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#### A note to the reader

The following report presents the price statistics for October 2020.

- The Central Bureau of Statistics made a series of improvements in October 2020 to keep the measures on changes in consumer prices as accurate and up to date as possible.
   Due to the implementation of these important changes in the calculation of the CPI, the CPI from June 2019 up to September 2020 were revised and corrected.
- At the end of October 2020 the Consumer Price Index (CPI) shows a decrease of 0.2% compared to the end of September 2020. The sector which affected the CPI the most was "Recreation and culture" (-0.7%), which led to an effect of -0.07 percentage points (ppts) on the Δ CPI of October 2020 (-0.2%).
- Compared to October 2019 the CPI decreased by 2.8%. The sector which affected the CPI the most was "Transport" (-7.0%), which led to an effect of 0.87 ppts.
- The period average inflation for the period October 2019 October 2020 is -0.2%, which is 4.3 ppts lower compared to the period average inflation for the period October 2018 October 2019 (4.1%).
- Utilities (Water and Electricity) did not register price changes in October 2020. The price of gasoline registered a decrease of 0.7% in October 2020 and caused an effect of -0.03 ppts on the Δ CPI of October 2020. The price of diesel registered a decrease of 3.9% in October 2020 and had an effect of -0.01ppt on the Δ CPI of October 2020.

This report is divided in 7 sections. An overview of the monthly percentage changes in the CPI and index per sector is presented in section 1. Section 2 provides the yearly percentage changes in the CPI and index per sector. The development of indices of main sectors and utilities is outlined in section 3. Section 4 presents the percentage change in the CPI of Aruba's major trading partners and compares the CPI of Aruba and the USA. Section 5 presents an overview of the monthly and yearly percentage changes of the core inflation. Section 6 presents the price movements in food & catering services. The development of the subsistence level is presented in section 7 and is followed by the appendices.

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#### 1 Monthly change of the CPI

#### 1.1 CPI and Inflation

The CPI of the total population of Aruba for the month of October 2020 is 96.97; a decrease of 0.2% compared to the CPI of September 2020 (97.14). An overview of the percentage change in the CPI ( $\Delta$  CPI) for different periods during 2019 and 2020 is shown in Table 1. The terms percentage change in the CPI and "inflation" (deflation) are considered similar and are used interchangeably. The deflation over the last 12 months (end of period inflation) is 2.8%, while the inflation over a period of 24 months (period average inflation) is -0.2%.

Table 1: Overview of △ CPI

		% Changes		Ind	lex
Period		2020 2019		Current	Last
Monthly	Sep - Oct	-0.2	0.4	96.97	97.14
Year-to-date	Dec - Oct	-3.2	3.2	96.97	100.13
Last 12 months <sup>1</sup>	Oct - Oct	-2.8	4.3	96.97	99.80
Last 24 months <sup>2</sup>	Oct - Oct	-0.2	4.1	98.16	98.40

#### Source: Central Bureau of Statistics Aruba

Figure 1 depicts the monthly  $\Delta$  CPI over a period of one year starting from October 2019, whereas the  $\Delta$  CPI for the month October for the years 2011 to 2020 is illustrated in Figure 2.

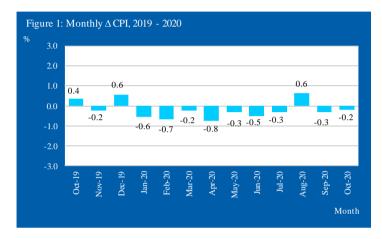
#### 1.2 Changes in sector

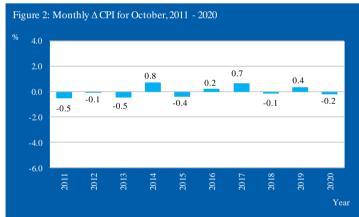
Figure 3 provides an overview of the percentage changes for the indices per sector for October 2020. The percentage change in index is further denoted as  $\Delta$  I. The largest  $\Delta$  I is observed for the "Clothing and footwear" sector with an increase of -1.1%

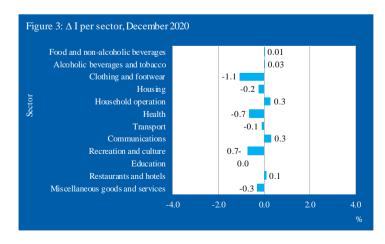
#### 1.3 Changes in categories and subcategories

The largest positive and negative  $\Delta$  I is seen in the categories "Audio-visual, photographic and information processing equipment" (12.4%) and "Other major durables for recreation and culture" (-5.4%). In the "Food and non-alcoholic beverages" sector, the "Food" and "Non-alcoholic beverages" categories were virtually unchanged. In the "Transport" sector the major  $\Delta$  I is observed for the category "Transport services" (7.9%). In the "Recreation and culture" sector the major  $\Delta$  I is observed for the category "Audio-visual, photographic and information processing equipment" (12.4%)1.

The categories which influenced the CPI calculation the most are "Holidays", "Furniture, furnishings, carpets and other floor coverings" and "Clothing" which had an effect of respectively, -0.08, 0.07 and -0.07 ppts on the  $\Delta$  CPI. Reference is made to tables 16 and 17 in Appendices 1 and 2. Table 16 provides an overview of the indices for the months October 2019, December 2019, September 2020 and October 2020 together with corresponding weights per sector and the monthly, year-to-date (ytd), end of period and period average percentage changes for October 2020. In table 17 an overview of the effect on the monthly, year-todate (ytd), end of period and period average CPI per sector and category for October 2020 is presented. The course of indices for 2010 - up to October 2020 is illustrated in Appendix 5.







<sup>&</sup>lt;sup>1</sup> The focus is on the four major sectors which are: Housing, Transport, Food and nonalcoholic beverages and Recreation and culture. Together these sectors form 59% of the total weight of the basket of goods and services.

<sup>&</sup>lt;sup>1</sup> End of period inflation

<sup>&</sup>lt;sup>2</sup> Period average inflation

## S Consumer Price Index Aruba End of period change October 2020

#### 2 End of period change of the CPI

#### 2.1 End of period change CPI for October 2020

The CPI decreased from 99.80 in October 2019 to 96.97 in October 2020, a decrease of 2.8%. This  $\triangle$  CPI is the lowest registered over a period of 5 years for the month October, and is 7.1 ppts lower than the  $\triangle$  CPI registered in 2019 (4.3%) (see table 2).

Table 2: End of period Δ CPI for October, 2016 - 2020

Period	Δ CPI	Index
2015-2016	-0.1	93.17
2016-2017	-1.2	92.05
2017-2018	3.9	95.66
2018-2019	4.3	99.80
2019-2020	-2.8	96.97

Source: Central Bureau of Statistics Aruba

#### 2.2 Changes in sector

An overview of the percentage change per sector over the period October 2019 - October 2020 is presented in table 3. The largest  $\Delta$  I is observed for the sector "Household operation" with a decrease of 7.4%. Furthermore, decreases of 7.3%, 7.0% and 2.6% are observed for the "Clothing and footwear", "Transport" and "Recreation and culture" sectors, respectively. A comparison of the  $\Delta$  I's for the years 2019 and 2020 is provided in figure 4.

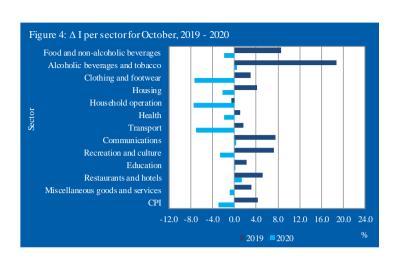
Table 3: Percentage change for October, 2019 - 2020

Sector	% Change
Food and non-alcoholic beverages	-1.9
Alcoholic beverages and tobacco	0.5
Clothing and footwear	-7.3
Housing	-2.1
Household operation	-7.4
Health	-1.9
Transport	-7.0
Communications	0.4
Recreation and culture	-2.6
Education	0.2
Restaurants and hotels	1.4
Miscellaneous goods and services	-0.9
СРІ	-2.8

Source: Central Bureau of Statistics Aruba

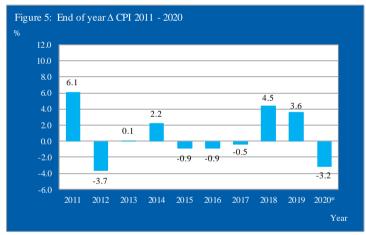
#### 2.3 Changes in categories

The largest positive and negative  $\Delta$  I in categories observed over a period of one year are respectively, "Tools and equipment for house and garden" (12.6%) and "Furniture, furnishings, carpets and other floor coverings" (-25.3%). For an overview of the end of period percentage changes per category refer to table 16 in Appendix 1.



#### 2.4 End of year change CPI 2011 - 2020

The end of year  $\Delta$  CPI for the period 2011 - 2020 is shown in figure 5. The  $\triangle$  CPI for 2020 is calculated by comparing the CPI of October 2020 with the CPI of December 2019. The ytd  $\Delta$  CPI for October 2020 is -3.2%.



\*ytd\*

#### 2.5 Period average change CPI for October 2020

The period average change CPI (Δ ACPI) for October 2020 is -0.2%. Table 4 provides an overview of the  $\Delta$  ACPI for the month October for the years 2016 to 2020. The  $\Delta$  ACPI for 2020 decreased by 4.3 ppts compared to 2019 (4.1%).

Table 4: Overview of Δ ACPI for October, 2016 - 2020

Period	Δ ΑСΡΙ	Index
2015-2016	-1.0	92.92
2016-2017	-0.9	92.05
2017-2018	2.7	94.55
2018-2019	4.1	98.40
2019-2020	-0.2	98.16

#### 3 Development of indices of main sectors and utilities

#### 3.1 Indices main sectors

The four major sectors, "Housing", "Transport", "Food and nonalcoholic beverages" and "Recreation and culture", constitute 64% of the total weight of the basket of goods and services, which are observed on a monthly basis. An overview of the course of indices for 2010 - up to October 2020 per sector and for the CPI is provided in figures 9-1 to 9-12 in Appendix 5.

Changes in the indices of the sectors "Housing" and "Transport" are mainly the result of changes in the international oil prices and prices of utilities during the respective months. The development of crude oil, fuel surcharge, electricity, water, gasoline and diesel prices is provided in table 5 and in the adjoining figures 6-1 and

Table 5: Prices of utilities, gasoline and diesel, 2019 - 2020

		Total	Total				
	Crude oil		energy charge <sup>2</sup>				
Month	per barrel <sup>1</sup>	≤ 500 kWh	501-1000 kWh	Electricity <sup>3</sup>	\Mater4	Casalina <sup>5</sup>	Diesel <sup>5</sup>
WOUTH	per parrei	≥ 500 KWII	301-1000 KWII	Electricity	water	Gasonne	Diesei
Oct-19	53.77	34.52	35.72	265.65	137.05	205.10	178.40
Nov-19	56.74	34.52	35.72	265.65	137.05	203.30	177.70
Dec-19	59.73	34.52	35.72	265.65	137.05	203.70	175.60
Jan-20	57.92	31.09	31.99	240.09	137.05	204.60	179.20
Feb-20	50.67	31.09	31.99	240.09	137.05	201.90	172.40
Mar-20	30.40	31.09	31.99	240.09	137.05	197.20	160.60
Apr-20	17.39	31.09	31.99	240.09	137.05	160.60	136.70
May-20	26.57	31.09	31.99	240.09	137.05	144.70	119.00
Jun-20	38.19	31.09	31.99	240.09	137.05	160.50	121.60
Jul-20	40.58	31.09	31.99	240.09	137.05	174.90	135.00
Aug-20	42.33	31.09	31.99	240.09	137.05	178.10	140.70
Sep-20	39.64	31.09	31.99	240.09	137.05	180.20	140.50
Oct-20	39.45	31.09	31.99	240.09	137.05	178.90	135.00

Source: Central Bureau of Statistics Aruba

#### 3.2 Electricity

The price of electricity is determined in Aruban florins (Afl.) for an average usage by households. The average usage is 725.5 kWh per month. The electricity price for an average consumption of 725.5 kWh did not change in October 2020, it remained at Afl. 240.09. Figure 6-1 provides an overview of the course of changes in the electricity price for the period 2013 to 2020.

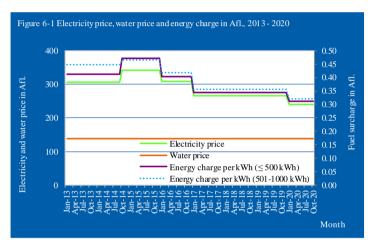
The total energy charge per kWh for a usage of electricity up to 500 kWh did not change in October 2020, it stayed at Afl. 31.09 cents per kWh. The total energy charge per kWh for a usage of electricity between 501 - 1000 kWh did not change in October 2020, it stayed at Afl. 31.99 cents per kWh.

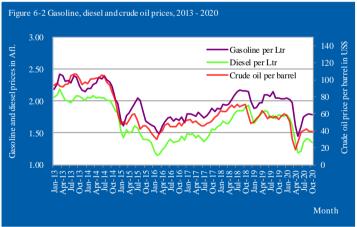
#### 3.3 Water

The price of water is determined in Afl. for an average usage (water consumption) by households. Figure 6-1 provides an overview of the course of changes in the water price for the period 2013 to 2020. The water price for an average usage by households did not change in October 2020, it remained at Afl. 137.05.

#### 3.4 Gasoline and Diesel

The retail price of gasoline decreased by 0.7% from 180.2 cents per liter in September 2020 to 178.9 cents per liter in October 2020. In October 2020, the retail price of diesel registered a decrease of 3.9% from 140.5 cents per liter in September 2020 to 135.0 cents per liter in October 2020.





<sup>&</sup>lt;sup>1</sup> Average West Texas Intermediate (WTI) crude oil price per barrel in USS (Source: U.S. Energy Information Administration)

<sup>&</sup>lt;sup>2</sup> Total energy charge in Afl. cents per kWh

<sup>&</sup>lt;sup>3</sup> Electricty price in Afl.

<sup>4</sup> Water price in Afl.

<sup>&</sup>lt;sup>5</sup> Gasoline and diesel prices in Afl. cents per liter

#### 4 Percentage change CPI of Aruba's major trading partners

#### 4.1 Comparison of the CPI of Aruba and the USA

Table 6 provides an overview of the  $\Delta$  CPI of Aruba's major trading partners starting from October 2019. In October 2020 the  $\Delta$ CPI of the USA, Curação and the Netherlands were 0.0%, 0.1% and 0.5%.

Table 6: Monthly Δ CPI 2019 - 2020 per Country

Period	Aruba	USA	Curaçao	Netherlands
Oct-19	0.4	0.2	0.0	0.4
Nov-19	-0.2	-0.1	-0.4	0.1
Dec-19	0.6	-0.1	0.1	0.1
Jan-20	-0.6	0.4	0.1	-0.8
Feb-20	-0.7	0.3	-0.3	0.6
Mar-20	-0.2	-0.2	0.1	0.2
Apr-20	-0.8	-0.7	0.2	0.5
May-20	-0.3	0.0	-0.2	-0.1
Jun-20	-0.5	0.5	0.3	0.3
Jul-20	-0.3	0.5	0.4	1.1
Aug-20	0.6	0.3	0.7	-0.5
Sep-20	-0.3	0.1	0.5	-0.2
Oct-20	-0.2	0.0	0.1	0.5

Source: CBS Aruba, Bureau of Labor Statistics (USA), CBS Curação and CBS Netherlands

The USA is considered Aruba's largest trading partner<sup>2</sup>. Table 7 provides an overview of the  $\Delta$  CPI for Aruba and the USA in October 2020. Aruba's monthly  $\Delta$  CPI for October 2020 is 0.2 ppts lower than the  $\Delta$  CPI of the USA.

Table 7: Overview of Δ CPI, 2020

Period		Aruba	USA
Monthly	Sep - Oct	-0.2	0.0
Year-to-date	Dec - Oct	-3.2	1.3
Last 12 months <sup>1</sup>	Oct - Oct	-2.8	1.2
Last 24 months <sup>2</sup>	Oct - Oct	-0.2	1.4

Source: Central Bureau of Statistics Aruba

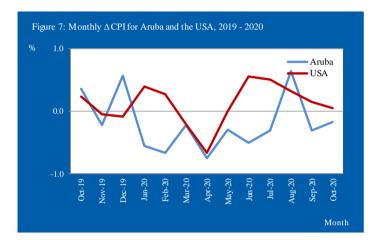
The  $\Delta$  CPI of Aruba over the last 12 months is 4.0 ppts lower compared to the USA's 12-month  $\Delta$  CPI. The  $\Delta$  CPI over the last 24 months for Aruba is 1.6 ppts lower than the  $\Delta$  CPI of the USA. The monthly inflation for both Aruba and the USA is depicted in figure 7 over a period of one year. Furthermore, an overview of the end of year  $\Delta$  CPI over the period 2010 - 2020 for Aruba and the USA is provided in table 8 and figure 8.

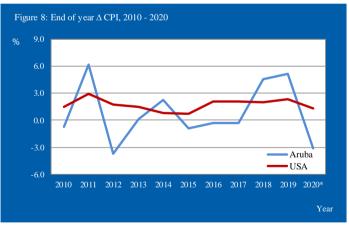
Table 8: End of year Δ CPI, 2010 - 2020

Period	Aruba	USA
2010	-0.6	1.1
2011	6.5	3.4
2012	-1.6	1.8
2013	-1.9	1.2
2014	1.5	1.3
2015	-0.8	0.5
2016	-0.1	1.7
2017	-1.2	2.2
2018	3.9	2.2
2019	4.3	2.1
2020*	-3.2	1.3

Source: Central Bureau of Statistics Aruba

\* ytd





\*ytd

<sup>&</sup>lt;sup>1</sup> End of period inflation

<sup>&</sup>lt;sup>2</sup> Period average inflation

 $<sup>^2\,</sup>$  "51% of Aruba's import by sea and air originates from the USA" (Source: Foreign Trade Statistics Report, 3th Quarter 2020).

#### **5** Core inflation

#### 5.1 Core inflation

Core inflation is a measure of inflation which excludes certain items that face volatile price movements e.g. food products and energy. By calculating the core inflation these more volatile components are eliminated from the inflation. Core inflation indices serve to assess the mid- and long-term trend of the overall price level. For the purpose of adjusting monetary policy, many economists focus more intently on the core rate of inflation, as this allows for an in-depth assessment of inflationary processes ongoing in the economy.

#### **5.2** Monthly change of the core inflation

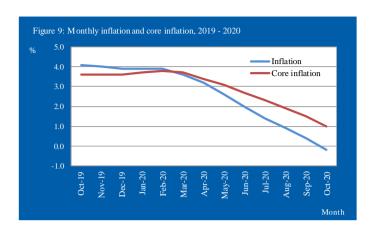
In October 2020 the core inflation (measured over the period October 2019 - 2020) was 1.0%. In October 2020 the food index was 0.7%, while the energy index shows a decrease of 6.2%.

Table 9: Monthly inflation and core inflation, 2019 - 2020

				Core
Period	Inflation	Food	Energy <sup>2</sup>	Inflation
Oct-19	4.1	11.2	2.4	3.6
Nov-19	4.0	11.0	1.9	3.6
Dec-19	3.9	10.5	1.8	3.6
Jan-20	3.9	9.9	1.5	3.7
Feb-20	3.9	9.3	1.3	3.8
Mar-20	3.6	8.3	0.7	3.7
Apr-20	3.2	7.4	-0.2	3.4
May-20	2.6	6.2	-1.5	3.1
Jun-20	2.0	4.9	-2.7	2.7
Jul-20	1.4	3.7	-3.6	2.3
Aug-20	0.9	2.6	-4.6	1.9
Sep-20	0.4	1.6	-5.4	1.5
Oct-20	-0.2	0.7	-6.2	1.0

Source: Central Bureau of Statistics Aruba

The monthly inflation and core inflation for Aruba is shown in figure 9 over a period of one year starting from October 2019.



## **5.3** End of year change of the core inflation, 2015 - 2020

The end of year core inflation of the total population of Aruba for the year 2020 (up to October) is 1.0%, a decrease of 2.6 ppts compared to the core inflation of 2019. Table 10 provides an overview of the end of year inflation and core inflation over the period 2015 - 2020.

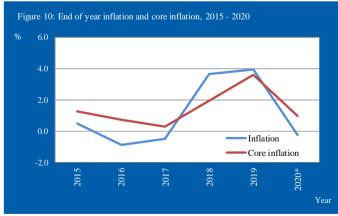
The end of year inflation and core inflation is presented in figure 10 over the period 2015 - 2020.

Table 10: End of year core inflation, 2015 - 2020

Period	2015	2016	2017	2018	2019	2020*
Inflation	0.5	-0.9	-0.5	3.6	3.9	-0.2
Food	1.9	-0.1	0.8	12.2	10.5	0.7
Electricity	8.5	-9.9	-14.0	0.0	2.1	-7.3
Water	0.0	0.0	0.0	0.0	2.1	0.8
Gasoline and diesel	-20.1	-7.9	9.2	13.9	1.0	-9.9
Core inflation	1.3	0.7	0.3	1.9	3.6	1.0
Course Control Burners of Statistics Apple						

Source: Central Bureau of Statistics Aruba

Note: the figures for the years 2014-2017 are based on the weights of Dec 2006=100 \*current month



Note: the figures for the years 2014-2017 are based on the weights of Dec 2006=100

<sup>&</sup>lt;sup>1</sup> Period average inflation

<sup>&</sup>lt;sup>2</sup> Energy: Electricity, water, gasoline and diesel

#### 6 Development of Food & catering services

#### 6.1 Monthly change of Food & catering services for October 2020

The "Food & catering services" index showed a slight increase of 0.04% in October 2020, after a decrease of 0.2% in September 2020. The index for "Food at home" showed a slight increase of 0.01% in October, as six (6) of the eleven (11) "Food at home" indices increased in October 2020. The "Vegetables" index registered the largest increase (1.5%) in October 2020. Furthermore, increases were posted in the indices for "Fruit" (1.3%), "Milk, cheese and eggs" (0.6%) and "Food products n.e.c." (0.1%).

The "Meat" index registered the largest decrease (-1.1%) in October 2020.

Table 11 provides an overview of the corresponding weights per food group together with the percentage changes and effect for October 2020.

Table 11: Percentage change of Food for October 2020

Food	Weight	% Change	Effect
Food & catering services	1,492.8	0.04	0.006
Food at home	1,125.3	0.01	0.001
Bread and cereals	205.2	-0.2	-0.003
Meat	229.8	-1.1	-0.027
Fish and other seafood	56.4	-0.4	-0.002
Milk, cheese and eggs	140.0	0.6	0.008
Oils and fats	31.6	-0.1	0.000
Fruit	72.0	1.3	0.012
Potatoes and other tubers	18.5	0.1	0.000
Vegetables	75.7	1.5	0.012
Sugar, jam, honey and other confectionery	49.6	0.0	0.000
Food products n.e.c.	82.7	0.1	0.001
Non-alcoholic beverages	163.9	0.0	0.000
Food away from home	367.5	0.1	0.005
Other goods and services	8,507.2	-0.2	-0.181
Other goods	5,147.2	-0.3	-0.143
Other services	3,360.0	-0.1	-0.038
СРІ	10,000.0	-0.2	-0.175

Source: Central Bureau of Statistics Aruba

In October 2020, "Food at home" and "Food away from home" as a group showed an increase in price of 0.04% compared to September 2020, and had an influence of 0.01 ppt on the CPI, while the remaining goods and services, as a group, experienced a decrease in price of 0.2%, causing an effect of -0.18 ppts on the CPI.

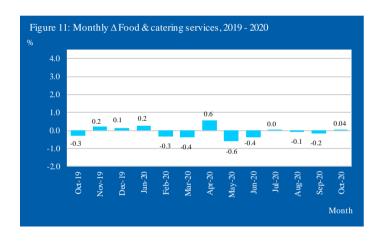
An overview of the percentage change and effect for "Food at home" and "Food away from home" for October 2020 is presented in table 12.

Table 12: Effect on the CPI of October 2020 of "Food at home" and "Food away from home"

Category	Weight	% Change	Effect
Food at home	1,087.7	0.01	0.00
Food away from home	429.8	0.1	0.00
Total group	1,517.5	0.04	0.01
Remaining goods and services	8,482.5	-0.2	-0.18
CPI	10,000.0	-0.2	-0.18

Source: Central Bureau of Statistics Aruba

Figure 11 depicts the monthly  $\Delta$  Food and catering services over a period of one year starting from October 2019.



#### 6.2 End of Period change of Food & catering services for October 2020

Over the last twelve (12) months, the "Food & catering services" has decreased by 0.7%. The "Food at home" index showed a decrease of 1.9%. The "Potatoes and other tubers" index decreased by 13.5%, the largest decrease among the "Food at home" food groups, while the "Milk, cheese and eggs" index increased by 0.3%, the largest increase among the "Food at home" food groups.

The index for "Food away from home" shows an increase of 0.1% in October 2020 and has increased by 2.1% over the last twelve (12) months.

Table 18 provides an overview of the monthly and end of period percentage changes and effect for October 2020 for the food groups.

#### 7 Subsistence level

#### 7.1 Subsistence level

The subsistence level is the minimum level of income which is perceived necessary to achieve an adequate standard of living in a given country. The subsistence level is usually determined by estimating the cost of all the essential resources that an average adult consumes in one month or year. This is commonly called a basic needs index, and varies according to the price of food, clothing, housing, transport and other items in the "basket". Equivalence scales are used to adjust for the assumed standard of living, of households of different sizes and composition. The scale assigns a weight of 1.0 for the first adult and 0.5 for each additional adult in the household (aged 15+) and a weight of 0.3 for each child (aged 0-14 years). The subsistence level is based on figures of the report "Bestaansminimum 2010" published by the CBS in December 2010 and is monthly updated for inflation using the monthly CPI. The reference unit used in this report is one of a household consisting of two adults and two children (aged 0-14

7.2 Monthly change of the subsistence level for October 2020

Table 13 provides an overview of the subsistence level for a family of two adults and two children (aged 0-14 years) by sector registered over a period of 5 years for the month October. Over a period of one year the subsistence level decreased by Afl. 125, from Afl. 4,898 in October 2019 to Afl. 4,773 in October 2020. The "Food and non-alcoholic beverages" sector shows the largest decrease (Afl. 36), over this period.

Table 13: Monthly subsistence level in Aruba (in Afl.) by sector for a family of 2 adults and 2 childr (aged 0-14 years) for October, 2016 - 2020

						Change in Afl.
Sector	Oct-16	Oct-17	Oct-18	Oct-19	Oct-20	Oct-19 - Oct-20
Food and non-alcoholic beverages	1,661	1,643	1,785	1,939	1,903	-36
Clothing and footwear	250	255	266	274	254	-20
Housing	1,470	1,422	1,424	1,483	1,451	-32
Household operation	113	110	114	113	105	-8
Health	73	73	82	83	81	-2
Transport	257	260	284	289	269	-20
Communications	134	135	141	152	152	0
Recreation and culture	161	149	152	163	159	-4
Education	68	71	72	74	74	0
Miscellaneous goods and services	312	311	318	328	325	-3
Total	4,499	4,429	4,638	4,898	4,773	-125

Source: Central Bureau of Statistics Aruba

An overview of the subsistence level, for the most common family types, over the period October 2019 - October 2020 is presented in table 14.

Table 14: Subsistence level in Aruba (in Afl.) by family size and composition, October 2020 (Base period October 2010)

		Eq	uivalence sca	les	
	1	1.3	1.5	1.8	2.1
	1 adult	1 adult	2 adults	2 adults	2 adults
Period		+ 1 child		+ 1 child	+ 2 children
Oct-19	2,332	3,032	3,499	4,198	4,898
Nov-19	2,329	3,028	3,494	4,192	4,891
Dec-19	2,331	3,030	3,496	4,196	4,895
Jan-20	2,314	3,008	3,471	4,165	4,860
Feb-20	2,303	2,994	3,454	4,145	4,836
Mar-20	2,300	2,989	3,449	4,139	4,829
Apr-20	2,296	2,984	3,444	4,132	4,821
May-20	2,283	2,968	3,425	4,110	4,794
Jun-20	2,277	2,960	3,416	4,099	4,782
Jul-20	2,267	2,947	3,400	4,080	4,760
Aug-20	2,276	2,959	3,415	4,098	4,781
Sep-20	2,277	2,960	3,416	4,099	4,782
Oct-20	2,273	2,955	3,410	4,092	4,773

Source: Central Bureau of Statistics Aruba

#### 7.3 Comparison of the subsistence level and minimum wage

In October 2020 the subsistence level for a single adult household is Afl. 2273, which represents an income deficit of Afl. 458, a decrease of Afl. 112 compared to the deficit observed one year ago (Afl. 570). This deficit is the second highest registered over a period of five years for the month October.

Tabel 15: Monthly income surplus/deficit (in Afl.) for a single adult household for October, 2016 - 2020

		Minimum	
Period	1 adult	wage	Surplus/deficit
2016	2,142	1,678	-464
2017	2,109	1,711	-398
2018	2,208	1,711	-497
2019	2,332	1,762	-570
2020	2,273	1,815	-458



Table 16: Monthly & Yearly Changes (%) in the Consumer Price Index for October 2020, Total Population (Jun 2019 = 100)

DESCRIPTION	WEIGHT		2019	2020	2020	Monthly	Ytd	End of period	Period average
	coefficient	Oct	Dec	Sep	Oct	Sep - Oct	Dec - Oct	Oct 20 - Oct 21	Oct 20 - Oct 21
Food and non-alcoholic beverages	1,087.7	99 29	99.16	97.43	97.44	0.0	-1.7	-1.9	1.0
Food		99.10	98.94	97.05	97.06	0.0	-1.9	-2.1	0.7
Non-alcoholic beverages				100.40		0.0	-0.4	-0.3	3.6
Alcoholic beverages and tobacco	78.2	100.06	99.81	100.56	100.59	0.0	0.8	0.5	6.0
Alcoholic beverages for consumption at home		99.74	99.43		99.37	0.0	-0.1	-0.4	5.7
Tobacco				105.27		0.1	4.0	4.0	6.9
Clothing and footwear	276 0	100.29	00 10	94.02	92.99	-1.1	-5.3	-7.3	-2.8
Clothing		99.05	95.84	95.31	92.33	-3.1	- <b>3.3</b> -3.7	-6.8	-2. <b>6</b> -3.0
Footwear			105.98		95.22	6.1	-10.2	-8.8	-2.5
Housing	2,522.2	100 42	100 37	98 49	98.27	-0.2	-2.1	-2.1	-0.7
Actual rentals for housing				101.88		0.1	1.2	1.5	2.4
Imputed rentals for housing				100.25		-1.6	-2.3	-2.3	0.8
Maintenance and repair of the dwelling	517.0	101.35	99.55	104.09	102.93	-1.1	3.4	1.6	3.3
Water supply and miscellaneous services relating to the dwelling	463.6	100.00	101.35	101.35	101.35	0.0	0.0	1.3	2.1
Electricity, gas and other fuels	840.4	100.00	100.00	90.72	90.72	0.0	-9.3	-9.3	-7.0
Household operation	929.2	101.77	99.82	93.96	94.20	0.3	-5.6	-7.4	-2.7
Furniture, furnishings, carpets and other floor coverings	128.8	100.92	97.33	70.38	75.36	7.1	-22.6	-25.3	-11.8
Household textiles	58.6	93.75	96.75	86.43	84.00	-2.8	-13.2	-10.4	-12.9
Household appliances	246.0	107.79	103.31	91.57	89.34	-2.4	-13.5	-17.1	-4.3
Glassware, tableware and household utensils		99.73	90.58	92.42	97.54	5.5	7.7	-2.2	-2.1
Tools and equipment for house and garden				110.07		2.3	16.6	12.6	-2.2
Goods and services for routine household maintenance and cleaning	420.5	99.96	99.79	101.46	101.56	0.1	1.8	1.6	2.5
Health	223.1	100.45	100.03	99.19	98.53	-0.7	-1.5	-1.9	0.3
Medical products, appliances and equipment			99.72		97.60	-1.1	-2.1	-2.8	-0.2
Out-patient services			100.00		99.98	0.0	0.0	0.0	0.8
Other treatments		100.49		97.85	97.83	0.0	-1.8	-2.6	0.3
Health products and services n.e.c.	10.5	103.07	104.95	104.10	105.30	1.2	0.3	2.2	3.8
Transport	1,257.4				92.32	-0.1	-8.4	-7.0	-3.8
Purchase of vehicles			106.03		94.81	-0.4	-10.6	-5.2	-1.0
Operation of personal transport equipment		98.77		91.43	91.02	-0.4	-7.2	-7.8	-5.4
Transport services	51.5	99.51	94.78	83.67	90.25	7.9	-4.8	-9.3	-4.9
Communications	849.6	99.37	99.60	99.45	99.74	0.3	0.1	0.4	0.8
Telephone and telefax equipment	43.8	87.82	92.26	89.35	94.98	6.3	3.0	8.2	-10.1
Telephone and telefax services	805.8	100.00	100.00	100.00	100.00	0.0	0.0	0.0	1.4
Recreation and culture	1,013.3	97.79	100.48	95.93	95.23	-0.7	-5.2	-2.6	2.4
Audio-visual, photographic and information processing equipment	58.5	100.14	91.44	72.62	81.63	12.4	-10.7	-18.5	-16.7
Other major durables for recreation and culture	20.0	99.85	90.44	102.81	97.22	-5.4	7.5	-2.6	1.0
Other recreational items and equipment; gardens and pets	266.6	101.65	101.52	103.65	102.81	-0.8	1.3	1.1	3.9
Recreational and cultural services	309.1	98.67	99.24	99.77	99.78	0.0	0.5	1.1	0.6
Newspapers, books and stationery Holidays	43.7	98.34	93.94	91.32 90.18	88.13	-3.5 -2.7	-6.2 -15.7	-10.4 -5.7	-5.6 8.5
Holidays	313.4	33.03	104.03	30.10	67.74	-2.7	-15.7	-5.7	8.5
Education	98.0	100.00	100.00	100.17	100.17	0.0	0.2	0.2	0.9
Pre primary and primary education				100.00		0.0	0.0	0.0	0.8
Secondary education				100.00		0.0	0.0	0.0	0.8
Post-secondary non-tertiary education				100.00		0.0	0.0	0.0	0.8
Tertiary education				100.00		0.0	0.0	0.0	0.8
Education not definable by level	2.5	100.00	100.00	106.67	106.67	0.0	6.7	6.7	6.4
Restaurants and hotels	442.0	100.53	103.89	101.79	101.90	0.1	-1.9	1.4	4.2
Catering services	429.8	100.33	101.81	102.34	102.45	0.1	0.6	2.1	3.9
Accommodation services	12.2	107.62	177.44	82.35	82.44	0.1	-53.5	-23.4	14.1
Miscellaneous goods and services	1,222.6	99.51	99.33	98.94	98.64	-0.3	-0.7	-0.9	0.6
Personal care		99.09	98.77	97.02	97.20	0.2	-1.6	-1.9	0.3
Personal effects n.e.c.	106.6	98.05	97.24	99.03	94.78	-4.3	-2.5	-3.3	0.2
Social protection	78.2	100.00	100.00	100.00	100.00	0.0	0.0	0.0	0.8
Insurance	610.7	100.00	100.00	100.14	100.14	0.0	0.1	0.1	0.9
СРІ	10,000.0	99.80	100.13	97.14	96.97	-0.2	-3.2	-2.8	-0.2
ce: Central Bureau of Statistics Aruba	10,000.0	33.60	100.13	37.14	30.31	-5.2	-3.2	-2.0	-0.2



Table 17: Monthly & Yearly Effect on the Consumer Price Index per sector and category for October 2020 (Jun 2019 = 100)

DESCRIPTION	WEIGHT coefficient	Monthly Sep - Oct	Ytd Dec - Oct	End of period Oct 20 - Oct 21	Period aver Oct 20 - Oct
Food and non-alcoholic beverages	1,087.7	0.00	-0.19	-0.20	0.11
Food	964.1	0.00	-0.18	-0.20	0.07
Non-alcoholic beverages	123.6	0.00	0.00	0.00	0.04
Alcoholic beverages and tobacco	78.2	0.00	0.01	0.00	0.05
Alcoholic beverages for consumption at home Tobacco	62.2 16.0	0.00	0.00 0.01	0.00 0.01	0.03 0.01
Clothing and footwear	276.8	-0.03	-0.14	-0.20	-0.08
Clothing	212.8	-0.07	-0.07	-0.14	-0.06
Footwear	64.0	0.04	-0.07	-0.06	-0.02
Housing	2,522.2	-0.06	-0.53	-0.54	-0.17
Actual rentals for housing	666.7	0.01	0.08	0.10	0.16
Imputed rentals for housing	34.4	-0.01	-0.01	-0.01	0.00
Maintenance and repair of the dwelling	517.0	-0.06	0.17	0.08	0.17
Water supply and miscellaneous services relating to the dwelling	463.6	0.00	0.00	0.06	0.10
Electricity, gas and other fuels	840.4	0.00	-0.78	-0.78	-0.59
Household operation	929.2	0.02	-0.52	-0.70	-0.26
Furniture, furnishings, carpets and other floor coverings	128.8	0.07	-0.28	-0.33	-0.16
Household textiles	58.6	-0.01	-0.07	-0.06	-0.08
Household appliances	246.0	-0.06	-0.34	-0.45	-0.11
Glassware, tableware and household utensils	17.2	0.01	0.01	0.00	0.00
Tools and equipment for house and garden	58.2	0.02	0.09	0.07	-0.01
oods and services for routine household maintenance and cleaning	420.5	0.00	0.07	0.07	0.11
Health	223.1	-0.02	-0.03	-0.04	0.01
Medical products, appliances and equipment	152.3	-0.02	-0.03	-0.04	0.00
Out-patient services	52.4	0.00	0.00	0.00	0.00
Other treatments	7.8	0.00	0.00	0.00	0.00
Health products and services n.e.c.	10.5	0.00	0.00	0.00	0.00
Transport	1,257.4	-0.01	-1.06	-0.87	-0.48
Purchase of vehicles	442.6	-0.02	-0.50	-0.23	-0.05
Operation of personal transport equipment	763.3	-0.03	-0.54	-0.59	-0.41
Transport services	51.5	0.03	-0.02	-0.05	-0.02
Communications	849.6	0.03	0.01	0.03	0.07
Telephone and telefax equipment	43.8	0.03	0.01	0.03	-0.05
Telephone and telefax services	805.8	0.00	0.00	0.00	0.11
Recreation and culture	1,013.3	-0.07	-0.53	-0.26	0.24
Audio-visual, photographic and information processing equipment	58.5	0.05	-0.06	-0.11	-0.10
Other major durables for recreation and culture	20.0	-0.01	0.01	-0.01	0.00
Other recreational items and equipment; gardens and pets	266.6	-0.02	0.03	0.03	0.10
Recreational and cultural services	309.1	0.00	0.02	0.03	0.02
Newspapers, books and stationery Holidays	43.7 315.4	-0.01 -0.08	-0.03 -0.51	-0.04 -0.17	-0.02 0.25
·					
Education	98.0	0.00	0.00	0.00	0.01
Pre primary and primary education	24.0	0.00	0.00	0.00	0.00
Secondary education	43.4	0.00	0.00	0.00	0.00
Post-secondary non-tertiary education	4.6	0.00	0.00	0.00	0.00
Tertiary education	23.6	0.00	0.00	0.00	0.00
Education not definable by level	2.5	0.00	0.00	0.00	0.00
Restaurants and hotels	442.0	0.01	-0.09	0.06	0.19
Catering services	429.8	0.00	0.03	0.09	0.17
Accommodation services	12.2	0.00	-0.12	-0.03	0.02
Miscellaneous goods and services	1,222.6	-0.04	-0.08	-0.11	0.08
Personal care	427.1	0.01	-0.07	-0.08	0.01
Personal effects n.e.c.	106.6	-0.05	-0.03	-0.03	0.00
Social protection	78.2	0.00	0.00	0.00	0.01
Social protection					
Insurance	610.7	0.00	0.01	0.01	0.06



# Consumer Price Index Aruba Central bureau of statistics Consumer Price Index Aruba

Table 18: Monthly & Yearly Changes (%) and effect in the Food & catering services for October 2020, Total Population (Jun 20

		% C	hange	Effect		
DESCRIPTION	WEIGHT	Monthly	End of period	Monthly	End of period	
	coefficient	Sep - Oct	Oct 20 - Oct 21	Sep - Oct	Oct 20 - Oct 21	
Food & catering services	1,517.5	0.04	-0.7	0.006	-0.111	
Food at home	1,087.7	0.01	-1.9	0.001	-0.202	
Bread and cereals	178.1	-0.2	-1.2	-0.003	-0.022	
Rice	23.5	0.8	1.3	0.002	0.003	
Bread	72.1	-0.8	-0.5	-0.006	-0.003	
Pasta products	9.2	0.0	-2.6	0.000	-0.002	
Other cereals and cereal products	73.3	0.1	-2.6	0.000	-0.019	
Meat	242.5	-1.1	-1.2	-0.027	-0.029	
Bovine	67.3	-1.0	2.0	-0.007	0.013	
Swine	25.5	0.1	1.6	0.000	0.004	
Poultry	75.7	-3.0	-9.0	-0.022	-0.068	
Other meat and meat preparations	74.0	0.3	2.9	0.002	0.022	
Fish and other seafood	49.0	-0.4	-2.3	-0.002	-0.011	
Fish and seafood preparations	49.0	-0.4	-2.3	-0.002	-0.011	
Milk, cheese and eggs	135.3	0.6	0.3	0.008	0.005	
Cheese	55.4	-0.4	2.1	-0.002	0.012	
Eggs	16.6	5.2	4.5	0.008	0.007	
Milk	40.0	0.3	-2.6	0.001	-0.010	
Other milk products	23.3	0.1	-1.6	0.000	-0.004	
Oils and fats	32.2	-0.1	-1.5	0.000	-0.005	
Corn oil	2.8	0.4	-0.7	0.000	0.000	
Butter and margarine	9.2	1.8	-0.2	0.002	0.000	
Other oils and fats	20.1	-0.9	-2.3	-0.002	-0.005	
Fruit	97.6	1.3	-3.7	0.012	-0.035	
	97.6	6.5	30.1	0.012	0.030	
Oranges Bananas and plantains	19.9	-0.7	-19.5	-0.001	-0.034	
Apples	9.3	5.3	-19.5	0.001	0.000	
Avocado	5.0	-1.4	0.1	-0.001	0.000	
Grapes	9.2	-0.5	8.0	0.000	0.006	
Nuts	11.9	-0.3	-2.6	0.000	-0.003	
Lemons and mandarins	6.0	2.0	-19.4	0.001	-0.011	
Cherries and strawberries	8.8	2.6	-2.3	0.001	-0.011	
Melons and watermelons	7.7	-1.1	-2.5 -7.5	-0.001	-0.002	
Papayas and pineapples Other fruits and fruit products	6.9 3.5	-2.4 0.7	-14.2 -11.5	-0.001 0.000	-0.010 -0.004	
other traits and trait products	3.3	0.7	-11.5	0.000	-0.004	
Potatoes and other tubers	18.2	0.1	-13.5	0.000	-0.023	
Potatoes	12.2	0.3	-16.9	0.000	-0.019	
Other tubers	2.0	0.1	3.0	0.000	0.001	
Sweet potatoes and yucca	4.0	-0.6	-12.4	0.000	-0.005	
Vegetables	89.1	1.5	-8.6	0.012	-0.074	
Lettuce	6.8	16.7	-29.2	0.007	-0.020	
Tomatoes	9.7	-2.0	-15.1	-0.002	-0.016	
Onions and garlic	18.7	-1.7	-11.6	-0.003	-0.021	
Celery and broccoli	15.3	4.9	-6.2	0.006	-0.008	
Other vegetables	15.3	1.6	-4.4	0.002	-0.006	
Other preserved or processed vegetables	8.4	0.1	2.5	0.000	0.002	
Frozen vegetable mixtures	14.8	0.7	-3.3	0.001	-0.005	
Sugar, jam, honey and other confectionery	42.0	0.0	0.2	0.000	0.001	
Sugar Sugar	12.1	0.0	1.7	0.000	0.001	
Jams and jellies	2.5	0.8	1.0	0.000	0.002	
Other confectionery products	27.5	-0.1	-0.6	0.000	-0.002	
	27.3	0.1	0.0	0.000	0.002	
Food products n.e.c.	80.1	0.1	-0.6	0.001	-0.005	
Other food products	80.1	0.1	-0.6	0.001	-0.005	
Non-alcoholic beverages	123.6	0.0	-0.3	0.000	-0.004	
Coffee and tea	20.9	-0.8	-0.2	-0.002	-0.001	
Other non-alcoholic beverages	14.6	0.4	0.7	0.001	0.001	
Soft and sports drinks	31.0	0.0	0.3	0.000	0.001	
Fruit juices	57.1	0.3	-0.9	0.002	-0.005	
	400.0	0.4	3.4	0.00-	0.001	
Food away from home  Food and beverage consumption away from home	<b>429.8</b> 429.8	<b>0.1</b> 0.1	<b>2.1</b> 2.1	<b>0.005</b> 0.005	<b>0.091</b> 0.091	
	423.0	0.1	2.1	0.003	0.031	
Other goods and services	8,482.5	-0.2	-3.2	-0.181	-2.726	
Other goods	4,735.8	-0.3	-5.8	-0.143	-2.743	
Other services	3,746.7	-0.1	0.0	-0.038	0.017	
CPI	10,000	-0.2	-2.84	-0.175	-2.836	
· ·	10,000					



Table 19: CPI: Main indices for October 2020, Total Population (Jun 2019 = 100)

DESCRIPTION	WEIGHT	2019	2019	2020	2020	Monthly	Ytd	End of period	Period average
	coefficient	Oct	Dec	Sep	Oct	Sep - Oct	Dec - Oct	Oct 19 - Oct 20	Oct 19 - Oct 20
CPI for "All items"	10,000.0	99.80	100.13	97.14	96.97	-0.2	-3.2	-2.8	-0.2
CPI for "Goods"	6,272.5	100.03	99.63	95.22	94.98	-0.2	-4.7	-5.0	-2.0
CPI for "Durable goods"	1,293.2	101.20	101.22	93.03	93.23	0.2	-7.9	-7.9	-3.2
CPI for "Semi-durable goods"	954.1	99.36	97.85	95.63	94.11	-1.6	-3.8	-5.3	-2.7
CPI for "Non-durable goods"	4,025.2	99.75	99.40	95.88	95.71	-0.2	-3.7	-4.1	-1.5
CPI for "Services"	3,727.5	99.49	100.83	99.82	99.74	-0.1	-1.1	0.3	2.2
CPI for "Gasoline" and "Diesel"	552.3	97.85	97.12	85.39	84.61	-0.9	-12.9	-13.5	-9.9
CPI for "Food at home"	961.4	99.10	98.94	97.05	97.06	0.0	-1.9	-2.1	0.7
CPI excluding "Food and non-alcoholic beverages"	8,874.7	99.87	100.25	97.11	96.91	-0.2	-3.3	-3.0	-0.4
CPI excluding "Gasoline" and "Diesel"	9,447.7	99.90	100.28	97.71	97.57	-0.1	-2.7	-2.3	0.2
CPI excluding "Food and non-alcoholic beverages", "Gasoline" and "Diese	8,322.4	99.98	100.42	97.75	97.59	-0.2	-2.8	-2.4	0.1
CPI excluding "Rentals actually paid by tenants or subtenants"	9,145.8	99.75	100.09	96.80	96.61	-0.2	-3.5	-3.1	-0.4
CPI excluding "Housing"	7,446.7	99.59	100.06	96.69	96.54	-0.2	-3.5	-3.1	-0.1
CPI excluding "Gasoline", "Diesel", "Water" and "Electricity"	8,289.2	99.88	100.32	98.32	98.16	-0.2	-2.2	-1.7	0.9

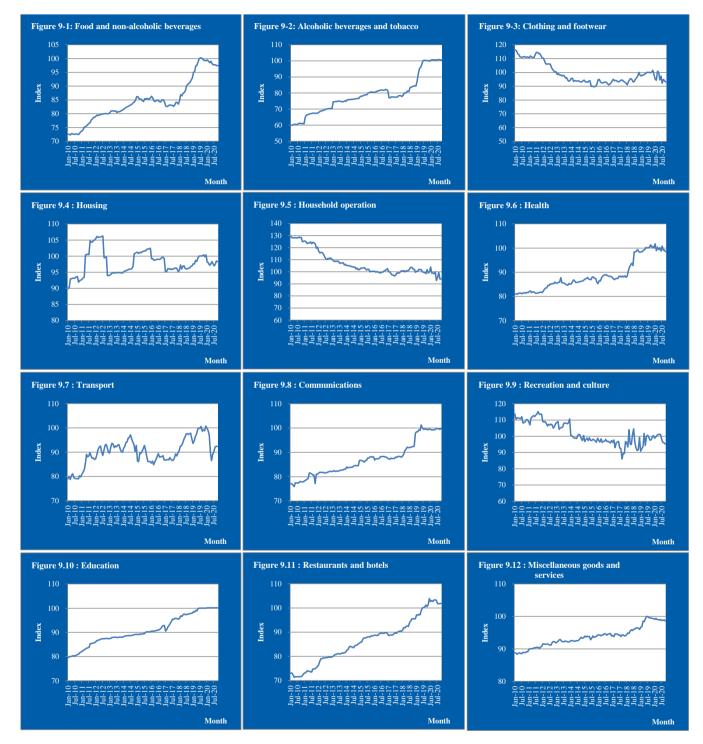
Source: Central Bureau of Statistics Aruba

APPENDIX 5

Table 20: CPI: Effect on main indices for October 2020, Total Population (Jun 2019 = 100)

DESCRIPTION	WEIGHT coefficient	Monthly Sep - Oct	Ytd Dec - Oct	End of period Oct 19 - Oct 20	Period average Oct 19 - Oct 20
CPI for "All items"	10,000.0	-0.18	-3.16	-2.84	-0.24
CPI for "Goods"	6,272.5	-0.14	-2.70	-2.94	-1.17
CPI for "Durable goods"	1,293.2	0.03	-1.03	-1.03	-0.43
CPI for "Semi-durable goods"	954.1	-0.10	-0.24	-0.33	-0.18
CPI for "Non-durable goods"	4,025.2	-0.07	-1.43	-1.58	-0.57
CPI for "Services"	3,727.5	-0.03	-0.45	0.11	0.93
CPI for "Gasoline" and "Diesel"	552.3	-0.04	-0.58	-0.61	-0.45
CPI for "Food at home"	961.4	0.00	-0.18	-0.20	0.07
CPI excluding "Food and non-alcoholic beverages"	8,874.7	-0.18	-2.97	-2.63	-0.35
CPI excluding "Gasoline" and "Diesel"	9,447.7	-0.14	-2.58	-2.23	0.21
CPI excluding "Food and non-alcoholic beverages", "Gasoline" and "Diese	8,322.4	-0.14	-2.40	-2.02	0.10
CPI excluding "Rentals actually paid by tenants or subtenants"	9,145.8	-0.18	-3.24	-2.94	-0.40
CPI excluding "Housing"	7,446.7	-0.12	-2.63	-2.29	-0.07
CPI excluding "Gasoline", "Diesel", "Water" and "Electricity"	8,289.2	-0.14	-1.80	-1.44	0.78

#### Course of Indices for 2010 up to October 2020



#### **Glossary**

#### The Consumer Price Index and Inflation

The Consumer Price Index (CPI) measures changes in prices of consumer goods and services by households. Consumer price indices can be intended to measure either the rate of price inflation or deflation as perceived by households or changes in their cost of living. In case of inflation, the percentage change is positive and it indicates a decrease in the purchasing power of the consumers.

#### Monthly percentage change

Percentage change in price indices of any aggregates of the CPI in relation to the respective price indices of the previous month.

#### Year-to-date (ytd)

Percentage change in price indices of any aggregates of the CPI in relation to the respective price indices of December prior to the year under review.

#### **End of period inflation (last 12 months)**

Percentage change in price indices of any aggregates of the CPI in relation to the respective price indices of the same month of the previous year.

#### Period average inflation (last 24 months)

The period average inflation is calculated by comparing the annual average CPI of the concerning period with the annual average CPI of the concerning period of the previous year.

#### **Effect**

Contribution of all percentage changes (of all respective aggregates) to the CPI.

#### **Core inflation**

Core inflation is a measure of inflation that excludes certain items, which face volatile price movements. Core inflation eliminates the inflation of certain products that can have temporary price shocks because these shocks can diverge from the overall trend of inflation and give a false measure of inflation. The core rate of inflation is calculated by: total inflation excluding food and energy prices. In part, that is because the core is less volatile and reflects better the relationship of supply and demand in domestic product markets. The core usually is a better measure of the basic rate of inflation that will tend to emerge in the absence of supply shocks.

#### Food & catering services

The "Food & catering services" index is composed of the indices for the "Food & Non-alcoholic beverages" sector ("Food at home") and the "Catering services" ("Food away from home") category.

#### Subsistence level

The subsistence level is the minimum level of income, which is perceived necessary to achieve an adequate standard of living in a given country. The subsistence level is usually determined by estimating the cost of all the essential resources that an average adult consumes in one month or year. This is commonly called a basic needs index, and varies according to the price of food, clothing, housing, transport and other items in the "basket". The subsistence level is monthly updated for inflation using the monthly CPI.