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### A note to the reader

The following report presents the price statistics for April 2020.

- As of February 2017, the expenditure weights are based on the Household Expenditure Survey held by the CBS during the months of May to June of 2016. In order to calculate consistent annual rates of change, the CPI had to be calculated retrospectively for 2 years. Therefore, June of 2019 was chosen as the new base period for the CPI. Subsequently, the CPI figures for 2017, 2018 and 2019 were revised accordingly.
- At the end of April 2020 the Consumer Price Index (CPI) shows a decrease of 0.7% compared to the end of March 2020. The sector which affected the CPI the most was "Transport" (-6.5%), which led to an effect of -0.80 percentage points (ppts) on the  $\Delta$  CPI of April 2020 (-0.7%).
- Compared to April 2019 the CPI increased by 1.9%. The sector which affected the CPI the most was "Recreation and culture" (20.8%).
- The period average inflation for the period April 2019 April 2020 is 4.4%, which is 0.3 ppts higher compared to the period average inflation for the period April 2018 April 2019 (4.1%).
- Utilities (Water and Electricity) did not register price changes in April 2020. The price
  of gasoline registered a decrease of 18.6% in April 2020 and caused an effect of -0.79
  ppts on the Δ CPI of April 2020. The price of diesel registered a decrease of 14.9% in
  April 2020 and had an effect of -0.05 ppts on the Δ CPI of April 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 April 2020 is 100.69; a decrease of 0.7% compared to the CPI of March 2020 (101.43). 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 inflation over the last 12 months (end of period inflation) is 1.9%, while the inflation over a period of 24 months (period average inflation) is 4.4%.

Table 1: Overview of ∆ CPI

		% Changes		Ind	ex
Period		2020 2019		Current	Last
Monthly	Mar - Apr	-0.7	0.8	100.69	101.43
Year-to-date	Dec - Apr	-1.0	2.2	100.69	101.66
Last 12 months <sup>1</sup>	Apr - Apr	1.9	4.5	100.69	98.83
Last 24 months <sup>2</sup>	Apr - Apr	4.4	4.1	100.59	96.38

Source: Central Bureau of Statistics Aruba

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

### 1.2 Changes in sector

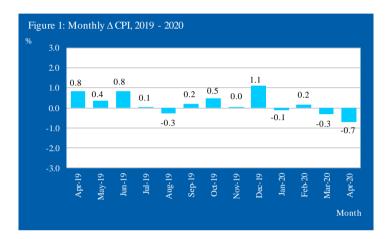
Figure 3 provides an overview of the percentage changes for the indices per sector for April 2020. The percentage change in index is further denoted as  $\Delta$  I. The largest  $\Delta$  I is observed for the "Transport" sector with a decrease of 6.5%

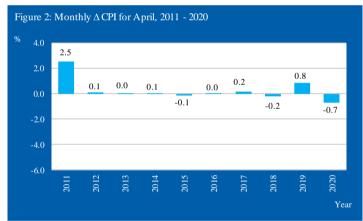
### 1.3 Changes in categories and subcategories

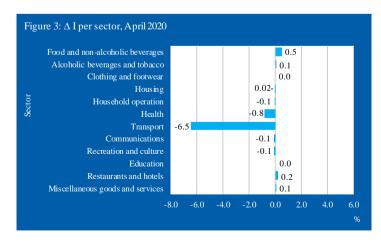
The largest positive and negative  $\Delta$  I is seen in the categories "Health products and services n.e.c." (8.8%) and "Other major durables for recreation and culture" (-29.8%). In the "Food and non-alcoholic beverages" sector an increase of 0.6% is observed for the category "Food", while the "Non-alcoholic beverages" shows a decrease of 0.1%. In the "Transport" sector the major  $\Delta$  I is observed for the category "Operation of personal transport equipment" (-10.3%). In the "Recreation and culture" sector the major  $\Delta$  I is observed for the category "Other major durables for recreation and culture" (-29.8%)<sup>1</sup>.

The categories which influenced the CPI calculation the most are "Operation of personal transport equipment", "Food" and "Other recreational items and equipment; gardens and pets" which had an effect of respectively, -0.80, 0.09 and 0.06 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 April 2019, December 2019, March 2020 and April 2020 together with corresponding weights per sector and the monthly, year-to-date (ytd), end of period and period average percentage changes for April 2020. In table 17 an overview of the effect on the monthly, year-to-date (ytd), end of period and period average CPI per sector and category for April 2020 is presented. The course of indices for 2010 - up to April 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

### 2 End of period change of the CPI

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

The CPI increased from 98.83 in April 2019 to 100.69 in April 2020, an increase of 1.9%. This  $\Delta$  CPI is the highest registered over a period of 5 years for the month April, and is 2.6 ppts lower than the  $\triangle$  CPI registered in 2019 (4.5%) (see table 2).

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

Δ СРΙ	Index
-1.6	92.32
-0.4	91.93
2.8	94.54
4.5	98.83
1.9	100.69
	-1.6 -0.4 2.8 4.5

Source: Central Bureau of Statistics Aruba

### 2.2 Changes in sector

An overview of the percentage change per sector over the period April 2019 - April 2020 is presented in table 3. The largest  $\Delta$  I is observed for the sector "Recreation and culture" with an increase of 20.8%. Furthermore, increases of 4.7%, 4.1% and 3.9% are observed for the "Alcoholic beverages and tobacco", "Food and non-alcoholic beverages" and "Restaurants and hotels" sectors, respectively. A comparison of the  $\Delta$  I's for the years 2019 and 2020 is provided in figure 4.

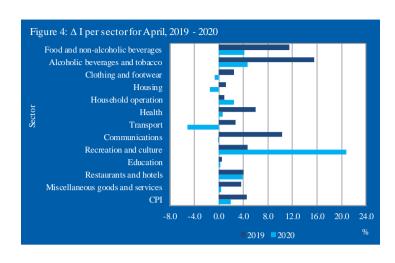
Table 3: Percentage change for April, 2019 - 2020

Sector	% Change
Food and non-alcoholic beverages	4.1
Alcoholic beverages and tobacco	4.7
Clothing and footwear	-0.7
Housing	-1.4
Household operation	2.4
Health	0.7
Transport	-5.1
Communications	-0.2
Recreation and culture	20.8
Education	0.2
Restaurants and hotels	3.9
Miscellaneous goods and services	0.3
СРІ	1.9

Source: Central Bureau of Statistics Aruba

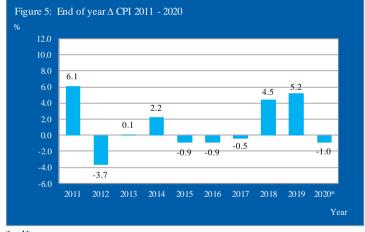
### 2.3 Changes in categories

The largest positive and negative  $\Delta$  I in categories observed over a period of one year are respectively, "Holidays" (76.1%) and "Footwear" (-25.1%). 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  $\Delta$  CPI for 2020 is calculated by comparing the CPI of April 2020 with the CPI of December 2019. The ytd  $\Delta$  CPI for April 2020 is -1.0%.



\*ytd\*

### 2.5 Period average change CPI for April 2020

The period average change CPI (Δ ACPI) for April 2020 is 4.4%. Table 4 provides an overview of the  $\Delta$  ACPI for the month April for the years 2016 to 2020. The  $\Delta$  ACPI for 2020 decreased by 0.3 ppts compared to 2019 (4.1%).

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

Period	Δ ΑСΡΙ	Index
2015-2016	-0.2	93.37
2016-2017	-0.8	92.65
2017-2018	0.0	92.61
2018-2019	4.1	96.38
2019-2020	4.4	100.59

### 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 April 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>	energy charge <sup>2</sup>				
Month	per barrel <sup>1</sup>	≤ 500 kWh	501-1000 kWh	Electricity <sup>3</sup>	Water <sup>4</sup>	Gasoline <sup>5</sup>	Diesel <sup>5</sup>
Apr-19	63.89	34.52	35.72	265.65	137.05	197.70	181.10
May-19	60.89	34.52	35.72	265.65	137.05	209.50	185.00
Jun-19	54.66	34.52	35.72	265.65	137.05	209.50	183.70
Jul-19	57.28	34.52	35.72	265.65	137.05	208.00	174.20
Aug-19	55.17	34.52	35.72	265.65	137.05	215.10	177.20
Sep-19	57.03	34.52	35.72	265.65	137.05	204.50	172.80
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

### 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 April 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 April 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 April 2020, it stayed at Afl. 31.99 cents per kWh.

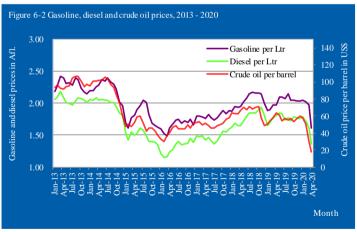
### 3.3 Water

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 April 2020, it remained at Afl. 137.05.

### 3.4 Gasoline and Diesel

The retail price of gasoline decreased by 18.6% from 197.2 cents per liter in March 2020 to 160.6 cents per liter in April 2020. In April 2020, the retail price of diesel registered a decrease of 14.9% from 160.6 cents per liter in March 2020 to 136.7 cents per liter in April 2020.





<sup>&</sup>lt;sup>1</sup> Average West Texas Intermediate (WTI) crude oil price per barrel in US\$ (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 February 2019. In April 2020 the  $\Delta$ CPI of the USA and the Netherlands were -0.7% and 0.5%. The  $\Delta$ CPI of Curação for April 2020 is not yet available.

Table 6: Monthly Δ CPI 2019 - 2020 per Country

Period	Aruba	USA	Curaçao	Netherlands
Apr-19	0.6	0.5	0.8	0.7
May-19	0.4	0.2	0.9	-0.1
Jun-19	0.8	0.0	0.8	-0.1
Jul-19	0.1	0.2	-0.2	1.0
Aug-19	-0.3	0.0	0.2	0.4
Sep-19	0.2	0.1	-0.6	0.6
Oct-19	0.5	0.2	0.0	0.4
Nov-19	0.0	-0.1	-0.4	0.1
Dec-19	1.1	-0.1	0.1	0.1
Jan-20	-0.1	0.4	0.1	-0.8
Feb-20	0.2	0.3	-0.3	0.6
Mar-20	-0.3	-0.2	n.a.	0.2
Apr-20	-0.7	-0.7	n.a.	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 April 2020. Aruba's monthly Δ CPI for April 2020 is virtually the same as the  $\Delta$  CPI of the USA.

Table 7: Overview of Δ CPI, 2020

Period		Aruba	USA
Monthly	Mar - Apr	-0.7	-0.7
Year-to-date	Dec - Apr	-1.0	-0.2
Last 12 months <sup>1</sup>	Apr - Apr	1.9	0.3
Last 24 months <sup>2</sup>	Apr - Apr	4.4	1.8

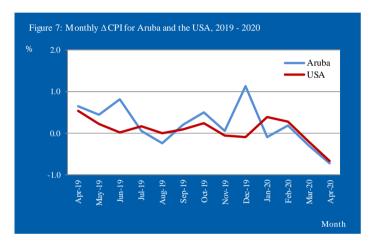
Source: Central Bureau of Statistics Aruba

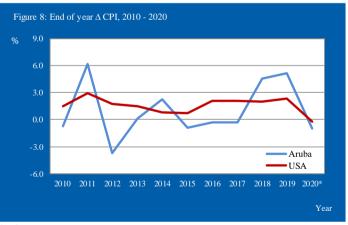
The  $\Delta$  CPI of Aruba over the last 12 months is 1.6 ppts higher compared to the USA's 12-month  $\Delta$  CPI. The  $\Delta$  CPI over the last 24 months for Aruba is 2.6 ppts higher than the  $\Delta$  CPI of the USA. The monthly inflation for both Aruba and the USA is depicted in figure 7 over 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	-0.7	1.5
2011	6.1	3.0
2012	-3.7	1.7
2013	0.1	1.5
2014	2.2	0.8
2015	-0.9	0.7
2016	-0.3	2.1
2017	-0.3	2.1
2018	4.6	2.0
2019	5.2	2.3
2020*	-1.0	-0.2

Source: Central Bureau of Statistics Aruba





\*ytd

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

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

 $<sup>^2\,</sup>$  "61% of Aruba's import by sea and air originates from the USA" (Source: Foreign Trade Statistics Report, 4th Quarter 2019).

### **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

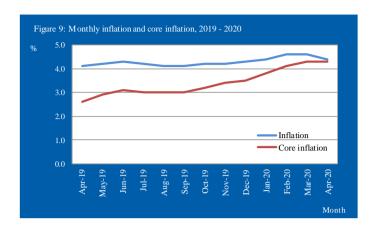
In April 2020 the core inflation (measured over the period April 2019 - 2020) was 4.3%. In April 2020 the food index was 12.1%, while the energy index shows a decrease of 2.1%.

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

				Core
Period	Inflation	Food	Energy <sup>2</sup>	Inflation
Apr-19	4.1	12.6	3.1	2.6
May-19	4.2	12.4	2.9	2.9
Jun-19	4.3	12.4	2.5	3.1
Jul-19	4.2	12.5	1.9	3.0
Aug-19	4.1	12.8	1.4	3.0
Sep-19	4.1	13.1	0.8	3.0
Oct-19	4.2	13.5	0.3	3.2
Nov-19	4.2	13.5	-0.2	3.4
Dec-19	4.3	13.2	-0.3	3.5
Jan-20	4.4	13.0	-0.5	3.8
Feb-20	4.6	13.3	-0.7	4.1
Mar-20	4.6	12.7	-1.2	4.3
Apr-20	4.4	12.1	-2.1	4.3

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 April 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 April) is 4.3%, an increase of 0.8 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.

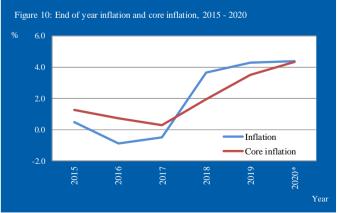
The end of year inflation and core inflation is presented in figure 10 over the period 2015 - 2020.

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	4.3	4.4
Food	1.9	-0.1	0.8	12.2	13.2	12.1
Electricity	8.5	-9.9	-14.0	0.0	0.0	-3.2
Water	0.0	0.0	0.0	0.0	0.0	0.0
Gasoline and diesel	-20.1	-7.9	9.2	13.9	-1.1	-1.8
Core inflation	1.3	0.7	0.3	1.9	3.5	4.3
	_					

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

## Consumer Price Index Aruba Food & catering services

### 6 Development of Food & catering services

### 6.1 Monthly change of Food & catering services for **April 2020**

The "Food & catering services" index showed an increase of 0.4% in April 2020, after a decrease of 0.5% in March 2020. The index for "Food at home" showed an increase of 0.5% in April, as eight (8) of the eleven (11) "Food at home" indices increased in April 2020. The "Milk, cheese and eggs" index registered the largest increase (3.6%) in April 2020. Furthermore, increases were posted in the indices for "Sugar, jam, honey and other confectionery" (1.5%), "Oils and fats" (1.4%) and "Fruit" (1.2%).

The "Potatoes and other tubers" index registered the largest decrease (-12.1%) in April 2020.

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

Table 11: Percentage change of Food for April 2020

Food	Weight	% Change	Effect
Food & catering services	1,492.8	0.4	0.099
Food at home	1,125.3	0.5	0.088
Bread and cereals	205.2	-2.3	-0.050
Meat	229.8	0.8	0.023
Fish and other seafood	56.4	0.0	0.000
Milk, cheese and eggs	140.0	3.6	0.063
Oils and fats	31.6	1.4	0.007
Fruit	72.0	1.2	0.054
Potatoes and other tubers	18.5	-12.1	-0.032
Vegetables	75.7	1.0	0.015
Sugar, jam, honey and other confectionery	49.6	1.5	0.006
Food products n.e.c.	82.7	0.3	0.003
Non-alcoholic beverages	163.9	-0.1	-0.001
Food away from home	367.5	0.2	0.011
Other goods and services	8,507.2	-1.1	-0.825
Other goods	5,147.2	-2.1	-0.874
Other services	3,360.0	0.1	0.049
СРІ	10,000.0	-0.7	-0.726

Source: Central Bureau of Statistics Aruba

In April 2020, "Food at home" and "Food away from home" as a group showed an increase in price of 0.4% compared to March 2020, and had an influence of 0.10 ppts on the CPI, while the remaining goods and services, as a group, experienced a decrease in price of 1.1%, causing an effect of -0.82 ppts on the CPI.

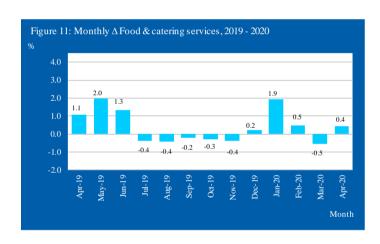
An overview of the percentage change and effect for "Food at home" and "Food away from home" for April 2020 is presented in table 12.

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

Category	Weight	% Change	Effect
Food at home	1,087.7	0.5	0.09
Food away from home	429.8	0.2	0.01
Total group	1,517.5	0.4	0.10
Remaining goods and services	8,482.5	-1.1	-0.82
CPI	10,000.0	-0.7	-0.73

Source: Central Bureau of Statistics Aruba

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



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

Over the last twelve (12) months, the "Food & catering services" has increased by 4.1%. The "Food at home" index showed an increase of 4.1%. The "Fruit" index increased by 8.1%, the largest increase among the "Food at home" food groups, while the "Potatoes and other tubers" index decreased by 11.4%, the largest decrease among the "Food at home" food groups.

The index for "Food away from home" shows an increase of 0.2% in April 2020 and has increased by 4.0% over the last twelve (12) months.

Table 18 provides an overview of the monthly and end of period percentage changes and effect for April 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 April 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 April. Over a period of one year the subsistence level increased by Afl. 93, from Afl. 4,909 in April 2019 to Afl. 5,002 in April 2020. The "Food and non-alcoholic beverages" sector shows the largest increase (Afl. 87), 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 April, 2016 - 2020

						Change in Afl.
Sector	Apr-16	Apr-17	Apr-18	Apr-19	Apr-20	Apr-19 - Apr-20
Food and non-alcoholic beverages	1,566	1,689	1,899	2,117	2,204	87
Clothing and footwear	245	254	254	260	258	-2
Housing	1,401	1,338	1,337	1,352	1,333	-19
Household operation	130	127	128	129	133	4
Health	70	71	74	78	79	1
Transport	235	246	260	268	254	-14
Communications	128	124	127	140	139	-1
Recreation and culture	176	164	161	169	204	35
Education	64	71	74	75	75	0
Miscellaneous goods and services	306	311	310	322	323	1
Total	4,320	4,395	4,625	4,909	5,002	93

Source: Central Bureau of Statistics Aruba

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

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

		Eq	Equivalence scales							
	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					
Apr-19	2,338	3,039	3,507	4,208	4,909					
May-19	2,361	3,069	3,541	4,249	4,957					
Jun-19	2,384	3,099	3,575	4,290	5,005					
Jul-19	2,379	3,093	3,569	4,283	4,997					
Aug-19	2,372	3,084	3,558	4,270	4,981					
Sep-19	2,377	3,090	3,566	4,279	4,992					
Oct-19	2,382	3,096	3,573	4,287	5,002					
Nov-19	2,375	3,087	3,562	4,274	4,987					
Dec-19	2,387	3,103	3,581	4,297	5,013					
Jan-20	2,393	3,111	3,590	4,308	5,026					
Feb-20	2,395	3,114	3,593	4,311	5,030					
Mar-20	2,385	3,101	3,578	4,293	5,009					
Apr-20	2,382	3,096	3,573	4,287	5,002					

Source: Central Bureau of Statistics Aruba

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

In April 2020 the subsistence level for a single adult household is Afl. 2,382, which represents an income deficit of Afl. 567, a decrease of Afl. 60 compared to the deficit observed one year ago (Afl. 627). This deficit is the second highest registered over a period of five years for the month April.

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

		Minimum	
Period	1 adult	wage	Surplus/deficit
2016	2,057	1,678	-379
2017	2,093	1,678	-415
2018	2,202	1,711	-491
2019	2,338	1,711	-627
2020	2,382	1,815	-567



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

DESCRIPTION	WEIGHT	2019	2019	2020	2020	Monthly	Ytd	End of period	Period average
	coefficient	Apr	Dec	Mar	Apr	Mar - Apr	Dec - Apr	Apr 19 - Apr 20	Apr 19 - Apr 20
Food and non-alcoholic beverages	1,087.7	156.48	158.32	162.10	162.92	0.5	2.9	4.1	11.7
Food			162.32			0.6	3.2	4.1	12.1
Non-alcoholic beverages	123.6	122.08	127.08	127.25	127.14	-0.1	0.0	4.1	7.8
Alcoholic beverages and tobacco	78.2	128.43	133.04	134.31	134.40	0.1	1.0	4.7	12.7
Alcoholic beverages for consumption at home			114.88			0.1	-0.4	3.4	15.6
Tobacco			203.61			0.0	4.1	7.3	7.1
Clothing and footwear		75.50	83.63	74.97	74.97	0.0	-10.4	-0.7	4.6
Clothing Footwear		78.54 65.39	89.29 64.80	82.79 48.95	82.79 48.95	0.0	-7.3 -24.5	5.4 -25.1	7.4 -6.8
Tootwear	04.0	03.33	04.80	46.55	40.55	0.0	-24.5	-23.1	-0.8
Housing	2,522.2	102.36	103.19	100.92	100.90	0.0	-2.2	-1.4	0.5
Actual rentals for housing	666.7	126.13	127.28	127.76	127.92	0.1	0.5	1.4	1.5
Imputed rentals for housing			105.29			0.0	0.0	0.4	0.9
Maintenance and repair of the dwelling		87.93	87.75	90.64	90.34	-0.3	2.9	2.7	4.1
Water supply and miscellaneous services relating to the dwelling		95.30	98.34	98.34	98.34	0.0	0.0	3.2	1.3
Electricity, gas and other fuels	840.4	96.16	96.16	87.19	87.19	0.0	-9.3	-9.3	-3.1
Household operation	929.2	75.58	76.96	77.47	77.43	-0.1	0.6	2.4	1.3
Furniture, furnishings, carpets and other floor coverings	128.8	46.13	37.81	34.85	34.85	0.0	-7.8	-24.5	-10.7
Household textiles	58.6	64.40	56.79	53.40	50.04	-6.3	-11.9	-22.3	-10.5
Household appliances	246.0	49.02	59.20	60.10	59.20	-1.5	0.0	20.8	7.3
Glassware, tableware and household utensils		64.41	63.13	63.86	60.61	-5.1	-4.0	-5.9	5.3
Tools and equipment for house and garden Goods and services for routine household maintenance and cleaning		49.10	48.86 106.60	48.36	51.47	6.4 0.6	5.3 2.5	4.8 3.2	-2.9 2.3
Goods and services for routine nousehold maintenance and cleaning	420.5	105.83	106.60	108.62	109.22	0.6	2.5	3.2	2.3
Health	223.1	85.55	83.93	86.85	86.12	-0.8	2.6	0.7	0.5
Medical products, appliances and equipment	152.3	89.49	87.78	91.26	90.02	-1.4	2.6	0.6	0.4
Out-patient services	52.4	77.72	77.72	80.51	80.01	-0.6	2.9	2.9	2.8
Other treatments		75.22	76.36	79.10	78.61	-0.6	2.9	4.5	1.9
Health products and services n.e.c.	10.5	75.22	64.78	60.37	65.72	8.8	1.4	-12.6	-10.5
Transport	1,257.4	98.29	101.85	99.68	93.25	-6.5	-8.4	-5.1	1.3
Purchase of vehicles	442.6	90.24	95.69	95.48	95.48	0.0	-0.2	5.8	2.6
Operation of personal transport equipment	763.3	103.13	105.21	102.74	92.15	-10.3	-12.4	-10.6	-0.2
Transport services	51.5	95.68	105.11	90.34	90.34	0.0	-14.0	-5.6	18.1
Communications	849.6	77.96	77.90	77.87	77.79	-0.1	-0.1	-0.2	4.8
Telephone and telefax equipment		17.47	16.36	15.76	14.16	-10.1	-13.4	-18.9	-17.0
Telephone and telefax services	805.8	81.25	81.25	81.25	81.25	0.0	0.0	0.0	5.1
Describes and culture	1 012 2	01.02	05.25	00.01	00.03	0.1	2.7	20.0	12.5
Recreation and culture  Audio-visual, photographic and information processing equipment	1,013.3 58.5	55.65	<b>95.35</b> 72.13	<b>98.91</b> 52.71	<b>98.83</b> 46.86	- <b>0.1</b> -11.1	<b>3.7</b> -35.0	<b>20.8</b> -15.8	<b>12.5</b> -9.7
Other major durables for recreation and culture		33.42		38.25	26.85	-29.8	-30.1	-19.7	-0.3
Other recreational items and equipment; gardens and pets			120.07			1.9	3.9	9.6	6.0
Recreational and cultural services	309.1	89.04	88.54	94.35	94.42	0.1	6.6	6.0	2.3
Newspapers, books and stationery	43.7	76.39	75.57	76.24	71.65	-6.0	-5.2	-6.2	4.1
Holidays	315.4	56.37	91.78	99.11	99.25	0.2	8.1	76.1	51.2
Education	98.0	100 20	109.30	100 40	100 /0	0.0	0.2	0.2	0.1
Pre primary and primary education			86.66		86.66	0.0	0.0	0.0	0.0
Secondary education			94.62			0.0	0.0	0.0	0.2
Post-secondary non-tertiary education			102.85			0.0	0.0	0.0	0.0
Tertiary education			160.49			0.0	0.0	0.0	0.0
Education not definable by level	2.5	109.74	109.74	117.06	117.06	0.0	6.7	6.7	2.4
Restaurants and hotels			119.96			0.2	-0.4	3.9	3.8
Catering services Accommodation services			120.31 107.74			0.2 0.2	0.2 -25.6	4.0 1.0	3.8 3.8
Accommodation services	12.2	13.38	107.74	13.38	00.14	0.2	-23.0	1.0	3.8
Miscellaneous goods and services	1,222.6	86.24	86.51	86.43	86.53	0.1	0.0	0.3	2.7
Personal care	427.1	100.65	101.09	101.31	101.19	-0.1	0.1	0.5	2.8
Personal effects n.e.c.			107.40			1.5	-0.7	0.5	16.7
Social protection			115.39			0.0	0.0	0.0	0.0
Insurance	610.7	68.97	68.97	69.06	69.06	0.0	0.1	0.1	0.0
СРІ	10,000.0	98.83	101.66	101.43	100.69	-0.7	-1.0	1.9	4.4
Source: Central Bureau of Statistics Aruba	20,000.0	55.05	202.00	202.43	100.00	J.,	2.0		-0.7



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

DESCRIPTION	WEIGHT coefficient	Monthly Mar - Apr	Ytd Dec - Apr	End of period Apr 19 - Apr 20	Period avera Apr 19 - Apr
Food and non-alcoholic beverages	1,087.7	0.09	0.49	0.71	1.90
Food and non-acconolic beverages	964.1	0.09	0.49	0.65	1.78
Non-alcoholic beverages	123.6	0.00	0.00	0.06	0.12
Alcoholic beverages and tobacco	78.2	0.00	0.01	0.05	0.12
Alcoholic beverages for consumption at home	62.2	0.001	0.00	0.02	0.10
Tobacco	16.0	0.000	0.01	0.02	0.02
Clothing and footwear	276.8	0.00	-0.24	-0.01	0.10
Clothing and rootwear	212.8	0.00	-0.14	0.09	0.10
Footwear	64.0	0.00	-0.10	-0.11	-0.03
Housing	2,522.2	-0.01	-0.57	-0.37	0.13
Actual rentals for housing	666.7	0.01	0.04	0.12	0.13
Imputed rentals for housing	34.4	0.00	0.00	0.00	0.00
Maintenance and repair of the dwelling	517.0	-0.02	0.13	0.13	0.19
Water supply and miscellaneous services relating to the dwelling	463.6	0.00	0.00	0.14	0.06
Electricity, gas and other fuels	840.4	0.00	-0.74	-0.76	-0.26
Household operation	929.2	0.00	0.04	0.17	0.09
Furniture, furnishings, carpets and other floor coverings	128.8	0.00	-0.04	-0.15	-0.06
Household textiles	58.6	-0.02	-0.04	-0.09	-0.04
Household appliances	246.0	-0.02	0.00	0.25	0.10
Glassware, tableware and household utensils	17.2	-0.01	0.00	-0.01	0.01
Tools and equipment for house and garden	58.2	0.02	0.01	0.01	-0.01
oods and services for routine household maintenance and cleaning	420.5	0.02	0.11	0.14	0.10
Health	223.1	-0.02	0.05	0.01	0.01
Medical products, appliances and equipment	152.3	-0.02	0.03	0.01	0.01
Out-patient services	52.4	0.00	0.01	0.01	0.01
Other treatments	7.8	0.00	0.00	0.00	0.00
Health products and services n.e.c.	10.5	0.01	0.00	-0.01	-0.01
Transport	1,257.4	-0.80	-1.06	-0.64	0.17
Purchase of vehicles Operation of personal transport equipment	442.6 763.3	0.00 -0.80	-0.01 -0.98	0.23 -0.85	0.11 -0.02
Transport services	51.5	0.00	-0.07	-0.03	0.07
Communications	849.6	-0.01	-0.01	-0.01	0.32
Telephone and telefax equipment	43.8	-0.01	-0.01	-0.01	-0.02
Telephone and telefax services	805.8	0.00	0.00	0.00	0.33
Recreation and culture	1,013.3	-0.01	0.35	1.74	1.05
Audio-visual, photographic and information processing equipment	58.5	-0.03	-0.15	-0.05	-0.04
Other major durables for recreation and culture	20.0	-0.02	-0.02	-0.01	0.00
Other recreational items and equipment; gardens and pets	266.6	0.06	0.12	0.29	0.19
Recreational and cultural services	309.1	0.00	0.18	0.17	0.06
Newspapers, books and stationery	43.7	-0.02	-0.02	-0.02	0.01
Holidays	315.4	0.00	0.23	1.37	0.82
Fallen	00.0	0.00	0.00	0.00	0.00
Education  Pre primary and primary education	<b>98.0</b> 24.0	<b>0.00</b> 0.00	<b>0.00</b> 0.00	<b>0.00</b> 0.00	<b>0.00</b> 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	-0.02	0.20	0.20
Catering services	429.8	0.01	0.01	0.20	0.19
Accommodation services	12.2	0.00	-0.03	0.00	0.00
Miscellaneous goods and services	1,222.6	0.01	0.00	0.04	0.29
Personal care	427.1	0.00	0.00	0.02	0.12
Personal effects n.e.c.	106.6	0.02	-0.01	0.01	0.17
		0.00	0.00	0.00	0.00
Social protection	78.2	0.00			
	78.2 610.7	0.00	0.01	0.01	0.00



# 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 April 2020, Total Population (Jun 2019

		% C	hange	Ff	020, Total Population (Jun 201 Effect		
RIPTION	WEIGHT	Monthly	End of period	Monthly	End of perio		
	coefficient	Mar - Apr	Apr 19 - Apr 20	Mar - Apr	Apr 19 - Apr		
d & catering services	1,517.5	0.4	4.1	0.099	0.909		
ood at home	1,087.7	0.5	4.1	0.088	0.710		
Bread and cereals	178.1	-2.3	0.5	-0.050	0.011		
Rice	23.5	-0.8	1.5	-0.003	0.005		
Bread	72.1	-5.2	1.3	-0.052	0.012		
Pasta products	9.2	1.3	5.3	0.001	0.005		
Other cereals and cereal products	73.3	0.4	-1.4	0.001	-0.011		
Other cereals and cereal products	73.3	0.4	-1.4	0.003	-0.011		
Meat	242.5	0.8	3.4	0.023	0.102		
Bovine	67.3	1.9	3.4	0.015	0.028		
Swine	25.5	-0.7	4.5	-0.002	0.014		
Poultry	75.7	0.1	0.6	0.001	0.006		
Other meat and meat preparations	74.0	1.0	6.0	0.009	0.054		
Fish and other seafood	49.0	0.0	6.6	0.000	0.036		
Fish and seafood preparations	49.0	0.0	6.6	0.000	0.036		
Bailly always and annu	425.2	2.6	7.6	0.003	0.120		
Milk, cheese and eggs	135.3	3.6	7.6	0.063	0.130		
Cheese	55.4	-0.5	5.3	-0.004	0.041		
Eggs	16.6	34.5	44.3	0.058	0.072		
Milk	40.0	1.0	2.0	0.005	0.011		
Other milk products	23.3	1.5	3.0	0.003	0.006		
Oils and fats	32.2	1.4	6.4	0.007	0.030		
Corn oil	2.8	2.2	2.0	0.001	0.001		
Butter and margarine	9.2	0.9	7.5	0.001	0.012		
Other oils and fats	20.1	1.6	6.5	0.005	0.018		
Forest	07.6		0.4	0.054	0.262		
Fruit	97.6	1.2	8.1	0.054	0.363		
Oranges	9.4	8.2	14.6	0.010	0.017		
Bananas and plantains	19.9	5.0	5.2	0.022	0.023		
Apples	9.3	-0.2	-5.0	0.000	-0.009		
Avocado	5.0	1.2	-7.3	0.010	-0.071		
Grapes	9.2	-4.6	-3.6	-0.009	-0.007		
Nuts	11.9	0.9	7.0	0.001	0.007		
Lemons and mandarins	6.0	10.6	-12.0	0.007	-0.010		
Cherries and strawberries	8.8	6.9	21.4	0.072	0.200		
	7.7		14.0				
Melons and watermelons		-5.7		-0.049	0.102		
Papayas and pineapples	6.9	-2.3	2.5	-0.014	0.015		
Other fruits and fruit products	3.5	2.1	65.7	0.005	0.096		
Potatoes and other tubers	18.2	-12.1	-11.4	-0.032	-0.030		
Potatoes	12.2	-15.5	-16.5	-0.032	-0.036		
Other tubers	2.0	1.9	8.8	0.000	0.002		
Sweet potatoes and yucca	4.0	0.8	12.8	0.000	0.004		
Vegetables	89.1	1.0	-4.4	0.015	-0.073		
Lettuce	6.8	-2.9	-13.6	-0.002	-0.009		
Tomatoes	9.7				0.015		
		-10.5	11.0	-0.017 0.020			
Onions and garlic	18.7	3.8	-7.9		-0.049		
Celery and broccoli	15.3	2.6	-17.4	0.007	-0.063		
Other vegetables	15.3	4.1	14.8	0.009	0.029		
Other preserved or processed vegetables	8.4		6.2	-0.002	-0.003		
Frozen vegetable mixtures	14.8	-0.6	3.3	-0.001	0.006		
Sugar iam honou and other confections	42.0	1 5	47	0.006	0.010		
Sugar, jam, honey and other confectionery	42.0	1.5	4.7	0.006	0.019		
Sugar	12.1	1.3	4.9	0.001	0.005		
Jams and jellies	2.5	4.7	10.8	0.001	0.003		
Other confectionery products	27.5	1.2	4.0	0.003	0.011		
Food products n.e.c.	80.1	0.3	6.4	0.003	0.058		
-							
Other food products	80.1	0.3	6.4	0.003	0.058		
Non-alcoholic beverages	123.6	-0.1	4.1	-0.001	0.063		
Coffee and tea	20.9	1.9	0.4	0.004	0.001		
Other non-alcoholic beverages	14.6	0.9	4.1	0.002	0.001		
Soft and sports drinks	31.0	-0.5	4.7	-0.002	0.018		
Fruit juices	57.1	-0.6	4.9	-0.005	0.037		
ood away from home	429.8	0.2	4.0	0.011	0.200		
Food and beverage consumption away from home	429.8	0.2	4.0	0.011	0.200		
1 000 and beverage consumption away from nome	423.0	0.2	4.0	0.011	0.200		
er goods and services	8,482.5	-1.1	1.2	-0.825	0.972		
Other goods	4,735.8	-2.1	-2.1	-0.874	-0.881		
_							
Other services	3,746.7	0.1	5.3	0.049	1.852		



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

DESCRIPTION	WEIGHT	2019	2019	2020	2020	Monthly	Ytd	End of period	Period average
	coefficient	Apr	Dec	Mar	Apr	Mar - Apr	Dec - Apr	Apr 19 - Apr 20	Apr 19 - Apr 20
CPI for "All items"	10,000.0	98.83	101.66	101.43	100.69	-0.7	-1.0	1.9	4.4
CPI for "Goods"	6,272.5	101.42	103.52	102.50	101.13	-1.3	-2.3	-0.3	4.6
CPI for "Durable goods"	1,293.2	73.26	76.20	75.04	74.42	-0.8	-2.3	1.6	3.3
CPI for "Semi-durable goods"	954.1	75.31	79.95	76.32	76.24	-0.1	-4.6	1.2	3.4
CPI for "Non-durable goods"	4,025.2	115.05	116.46	115.91	114.08	-1.6	-2.0	-0.8	5.0
CPI for "Services"	3,727.5	95.22	99.07	99.93	100.08	0.1	1.0	5.1	4.1
CPI for "Gasoline" and "Diesel"	552.3	101.96	104.55	100.78	82.35	-18.3	-21.2	-19.2	-1.8
CPI for "Food at home"	961.4	160.88	162.32	166.57	167.51	0.6	3.2	4.1	12.1
CPI excluding "Food and non-alcoholic beverages"	8,874.7	91.80	94.75	94.02	93.10	-1.0	-1.7	1.4	3.0
CPI excluding "Gasoline" and "Diesel"	9,447.7	98.68	101.52	101.46	101.58	0.1	0.1	2.9	4.7
CPI excluding "Food and non-alcoholic beverages", "Gasoline" and "Diese	8,322.4	91.24	94.21	93.65	93.68	0.0	-0.6	2.7	3.3
CPI excluding "Rentals actually paid by tenants or subtenants"	9,145.8	96.88	99.83	99.55	98.75	-0.8	-1.1	1.9	4.6
CPI excluding "Housing"	7,446.7	97.64	101.15	101.60	100.62	-1.0	-0.5	3.1	5.8
CPI excluding "Gasoline", "Diesel", "Water" and "Electricity"	8,289.2	98.98	102.22	103.05	103.19	0.1	0.9	4.2	5.7

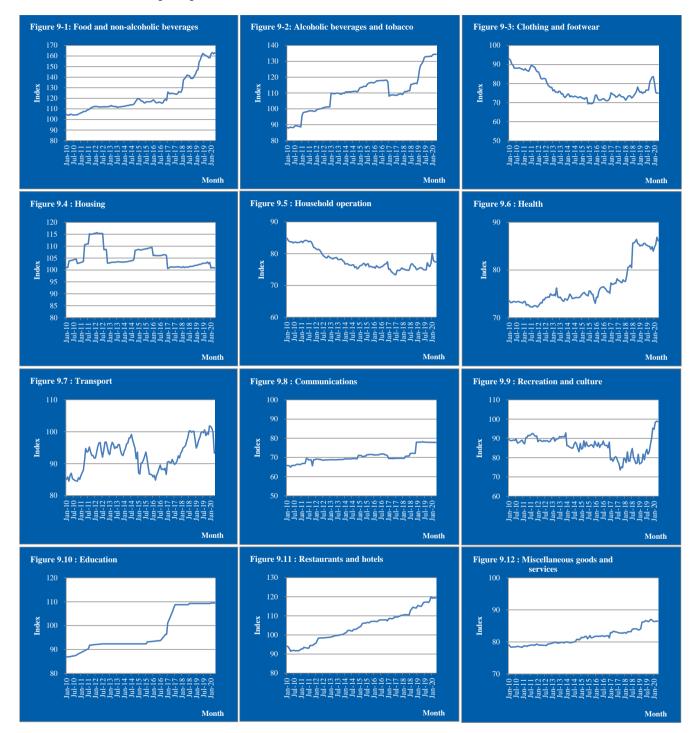
Source: Central Bureau of Statistics Aruba

APPENDIX 5

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

DESCRIPTION	WEIGHT	Monthly	Ytd	End of period	Period average
	coefficient	Mar - Apr	Dec - Apr	Apr 19 - Apr 20	Apr 19 - Apr 20
CPI for "All items"	10,000.0	-0.73	-0.95	1.88	4.37
CPI for "Goods"	6,272.5	-0.79	-1.37	-0.17	2.72
CPI for "Durable goods"	1,293.2	-0.08	-0.23	0.15	0.32
CPI for "Semi-durable goods"	954.1	-0.01	-0.23	0.06	0.16
CPI for "Non-durable goods"	4,025.2	-0.70	-0.91	-0.38	2.24
CPI for "Services"	3,727.5	0.06	0.41	2.05	1.65
CPI for "Gasoline" and "Diesel"	552.3	-0.84	-1.01	-0.91	-0.09
CPI for "Food at home"	961.4	0.09	0.49	0.65	1.78
CPI excluding "Food and non-alcoholic beverages"	8,874.7	-0.81	-1.45	1.17	2.48
CPI excluding "Gasoline" and "Diesel"	9,447.7	0.11	0.05	2.79	4.46
CPI excluding "Food and non-alcoholic beverages", "Gasoline" and "Diese	8,322.4	0.02	-0.44	2.09	2.57
CPI excluding "Rentals actually paid by tenants or subtenants"	9,145.8	-0.74	-1.00	1.76	4.24
CPI excluding "Housing"	7,446.7	-0.72	-0.39	2.25	4.24
CPI excluding "Gasoline", "Diesel", "Water" and "Electricity"	8,289.2	0.11	0.79	3.56	4.73

### Course of Indices for 2010 up to April 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.