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# A note to the reader

The following report presents the price statistics for September 2021.

- 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 September 2021 the Consumer Price Index (CPI) shows an increase of 0.4% compared to the end of August 2021. The sectors which affected the CPI the most were "Household operation" (3.6%) and "Transport" (-1.2%), which led to an effect of 0.33 and -0.16 percentage points (ppts), respecitively on the Δ CPI of September 2021 (0.4%).
- Compared to September 2020 the CPI increased by 2.2%. The sector which affected the CPI the most was "Transport" (11.2%), which led to an effect of 1.33 ppts.
- The period average inflation for the period September 2020 September 2021 is -0.7%, which is 1.1 ppts lower compared to the period average inflation for the period September 2019 September 2020 (0.4%).
- Utilities (Water and Electricity) did not register price changes in September 2021. The price of gasoline registered a decrease of 0.9% in September 2021 and had an effect of -0.04 ppts on the  $\Delta$  CPI of September 2021. The price of diesel registered a decrease of 2.0% in September 2021 and had an effect of -0.01 ppt on the  $\Delta$  CPI of September 2021.

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 2021 is 99.24; an increase of 0.4% compared to the CPI of August 2021 (98.84). An overview of the percentage change in the CPI ( $\Delta$  CPI) for different periods during 2020 and 2021 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 2.2%, while the deflation over a period of 24 months (period average inflation) is -0.7%.

Table 1: Overview of △ CPI

		% Changes		Ind	ex
Period		2021 2020		Current	Last
Monthly	Aug - Sep	0.4	-0.3	99.24	98.84
Year-to-date	Dec - Sep	2.2	-3.0	99.24	97.06
Last 12 months <sup>1</sup>	Sep - Sep	2.2	-2.3	99.24	97.14
Last 24 months <sup>2</sup>	Sep - Sep	-0.7	0.4	97.68	98.40

## Source: Central Bureau of Statistics Aruba

Figure 1 depicts the monthly  $\Delta$  CPI over a period of one year starting from September 2020, whereas the  $\Delta$  CPI for the month September for the years 2012 to 2021 is illustrated in Figure 2.

# 1.2 Changes in sector

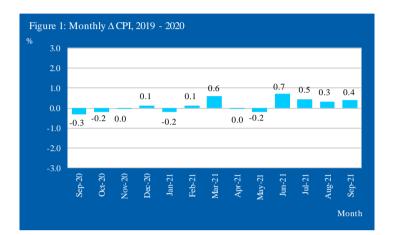
Figure 3 provides an overview of the percentage changes for the indices per sector for September 2021. The percentage change in index is further denoted as  $\Delta$  I. The largest  $\Delta$  I is observed for the "Clothing and footwear" sector with an increase of 3.7%.

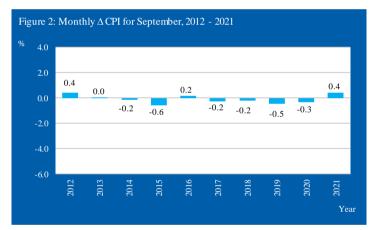
## 1.3 Changes in categories and subcategories

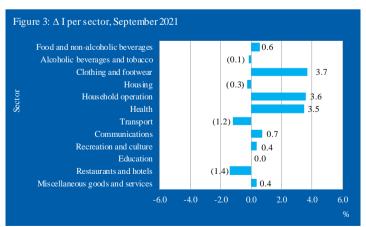
The largest positive and negative  $\Delta$  I is seen in the categories "Telephone and telefax equipment" (15.7%) and "Accommodation services" (-58.9%). In the "Food and non-alcoholic beverages" sector increases of 0.6% and 0.3% are observed for the categories "Food" and "Non-alcoholic beverages", respectively. In the "Transport" sector the major  $\Delta$  I is observed for the category "Transport services" (-16.3%). In the "Recreation and culture" sector the major  $\Delta$  I is observed for the category "Audio-visual, photographic and information processing equipment" (15.5%)<sup>1</sup>.

The categories which influenced the CPI calculation the most are "Household appliances", "Holidays" and "Accommodation services" which had an effect of respectively, 0.30, -0.10 and -0.09 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 2020, December 2020, August 2021 and

September 2021 together with corresponding weights per sector and the monthly, year-to-date (ytd), end of period and period average percentage changes for September 2021. 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 2021 is presented. The course of indices for 2010 - up to September 2021 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 September 2021

The CPI increased from 97.14 in September 2020 to 99.24 in September 2021, an increase of 2.2%. This  $\Delta$  CPI is the third highest registered over a period of 6 years for the month September, and is 4.5 ppts higher than the  $\Delta$  CPI registered in 2020 (-2.3%) (see table 2).

Table 2: End of period Δ CPI for September, 2016 - 2021

Period	Δ CPI	Index
2015-2016	-0.7	92.96
2016-2017	-1.6	91.45
2017-2018	4.7	95.77
2018-2019	3.8	99.45
2019-2020	-2.3	97.14
2020-2021	2.2	99.24

Source: Central Bureau of Statistics Aruba

# 2.2 Changes in sector

An overview of the percentage change per sector over the period September 2020 - September 2021 is presented in table 3. The largest  $\Delta$  I is observed for the sector "Transport" with an increase of 11.2%. Furthermore, increases of 5.7%, 4.6% and 1.6% are observed for the "Household operation", "Education" and "Restaurants and hotels" sectors, respectively. A comparison of the  $\Delta$  I's for the years 2020 and 2021 is provided in figure 4.

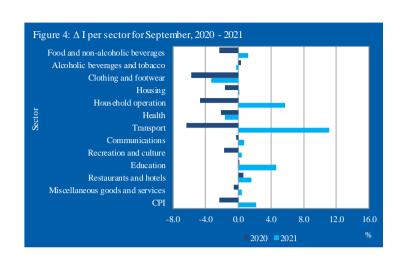
Table 3: Percentage change for September, 2020 - 2021

Sector	% Change
Food and non-alcoholic beverages	1.2
Alcoholic beverages and tobacco	-0.2
Clothing and footwear	-3.3
Housing	0.1
Household operation	5.7
Health	-1.7
Transport	11.2
Communications	0.7
Recreation and culture	0.4
Education	4.6
Restaurants and hotels	1.6
Miscellaneous goods and services	0.4
СРІ	2.2

Source: Central Bureau of Statistics Aruba

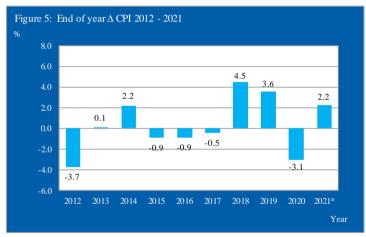
# 2.3 Changes in categories

The largest positive and negative  $\Delta$  I in categories observed over a period of one year are respectively, "Audio-visual, photographic information processing equipment" (44.9%) and "Accommodation services" (-37.8%). 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 2012 - 2020

The end of year  $\Delta$  CPI for the period 2012 - 2021 is shown in figure 5. The  $\Delta$  CPI for 2021 is calculated by comparing the CPI of September 2021 with the CPI of December 2020. The ytd  $\Delta$  CPI for September 2021 is 2.2%.



\*ytd

# 2.5 Period average change CPI for September 2021

The period average change CPI (\Delta ACPI) for September 2021 is -0.7%. Table 4 provides an overview of the  $\triangle$  ACPI for the month September for the years 2017 to 2021. The  $\Delta$  ACPI for 2021 decreased by 1.1 ppts compared to 2020 (0.9%).

Table 4: Overview of Δ ACPI for September, 2017 - 2021

Period	Δ ΑСΡΙ	Index
2016-2017	-0.8	92.15
2017-2018	2.3	94.25
2018-2019	4.0	98.05
2019-2020	0.4	98.40
2020-2021	-0.7	97.68

# 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 58% 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 2021 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, 2020 - 2021

		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	Diesel <sup>5</sup>
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
Nov-20	41.07	31.09	31.99	240.09	137.05	176.80	136.10
Dec-20	46.78	31.09	31.99	240.09	137.05	176.70	142.30
Jan-21	51.23	31.09	31.99	240.09	137.05	185.90	152.40
Feb-21	59.10	31.09	31.99	240.09	137.05	196.30	158.60
Mar-21	62.62	31.09	31.99	240.09	137.05	208.78	170.90
Apr-21	61.52	31.09	31.99	240.09	137.05	221.60	175.80
May-21	65.17	31.09	31.99	240.09	137.05	222.10	174.60
Jun-21	70.97	31.09	31.99	240.09	137.05	225.80	183.00
Jul-21	72.61	31.09	31.99	240.09	137.05	230.70	188.70
Aug-21	67.62	31.09	31.99	240.09	137.05	235.70	189.30
Sep-21	70.50	31.09	31.99	240.09	137.05	233.60	185.60

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 2021, 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.

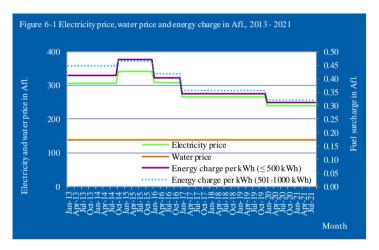
The total energy charge per kWh for a usage of electricity up to 500 kWh did not change in September 2021, it stayed at Afl. 31.09 cents per kWh. The total energy charge per kWh for a usage of electricity between 501 - 1000 kWh did not change in September 2021, it stayed at Afl. 31.99 cents per kWh.

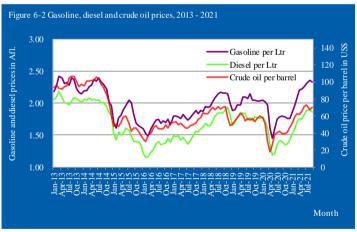
## 3.3 Water

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 2021, it remained at Afl. 137.05.

## 3.4 Gasoline and Diesel

The retail price of gasoline decreased by 0.9% from 235.7 cents per liter in August 2021 to 233.6 cents per liter in September 2021. In September 2021, the retail price of diesel registered a decrease of 2.0% from 189.3 cents per liter in August 2021 to 185.6 cents per liter in September 2021.





<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 Δ CPI of Aruba's major trading partners starting from September 2020. In September 2021 the  $\Delta$  CPI of the USA and the Netherlands were 0.3% and 0.1%, respectively. The  $\Delta$  CPI of Curação for September 2021 is not yet available.

Table 6: Monthly Δ CPI 2020 - 2021 per Country

Period	Aruba	USA	Curaçao	Netherlands
Sep-20	-0.3	0.1	0.5	-0.2
Oct-20	-0.2	0.0	0.1	0.5
Nov-20	0.0	-0.1	0.0	-0.8
Dec-20	0.1	0.1	0.1	0.2
Jan-21	-0.2	0.4	0.3	-0.2
Feb-21	0.1	0.5	0.3	0.9
Mar-21	0.6	0.7	0.4	0.3
Apr-21	0.0	0.8	0.8	0.5
May-21	-0.2	0.8	0.4	0.1
Jun-21	0.7	0.9	0.1	0.2
Jul-21	0.5	0.5	0.5	0.5
Aug-21	0.3	0.2	0.5	0.4
Sep-21	0.4	0.3	n.a.	0.1

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 2021. Aruba's monthly Δ CPI for September 2021 is 0.3 ppts higher than the  $\Delta$  CPI of the USA.

Table 7: Overview of Δ CPI, 2021

	Aruba	USA
Aug - Sep	0.4	0.1
Dec - Sep	2.2	2.7
Sep - Sep	2.2	2.7
Sep - Sep	-0.7	1.7
	Dec - Sep Sep - Sep	Aug - Sep 0.4  Dec - Sep 2.2  Sep - Sep 2.2

Source: Central Bureau of Statistics Aruba

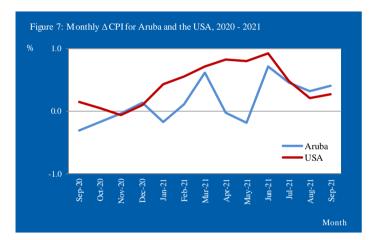
The  $\Delta$  CPI of Aruba over the last 12 months is 0.5 ppts lower compared to the USA's 12-month  $\Delta$  CPI. The  $\Delta$  CPI over the last 24 months for Aruba is 2.4 ppts lower than the  $\Delta$  CPI of the USA. The monthly inflation for both Aruba and the USA is depicted in figure 7 over a period of one year. Furthermore, an overview of the end of year  $\Delta$  CPI over the period 2011 - 2021 for Aruba and the USA is provided in table 8 and figure 8.

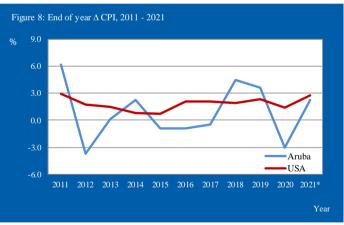
Table 8: End of year Δ CPI, 2011 - 2021

Aruba	USA
6.1	3.0
-3.7	1.7
0.1	1.5
2.2	0.8
-0.9	0.7
-0.9	2.1
-0.5	2.1
4.5	1.9
3.6	2.3
-3.1	1.4
2.2	2.7
	6.1 -3.7 0.1 2.2 -0.9 -0.9 -0.5 4.5 3.6 -3.1

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

 $<sup>^2\,</sup>$  "54% of Aruba's import by sea and air originates from the USA" (Source: Foreign Trade Statistics Report, 1st Quarter 2021).

# **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

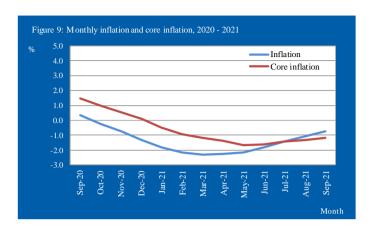
In September 2021 the core inflation (measured over the period September 2020 - 2021) was -1.2%. In September 2021 the food index was -1.7%, while the energy index shows an increase of 2.0%.

Table 9: Monthly inflation and core inflation, 2020 - 2021

		,	
			Core
Inflation	Food	Energy <sup>2</sup>	Inflation
0.4	1.6	-5.4	1.5
-0.2	0.7	-6.2	1.0
-0.8	-0.1	-6.9	0.5
-1.3	-0.8	-7.9	0.1
-1.8	-1.5	-8.0	-0.5
-2.2	-2.0	-7.9	-0.9
-2.3	-2.3	-7.5	-1.2
-2.3	-2.6	-6.1	-1.4
-2.2	-2.6	-4.1	-1.7
-1.8	-2.5	-2.4	-1.6
-1.4	-2.3	-0.9	-1.4
-1.1	-2.1	0.6	-1.3
-0.7	-1.7	2.0	-1.2
	0.4 -0.2 -0.8 -1.3 -1.8 -2.2 -2.3 -2.3 -2.2 -1.8 -1.4 -1.1	0.4 1.6 -0.2 0.7 -0.8 -0.1 -1.3 -0.8 -1.8 -1.5 -2.2 -2.0 -2.3 -2.3 -2.3 -2.6 -2.2 -2.6 -1.8 -2.5 -1.4 -2.3 -1.1 -2.1	0.4       1.6       -5.4         -0.2       0.7       -6.2         -0.8       -0.1       -6.9         -1.3       -0.8       -7.9         -1.8       -1.5       -8.0         -2.2       -2.0       -7.9         -2.3       -2.3       -7.5         -2.3       -2.6       -6.1         -2.2       -2.6       -4.1         -1.8       -2.5       -2.4         -1.4       -2.3       -0.9         -1.1       -2.1       0.6

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 2020.



# **5.3** End of year change of the core inflation, 2016 - 2021

The end of year core inflation of the total population of Aruba for the year 2021 (up to September) is -1.2%, a decrease of 1.3 ppts compared to the core inflation of 2020. Table 10 provides an overview of the end of year inflation and core inflation over the period 2016 - 2021.

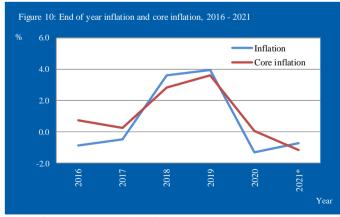
The end of year inflation and core inflation is presented in figure 10 over the period 2016 - 2021.

Table 10: End of year core inflation, 2016 - 2021

Period	2016	2017	2018	2019	2020	2021*
Inflation	-0.9	-0.5	3.6	3.9	-1.3	-0.7
Food	-0.1	0.8	7.3	10.5	-0.8	-1.7
Electricity	-9.9	-14.0	1.7	2.1	-9.2	-2.6
Water	0.0	0.0	1.7	2.1	0.5	0.0
Gasoline and diesel	-7.9	9.2	15.8	1.0	-12.3	12.3
Core inflation	0.7	0.3	2.8	3.6	0.1	-1.2

Source: Central Bureau of Statistics Aruba

Note: the figures for the years 2016-2017 are based on the weights of Dec 2006=100 \*current month



Note: the figures for the years 2016-2017 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 2021

The "Food & catering services" index showed an increase of 0.5% in September 2021, after an increase of 0.7% in August 2021. The index for "Food at home" showed an increase of 0.6% in September, as nine (9) of the eleven (11) "Food at home" indices increased in September 2021. The "Fruit" index registered the largest increase (4.7%) in September 2021. Furthermore, increases were posted in the indices for "Oils and fats" (1.8%), "Food products n.e.c." (1.5%), "Potatoes and other tubers" (0.9%) and "Vegetables" (0.5%).

The "Fish and other seafood" (-1.9%) index registered the largest decrease in September 2021. Furthermore, a decrease was posted in the index for "Milk, cheese and eggs" (-0.7%).

Table 11 provides an overview of the corresponding weights per food group together with the percentage changes and effect for September 2021.

Table 11: Percentage change of Food for September 2021

Food	Weight	% Change	Effect
Food & catering services	1,492.8	0.5	0.084
Food at home	1,125.3	0.6	0.061
Bread and cereals	205.2	0.2	0.003
Meat	229.8	0.3	0.007
Fish and other seafood	56.4	-1.9	-0.009
Milk, cheese and eggs	140.0	-0.7	-0.010
Oils and fats	31.6	1.8	0.006
Fruit	72.0	4.7	0.041
Potatoes and other tubers	18.5	0.9	0.001
Vegetables	75.7	0.5	0.003
Sugar, jam, honey and other confectionery	49.6	0.4	0.002
Food products n.e.c.	82.7	1.5	0.012
Non-alcoholic beverages	163.9	0.3	0.004
Food away from home	367.5	0.5	0.024
Other goods and services	8,507.2	0.4	0.316
Other goods	5,147.2	0.9	0.428
Other services	3,360.0	-0.3	-0.112
СРІ	10,000.0	0.4	0.401

Source: Central Bureau of Statistics Aruba

In September 2021, "Food at home" and "Food away from home" as a group showed an increase in price of 0.5% compared to August 2021, and had an effect of 0.08 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 0.32 ppts on the CPI.

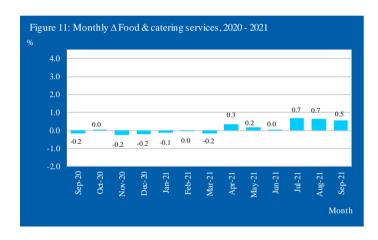
An overview of the percentage change and effect for "Food at home" and "Food away from home" for September 2021 is presented in table 12.

Table 12: Effect on the CPI of September 2021 of "Food at home" and "Food away from home"

Category	Weight	% Change	Effect
Food at home	1,087.7	0.6	0.06
Food away from home	429.8	0.5	0.02
Total group	1,517.5	0.5	0.08
Remaining goods and services	8,482.5	0.4	0.32
СРІ	10,000.0	0.4	0.40

Source: Central Bureau of Statistics Aruba

Figure 11 depicts the monthly  $\Delta$  Food and catering services over a period of one year starting from September 2020.



# 6.2 End of Period change of Food & catering services for September 2021

Over the last twelve (12) months, the "Food & catering services" has increased by 1.6%. The "Food at home" index showed an increase of 1.2%. The "Oils and fats" index increased by 6.8%, the largest increase among the "Food at home" food groups, while the "Vegetables" index decreased by 3.8%, the largest decrease among the "Food at home" food groups.

The index for "Food away from home" increased by 0.5% in September 2021 and has increased by 2.5% over the last twelve (12) months.

Table 18 provides an overview of the monthly and end of period percentage changes and effect for September 2021 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 2021

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. 57, from Afl. 4,782 in September 2020 to Afl. 4,839 in September 2021. The "Transport" sector shows the largest increase (Afl. 30), 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, 2017 - 2021

						Change in Afl.
Sector	Sep-17	Sep-18	Sep-19	Sep-20	Sep-21	Sep-20 - Sep-21
Food and non-alcoholic beverages	1,625	1,776	1,949	1,903	1,925	22
Clothing and footwear	257	262	272	257	248	-9
Housing	1,422	1,421	1,478	1,455	1,456	1
Household operation	110	115	110	105	111	6
Health	73	81	84	82	80	-2
Transport	256	283	287	269	299	30
Communications	135	141	152	152	153	1
Recreation and culture	144	155	163	160	161	1
Education	71	72	74	74	78	4
Miscellaneous goods and services	311	318	328	326	328	2
Total	4,404	4,626	4,897	4,782	4,839	57

Source: Central Bureau of Statistics Aruba

An overview of the subsistence level, for the most common family types, over the period September 2020 - September 2021 is presented in table 14.

Table 14: Subsistence level in Aruba (in Afl.) by family size and composition, September 2021 (Base period December 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-20	2,277	2,960	3,416	4,099	4,782
Oct-20	2,273	2,955	3,410	4,092	4,773
Nov-20	2,266	2,946	3,399	4,079	4,759
Dec-20	2,265	2,945	3,398	4,077	4,757
Jan-21	2,257	2,934	3,385	4,062	4,739
Feb-21	2,258	2,936	3,387	4,065	4,742
Mar-21	2,258	2,935	3,387	4,064	4,741
Apr-21	2,262	2,940	3,393	4,071	4,750
May-21	2,263	2,942	3,395	4,074	4,752
Jun-21	2,271	2,953	3,407	4,088	4,770
Jul-21	2,293	2,980	3,439	4,127	4,815
Aug-21	2,294	2,982	3,441	4,129	4,817
Sep-21	2,304	2,995	3,456	4,148	4,839

Source: Central Bureau of Statistics Aruba

# 7.3 Comparison of the subsistence level and minimum wage

In September 2021 the subsistence level for a single adult household is Afl. 2,304, which represents an income deficit of Afl. 489, an increase of Afl. 27 compared to the deficit observed one year ago (Afl. 462). This deficit is the third lowest 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 - 2021

		Minimum	
Period	1 adult	wage	Surplus/deficit
2016	2,133	1,678	-455
2017	2,097	1,711	-386
2018	2,203	1,711	-492
2019	2,332	1,762	-570
2020	2,277	1,815	-462
2021	2,304	1,815	-489



Table 16: Monthly & Yearly Changes (%) in the Consumer Price Index for September 2021, Total Population (Jun 2019 = 100)

DESCRIPTION	WEIGHT		2020	2021	2021	Monthly	Ytd	End of period	Period ave
	coefficient	Sep	Dec	Aug	Sep	Aug - Sep	Dec - Sep	Sep 20 - Sep 21	Sep 20 - Se
Food and non-alcoholic beverages	1,087.7	97.43	96.70	98.05	98.60	0.6	2.0	1.2	-1.6
Food		97.05	96.26	97.70	98.28	0.6	2.1	1.3	-1.7
Non-alcoholic beverages				100.74	101.06	0.3	0.9	0.7	-0.2
Alcoholic beverages and tobacco	79.2	100.56	00 97	100.48	100 24	-0.1	0.5	-0.2	-0.1
Alcoholic beverages and tobacco		99.35	98.46	98.85	98.60	-0.1	0.3	-0.2	-0.1
Tobacco				106.81		0.3	1.6	1.7	2.0
.030000	10.0	103.27	103.50	100.01	107.00	0.5	1.0	2.,	2.0
Clothing and footwear	276.8	94.02	93.45	87.66	90.92	3.7	-2.7	-3.3	-8.3
Clothing	212.8	95.31	94.23	89.66	93.17	3.9	-1.1	-2.3	-6.4
Footwear	64.0	89.71	90.85	81.02	83.44	3.0	-8.2	-7.0	-14.3
Housing	2,522.2	98.49	97.98	98.88	98.61	-0.3	0.6	0.1	-0.1
Actual rentals for housing				103.28	103.40	0.1	1.1	1.5	1.5
Imputed rentals for housing	34.4	100.25	98.52	99.77	98.25	-1.5	-0.3	-2.0	-2.0
Maintenance and repair of the dwelling	517.0	104.09	101.19	104.20	102.81	-1.3	1.6	-1.2	1.3
Water supply and miscellaneous services relating to the dwelling	463.6	101.35	101.35	101.35	101.35	0.0	0.0	0.0	0.2
Electricity, gas and other fuels	840.4	90.72	90.72	90.72	90.72	0.0	0.0	0.0	-2.5
Household operation	929.2	93.96	96.66	95.87	99.33	3.6	2.8	5.7	-2.8
Furniture, furnishings, carpets and other floor coverings		70.38	78.66	78.74	79.52	1.0	1.1	13.0	-14.9
Household textiles	58.6	86.43	83.92	80.67	80.02	-0.8	-4.6	-7.4	-12.1
Household appliances	246.0	91.57	97.52	94.38	106.23	12.6	8.9	16.0	-3.3
Glassware, tableware and household utensils	17.2	92.42	86.32	76.97	73.68	-4.3	-14.6	-20.3	-13.7
Tools and equipment for house and garden	58.2	110.07	114.57	118.88	124.80	5.0	8.9	13.4	11.7
Goods and services for routine household maintenance and cleaning	420.5	101.46	101.40	101.70	101.59	-0.1	0.2	0.1	0.4
Health	223 1	99.19	97.76	94.25	97.54	3.5	-0.2	-1.7	-3.5
Medical products, appliances and equipment		98.64	96.41	93.29	97.68	4.7	1.3	-1.0	-4.3
Out-patient services		100.00		94.00	95.59	1.7	-2.6	-4.4	-3.5
Other treatments		97.85	96.49	90.78	92.35	1.7	-4.3	-5.6	-5.0
Health products and services n.e.c.	10.5	104.10	116.56	111.94	109.03	-2.6	-6.5	4.7	9.6
Transport	1,257.4	92.42	an an	103.97	102 74	-1.2	13.0	11.2	3.7
Purchase of vehicles		95.19	94.83		97.27	-1.6	2.6	2.2	-1.0
Operation of personal transport equipment		91.43		107.44		0.0	19.8	17.5	7.1
Transport services	51.5	83.67	75.35	96.09	80.39	-16.3	6.7	-3.9	-3.4
• • • • • • • • • • • • • • • • • • •	040.5	00.45	00.00	00.42	400.44				
Communications		99.45	99.80		100.14	0.7	0.3	0.7	0.1
Telephone and telefax equipment Telephone and telefax services		89.35	93.97	100.12	100.44	15.7 0.0	6.9 0.0	12.4 0.1	0.7 0.1
relephone and telefax services	805.8	100.00	100.12	100.12	100.12	0.0	0.0	0.1	0.1
Recreation and culture	1,013.3	95.93	97.20	95.98	96.33	0.4	-0.9	0.4	-3.5
Audio-visual, photographic and information processing equipment	58.5	72.62	87.99	91.13	105.21	15.5	19.6	44.9	0.9
Other major durables for recreation and culture	20.0	102.81	94.07	109.30	109.88	0.5	16.8	6.9	-3.4
Other recreational items and equipment; gardens and pets	266.6	103.65	99.29	100.15	101.95	1.8	2.7	-1.6	-3.1
Recreational and cultural services	309.1	99.77	99.65	102.46	102.53	0.1	2.9	2.8	0.6
Newspapers, books and stationery	43.7	91.32	83.52	81.99	81.49	-0.6	-2.4	-10.8	-10.4
Holidays	315.4	90.18	96.84	88.11	85.04	-3.5	-12.2	-5.7	-7.8
Education	98.0	100.17	100.17	104.79	104.79	0.0	4.6	4.6	0.8
Pre primary and primary education	24.0	100.00	100.00	100.00	100.00	0.0	0.0	0.0	0.0
Secondary education	43.4	100.00	100.00	110.44	110.44	0.0	10.4	10.4	1.7
Post-secondary non-tertiary education	4.6	100.00	100.00	100.00	100.00	0.0	0.0	0.0	0.0
Tertiary education	23.6	100.00	100.00	100.00	100.00	0.0	0.0	0.0	0.0
Education not definable by level	2.5	106.67	106.67	106.67	106.67	0.0	0.0	0.0	1.6
Restaurants and hotels	442.N	101.79	102.44	104.95	103.45	-1.4	1.0	1.6	0.0
Catering services				104.39		0.5	2.2	2.5	1.3
Accommodation services		82.35		124.68		-58.9	-45.5	-37.8	-39.3
									_
Miscellaneous goods and services  Personal care	<b>1,222.6</b> 427.1	<b>98.94</b> 97.02	<b>98.43</b> 96.65	<b>98.98</b> 96.54	<b>99.36</b> 96.38	<b>0.4</b> -0.2	<b>0.9</b> -0.3	<b>0.4</b> -0.7	- <b>0.7</b> -1.5
Personal effects n.e.c.		99.03	94.62	96.53	96.59	0.1	2.1	-0.7	-3.6
Social protection				106.67		6.3	13.3	13.3	1.7
Insurance				100.07		0.0	0.0	0.0	0.0
			97.06	98.84	99.24	0.4	2.2	2.2	-0.7



Table 17: Monthly & Yearly Effect on the Consumer Price Index per sector and category for September 2021 (Jun 2019 = 100)

DESCRIPTION	WEIGHT coefficient	Monthly Aug - Sep	Ytd Dec - Sep	End of period Sep 20 - Sep 21	Period avera Sep 20 - Sep
Food and non-alcoholic beverages	1,087.7	0.06	0.21	0.13	-0.17
Food and non-accordic beverages	964.1	0.06	0.20	0.13	-0.17
Non-alcoholic beverages	123.6	0.00	0.01	0.01	0.00
Alcoholic beverages and tobacco Alcoholic beverages for consumption at home	78.2	<b>0.00</b> 0.00	0.00	<b>0.00</b> 0.00	0.00
Tobacco	62.2 16.0	0.00	0.00 0.00	0.00	0.00
Clothing and footwear	276.8	0.09	-0.07	-0.09	-0.23
Clothing	212.8	0.08	-0.02	-0.05	-0.13
Footwear	64.0	0.02	-0.05	-0.04	-0.09
Housing	2,522.2	-0.07	0.16	0.03	-0.02
Actual rentals for housing	666.7	0.01	0.08	0.10	0.10
Imputed rentals for housing	34.4	-0.01	0.00	-0.01	-0.01
Maintenance and repair of the dwelling	517.0	-0.07	0.09	-0.07	0.07
Water supply and miscellaneous services relating to the dwelling	463.6	0.00	0.00	0.00	0.01
Electricity, gas and other fuels	840.4	0.00	0.00	0.00	-0.20
Household operation	929.2	0.33	0.26	0.51	-0.26
Furniture, furnishings, carpets and other floor coverings	128.8	0.01	0.01	0.12	-0.18
Household textiles	58.6	0.00	-0.02	-0.04	-0.07
Household appliances	246.0	0.30	0.22	0.37	-0.08
Glassware, tableware and household utensils	17.2	-0.01	-0.02	-0.03	-0.02
Tools and equipment for house and garden	58.2	0.03	0.06	0.09	0.07
oods and services for routine household maintenance and cleaning	420.5	0.00	0.01	0.01	0.02
Health	223.1	0.07	-0.01	-0.04	-0.08
Medical products, appliances and equipment	152.3	0.07	0.02	-0.02	-0.07
Out-patient services	52.4	0.01	-0.01	-0.02	-0.02
Other treatments	7.8	0.00	0.00	0.00	0.00
Health products and services n.e.c.	10.5	0.00	-0.01	0.01	0.01
Transport	1,257.4	-0.16	1.53	1.33	0.45
Purchase of vehicles	442.6	-0.07	0.11	0.09	-0.05
Operation of personal transport equipment	763.3	0.00	1.40	1.26	0.51
Transport services	51.5	-0.08	0.03	-0.02	-0.02
Communications	849.6	0.06	0.03	0.06	0.01
Telephone and telefax equipment	43.8	0.06	0.03	0.05	0.00
Telephone and telefax services	805.8	0.00	0.00	0.01	0.01
Recreation and culture	1,013.3	0.04	-0.09	0.04	-0.36
Audio-visual, photographic and information processing equipment	58.5	0.08	0.10	0.20	0.01
Other major durables for recreation and culture	20.0	0.00	0.03	0.01	-0.01
Other recreational items and equipment; gardens and pets	266.6	0.05	0.07	-0.05	-0.08
Recreational and cultural services	309.1	0.00	0.09	0.09	0.02
Newspapers, books and stationery	43.7	0.00	-0.01	-0.04	-0.04
Holidays	315.4	-0.10	-0.38	-0.17	-0.25
Education	98.0	0.00	0.05	0.05	0.01
Pre primary and primary education	24.0	0.00	0.00	0.00	0.00
Secondary education	43.4	0.00	0.05	0.05	0.01
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	-0.07	0.05	0.08	0.00
Catering services	429.8	0.02	0.10	0.11	0.06
Accommodation services	12.2	-0.09	-0.05	-0.04	-0.06
Microllanaous and and and and	1 222 6	0.05	0.43	0.05	0.00
Miscellaneous goods and services  Personal care	<b>1,222.6</b> 427.1	<b>0.05</b> -0.01	<b>0.12</b> -0.01	<b>0.05</b> -0.03	- <b>0.08</b> -0.06
Personal effects n.e.c.	106.6	0.00	0.02	-0.03	-0.04
r ersonar errects fi.e.c.	78.2	0.05	0.11	0.11	0.01
Social protection					
Social protection Insurance	610.7	0.00	0.00	0.00	0.00



# COS Consumer Price Index Aruba

Table 18: Monthly & Yearly Changes (%) and effect	t in the Food 8	& catering ser	vices for Septem	ber 2021, Tota	2021, Total Population (Jui				
		% C	hange	Ef	fect				
DESCRIPTION	WEIGHT coefficient	Monthly	End of period	Monthly	End of period				
Food & catering services	1,517.5	Aug - Sep	Sep 20 - Sep 21	Aug - Sep 0.245	Sep 20 - Sep 21 0.245				
Food at home	1,087.7	0.6	1.2	0.130	0.130				
Bread and cereals Rice	<b>178.1</b> 23.5	<b>0.2</b> -0.3	1.6 3.2	<b>0.029</b> -0.001	<b>0.029</b> 0.008				
Bread	72.1	0.8	7.3	0.001	0.055				
Pasta products	9.2	0.7	0.2	0.007	0.000				
Other cereals and cereal products	73.3	-0.5	-4.6	-0.001	-0.034				
other cereals and cereal produces	, 5.5	0.5		0.005	0.031				
Meat	242.5	0.3	2.1	0.053	0.053				
Bovine	67.3	0.7	1.2	0.005	0.008				
Swine	25.5	0.3	5.5	0.001	0.015				
Poultry	75.7	0.0	2.5	0.000	0.019				
Other meat and meat preparations	74.0	0.2	1.5	0.002	0.011				
Fish and other seafood	49.0	-1.9	-1.1	-0.005	-0.005				
Fish and seafood preparations	49.0	-1.9	-1.1	-0.009	-0.005				
Milk, cheese and eggs	135.3	-0.7	1.5	0.020	0.020				
Cheese	55.4	-0.7	1.4	-0.004	0.008				
Eggs	16.6	0.8	6.1	0.001	0.010				
Milk	40.0	0.3	2.9	0.001	0.012				
Other milk products	23.3	-3.8	-4.0	-0.009	-0.009				
Oils and fats	32.2	1.8	6.8	0.022	0.022				
Corn oil	2.8	3.0	14.6	0.001	0.004				
Butter and margarine	9.2	2.2	7.6	0.002	0.007				
Other oils and fats	20.1	1.4	5.5	0.003	0.011				
other one and rate	20.2		5.5	0.003	0.011				
Fruit	97.6	4.7	2.5	0.023	0.023				
Oranges	9.4	4.5	1.9	0.005	0.002				
Bananas and plantains	19.9	9.7	-2.3	0.012	-0.003				
Apples	9.3	1.7	16.6	0.002	0.015				
Avocado	5.0	7.7	-0.6	0.003	0.000				
Grapes	9.2	-6.2	5.8	-0.006	0.005				
Nuts	11.9	-1.0	-4.9	-0.001	-0.006				
Lemons and mandarins	6.0	-6.4	-13.6	-0.003	-0.006				
Cherries and strawberries	8.8	26.7	23.5	0.026	0.024				
Melons and watermelons	7.7	-1.1	-2.7	-0.001	-0.002				
Papayas and pineapples	6.9	7.0	-1.9	0.004	-0.001				
Other fruits and fruit products	3.5	-1.5	-13.9	0.000	-0.005				
Potatoes and other tubers	18.2	0.9	-1.3	-0.002	-0.002				
Potatoes	12.2	0.2	-3.3	0.000	-0.003				
Other tubers	2.0	-0.9	1.7	0.000	0.000				
Sweet potatoes and yucca	4.0	4.2	2.3	0.001	0.001				
Vegetables	89.1	0.5	-3.8	-0.030	-0.030				
Lettuce	6.8	16.5	-15.6	0.005	-0.007				
Tomatoes	9.7	6.3	3.5	0.006	0.003				
Onions and garlic	18.7	-1.7	-1.7	-0.003	-0.003				
Celery and broccoli	15.3	-3.5	-8.4	-0.004	-0.010				
Other vegetables	15.3	0.3	-4.6	0.000	-0.007				
Other preserved or processed vegetables	8.4	-0.4	-0.3	0.000	0.000				
Frozen vegetable mixtures	14.8	-0.4	-4.9	-0.001	-0.007				
Sugar, jam, honey and other confectionery	42.0	0.4	1.5	0.007	0.007				
Sugar	12.1	-0.2	5.2	0.000	0.007				
Jams and jellies	2.5	-0.9	-8.0	0.000	-0.002				
Other confectionery products	27.5	0.9	0.7	0.002	0.002				
Food products n.e.c.	80.1	1.5	0.7	0.006	0.006				
Other food products	80.1	1.5	0.7	0.012	0.006				
Non-alcoholic beverages	123.6	0.3	0.7	0.008	0.008				
Coffee and tea	20.9	1.0	-1.2	0.002	-0.003				
Other non-alcoholic beverages	14.6	0.1	1.0	0.000	0.001				
Soft and sports drinks	31.0	0.9	3.4	0.003	0.011				
Fruit juices	57.1	-0.2	-0.2	-0.001	-0.001				
Food away from home	429.8	0.5	2.5	0.115	0.115				
Food and beverage consumption away from home	429.8	0.5	2.5	0.024	0.115				
Other goods and services	8,482.5	0.4	2.3	1.911	1.911				
Other goods Other services	4,735.8	0.9 -0.3	3.6 0.6	0.428	1.685				
Other services	3,746.7	-0.3	0.0	-0.112	0.226				
СЫ	10,000	0.4	2.2	0.401	2.156				
Source: Central Bureau of Statistics Aruba									



Table 19: CPI: Main indices for September 2021, Total Population (Jun 2019 = 100)

DESCRIPTION	WEIGHT	2020	2020	2021	2021	Monthly	Ytd	End of period	Period average
	coefficient	Sep	Dec	Aug	Sep	Aug - Sep	Dec - Sep	Sep 20 - Sep 21	Sep 20 - Sep 21
CPI for "All items"	10,000.0	97.14	97.06	98.84	99.24	0.4	2.2	2.2	-0.7
CPI for "Goods"	6,272.5	95.22	94.80	97.42	98.25	0.9	3.6	3.2	-1.1
CPI for "Durable goods"	1,293.2	93.03	95.68	96.79	100.51	3.8	5.0	8.0	-1.7
CPI for "Semi-durable goods"	954.1	95.63	92.95	90.12	91.63	1.7	-1.4	-4.2	-6.3
CPI for "Non-durable goods"	4,025.2	95.88	94.80	98.82	98.58	-0.2	4.0	2.8	0.0
CPI for "Services"	3,727.5	99.82	100.22	100.82	100.61	-0.2	0.4	0.8	-0.3
CPI for "Gasoline" and "Diesel"	552.3	85.39	83.89	111.89	110.82	-1.0	32.1	29.8	12.3
CPI for "Food at home"	961.4	97.05	96.26	97.70	98.28	0.6	2.1	1.3	-1.7
CPI excluding "Food and non-alcoholic beverages"	8,874.7	97.11	97.11	98.94	99.32	0.4	2.3	2.3	-0.6
CPI excluding "Gasoline" and "Diesel"	9,447.7	97.71	97.70	98.21	98.68	0.5	1.0	1.0	-1.3
CPI excluding "Food and non-alcoholic beverages", "Gasoline" and "Diese	8,322.4	97.75	97.83	98.23	98.69	0.5	0.9	1.0	-1.3
CPI excluding "Rentals actually paid by tenants or subtenants"	9,145.8	96.80	96.69	98.52	98.94	0.4	2.3	2.2	-0.9
CPI excluding "Housing"	7,446.7	96.69	96.75	98.83	99.45	0.6	2.8	2.9	-1.0
CPI excluding "Gasoline", "Diesel", "Water" and "Electricity"	8,289.2	98.32	98.31	98.89	99.42	0.5	1.1	1.1	-1.2

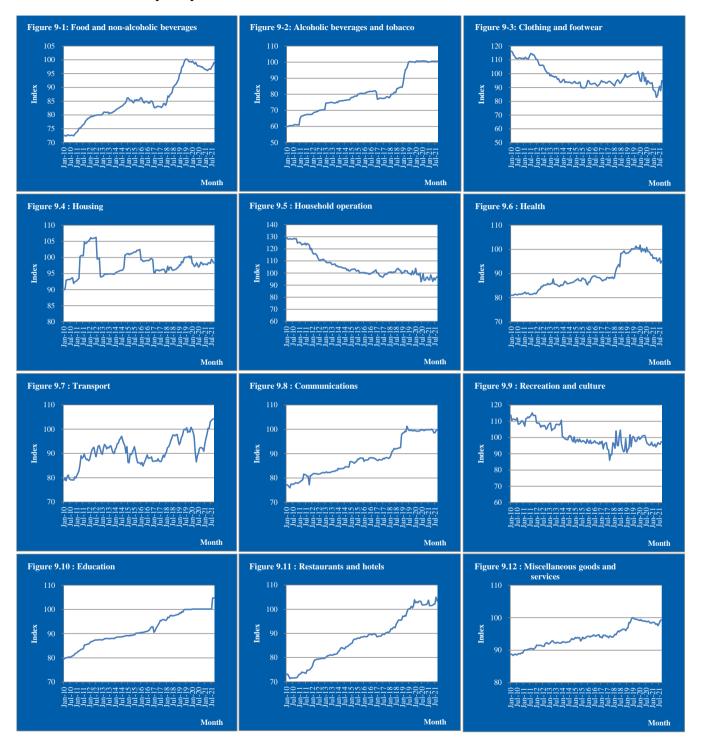
Source: Central Bureau of Statistics Aruba

**APPENDIX 5** 

Table 20: CPI: Effect on main indices for September 2021, Total Population (Jun 2019 = 100)

DESCRIPTION	WEIGHT	Monthly	Ytd	End of period	Period average
	coefficient	Aug - Sep	Dec - Sep	Sep 20 - Sep 21	Sep 20 - Sep 21
CPI for "All items"	10,000.0	0.40	2.24	2.16	-0.74
CPI for "Goods"	6,272.5	0.49	2.07	1.82	-0.61
CPI for "Durable goods"	1,293.2	0.49	0.64	1.00	-0.21
CPI for "Semi-durable goods"	954.1	0.10	-0.09	-0.26	-0.39
CPI for "Non-durable goods"	4,025.2	-0.10	1.52	1.08	0.00
CPI for "Services"	3,727.5	-0.09	0.17	0.34	-0.13
CPI for "Gasoline" and "Diesel"	552.3	-0.05	1.28	1.21	0.51
CPI for "Food at home"	961.4	0.06	0.20	0.12	-0.17
CPI excluding "Food and non-alcoholic beverages"	8,874.7	0.34	2.03	2.03	-0.57
CPI excluding "Gasoline" and "Diesel"	9,447.7	0.45	0.96	0.95	-1.24
CPI excluding "Food and non-alcoholic beverages", "Gasoline" and "Diese	8,322.4	0.39	0.75	0.82	-1.07
CPI excluding "Rentals actually paid by tenants or subtenants"	9,145.8	0.39	2.16	2.05	-0.84
CPI excluding "Housing"	7,446.7	0.47	2.08	2.13	-0.71
CPI excluding "Gasoline", "Diesel", "Water" and "Electricity"	8,289.2	0.45	0.96	0.95	-1.04

# Course of Indices for 2010 up to September 2021



# **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.