INFLATION DOWN

Consumers paid 0.5 per cent more in December 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 declined 0.4 percentage points from November 2019.

Between November 2019 and December 2019, the average cost of goods and services in the CPI declined 0.5 per cent. The all-items index stood at 105.4 in December. This means that the basket of goods and services that cost $100.00 in April 2015 now costs $105.40.

YEAR-TO-YEAR ANALYSIS

The Health & Personal Care sector was the largest contributor to the year-over-year change, increasing 4.1 per cent. The average cost of health insurance premiums continues to be the main contributor to the annual increase.

In addition, the Food and Tobacco & Liquor sectors contributed to the rise in the annual rate of inflation as price shifts in these sectors were 2.6 per cent and 3.7 per cent, respectively.

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

Rent
Following the 0.2 per cent decline in November, the Rent sector was static for the month. However, the average cost of properties subject to rent control rose 0.1 per cent.

Education, Recreation, Entertainment & Reading
The Education, Recreation, Entertainment & Reading sector was unchanged for the month.

Tobacco & Liquor
The Tobacco & Liquor sector climbed 0.2 per cent reflecting an increase in the average price of wines, up 0.6 per cent.

Health & Personal Care
Despite the 0.5 per cent increase in the average cost of prescription medicines, the Health & Personal Care sector was unchanged in December.

Clothing & Footwear
The Clothing & Footwear sector was unchanged.

Food
On average, food prices dropped 0.1 per cent in December. Among the main items contributing to the decrease were cookies (-11.3 per cent), flour (-3.4 per cent) and mayonnaise (-3.1 per cent).

Household Goods, Services & Supplies
The Household Goods, Services & Supplies sector dipped 0.4 per cent. The decline was due to a drop in the average rate of long distance telephone calls (-7.0 per cent).

Fuel & Power
The Fuel & Power sector declined 1.5 per cent as the fuel adjustment clause contracted 4.5 per cent in December.

Transport & Foreign Travel
Consumers experienced lower foreign-travel costs in December. The average cost of airfares (-10.7 per cent), overseas hotels (-3.7 per cent) and overseas car rentals (-1.7 per cent) were down. As a result, the Transport & Foreign Travel sector dipped 2.8 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: https://www.gov.bm/department/statistics.

A) Month-to-Month Price Change
The price change between November and October, 2015 is calculated as follows:
\[
\text{Nov 15 index - Oct 15 index} \times \frac{100}{\text{Oct 15 index}}
\]
\[
= \frac{100.5 - 100.6}{100.6} \times 100
\]
\[
= -0.1\%
\]

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:
\[
= \frac{\text{Jan 16 index} - \text{Apr 14 index}}{\text{Apr 14 index}} \times 100
\]
\[
= \frac{100.3 - 98.3}{98.3} \times 100
\]
\[
= 2.0\%
\]
### Bermuda Consumer Price Index

**April 2015 = 100**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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</tr>
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<tbody>
<tr>
<td>All Items</td>
<td>1000</td>
<td>115</td>
<td>267</td>
<td>25</td>
<td>31</td>
<td>39</td>
<td>116</td>
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<tr>
<td>Food</td>
<td>115</td>
<td>+2.7</td>
<td>+0.6</td>
<td>+1.3</td>
<td>+1.2</td>
<td>-8.9</td>
<td>+2.1</td>
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<td>Rent</td>
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<td>+1.3</td>
<td>+1.2</td>
<td>-8.9</td>
<td>+2.1</td>
<td>-1.3</td>
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<tr>
<td>Clothing &amp; Footwear</td>
<td>25</td>
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<td>nil</td>
<td>nil</td>
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<td>nil</td>
</tr>
<tr>
<td>Tobacco &amp; Liquor</td>
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<td>nil</td>
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<td>nil</td>
<td>nil</td>
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<tr>
<td>Fuel &amp; Power</td>
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<td>nil</td>
<td>nil</td>
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<tr>
<td>Household Goods, Services &amp; Supplies</td>
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<td>nil</td>
<td>nil</td>
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<tr>
<td>Transport &amp; Foreign Travel</td>
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<td>nil</td>
<td>nil</td>
<td>nil</td>
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<tr>
<td>Education, Recreation, Entertain. &amp; Reading</td>
<td>130</td>
<td>+1.3</td>
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<td>nil</td>
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<td>nil</td>
</tr>
<tr>
<td>Health &amp; Personal Care</td>
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<td>nil</td>
<td>nil</td>
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<td>nil</td>
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</table>

**Annual Average (per cent)**

<table>
<thead>
<tr>
<th>Year</th>
<th>Food</th>
<th>Rent</th>
<th>Clothing &amp; Footwear</th>
<th>Tobacco &amp; Liquor</th>
<th>Fuel &amp; Power</th>
<th>Household Goods, Services &amp; Supplies</th>
<th>Transport &amp; Foreign Travel</th>
<th>Education, Recreation, Entertain. &amp; Reading</th>
<th>Health &amp; Personal Care</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>+1.5</td>
<td>+2.7</td>
<td>+0.6</td>
<td>+1.3</td>
<td>+1.2</td>
<td>-8.9</td>
<td>+2.1</td>
<td>-1.3</td>
<td>+0.9</td>
</tr>
<tr>
<td>2016</td>
<td>+1.5</td>
<td>+1.9</td>
<td>+1.0</td>
<td>+0.4</td>
<td>+5.1</td>
<td>-3.3</td>
<td>+1.6</td>
<td>-2.2</td>
<td>+3.3</td>
</tr>
<tr>
<td>2017</td>
<td>+1.9</td>
<td>+2.2</td>
<td>+0.1</td>
<td>+1.5</td>
<td>+7.8</td>
<td>+7.8</td>
<td>+0.5</td>
<td>+3.6</td>
<td>+2.0</td>
</tr>
<tr>
<td>2018</td>
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<td>+2.1</td>
<td>+0.2</td>
<td>+1.5</td>
<td>+4.3</td>
<td>+5.8</td>
<td>-0.2</td>
<td>+0.3</td>
<td>+2.1</td>
</tr>
<tr>
<td>2019</td>
<td>+1.0</td>
<td>+2.7</td>
<td>+0.9</td>
<td>+1.9</td>
<td>+3.8</td>
<td>+1.1</td>
<td>Nil</td>
<td>-3.0</td>
<td>+0.4</td>
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</table>

**Monthly (per cent)**

<table>
<thead>
<tr>
<th>Year</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
<th>Sept</th>
<th>Oct</th>
<th>Nov</th>
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</thead>
<tbody>
<tr>
<td>2017</td>
<td>-0.2</td>
<td>+1.2</td>
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<td>nil</td>
<td>nil</td>
<td>nil</td>
<td>nil</td>
<td>nil</td>
<td>nil</td>
<td>nil</td>
<td>nil</td>
<td>nil</td>
</tr>
<tr>
<td>2018</td>
<td>-0.3</td>
<td>+0.7</td>
<td>nil</td>
<td>nil</td>
<td>nil</td>
<td>nil</td>
<td>nil</td>
<td>nil</td>
<td>nil</td>
<td>nil</td>
<td>nil</td>
<td>nil</td>
</tr>
<tr>
<td>2019</td>
<td>-0.2</td>
<td>+0.7</td>
<td>nil</td>
<td>nil</td>
<td>nil</td>
<td>nil</td>
<td>nil</td>
<td>nil</td>
<td>nil</td>
<td>nil</td>
<td>nil</td>
<td>nil</td>
</tr>
</tbody>
</table>

**Dec '19**

<table>
<thead>
<tr>
<th></th>
<th>105.4</th>
<th>110.6</th>
<th>101.9</th>
<th>106.2</th>
<th>123.7</th>
<th>104.0</th>
<th>102.6</th>
<th>95.5</th>
<th>108.6</th>
<th>112.8</th>
</tr>
</thead>
</table>

**Dec '18**

|       | +0.5  | +2.6  | +0.5  | +1.2  | +3.7  | -6.6  | -0.3  | -3.4  | +0.1  | +4.1  |
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 sub-components 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 (%)

<table>
<thead>
<tr>
<th>Selected Countries &amp; Bermuda</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
<th>Dec 19</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bermuda</td>
<td>1.5</td>
<td>1.9</td>
<td>1.4</td>
<td>1.0</td>
<td>+0.5</td>
</tr>
<tr>
<td>United States¹</td>
<td>1.3</td>
<td>2.1</td>
<td>2.4</td>
<td>1.8</td>
<td>+2.3</td>
</tr>
<tr>
<td>Canada²</td>
<td>1.4</td>
<td>1.6</td>
<td>2.3</td>
<td>1.9</td>
<td>+2.2</td>
</tr>
<tr>
<td>United Kingdom³</td>
<td>1.8</td>
<td>3.6</td>
<td>3.3</td>
<td>2.6</td>
<td>+2.2</td>
</tr>
</tbody>
</table>

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

February 2019

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