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#### A note to the reader

The following report presents the price statistics for September 2020.

- As of February 2017, the expenditure weights are based on the Household Expenditure Survey held by the CBS during the months of September to September of 2016. In order to calculate consistent annual rates of change, the CPI had to be calculated retrospectively for 2 years. Therefore, September 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 September 2020 the Consumer Price Index (CPI) shows an increase of 0.2% compared to the end of August 2020. The sector which affected the CPI the most was "Housing" (0.8%), which led to an effect of 0.21 percentage points (ppts) on the  $\Delta$  CPI of September 2020 (0.2%).
- Compared to September 2019 the CPI increased by 0.9%. The sector which affected the CPI the most was "Recreation and culture" (17.6%).
- The period average inflation for the period September 2019 September 2020 is 2.7%, which is 1.3 ppts lower compared to the period average inflation for the period September 2018 September 2019 (4.1%).
- Utilities (Water and Electricity) did not register price changes in September 2020. The price of gasoline registered an increase of 1.2% in September 2020 and caused an effect of 0.05 ppts on the Δ CPI of September 2020. The price of diesel registered a decrease of 0.1% in September 2020 and had an insignificant effect on the Δ CPI of September 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 September 2020 is 100.91; a decrease of 0.2% compared to the CPI of August 2020 (100.66). 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 0.9%, while the inflation over a period of 24 months (period average inflation) is 2.7%.

Table 1: Overview of △ CPI

		% Changes		Ind	ex
Period		2020 2019 Curr		Current	Last
Monthly	Aug - Sep	0.2	0.2	100.91	100.66
Year-to-date	Dec - Sep	-0.7	3.4	100.91	101.66
Last 12 months <sup>1</sup>	Sep - Sep	0.9	4.4	100.91	100.00
Last 24 months <sup>2</sup>	Sep - Sep	2.7	4.1	100.71	97.74

#### Source: Central Bureau of Statistics Aruba

Figure 1 depicts the monthly  $\Delta$  CPI over a period of one year starting from September 2019, whereas the  $\Delta$  CPI for the month September 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 September 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 4.0%

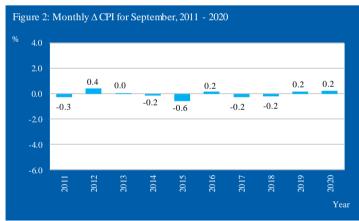
#### 1.3 Changes in categories and subcategories

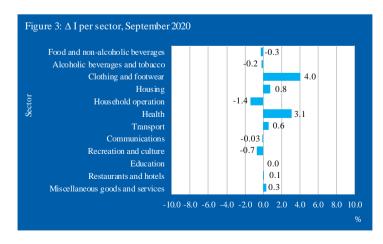
The largest positive and negative  $\Delta$  I is seen in the categories "Glassware, tableware and household utensils" (11.3%) and "Health products and services n.e.c." (-31.8%). In the "Food and non-alcoholic beverages" sector a decrease of 0.3% is observed for the category "Food", while the "Non-alcoholic beverages" shows a decrease of 0.5%. In the "Transport" sector the major  $\Delta$  I is observed for the category "Operation of personal transport equipment" (1.1%). In the "Recreation and culture" sector the major  $\Delta$  I is observed for the category "Audio-visual, photographic and information processing equipment" (-10.4%)¹.

The categories which influenced the CPI calculation the most are "Maintenance and repair of the dwelling", "Operation of personal transport equipment" and "Clothing" which had an effect of respectively, 0.20, 0.08 and 0.08 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 September 2019, December 2019, August 2020 and September 2020 together with corresponding weights per sector and the monthly, year-to-date (ytd), end of period and period average percentage changes for September 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 September 2020 is presented. The course of indices for 2010 – up to September 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 non-alcoholic 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 September 2020

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

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

The CPI increased from 100.00 in September 2019 to 100.91 in September 2020, an increase of 0.9%. This  $\Delta$  CPI is the third lowest registered over a period of 5 years for the month September, and is 3.5 ppts lower than the  $\Delta$  CPI registered in 2019 (4.4%) (see table 2).

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

Period	Δ СРΙ	Index
2015-2016	-0.7	92.96
2016-2017	-1.6	91.45
2017-2018	4.7	95.77
2018-2019	4.4	100.00
2019-2020	0.9	100.91

Source: Central Bureau of Statistics Aruba

#### 2.2 Changes in sector

An overview of the percentage change per sector over the period September 2019 - September 2020 is presented in table 3. The largest  $\Delta$  I is observed for the sector "Recreation and culture" with an increase of 17.6%. Furthermore, increases of 4.9%, 1.9% and 1.2% are observed for the "Health", "Restaurants and hotels" and "Alcoholic beverages and tobacco" sectors, respectively. A comparison of the  $\Delta$  I's for the years 2019 and 2020 is provided in figure 4.

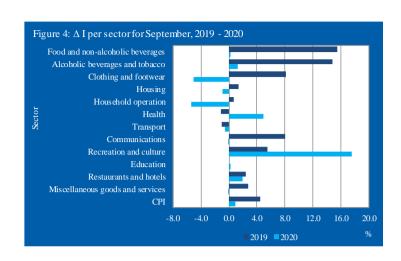
Table 3: Percentage change for September, 2019 - 2020

Sector	% Change
Food and non-alcoholic beverages	0.3
Alcoholic beverages and tobacco	1.2
Clothing and footwear	-5.0
Housing	-0.9
Household operation	-5.4
Health	4.9
Transport	-0.6
Communications	0.0
Recreation and culture	17.6
Education	0.2
Restaurants and hotels	1.9
Miscellaneous goods and services	-0.1
СРІ	0.9

Source: Central Bureau of Statistics Aruba

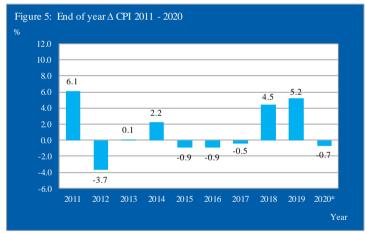
#### 2.3 Changes in categories

The largest positive and negative  $\Delta$  I in categories observed over a period of one year are respectively, "Holidays" (69.2%) and "Furniture, furnishings, carpets and other floor coverings" (-43.4%). 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 September 2020 with the CPI of December 2019. The ytd  $\Delta$  CPI for September 2020 is -0.7%.



\*ytd\*

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

The period average change CPI ( $\Delta$  ACPI) for September 2020 is 2.7%. Table 4 provides an overview of the  $\Delta$  ACPI for the month September for the years 2016 to 2020. The  $\Delta$  ACPI for 2020 decreased by 1.3 ppts compared to 2019 (4.1%).

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

Period	Δ ΑСΡΙ	Index
2015-2016	-1.0	92.93
2016-2017	-0.8	92.15
2017-2018	2.3	94.25
2018-2019	4.1	98.09
2019-2020	2.7	100.79

## COS Consumer Price Index Aruba Indices of main sectors and utilities

#### 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 September 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>	Gasoline⁵	Diesel⁵
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
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

#### 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 September 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.

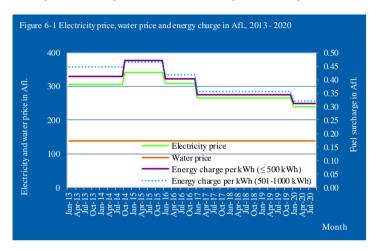
The total energy charge per kWh for a usage of electricity up to 500 kWh did not change in September 2020, it stayed at Afl. 31.09 cents per kWh. The total energy charge per kWh for a usage of electricity between 501 - 1000 kWh did not change in September 2020, it stayed at Afl. 31.99 cents per kWh.

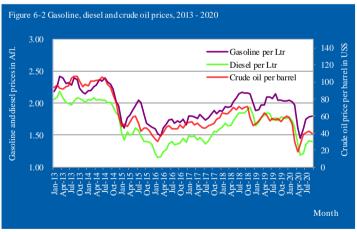
#### 3.3 Water

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 September 2020, it remained at Afl. 137.05.

#### 3.4 Gasoline and Diesel

The retail price of gasoline decreased by 1.2% from 178.1 cents per liter in August 2020 to 180.2 cents per liter in September 2020. In September 2020, the retail price of diesel registered a decrease of 0.1% from 140.7 cents per liter in August 2020 to 140.5 cents per liter in September 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 September 2019. In September 2020 the  $\Delta$  CPI of the USA, Curação and the Netherlands were 0.1%, 0.5% and -0.2%.

Table 6: Monthly Δ CPI 2019 - 2020 per Country

Period	Aruba	USA	Curaçao	Netherlands
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	0.1	0.2
Apr-20	-0.7	-0.7	0.2	0.5
May-20	-0.7	0.0	-0.2	-0.1
Jun-20	-0.2	0.5	0.3	0.3
Jul-20	0.4	0.5	0.4	1.1
Aug-20	0.6	0.3	0.7	-0.5
Sep-20	0.2	0.1	0.5	-0.2

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 September 2020. Aruba's monthly  $\Delta$  CPI for September 2020 is 0.1 ppt higher than the  $\Delta$  CPI of the USA.

Table 7: Overview of Δ CPI, 2020

	Aruba	USA
Aug - Sep	0.2	0.1
Dec - Sep	-0.7	1.3
Sep - Sep	0.9	1.4
Sep - Sep	2.7	1.4
	Dec - Sep Sep - Sep	Aug - Sep 0.2 Dec - Sep -0.7 Sep - Sep 0.9

Source: Central Bureau of Statistics Aruba

The  $\Delta$  CPI of Aruba over the last 12 months is 0.5 ppts lower compared to the USA's 12-month  $\Delta$  CPI. The  $\Delta$  CPI over the last 24 months for Aruba is 1.3 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.

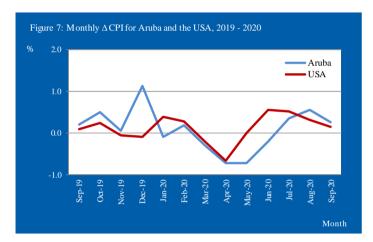
 $^2\,$  "61% of Aruba's import by sea and air originates from the USA" (Source: Foreign Trade Statistics Report, 4th Quarter 2019).

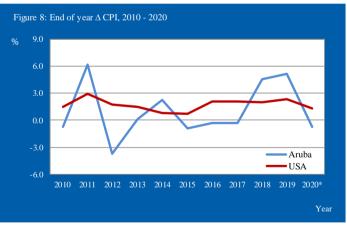
Table 8: End of year Δ CPI, 2010 - 2020

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*	-0.7	1.3

Source: Central Bureau of Statistics Aruba

\* ytd





\*ytd

**Statistics, more than just Numbers** 

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

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

#### **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

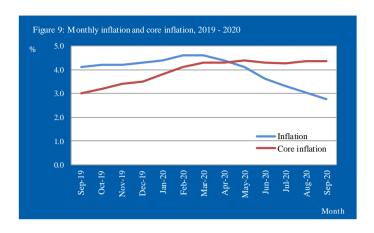
In September 2020 the core inflation (measured over the period September 2019 - 2020) was 4.4%. In September 2020 the food index was 5.6%, while the energy index shows a decrease of 6.5%.

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

				Core
Period	Inflation	Food	Energy <sup>2</sup>	Inflation
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
May-20	4.1	10.9	-3.4	4.4
Jun-20	3.6	9.5	-4.4	4.3
Jul-20	3.3	8.2	-5.1	4.3
Aug-20	3.0	6.8	-5.9	4.4
Sep-20	2.7	5.6	-6.5	4.4

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 September 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 September) is 4.4%, an increase of 0.9 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.

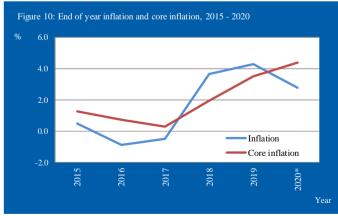
The end of year inflation and core inflation is presented in figure 10 over the period 2015 - 2020.

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	2.8
Food	1.9	-0.1	0.8	12.2	13.2	5.6
Electricity	8.5	-9.9	-14.0	0.0	0.0	-7.2
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	-10.0
Core inflation	1.3	0.7	0.3	1.9	3.5	4.4

Source: Central Bureau of Statistics Aruba

Note: the figures for the years 2014-2017 are based on the weights of Dec 2006=10(  $^*$ 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 September 2020

The "Food & catering services" index showed a decrease of 0.2% in September 2020, after a decrease of 0.3% in August 2020. The index for "Food at home" showed a decrease of 0.3% in September, as six (6) of the eleven (11) "Food at home" indices decreased in September 2020. The "Vegetables" index registered the largest decrease (-1.6%) in September 2020. Furthermore, decreases were posted in the indices for "Fruit" (-1.2%), "Sugar, jam, honey and other confectionery" (-0.6%) and "Non-alcoholic beverages" (-0.5%).

The "Potatoes and other tubers" index registered the largest increase (9.7%) in September 2020.

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

Table 11: Percentage change of Food for September 2020

Food	Weight	% Change	Effect
Food & catering services	1,492.8	-0.2	-0.047
Food at home	1,125.3	-0.3	-0.052
Bread and cereals	205.2	-0.4	-0.008
Meat	229.8	-0.1	-0.004
Fish and other seafood	56.4	1.1	0.006
Milk, cheese and eggs	140.0	0.2	0.004
Oils and fats	31.6	0.7	0.003
Fruit	72.0	-1.2	-0.054
Potatoes and other tubers	18.5	9.7	0.026
Vegetables	75.7	-1.6	-0.026
Sugar, jam, honey and other confectionery	49.6	-0.6	-0.002
Food products n.e.c.	82.7	1.2	0.012
Non-alcoholic beverages	163.9	-0.5	-0.007
Food away from home	367.5	0.1	0.005
Other goods and services	8,507.2	0.4	0.295
Other goods	5,147.2	0.7	0.287
Other services	3,360.0	0.0	0.008
СРІ	10,000.0	0.2	0.248

Source: Central Bureau of Statistics Aruba

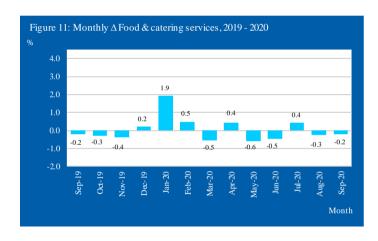
In September 2020, "Food at home" and "Food away from home" as a group showed a decrease in price of 0.2% compared to August 2020, and had an influence of -0.05 ppts on the CPI, while the remaining goods and services, as a group, experienced an increase in price of 0.4%, causing an effect of 0.29 ppts on the CPI.

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

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

Category	Weight	% Change	Effect
Food at home	1,087.7	-0.3	-0.05
Food away from home	429.8	0.1	0.01
Total group	1,517.5	-0.2	-0.05
Remaining goods and services	8,482.5	0.4	0.29
CPI	10,000.0	0.2	0.25
Source: Central Bureau of Statistic	s Aruba		

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



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

Over the last twelve (12) months, the "Food & catering services" has increased by 0.7%. The "Food at home" index showed an increase of 0.3%. The "Potatoes and other tubers" index increased by 14.3%, the largest increase among the "Food at home" food groups, while the "Fruit" index decreased by 3.4%, the largest decrease among the "Food at home" food groups.

The index for "Food away from home" shows an increase of 0.1% in September 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 September 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 September 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 September. Over a period of one year the subsistence level increased by Afl. 4, from Afl. 4,992 in September 2019 to Afl. 4,996 in September 2020. The "Recreation and culture" sector shows the largest increase (Afl. 31), 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 September, 2016 - 2020

						Change in Afl.
Sector	Sep-16	Sep-17	Sep-18	Sep-19	Sep-20	Sep-19 - Sep-20
Food and non-alcoholic beverages	1,568	1,681	1,876	2,167	2,173	6
Clothing and footwear	244	253	257	278	264	-14
Housing	1,405	1,338	1,341	1,360	1,347	-13
Household operation	131	128	131	132	125	-7
Health	69	71	79	78	82	4
Transport	241	247	272	269	267	-2
Communications	129	125	129	140	139	-1
Recreation and culture	178	152	162	171	202	31
Education	65	74	75	75	75	0
Miscellaneous goods and services	306	309	314	323	322	-1
Total	4,336	4,378	4,637	4,992	4,996	4

Source: Central Bureau of Statistics Aruba

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

Table 14: Subsistence level in Aruba (in Afl.) by family size and composition. September 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
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
May-20	2,366	3,076	3,549	4,259	4,968
Jun-20	2,366	3,076	3,550	4,259	4,969
Jul-20	2,362	3,071	3,543	4,252	4,960
Aug-20	2,371	3,083	3,557	4,268	4,979
Sep-20	2,379	3,093	3,569	4,282	4,996

Source: Central Bureau of Statistics Aruba

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

In September 2020 the subsistence level for a single adult household is Afl. 2,379, which represents an income deficit of Afl. 564, a decrease of Afl. 51 compared to the deficit observed one year ago (Afl. 615). This deficit is the second highest registered over a period of five years for the month September.

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

		Minimum	
Period	1 adult	wage	Surplus/deficit
2016	2,065	1,678	-387
2017	2,085	1,711	-374
2018	2,208	1,711	-497
2019	2,377	1,762	-615
2020	2,379	1,815	-564



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

DESCRIPTION	WEIGHT	2019	2019	2020	2020	Monthly	Ytd	End of period	Period averag
	coefficient	Sep	Dec	Aug	Sep	Aug - Sep	Dec - Sep	Sep 19 - Sep 20	Sep 19 - Sep 2
Food and non-alcoholic beverages	1,087.7	160 16	150 22	161.06	160 57	-0.3	1.4	0.3	5.5
Food and non-accondic beverages			162.32			-0.3	1.7	0.3	5.6
Non-alcoholic beverages			127.08			-0.5	-0.8	-0.2	4.5
Alcoholic beverages and tobacco			133.04			-0.2	1.2	1.2	6.8
Alcoholic beverages for consumption at home Tobacco			114.88 203.61			-0.3 0.0	-0.1 4.1	-0.2 4.3	7.0 6.4
Tobacco	10.0	203.07	203.01	211.00	211.00	0.0	4.1	4.5	0.4
Clothing and footwear	276.8	80.84	83.63	73.80	76.78	4.0	-8.2	-5.0	1.2
Clothing	212.8	85.96	89.29	80.26	83.88	4.5	-6.1	-2.4	4.6
Footwear	64.0	63.82	64.80	52.30	53.16	1.6	-18.0	-16.7	-13.3
Housing	2,522.2	102.92	103.19	101.15	101.97	0.8	-1.2	-0.9	-0.8
Actual rentals for housing			127.28			0.1	1.1	1.5	1.5
Imputed rentals for housing	34.4	105.29	105.29	105.29	105.29	0.0	0.0	0.0	0.4
Maintenance and repair of the dwelling	517.0	89.76	87.75	90.73	94.54	4.2	7.7	5.3	2.7
Water supply and miscellaneous services relating to the dwelling		95.30	98.34	98.34	98.34	0.0	0.0	3.2	2.7
Electricity, gas and other fuels	840.4	96.16	96.16	87.19	87.19	0.0	-9.3	-9.3	-7.0
Household operation	929.2	77.15	76.96	73.99	72.98	-1.4	-5.2	-5.4	0.3
Furniture, furnishings, carpets and other floor coverings	128.8	45.78	37.81	27.72	25.92	-6.5	-31.4	-43.4	-24.7
Household textiles	58.6	60.68	56.79	45.27	45.48	0.5	-19.9	-25.0	-21.1
Household appliances	246.0	55.82	59.20	51.90	46.84	-9.7	-20.9	-16.1	10.2
Glassware, tableware and household utensils		65.63	63.13	56.90	63.33	11.3	0.3	-3.5	-0.5
Tools and equipment for house and garden		46.65	48.86	52.86	58.15	10.0	19.0	24.6	2.6
Goods and services for routine household maintenance and cleaning	420.5	106.23	106.60	108.71	108.97	0.2	2.2	2.6	2.4
Health	223.1	84.96	83.93	86.49	89.16	3.1	6.2	4.9	0.9
Medical products, appliances and equipment	152.3	89.57	87.78	90.69	95.59	5.4	8.9	6.7	1.4
Out-patient services	52.4	77.72	77.72	80.00	81.04	1.3	4.3	4.3	2.0
Other treatments	7.8	76.07	76.36	78.60	79.62	1.3	4.3	4.7	3.3
Health products and services n.e.c.	10.5	61.02	64.78	64.02	43.67	-31.8	-32.6	-28.4	-15.1
Transport	1,257.4	98.78	101.85	97.60	98.22	0.6	-3.6	-0.6	-1.0
Purchase of vehicles	442.6	90.24	95.69	99.12	99.12	0.0	3.6	9.8	5.5
Operation of personal transport equipment	763.3	104.54	105.21	97.58	98.61	1.1	-6.3	-5.7	-5.2
Transport services	51.5	86.77	105.11	84.78	84.78	0.0	-19.3	-2.3	16.2
Communications	849.6	77.93	77.90	77.91	77.89	0.0	0.0	0.0	1.1
Telephone and telefax equipment		16.87	16.36	16.58	16.12	-2.8	-1.5	-4.4	-14.5
Telephone and telefax services		81.25	81.25	81.25	81.25	0.0	0.0	0.0	1.3
Recreation and culture	1,013.3		95.35	98.33	97.64	-0.7	2.4	17.6	20.2
Audio-visual, photographic and information processing equipment  Other major durables for recreation and culture		51.94 33.65	72.13 38.43	56.25 39.95	50.42 39.39	-10.4 -1.4	-30.1 2.5	-2.9 17.0	-5.3 3.5
Other recreational items and equipment; gardens and pets			120.07			-1.4	3.4	2.9	6.0
Recreational and cultural services		89.04	88.54	94.57	94.59	0.0	6.8	6.2	4.3
Newspapers, books and stationery	43.7	76.39	75.57	76.75	76.89	0.2	1.7	0.6	-1.0
Holidays		55.31	91.78	93.24	93.59	0.4	2.0	69.2	87.9
Education	00.0	100 20	109.30	100.40	100.40	0.0	0.2	0.2	0.1
Pre primary and primary education		86.66		86.66	86.66	0.0	0.0	0.0	0.0
Secondary education			94.62			0.0	0.0	0.0	0.0
Post-secondary non-tertiary education			102.85			0.0	0.0	0.0	0.0
Tertiary education	23.6	160.49	160.49	160.49	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	5.0
	442.5	117.20	110.00	110 22	110 45	0.1	0.6	4.0	2.0
Restaurants and hotels			119.96			0.1	- <b>0.4</b>	1.9	3.0
Catering services Accommodation services			120.31 107.74			0.1 0.1	0.2 -24.6	2.1 -5.3	3.0 0.3
. accommodation set vices	12.2				0				5.5
Miscellaneous goods and services	1,222.6				86.37	0.3	-0.2	-0.1	1.2
Personal care			101.09			-0.1	-0.8	-1.2	0.9
Personal effects n.e.c.			107.40			3.8	0.9	3.1	8.0
Social protection			115.39			0.0	0.0	0.0	0.0
Insurance	610.7	08.97	68.97	69.06	09.06	0.0	0.1	0.1	0.1



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

DESCRIPTION	WEIGHT coefficient	Monthly Aug - Sep	Ytd Dec - Sep	End of period Sep 19 - Sep 20	Period avera Sep 19 - Sep
Food and non-alcoholic beverages	1,087.7	-0.05	0.24	0.04	0.92
Food	964.1	-0.05	0.25	0.05	0.86
Non-alcoholic beverages	123.6	-0.01	-0.01	0.00	0.07
Alcoholic beverages and tobacco	70.3	0.00	0.01	0.01	0.07
	78.2	0.00	0.01	0.00	
Alcoholic beverages for consumption at home Tobacco	62.2 16.0	0.00	0.00 0.01	0.00	0.05 0.02
Tobacco	10.0	0.00	0.01	0.01	0.02
Clothing and footwear	276.8	0.08	-0.19	-0.11	0.03
Clothing	212.8	0.08	-0.11	-0.04	0.08
Footwear	64.0	0.01	-0.07	-0.07	-0.06
Housing	2,522.2	0.21	-0.30	-0.24	-0.20
Actual rentals for housing	666.7	0.01	0.09	0.13	0.13
Imputed rentals for housing	34.4	0.00	0.00	0.00	0.00
Maintenance and repair of the dwelling	517.0	0.20	0.35	0.25	0.12
Water supply and miscellaneous services relating to the dwelling	463.6	0.00	0.00	0.14	0.12
Electricity, gas and other fuels	840.4	0.00	-0.74	-0.75	-0.58
Household operation	929.2	-0.09	-0.36	-0.39	0.02
Furniture, furnishings, carpets and other floor coverings	128.8	-0.02	-0.15	-0.26	-0.15
Household textiles	58.6	0.00	-0.07	-0.09	-0.08
Household appliances	246.0	-0.12	-0.30	-0.22	0.13
Glassware, tableware and household utensils	17.2	0.01	0.00	0.00	0.00
Tools and equipment for house and garden	58.2	0.03	0.05	0.07	0.01
oods and services for routine household maintenance and cleaning	420.5	0.01	0.10	0.12	0.11
Health	223.1	0.06	0.11	0.09	0.02
Medical products, appliances and equipment	152.3	0.07	0.12	0.09	0.02
Out-patient services	52.4	0.01	0.02	0.02	0.01
Other treatments	7.8	0.00	0.00	0.00	0.00
Health products and services n.e.c.	10.5	-0.02	-0.02	-0.02	-0.01
Transport	1,257.4	0.08	-0.45	-0.07	-0.13
Purchase of vehicles	442.6	0.00	0.15	0.39	0.23
Operation of personal transport equipment Transport services	763.3	0.08	-0.50	-0.45	-0.42 0.07
Transport services	51.5	0.00	-0.10	-0.01	0.07
Communications	849.6	0.00	0.00	0.00	0.07
Telephone and telefax equipment	43.8	0.00	0.00	0.00	-0.01
Telephone and telefax services	805.8	0.00	0.00	0.00	0.09
Recreation and culture	1,013.3	-0.07	0.23	1.48	1.67
Audio-visual, photographic and information processing equipment	58.5	-0.03	-0.12	-0.01	-0.02
Other major durables for recreation and culture	20.0	0.00	0.00	0.01	0.00
Other recreational items and equipment; gardens and pets	266.6	-0.05	0.11	0.09	0.19
Recreational and cultural services	309.1	0.00	0.18	0.17	0.12
Newspapers, books and stationery	43.7	0.00	0.01	0.00	0.00
Holidays	315.4	0.01	0.06	1.21	1.37
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
Pre primary and primary education  Secondary education		0.00	0.00	0.00	0.00
•	43.4				
Post-secondary non-tertiary education	4.6	0.00	0.00	0.00	0.00
Tertiary education Education not definable by level	23.6 2.5	0.00 0.00	0.00 0.00	0.00 0.00	0.00
Education not deminable by level	2.5		2.30	2.50	5.55
Restaurants and hotels	442.0	0.01	-0.02	0.10	0.16
Catering services	429.8	0.01	0.01	0.11	0.16
Accommodation services	12.2	0.00	-0.03	-0.01	0.00
Miscellaneous goods and services	1,222.6	0.04	-0.02	-0.01	0.13
Personal care	427.1	-0.01	-0.03	-0.05	0.04
Personal effects n.e.c.	106.6	0.04	0.01	0.04	0.09
Social protection	78.2	0.00	0.00	0.00	0.00
Insurance	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 September 2020, Total Population (Jur

ne 18: Monthly & Yearly Changes (%) and effec	1		Change		fect
RIPTION	WEIGHT coefficient	Monthly Aug - Sep	End of period Sep 19 - Sep 20	Monthly Aug - Sep	End of perio
d & catering services	1,517.5	-0.2	0.7	-0.047	0.150
-					
Food at home	1,087.7	-0.3	0.3	-0.052	0.045
Bread and cereals	178.1	-0.4	2.4	-0.008	0.051
Rice	23.5	-0.2	3.1	-0.001	0.010
Bread	72.1	-0.8	6.4	-0.008	0.061
Pasta products	9.2	0.2	-1.7	0.000	-0.002
Other cereals and cereal products	73.3	0.0	-2.3	0.000	-0.018
Meat	242.5	-0.1	1.8	-0.004	0.056
Bovine	67.3	-0.1	5.0	-0.001	0.040
Swine	25.5	1.4	7.5	0.005	0.023
Poultry	75.7	-1.0	-4.5	-0.010	-0.045
Other meat and meat preparations	74.0	0.2	4.0	0.002	0.038
Fish and other seafood	49.0	1.1	2.8	0.006	0.015
Fish and seafood preparations	49.0	1.1	2.8	0.006	0.015
Milk, cheese and eggs	135.3	0.2	1.4	0.004	0.025
Cheese	55.4	0.4	4.0	0.004	0.032
Eggs	16.6	0.7	11.4	0.001	0.018
Milk	40.0	-0.5	-2.9	-0.003	-0.016
Other milk products	23.3	0.7	-4.1	0.001	-0.008
Oils and fats	32.2	0.7	1.9	0.003	0.009
Corn oil	2.8	0.4	3.9	0.000	0.002
Butter and margarine	9.2	0.1	4.9	0.000	0.008
Other oils and fats	20.1	1.1	-0.1	0.003	0.000
Fruit	97.6	-1.2	-3.4	-0.054	-0.159
Oranges	9.4	11.5	- <b>3.4</b> 27.5	0.016	0.033
Bananas and plantains	19.9	0.9	-8.3	0.004	-0.039
Apples	9.3	1.5	-1.2	0.002	-0.002
Avocado	5.0	-0.1	-6.2	-0.001	-0.053
Grapes	9.2	0.0	11.4	0.000	0.020
Nuts	11.9	-0.5	-1.6	-0.001	-0.002
Lemons and mandarins	6.0	0.2	-13.5	0.000	-0.010
Cherries and strawberries	8.8	-5.6	-11.7	-0.054	-0.119
Melons and watermelons	7.7	6.7	3.6	0.053	0.029
Papayas and pineapples	6.9	0.4	-7.7	0.003	-0.049
Other fruits and fruit products	3.5	-25.7	17.1	-0.077	0.032
Potatoes and other tubers	18.2	9.7	14.3	0.026	0.037
Potatoes	12.2	12.4	19.4	0.026	0.039
Other tubers	2.0	-0.9	0.4	0.000	0.000
Sweet potatoes and yucca	4.0	-1.0	-6.5	0.000	-0.002
Vegetables	89.1	-1.6	-3.1	-0.026	-0.051
Lettuce	6.8	-4.6	-19.2	-0.002	-0.012
Tomatoes	9.7	-2.8	12.7	-0.004	0.016
Onions and garlic	18.7	-3.7	-8.7	-0.022	-0.055
Celery and broccoli	15.3	-1.3	-2.8	-0.004	-0.009
Other vegetables	15.3	2.3	-0.8	0.005	-0.002
Other preserved or processed vegetables	8.4	0.0	2.6	0.000	0.003
Frozen vegetable mixtures	14.8	0.9	4.1	0.002	0.008
Sugar, jam, honey and other confectionery	42.0	-0.6	1.7	-0.002	0.007
Sugar	12.1	0.1	3.7	0.000	0.004
Jams and jellies	2.5	2.2	4.8	0.001	0.001
Other confectionery products	27.5	-1.2	0.5	-0.003	0.002
Food products n.e.c.	80.1	1.2	6.3	0.012	0.058
Other food products	80.1	1.2	6.3	0.012	0.058
New also halfs have need	122.5	0.5	0.3	0.007	0.000
Non-alcoholic beverages  Coffee and tea	<b>123.6</b> 20.9	- <b>0.5</b> -1.5	- <b>0.2</b> 0.7	- <b>0.007</b> -0.003	- <b>0.003</b> 0.001
Other non-alcoholic beverages	14.6	0.2	1.8	0.000	0.001
Soft and sports drinks	31.0	1.3	1.5	0.005	0.006
Fruit juices	57.1	-1.3	-1.8	-0.010	-0.014
Food and bourses consumption away from home	429.8	0.1	2.1	0.005	0.105
Food and beverage consumption away from home	429.8	0.1	2.1	0.005	0.105
er goods and services	8,482.5	0.4	1.0	0.295	0.760
Other goods	4,735.8	0.7	-2.0	0.287	-0.853
Other services	3,746.7	0.0	4.6	0.008	1.613
Other services	-,				



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

DESCRIPTION	WEIGHT	2019	2019	2020	2020	Monthly	Ytd	End of period	Period average
	coefficient	Sep	Dec	Aug	Sep	Aug - Sep	Dec - Sep	Sep 19 - Sep 20	Sep 19 - Sep 20
CPI for "All items"	10,000.0	100.00	101.66	100.66	100.91	0.2	-0.7	0.9	2.7
CPI for "Goods"	6,272.5	95.85	96.11	94.18	94.56	0.4	-1.6	-1.3	1.1
CPI for "Durable goods"	1,293.2	74.18	76.29	74.60	73.62	-1.3	-3.5	-0.8	2.3
CPI for "Semi-durable goods"	954.1	51.26	53.28	50.02	51.78	3.5	-2.8	1.0	1.8
CPI for "Non-durable goods"	4,025.2	113.38	112.63	110.94	111.43	0.4	-1.1	-1.7	0.8
CPI for "Services"	3,727.5	106.98	111.01	111.56	111.59	0.0	0.5	4.3	5.2
CPI for "Gasoline" and "Diesel"	552.3	87.41	87.20	75.75	76.57	1.1	-12.2	-12.4	-10.0
CPI for "Food at home"	961.4	164.97	162.78	165.94	165.47	-0.3	1.7	0.3	5.6
CPI excluding "Food and non-alcoholic beverages"	8,874.7	93.05	95.15	93.68	94.02	0.4	-1.2	1.0	2.2
CPI excluding "Gasoline" and "Diesel"	9,447.7	100.73	102.51	102.11	102.33	0.2	-0.2	1.6	3.4
CPI excluding "Food and non-alcoholic beverages", "Gasoline" and "Diese	8,322.4	93.42	95.68	94.87	95.18	0.3	-0.5	1.9	3.0
CPI excluding "Rentals actually paid by tenants or subtenants"	9,145.8	100.09	101.88	100.69	100.95	0.3	-0.9	0.9	2.9
CPI excluding "Housing"	7,446.7	99.43	101.57	100.91	100.97	0.1	-0.6	1.6	4.0
CPI excluding "Gasoline", "Diesel", "Water" and "Electricity"	8,289.2	101.10	103.12	103.58	103.83	0.2	0.7	2.7	4.6

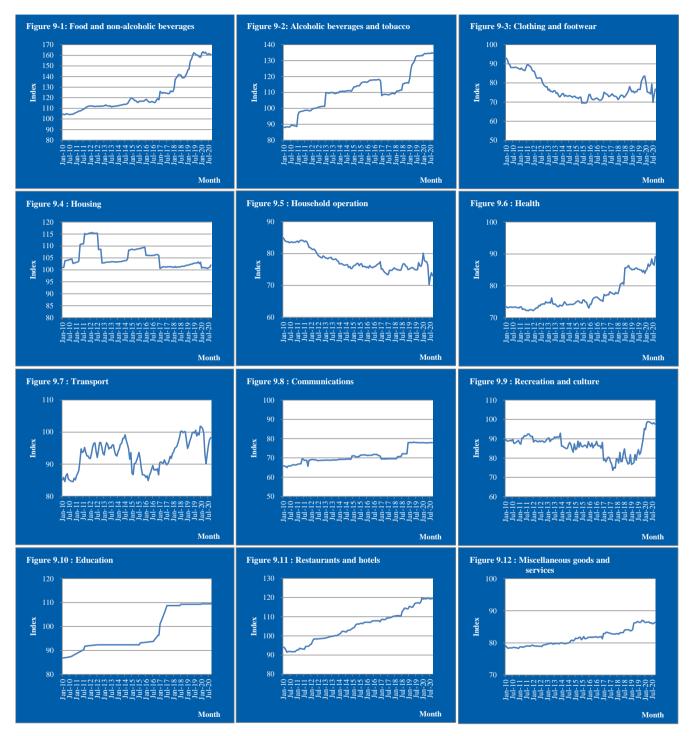
Source: Central Bureau of Statistics Aruba

APPENDIX 5

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

DESCRIPTION	WEIGHT coefficient	Monthly Aug - Sep	Ytd Dec - Sep	End of period Sep 19 - Sep 20	Period average Sep 19 - Sep 20
CPI for "All items"	10,000.0	0.25	-0.74	0.91	2.75
CPI for "Goods"	6,272.5	0.23	-0.96	-0.81	0.68
CPI for "Durable goods"	1,293.2	-0.13	-0.34	-0.07	0.22
CPI for "Semi-durable goods"	954.1	0.17	-0.14	0.05	0.09
CPI for "Non-durable goods"	4,025.2	0.19	-0.48	-0.79	0.37
CPI for "Services"	3,727.5	0.01	0.21	1.72	2.07
CPI for "Gasoline" and "Diesel"	552.3	0.05	-0.58	-0.60	-0.49
CPI for "Food at home"	961.4	-0.05	0.25	0.05	0.86
CPI excluding "Food and non-alcoholic beverages"	8,874.7	0.30	-0.98	0.87	1.83
CPI excluding "Gasoline" and "Diesel"	9,447.7	0.20	-0.16	1.51	3.24
CPI excluding "Food and non-alcoholic beverages", "Gasoline" and "Diese	8,322.4	0.25	-0.41	1.46	2.32
CPI excluding "Rentals actually paid by tenants or subtenants"	9,145.8	0.24	-0.84	0.78	2.62
CPI excluding "Housing"	7,446.7	0.04	-0.44	1.15	2.95
CPI excluding "Gasoline", "Diesel", "Water" and "Electricity"	8,289.2	0.20	0.58	2.26	3.82

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