018				
Jun	105.7	+0.7		Q1	104.1	+1.8		
Jul	106.7	+1.2		Q2	105.0	+1.8		
Aug	106.5	+1.5		Q3	105.2	+1.2		
Sept	106.1	+0.8		Q4	105.0	+0.9		
Oct	105.9	+0.7						
Nov	105.9	+0.9		2019				
Dec	105.4	+0.5		Q1	105.3	+1.2		
				Q2	105.7	+0.7		
2020				Q3	106.4	+1.1		
Jan	106.3	+1.0		Q4	105.7	+0.7		
Feb	106.1	+0.9						
Mar	105.9	+0.3		2020				
Apr	106.0	+0.0		Q1	106.1	+0.8		
May	105.8	+0.4		Q2	105.8	+0.1		
June	105.7	+0.0						

MONTH-TO-MONTH ANALYSIS

Food

The Food sector edged up 0.2 per cent in June. Price changes occurred for local carrots (+11.0 per cent), cantaloupes (+8.4 per cent) and whipping cream (+1.8 per cent). In addition, the average cost of restaurant dinning moved up 2.8 per cent.

Education, Recreation, Entertainment & Reading

The Education, Recreation, Entertainment & Reading sector rose 0.1 per cent. The average cost of pet foods was up 2.2 per cent.

Tobacco & Liquor

Following the 0.5 per cent decrease in May, the Tobacco & Liquor sector advanced 0.1 per cent in June. Fueling the increase were the average price of beers (+0.3 per cent) and spirits (+0.9 per cent).

Health & Personal Care

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

Clothing & Footwear

No price movement were reported in the Clothing & Footwear sector for the month.

Fuel & Power

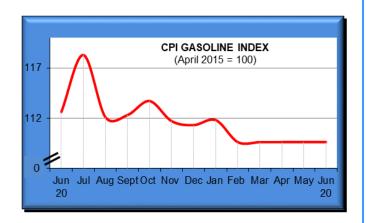
The Fuel & Power sector was unchanged.

Household Goods, Services & Supplies

The Household Goods, Services & Supplies sector was static for the month.

Transport & Foreign Travel

The Transport & Foreign Travel sector dipped 0.4 per cent for the month. The average price of overseas hotel accommodations fell 7.4 per cent. In contrast, the average price of overseas car rentals increased 3.2 per cent.



Rent

The Rent sector was down 0.5 per cent as the average cost of properties not subject to rent control slid 1.2 per cent in June.

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: https://www.gov.bm/department/statistics.

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:

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

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

$$=1.8\%$$

C) Particular Period Price Change

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

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

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

$$=2.0\%$$

BERMUDA CONSUMER PRICE INDEX

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)				
2015	+1.5	+2.7	+0.6	+1.3	+1.2	-8.9	+2.1	-1.3	+0.9	+7.8
2016	+1.5	+1.9	+1.0	+0.4	+5.1	-3.3	+1.6	-2.2	+3.3	+4.5
2017	+1.9	+2.2	+0.1	+1.5	+7.8	+7.8	+0.5	+3.6	+2.0	+1.3
2018	+1.4	+2.1	+0.2	+1.5	+4.3	+5.8	-0.2	+0.3	+2.1	+3.1
2019	+1.0	+2.7	+0.9	+1.9	+3.8	+1.1	Nil	-3.0	+0.4	+3.4
				МОМ	ITHLY (per	cent)				
2018	_				_	_			_	
May	+0.2	+1.0	Nil	Nil	+0.2	+3.8	Nil	-1.2	+0.4	Nil
Jun Jul	-0.1 +0.4	+0.2 +0.1	Nil Nil	Nil +2.5	+0.8 Nil	+1.4 +3.9	Nil -0.1	-1.8 +1.5	-0.1 -0.1	Nil Nil
Aug	-0.5	-0.3	-0.4	۲۷.5 Nil	+0.2	-1.4	+0.2	-2.3	-0.1	Nil
Sept	+0.4	+0.3	Nil	Nil	+0.2	+1.5	+0.2	+1.3	+0.5	Nil
Oct	-0.1	+0.4	+0.1	-0.1	-0.1	Nil	-0.1	-1.0	Nil	Nil
Nov	-0.2	-0.1	+0.1	Nil	Nil	-0.6	Nil	-1.5	-0.1	Nil
Dec	-0.1	+0.3	Nil	Nil	+0.3	-1.8	Nil	-0.3	Nil	Nil
2019										
Jan	+0.2	+1.0	+0.5	+0.4	+0.3	Nil	+0.1	-0.7	+0.1	Nil
Feb Mar	Nil +0.4	-0.2 -0.1	+0.5 +0.9	Nil Nil	+0.2 +0.4	Nil Nil	+0.1 Nil	-0.9 +2.1	Nil -0.4	Nil -0.1
Apr	+0.4	-0.2	-0.1	Nil	+1.0	Nil	Nil	+0.4	+0.1	+2.3
May	-0.6	+0.3	-2.0	Nil	+0.8	+1.0	-0.2	-1.6	+0.1	Nil
Jun	+0.3	+1.0	-0.4	Nil	+1.1	+0.8	Nil	+0.7	-0.2	+1.4
Jul	+0.9	+0.4	+2.1	+0.2	-0.6	Nil	Nil	+2.7	+0.2	+0.1
Aug	-0.2	-0.1	+0.2	Nil	+0.2	Nil	+0.1	-1.7	-0.3	Nil
Sept Oct	-0.4 -0.2	+0.2 -0.1	-0.2 -0.9	Nil +0.5	+1.1 -0.3	Nil -4.2	Nil +0.1	-3.0 +0.8	+0.4 +0.1	Nil +0.4
Nov	-0.2 Nil	+0.5	-0.9	+0.5 Nil	-0.3 -0.7	-4.2 -2.7	Nil	+0.8	+0.1 Nil	+0.4 Nil
Dec	-0.5	-0.1	Nil	Nil	+0.2	-1.5	-0.4	-2.8	Nil	Nil
2020										
Jan	+0.9	+0.8	+0.9	Nil	-0.4	Nil	+0.3	+2.2	+0.1	Nil
Feb	-0.2	Nil	-0.5	Nil	+0.8	Nil	+0.1	-0.7	Nil	Nil
Mar	-0.2	-0.3 +0.8	-0.4 -0.3	Nil +0.5	+0.6 +0.8	Nil	Nil	-0.6 -1.7	-0.1	Nil .1.2
Apr May	+0.1 -0.2	+0.8 +0.7	-0.3 -0.9	+0.5 Nil	+0.8 -0.5	Nil Nil	+0.1 Nil	+0.1	+0.1 Nil	+1.2 Nil
Jun	-0.1	+0.2	-0.5	Nil	+0.1	Nil	Nil	-0.4	+0.1	Nil
Jun '20	105.7	113.0	100.0	106.7	125.6	110.6	103.0	94.4	108.9	114.3
<u>Jun '20</u> Jun '19	+0.0	+3.0	-0.9	+1.2	+1.3	-2.4	+0.1	-4.4	+0.7	+1.8

TECHNICAL NOTE

Readers should note that some price data used to produce the CPI index was not collected in June 2020 due to some unavailable goods and services, non-response from open stores and the temporary store closures caused by the Coronavirus (COVID-19) pandemic (Table 1). As a result of COVID-19, in-person field collection was suspended and, where possible, prices were collected via alternative methods such as online and email.

One of the nine sectors in June 2020 had missing prices which were imputed, Transport & Foreign Travel. Table 2 provides June 2020, May 2020 and June 2019 outlets and price collection methods metadata for comparison. All missing prices were imputed by targeted mean imputation and the carry forward method.

TABLE 1. PRICES METADATA TABLE - JUNE 2020, MAY 2020 & JUNE 2019

Indicators	June 2020	May 2020	June 2019						
Number									
Total	2,695	2,643	2,695						
Number of Prices Collected	2,440	2,595	2,695						
Number of Prices Missing and Imputed	255	48	0						
Percentage Distribution									
Total	100	100	100						
Number of Prices Collected	91	98	100						
Number of Prices Missing and Imputed	9	2	0						

TABLE 2. OUTLETS AND PRICE COLLECTION METHODS METADATA - JUNE 2020, MAY 2020 & JUNE 2019

Indicators	June 2020	May 2020	June 2019	June 2020	May 2020	June 2019
		Number		Percenta	ige Distribut	ion
Outlets						
Total	79	76	79	100	100	100
Number of Outlets Available for Pricing	75	72	79	95	95	100
Number of Outlets Temporarily Closed	4	4	0	6	5	0
Price Collection Methods						
Total	79	74	79	100	100	100
Online	45	37	35	57	50	44
e-Mail	15	18	15	19	24	19
Telephone Calls	19	19	19	24	26	24
Facsimile	0	0	0	0	0	0
Personal Visit	0	0	10	0	0	13

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

	2016	2017	2018	2019	Jun 20
Bermuda	+1.5	+1.9	+1.4	+1.0	+0.0
United States ¹	+1.3	+2.1	+2.4	+1.8	+1.0
Canada ²	+1.4	+1.6	+2.3	+1.9	+0.7
United Kingdom ³	+1.8	+3.6	+3.3	+2.6	+1.1

Sources:

- 1. US Bureau of Labour Statistics
- 2. Statistics Canada
- 3. UK Office of National Statistics

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