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A note to the reader

The following report presents the price statistics for November 2022.

- 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 October 2020 were revised and corrected.
- At the end of November 2022, the Consumer Price Index (CPI) shows an increase of 0.2% compared to the end of October 2022. The sector which affected the CPI the most was “Communications” (-6.5%), which led to an effect of -0.51 percentage points (ppts) on the Δ CPI of November 2022 (0.2%).
- Compared to November 2021 the CPI increased by 6.6%. The sector which affected the CPI the most was “Housing” (10.8%), which led to an effect of 2.72 ppts.
- The period average inflation for the periods December 2020 to November 2021 and December 2021 to November 2022 is 5.3%, which is 5.1 ppts higher compared to the period average inflation for the periods December 2019 to November 2020 and December 2020 to November 2021 (0.2%).
- Utilities (Water and Electricity) did not register price changes in November 2022. The price of gasoline registered an increase of 5.6% in November 2022 and had an effect of 0.27 ppts. The price of diesel registered an increase of 9.8% in November 2022 and contributed with an effect 0.04 ppts on the Δ CPI of November 2022.

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 November 2022 is 106.49; an increase of 0.2% compared to the CPI of October 2022 (106.30). An overview of the percentage change in the CPI (Δ CPI) for different periods during 2021 and 2022 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 6.6%, while the inflation over a period of 24 months (period average inflation) is 5.3%.

Table 1: Overview of Δ CPI

Period		% Changes		Index	
		2021	2022	Last	Current
Monthly	Oct - Nov	0.6	0.2	106.30	106.49
Year-to-date	Dec - Nov	2.9	5.8	100.60	106.49
Last 12 months ¹	Nov - Nov	3.1	6.6	99.90	106.49
Last 24 months ²	Nov - Nov	0.2	5.3	98.12	103.36

Source: Central Bureau of Statistics Aruba

¹ End of period inflation

² Period average inflation

Figure 1 depicts the monthly Δ CPI over a period of one year starting from November 2021, whereas the Δ CPI for the month November for the years 2013 to 2022 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 November 2022. The percentage change in index is further denoted as Δ I. The largest Δ I is observed for the “Communications” sector with a decrease of 6.5%.

1.3 Changes in categories and subcategories

The largest positive and negative Δ I is seen in the categories “Medical products, appliances and equipment” (5.5%) and “Furniture, furnishings, carpets and other floor coverings” (-9.4%). In the “Food and non-alcoholic beverages” sector increases of 1.8% and 1.1% are observed for the categories “Food” and “Non-alcoholic beverages”, respectively. In the “Housing” sector the major Δ I is observed for the category “Electricity, gas and other fuels” (1.0%). In the “Transport” sector the major Δ I is observed for the category “Transport services” (-8.3%). In the “Recreation and culture” sector the major Δ I is observed for the category “Audio-visual, photographic and information processing equipment” (-5.2%)¹.

The categories which influenced the CPI calculation the most are “Telephone and telefax services”, “Operation of personal transport

equipment” and “Food” which had an effect of respectively, -0.51, 0.25 and 0.18 ppts on the Δ 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 November 2021, December 2021, October 2022 and November 2022 together with corresponding weights per sector and the monthly, year-to-date (ytd), end of period and period average percentage changes for November 2022. 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 November 2022 is presented. The course of indices for 2010 – up to November 2022 is illustrated in Appendix 5.

Figure 1: Monthly Δ CPI, 2021 - 2022

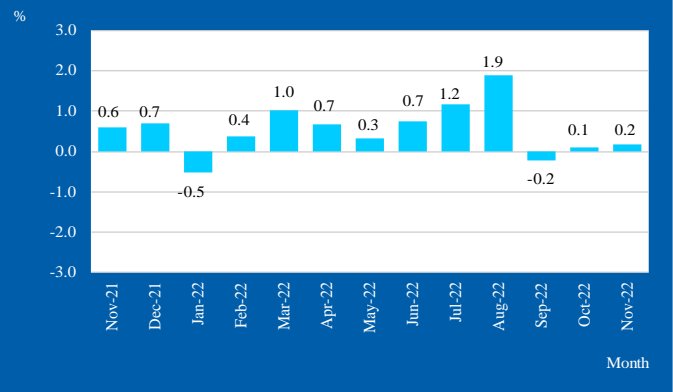


Figure 2: Monthly Δ CPI for November, 2013 - 2022

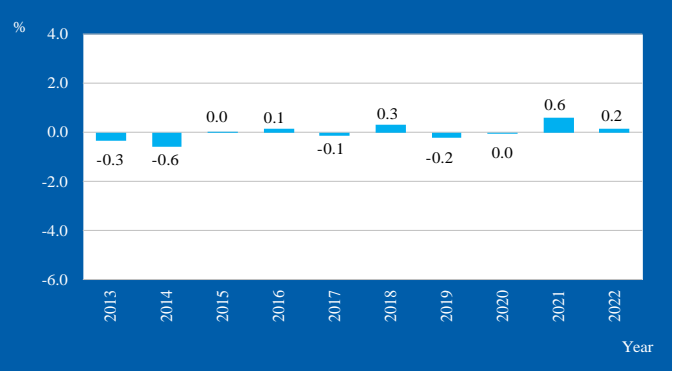
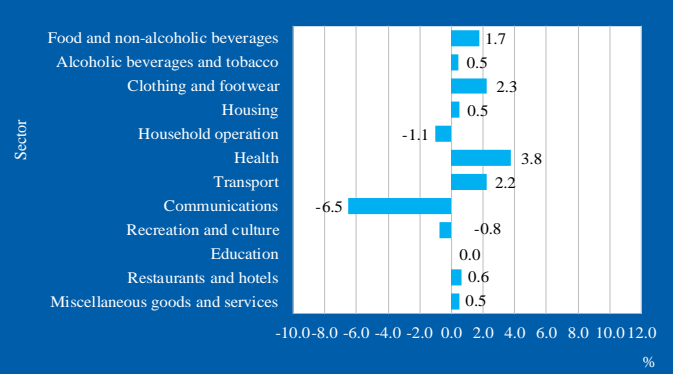


Figure 3: Δ I per sector, November 2022



¹ 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.

2 End of period change of the CPI

2.1 End of period change CPI for November 2022

The CPI increased from 99.90 in November 2021 to 106.49 in November 2022, an increase of 6.6%. This Δ CPI is the highest registered over a period of 6 years for the month November, and is 3.5 pts higher than the Δ CPI registered in 2021 (3.1%) (see table 2).

Table 2: End of period Δ CPI for November, 2017 - 2022

Period	Δ CPI	Index
2016-2017	-1.5	91.92
2017-2018	4.4	95.97
2018-2019	3.8	99.58
2019-2020	-2.7	96.93
2020-2021	3.1	99.90
2021-2022	6.6	106.49

Source: Central Bureau of Statistics Aruba

2.2 Changes in sector

An overview of the percentage change per sector over the period November 2021 - November 2022 is presented in table 3. The largest Δ I is observed for the sector "Transport" with an increase of 13.1%. Furthermore, increases of 12.7%, 10.8% and 8.0% are observed for the "Food and non-alcoholic beverages", "Housing" and "Household operation" sectors, respectively. A comparison of the Δ I's for the years 2021 and 2022 is provided in figure 4.

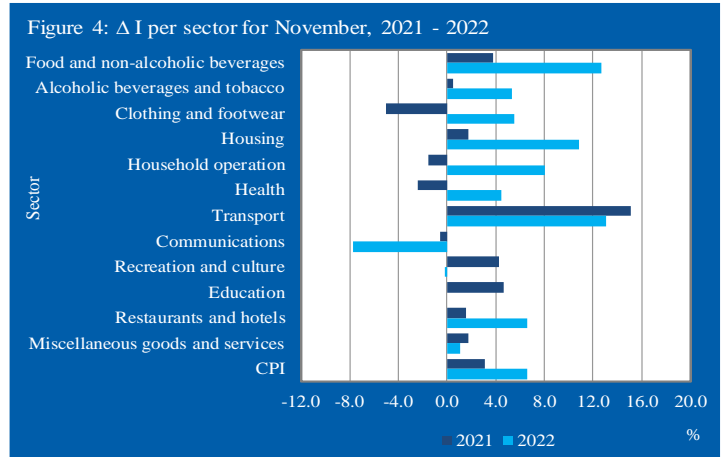
Table 3: Percentage change for November, 2021 - 2022

Sector	% Change
Food and non-alcoholic beverages	12.7
Alcoholic beverages and tobacco	5.3
Clothing and footwear	5.6
Housing	10.8
Household operation	8.0
Health	4.5
Transport	13.1
Communications	-7.7
Recreation and culture	-0.2
Education	0.0
Restaurants and hotels	6.6
Miscellaneous goods and services	1.0
CPI	6.6

Source: Central Bureau of Statistics Aruba

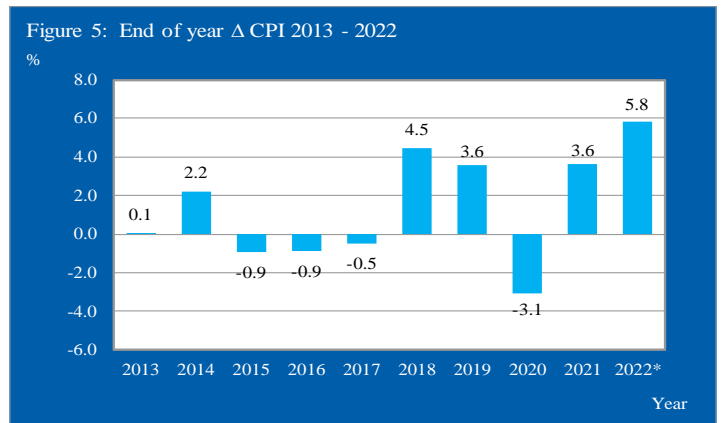
2.3 Changes in categories

The largest positive and negative Δ I in categories observed over a period of one year are respectively, "Electricity, gas and other fuels" (23.0%) and "Health products and services n.e.c." (-8.8%). 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 2013 - 2022

The end of year Δ CPI for the period 2013 - 2022 is shown in figure 5. The Δ CPI for 2022 is calculated by comparing the CPI of November 2022 with the CPI of December 2021. The ytd Δ CPI for November 2022 is 5.8%.



*ytd

2.5 Period average change CPI for November 2022

The period average change CPI (Δ ACPI) for November 2022 is 5.3%. Table 4 provides an overview of the Δ ACPI for the month November for the years 2018 to 2022. The Δ ACPI for 2022 increased by 5.1 pts compared to 2021 (0.2%).

Table 4: Overview of Δ ACPI for November, 2018 - 2022

Period	Δ ACPI	Index
2017-2018	3.2	94.89
2018-2019	4.0	98.70
2019-2020	-0.8	97.94
2020-2021	0.2	98.12
2021-2022	5.3	103.36

Source: Central Bureau of Statistics Aruba

3 Development of indices of main sectors and utilities

3.1 Indices main sectors

The four major sectors, “Housing”, “Transport”, “Food and non-alcoholic 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 November 2022 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 6-2.

Table 5: Prices of utilities, gasoline and diesel, 2020 - 2021

Month	Crude oil per barrel ¹	Total energy charge ² in Afl. cents per kWh		Electricity ³	Water ⁴	Gasoline ⁵	Diesel ⁵
		≤ 500 kWh	501-1000 kWh				
Nov-21	80.13	31.09	31.99	240.09	137.05	246.40	209.00
Dec-21	71.41	31.09	31.99	240.09	137.05	239.00	202.30
Jan-22	83.06	31.09	31.99	240.09	137.05	230.60	195.00
Feb-22	91.32	31.09	31.99	240.09	137.05	245.70	214.10
Mar-22	108.58	31.09	31.99	240.09	137.05	261.00	228.80
Apr-22	102.29	31.09	31.99	240.09	137.05	291.00	274.50
May-22	109.31	31.09	31.99	240.09	137.05	289.00	289.00
Jun-22	115.29	31.09	31.99	240.09	137.05	321.20	290.30
Jul-22	103.21	31.09	31.99	240.09	137.05	335.70	312.70
Aug-22	93.74	38.53	39.65	294.56	167.75	293.20	278.50
Sep-22	85.37	38.53	39.65	294.56	168.73	268.00	269.90
Oct-22	87.61	38.53	39.65	294.56	168.73	254.90	259.40
Nov-22	85.08	38.53	39.65	294.56	168.73	269.10	284.80

Source: Central Bureau of Statistics Aruba

¹ Average West Texas Intermediate (WTI) crude oil price per barrel in US\$ (Source: U.S. Energy Information Administration)

² Total energy charge in Afl. cents per kWh

³ Electricity price in Afl.

⁴ Water price in Afl.

⁵ Gasoline and diesel prices in Afl. cents per liter

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 November 2022, it remained at Afl. 294.56. Figure 6-1 provides an overview of the course of changes in the electricity price for the period 2014 to 2022.

The total energy charge per kWh for a usage of electricity up to 500 kWh did not change in November 2022, it stayed at Afl. 38.53 cents per kWh. The total energy charge per kWh for a usage of electricity between 501 - 1000 kWh did not change in November 2022, it stayed at Afl. 39.65 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 2014 to 2022. The water price for an average usage by households did not change in November 2022, it remained at Afl. 168.73.

3.4 Gasoline and Diesel

The retail price of gasoline increased by 5.6% from 254.9 cents per liter in October 2022 to 269.1 cents per liter in November 2022. In November 2022, the retail price of diesel registered an increase of 9.8% from 259.4 cents per liter in October 2022 to 284.8 cents per liter in November 2022.

Figure 6-1 Electricity price, water price and energy charge in Afl., 2014 - 2022

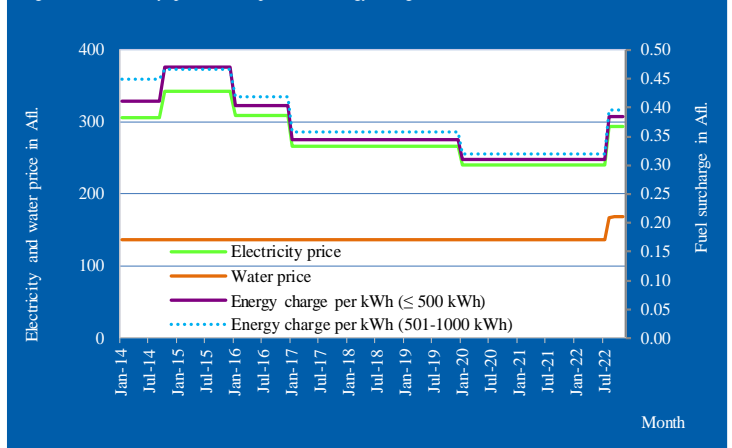
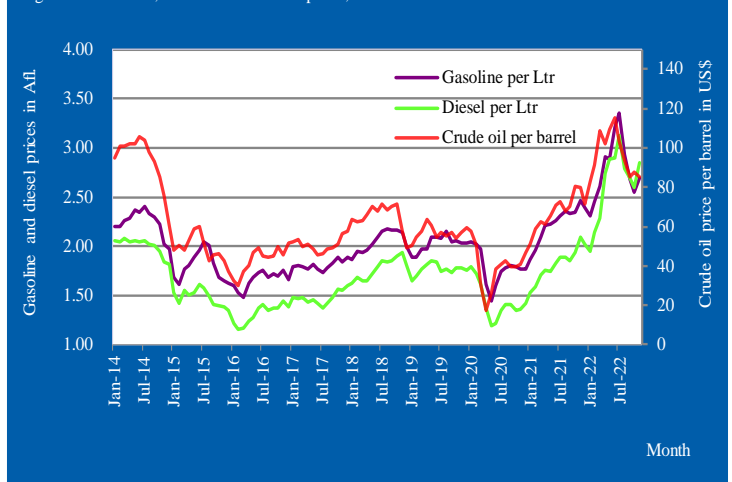


Figure 6-2 Gasoline, diesel and crude oil prices, 2014 - 2021



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 November 2021. In November 2022 the Δ CPI of the USA and the Netherlands were -0.1% and -3.0%, respectively. The Δ CPI of Curaçao for November 2022 is not yet available.

Table 6: Monthly Δ CPI 2021 - 2022 per Country

Period	Aruba	USA	Curaçao	Netherlands
Nov-21	0.6	0.5	0.7	0.9
Dec-21	0.7	0.3	0.7	0.7
Jan-22	-0.5	0.8	0.2	0.5
Feb-22	0.4	0.9	0.8	0.6
Mar-22	1.0	1.3	1.0	3.6
Apr-22	0.7	0.6	1.1	0.3
May-22	0.3	1.1	0.7	-0.6
Jun-22	0.7	1.4	1.1	0.0
Jul-22	1.2	0.0	1.0	2.1
Aug-22	1.9	0.0	1.0	2.0
Sep-22	-0.2	0.2	0.4	2.4
Oct-22	0.1	0.4	-0.1	1.1
Nov-22	0.2	-0.1	n.a.	-3.0

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

The USA is considered Aruba's largest trading partner². Table 7 provides an overview of the Δ CPI for Aruba and the USA in November 2022. Aruba's monthly Δ CPI for November 2022 is 0.3 ppts higher than the Δ CPI of the USA.

Table 7: Overview of Δ CPI, 2022

Period		Aruba	USA
Monthly	Oct - Nov	0.2	-0.1
Year-to-date	Oct - Nov	5.8	6.8
Last 12 months ¹	Oct - Nov	6.6	7.1
Last 24 months ²	Oct - Nov	5.3	8.1

Source: Central Bureau of Statistics Aruba

¹ End of period inflation

² Period average inflation

The Δ CPI of Aruba over the last 12 months is 0.5 ppts lower compared to the USA's 12-month Δ CPI. The Δ CPI over the last 24 months for Aruba is 2.8 ppts lower than the Δ 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 Δ CPI over the period 2012 - 2022 for Aruba and the USA is provided in table 8 and figure 8.

Table 8: End of year Δ CPI, 2012 - 2022

Period	Aruba	USA
2012	-3.7	1.7
2013	0.1	1.5
2014	2.2	0.8
2015	-0.9	0.7
2016	-0.9	2.1
2017	-0.5	2.1
2018	4.5	1.9
2019	3.6	2.3
2020	-3.1	1.4
2021	3.6	7.0
2022*	5.8	6.8

Source: Central Bureau of Statistics Aruba

* ytd

Figure 7: Monthly Δ CPI for Aruba and the USA, 2021 - 2022

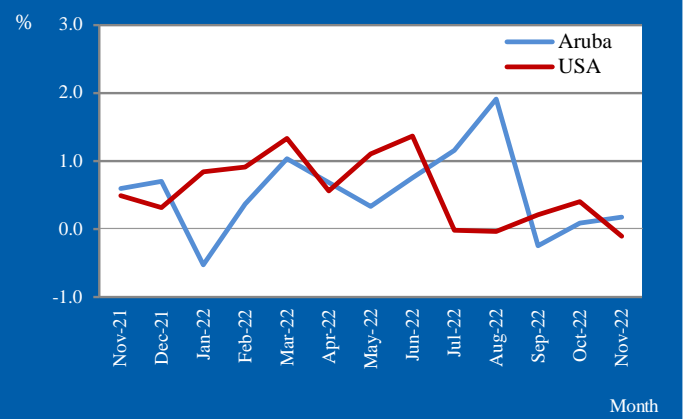
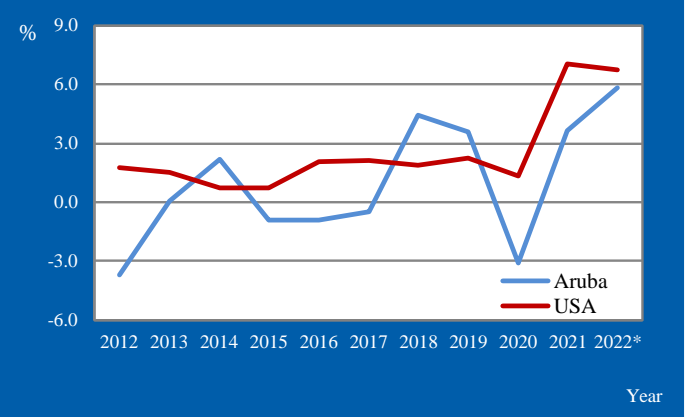


Figure 8: End of year Δ CPI, 2012 - 2022



*ytd

² "49% of Aruba's import by sea and air originates from the USA" (Source: Foreign Trade Statistics Report, 3rd 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 November 2022 the core inflation (measured over the period November 2021 - 2022) was 3.0%. In November 2022 the food index was 9.7%, while the energy index shows an increase of 13.5%.

Table 9: Monthly inflation¹ and core inflation, 2021 - 2022

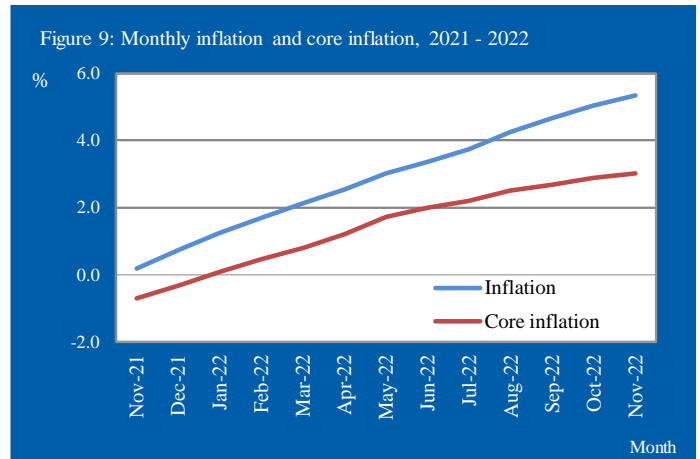
Period	Inflation	Food	Energy ²	Core Inflation
Nov-21	0.2	-0.9	5.1	-0.7
Dec-21	0.7	-0.3	6.7	-0.3
Jan-22	1.2	0.4	7.5	0.1
Feb-22	1.7	1.2	8.2	0.5
Mar-22	2.1	2.0	8.7	0.8
Apr-22	2.6	3.0	8.8	1.2
May-22	3.0	4.0	8.7	1.7
Jun-22	3.4	5.1	9.0	2.0
Jul-22	3.7	6.1	9.5	2.2
Aug-22	4.3	7.1	10.8	2.5
Sep-22	4.7	8.0	11.9	2.7
Oct-22	5.1	9.0	12.8	2.9
Nov-22	5.3	9.7	13.5	3.0

Source: Central Bureau of Statistics Aruba

¹ Period average inflation

² Energy : Electricity, water, gasoline and diesel

The monthly inflation and core inflation for Aruba is shown in figure 9 over a period of one year starting from November 2021.



5.3 End of year change of the core inflation, 2017 - 2022

The end of year core inflation of the total population of Aruba for the year 2022 (up to November) is 3.0%, an increase of 3.3 ppts compared to the core inflation of 2021. Table 10 provides an overview of the end of year inflation and core inflation over the period 2017 - 2022.

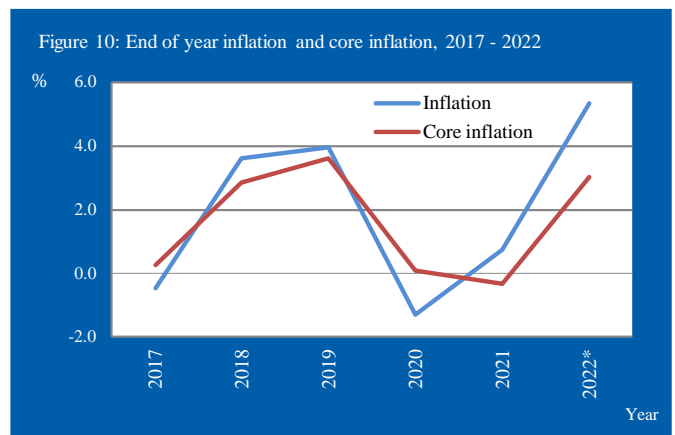
The end of year inflation and core inflation is presented in figure 10 over the period 2017 - 2022.

Table 10: End of year core inflation, 2017 - 2022

Period	2017	2018	2019	2020	2021	2022*
Inflation	-0.5	3.6	3.9	-1.3	0.7	5.3
Food	0.8	7.3	10.5	-0.8	-0.3	9.7
Electricity	-14.0	1.7	2.1	-9.2	0.0	7.6
Water	0.0	1.7	2.1	0.5	0.0	7.6
Gasoline and diesel	9.2	15.8	1.0	-12.3	25.6	27.2
Core inflation	0.3	2.8	3.6	0.1	-0.3	3.0

Source: Central Bureau of Statistics Aruba

Note: the figures for the year 2017 are based on the weights of Dec 2006=100
*current month



Note: the figures for the year 2017 are based on the weights of Dec 2006=100

6 Development of Food & catering services

6.1 Monthly change of Food & catering services for November 2022

The “Food & catering services” index showed an increase of 1.4% in November 2022, after an increase of 0.7% in October 2022. The index for “Food at home” showed an increase of 1.7% in November, as ten (10) of the eleven (11) “Food at home” indices increased in November 2022. The “Vegetables” index registered the largest increase (5.9%) in November 2022. Furthermore, other significant increases were posted in the indices for “Milk, cheese and eggs” (3.8%), “Bread and cereals” (1.7%), “Oils and fats” (1.5%), “Meat” (1.1 %) and “Non-alcoholic beverages” (1.1%). The only decrease was registered in the index of “Potatoes and other tubers” (-1.5%).

Table 11 provides an overview of the corresponding weights per food group together with the percentage changes and effect for November 2022.

Table 11: Percentage change of Food for November 2022

Food	Weight	% Change	Effect
Food & catering services	1,492.8	1.4	0.230
Food at home	1,125.3	1.7	0.199
Bread and cereals	205.2	1.7	0.032
Meat	229.8	1.1	0.031
Fish and other seafood	56.4	0.1	0.001
Milk, cheese and eggs	140.0	3.8	0.056
Oils and fats	31.6	1.5	0.006
Fruit	72.0	0.8	0.008
Potatoes and other tubers	18.5	-1.5	-0.002
Vegetables	75.7	5.9	0.046
Sugar, jam, honey and other confectionery	49.6	0.8	0.004
Food products n.e.c.	82.7	0.5	0.004
Non-alcoholic beverages	163.9	1.1	0.015
Food away from home	367.5	0.7	0.031
Other goods and services	8,507.2	-0.1	-0.052
Other goods	5,147.2	1.3	0.624
Other services	3,360.0	-1.9	-0.676
CPI	10,000.0	0.2	0.179

Source: Central Bureau of Statistics Aruba

In November 2022, “Food at home” and “Food away from home” as a group showed an increase in price of 1.4% compared to October 2022, and had an influence of 0.23 ppts on the CPI, while the remaining goods and services, as a group, experienced a decrease in price of 0.1%, causing an effect of -0.05 ppts on the CPI.

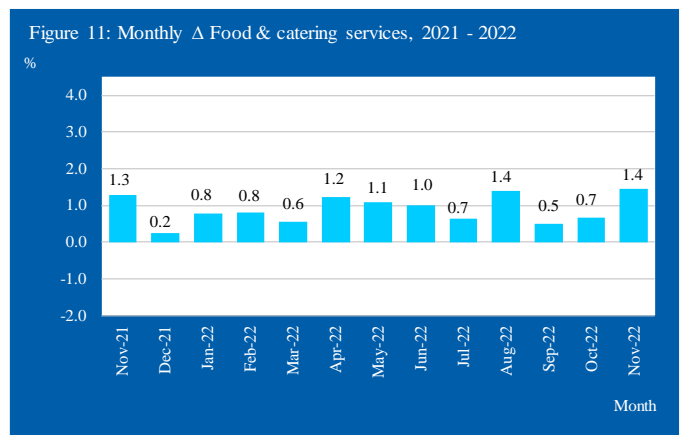
An overview of the percentage change and effect for “Food at home” and “Food away from home” for November 2022 is presented in table 12.

Table 12: Effect on the CPI of November 2022 of “Food at home” and “Food away from home”

Category	Weight	% Change	Effect
Food at home	1,087.7	1.7	0.20
Food away from home	429.8	0.7	0.03
Total group	1,517.5	1.4	0.23
Remaining goods and services	8,482.5	-0.06	-0.05
CPI	10,000.0	0.2	0.18

Source: Central Bureau of Statistics Aruba

Figure 11 depicts the monthly Δ Food and catering services over a period of one year starting from November 2021.



6.2 End of Period change of Food & catering services for November 2022

Over the last twelve (12) months, the “Food & catering services” has increased by 10.9%. The “Food at home” index showed an increase of 12.7%, where all of the “Food at home” indices increased over the last year. The “Oils and fats” index increased by 18.4%, the largest increase among the “Food at home” food groups. Furthermore, other significant increases were posted in the indices for “Milk, cheese and eggs” (17.2%), “Meat” (16.5%), “Potatoes and other tubers” (14.4%), “Fish and other seafood” (14.4%), “Bread and cereals” (12.5%) and “Non-alcoholic beverages” (11.8%).

The index for “Food away from home” increased by 0.7% in November 2022 and has increased by 6.5% over the last twelve (12) months.

Table 18 provides an overview of the monthly and end of period percentage changes and effect for November 2022 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 years).

7.2 Monthly change of the subsistence level for November 2022

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 November. Over a period of one year the subsistence level increased by Afl. 466, from Afl. 4,896 in November 2021 to Afl. 5,362 in November 2022. The "Food and non-alcoholic beverages" (Afl. 250) and "Housing" (Afl. 159) sectors show the largest increases, over this period.

Table 13: Monthly subsistence level in Aruba (in Afl.) by sector for a family of 2 adults and 2 children (aged 0-14 years) for November, 2018 - 2022

Sector	Nov-18	Nov-19	Nov-20	Nov-21	Nov-22	Change in Afl.	
						Nov-21	Nov-22
Food and non-alcoholic beverages	1,800	1,940	1,896	1,968	2,218		250
Clothing and footwear	273	277	254	241	255		14
Housing	1,429	1,474	1,443	1,469	1,628		159
Household operation	114	110	107	106	114		8
Health	81	83	80	78	82		4
Transport	285	288	268	308	349		41
Communications	141	152	152	151	140		-11
Recreation and culture	153	166	160	166	166		0
Education	72	74	74	78	78		0
Miscellaneous goods and services	318	328	324	330	333		3
Total	4,667	4,891	4,759	4,896	5,362		466

Source: Central Bureau of Statistics Aruba

An overview of the subsistence level, for the most common family types, over the period November 2021 - November 2022 is presented in table 14.

Table 14: Subsistence level in Aruba (in Afl.) by family size and composition, November 2022 (Base period December 2010)

Period	Equivalence scales				
	1	1.3	1.5	1.8	2.1
	1 adult	1 adult + 1 child	2 adults	2 adults + 1 child	2 adults + 2 children
Nov-21	2,331	3,031	3,497	4,196	4,896
Dec-21	2,337	3,038	3,505	4,206	4,907
Jan-22	2,343	3,046	3,514	4,217	4,920
Feb-22	2,348	3,052	3,522	4,226	4,931
Mar-22	2,372	3,083	3,557	4,269	4,980
Apr-22	2,382	3,097	3,574	4,288	5,003
May-22	2,403	3,124	3,604	4,325	5,046
Jun-22	2,414	3,139	3,622	4,346	5,070
Jul-22	2,440	3,172	3,660	4,392	5,124
Aug-22	2,513	3,267	3,770	4,524	5,278
Sep-22	2,528	3,287	3,792	4,551	5,309
Oct-22	2,529	3,288	3,793	4,552	5,311
Nov-22	2,553	3,319	3,830	4,596	5,362

Source: Central Bureau of Statistics Aruba

7.3 Comparison of the subsistence level and minimum wage

In November 2022 the subsistence level for a single adult household is Afl. 2,553, which represents an income deficit of Afl. 738, an increase of Afl. 222 compared to the deficit observed one year ago (Afl. 516). This deficit is the highest registered over a period of six years for the month November.

Table 15: Monthly income surplus/deficit (in Afl.) for a single adult household for November, 2017 - 2022

Period	Minimum		
	1 adult	wage	Surplus/deficit
2017	2,105	1,711	-394
2018	2,222	1,711	-511
2019	2,329	1,762	-567
2020	2,266	1,815	-451
2021	2,331	1,815	-516
2022	2,553	1,815	-738

Source: Central Bureau of Statistics Aruba

Table 16: Monthly & Yearly Changes (%) in the Consumer Price Index for November 2022, Total Population (Jun 2019 = 100)

DESCRIPTION	WEIGHT coefficient	2021 Nov	2021 Dec	2022 Oct	2022 Nov	Monthly Oct - Nov	Ytd Dec - Nov	End of period Nov 21 - Nov 22 12 months	Period average Nov 21 - Nov 22 24 months
Food and non-alcoholic beverages	1,087.7	100.76	100.89	111.65	113.59	1.7	12.6	12.7	9.4
Food	964.1	100.63	100.68	111.53	113.56	1.8	12.8	12.8	9.7
Non-alcoholic beverages	123.6	101.79	102.51	112.58	113.83	1.1	11.0	11.8	6.7
Alcoholic beverages and tobacco	78.2	101.02	101.99	105.92	106.40	0.5	4.3	5.3	4.0
Alcoholic beverages for consumption at home	62.2	99.55	100.77	105.19	105.83	0.6	5.0	6.3	4.6
Tobacco	16.0	106.74	106.74	108.74	108.62	-0.1	1.8	1.8	1.9
Clothing and footwear	276.8	88.41	94.29	91.27	93.34	2.3	-1.0	5.6	5.9
Clothing	212.8	90.07	95.07	93.83	96.20	2.5	1.2	6.8	7.1
Footwear	64.0	82.87	91.70	82.76	83.80	1.3	-8.6	1.1	1.7
Housing	2,522.2	99.46	98.42	109.68	110.22	0.5	12.0	10.8	4.0
Actual rentals for housing	666.7	103.66	103.79	105.08	105.21	0.1	1.4	1.5	1.5
Imputed rentals for housing	34.4	101.13	99.65	94.59	94.59	0.0	-5.1	-6.5	-3.5
Maintenance and repair of the dwelling	517.0	106.43	101.30	105.51	106.25	0.7	4.9	-0.2	0.4
Water supply and miscellaneous services relating to the dwelling	463.6	101.35	101.35	120.59	120.59	0.0	19.0	19.0	6.7
Electricity, gas and other fuels	840.4	90.72	90.72	110.49	111.55	1.0	23.0	23.0	7.4
Household operation	929.2	94.88	102.68	103.57	102.48	-1.1	-0.2	8.0	4.7
Furniture, furnishings, carpets and other floor coverings	128.8	74.75	80.70	91.68	83.06	-9.4	2.9	11.1	4.3
Household textiles	58.6	82.32	80.43	80.51	80.54	0.0	0.1	-2.2	-2.2
Household appliances	246.0	90.93	110.28	110.67	109.68	-0.9	-0.5	20.6	9.6
Glassware, tableware and household utensils	17.2	71.94	81.49	77.28	73.13	-5.4	-10.3	1.6	-4.0
Tools and equipment for house and garden	58.2	124.88	152.35	129.63	136.50	5.3	-10.4	9.3	16.3
Goods and services for routine household maintenance and cleaning	420.5	101.89	102.07	103.75	103.78	0.0	1.7	1.8	1.4
Health	223.1	95.26	95.13	95.88	99.51	3.8	4.6	4.5	0.5
Medical products, appliances and equipment	152.3	94.15	93.77	92.63	97.76	5.5	4.3	3.8	-0.9
Out-patient services	52.4	96.01	95.71	104.22	104.62	0.4	9.3	9.0	5.6
Other treatments	7.8	92.96	92.14	98.26	98.94	0.7	7.4	6.4	3.9
Health products and services n.e.c.	10.5	109.37	113.97	99.66	99.74	0.1	-12.5	-8.8	-5.6
Transport	1,257.4	105.86	105.20	117.10	119.70	2.2	13.8	13.1	16.9
Purchase of vehicles	442.6	98.78	98.87	117.65	120.02	2.0	21.4	21.5	12.9
Operation of personal transport equipment	763.3	111.16	109.54	117.53	121.02	3.0	10.5	8.9	19.0
Transport services	51.5	88.11	95.34	106.12	97.33	-8.3	2.1	10.5	17.9
Communications	849.6	99.24	99.24	97.91	91.55	-6.5	-7.7	-7.7	-2.0
Telephone and telefax equipment	43.8	83.07	83.07	77.77	77.62	-0.2	-6.6	-6.6	-11.6
Telephone and telefax services	805.8	100.12	100.12	99.01	92.31	-6.8	-7.8	-7.8	-1.5
Recreation and culture	1,013.3	99.66	100.46	100.23	99.46	-0.8	-1.0	-0.2	2.0
Audio-visual, photographic and information processing equipment	58.5	85.22	122.78	91.52	86.76	-5.2	-29.3	1.8	7.6
Other major durables for recreation and culture	20.0	88.71	92.12	93.93	94.85	1.0	3.0	6.9	4.7
Other recreational items and equipment; gardens and pets	266.6	101.40	100.58	107.18	108.60	1.3	8.0	7.1	4.3
Recreational and cultural services	309.1	102.53	101.77	101.97	102.01	0.0	0.2	-0.5	1.2
Newspapers, books and stationery	43.7	84.92	81.73	89.70	85.29	-4.9	4.3	0.4	-0.3
Holidays	315.4	100.80	98.07	96.12	93.83	-2.4	-4.3	-6.9	-0.2
Education	98.0	104.79	104.79	104.79	104.79	0.0	0.0	0.0	3.0
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	110.44	110.44	110.44	110.44	0.0	0.0	0.0	6.7
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	0.0
Restaurants and hotels	442.0	103.50	104.39	109.67	110.34	0.6	5.7	6.6	5.2
Catering services	429.8	104.90	105.43	110.97	111.75	0.7	6.0	6.5	5.4
Accommodation services	12.2	54.25	67.78	63.92	60.67	-5.1	-10.5	11.8	-6.3
Miscellaneous goods and services	1,222.6	100.09	100.23	100.60	101.13	0.5	0.9	1.0	2.0
Personal care	427.1	96.55	96.70	98.47	99.18	0.7	2.6	2.7	1.3
Personal effects n.e.c.	106.6	94.53	95.53	92.70	95.90	3.5	0.4	1.5	1.8
Social protection	78.2	126.67	126.67	126.67	126.67	0.0	0.0	0.0	20.0
Insurance	610.7	100.14	100.14	100.14	100.14	0.0	0.0	0.0	0.0
CPI	10,000.0	99.90	100.60	106.30	106.49	0.2	5.8	6.6	5.3

Source: Central Bureau of Statistics Aruba

Table 17: Monthly & Yearly Effect on the Consumer Price Index per sector and category for November 2022 (Jun 2019 = 100)

DESCRIPTION	WEIGHT coefficient	Monthly	Ytd	End of period	Period average
		Oct - Nov	Dec - Nov	Nov 21 - Nov 22 12 months	Nov 21 - Nov 22 24 months
Food and non-alcoholic beverages	1,087.7	0.20	1.37	1.40	1.01
Food	964.1	0.18	1.23	1.25	0.93
Non-alcoholic beverages	123.6	0.01	0.14	0.15	0.09
Alcoholic beverages and tobacco	78.2	0.00	0.03	0.04	0.03
Alcoholic beverages for consumption at home	62.2	0.00	0.03	0.04	0.03
Tobacco	16.0	0.00	0.00	0.00	0.00
Clothing and footwear	276.8	0.05	-0.03	0.14	0.15
Clothing	212.8	0.05	0.02	0.13	0.14
Footwear	64.0	0.01	-0.05	0.01	0.01
Housing	2,522.2	0.13	2.96	2.72	1.01
Actual rentals for housing	666.7	0.01	0.09	0.10	0.10
Imputed rentals for housing	34.4	0.00	-0.02	-0.02	-0.01
Maintenance and repair of the dwelling	517.0	0.04	0.25	-0.01	0.02
Water supply and miscellaneous services relating to the dwelling	463.6	0.00	0.89	0.89	0.32
Electricity, gas and other fuels	840.4	0.08	1.74	1.75	0.57
Household operation	929.2	-0.10	-0.02	0.71	0.43
Furniture, furnishings, carpets and other floor coverings	128.8	-0.10	0.03	0.11	0.04
Household textiles	58.6	0.00	0.00	-0.01	-0.01
Household appliances	246.0	-0.02	-0.01	0.46	0.23
Glassware, tableware and household utensils	17.2	-0.01	-0.01	0.00	-0.01
Tools and equipment for house and garden	58.2	0.04	-0.09	0.07	0.11
Goods and services for routine household maintenance and cleaning	420.5	0.00	0.07	0.08	0.06
Health	223.1	0.08	0.10	0.09	0.01
Medical products, appliances and equipment	152.3	0.07	0.06	0.06	-0.01
Out-patient services	52.4	0.00	0.05	0.05	0.03
Other treatments	7.8	0.00	0.01	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	0.31	1.81	1.74	2.16
Purchase of vehicles	442.6	0.10	0.93	0.94	0.57
Operation of personal transport equipment	763.3	0.25	0.87	0.75	1.51
Transport services	51.5	-0.04	0.01	0.05	0.08
Communications	849.6	-0.51	-0.65	-0.65	-0.17
Telephone and telefax equipment	43.8	0.00	-0.02	-0.02	-0.05
Telephone and telefax services	805.8	-0.51	-0.63	-0.63	-0.12
Recreation and culture	1,013.3	-0.07	-0.10	-0.02	0.20
Audio-visual, photographic and information processing equipment	58.5	-0.03	-0.21	0.01	0.04
Other major durables for recreation and culture	20.0	0.00	0.01	0.01	0.01
Other recreational items and equipment; gardens and pets	266.6	0.04	0.21	0.19	0.11
Recreational and cultural services	309.1	0.00	0.01	-0.02	0.04
Newspapers, books and stationery	43.7	-0.02	0.02	0.00	0.00
Holidays	315.4	-0.07	-0.13	-0.22	-0.01
Education	98.0	0.00	0.00	0.00	0.03
Pre primary and primary education	24.0	0.00	0.00	0.00	0.00
Secondary education	43.4	0.00	0.00	0.00	0.03
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	0.03	0.26	0.30	0.24
Catering services	429.8	0.03	0.27	0.29	0.24
Accommodation services	12.2	0.00	-0.01	0.01	-0.01
Miscellaneous goods and services	1,222.6	0.06	0.11	0.13	0.24
Personal care	427.1	0.03	0.11	0.11	0.05
Personal effects n.e.c.	106.6	0.03	0.00	0.01	0.02
Social protection	78.2	0.00	0.00	0.00	0.17
Insurance	610.7	0.00	0.00	0.00	0.00
CPI	10,000.0	0.18	5.85	6.59	5.35

Source: Central Bureau of Statistics Aruba

Table 18: Monthly & Yearly Changes (%) and effect in the Food & catering services for November 2022, Total Population (Jun 2019 = 100)

DESCRIPTION	WEIGHT coefficient	% Change		Effect	
		Monthly Oct - Nov	End of period Nov 21 - Nov 22 12 months	Monthly Oct - Nov	End of period Nov 21 - Nov 22 12 months
Food & catering services	1,517.5	1.4	10.9	0.230	1.691
Food at home	1,087.7	1.7	12.7	0.199	1.397
Bread and cereals	178.1	1.7	12.5	0.032	0.222
Rice	23.5	2.6	18.7	0.007	0.046
Bread	72.1	2.9	10.2	0.022	0.079
Pasta products	9.2	0.3	19.5	0.000	0.018
Other cereals and cereal products	73.3	0.3	11.8	0.002	0.080
Meat	242.5	1.1	16.5	0.031	0.412
Bovine	67.3	1.2	12.8	0.009	0.092
Swine	25.5	1.7	9.7	0.005	0.027
Poultry	75.7	0.4	28.0	0.003	0.209
Other meat and meat preparations	74.0	1.7	11.2	0.014	0.084
Fish and other seafood	49.0	0.1	14.4	0.001	0.071
Fish and seafood preparations	49.0	0.1	14.4	0.001	0.071
Milk, cheese and eggs	135.3	3.8	17.2	0.056	0.239
Cheese	55.4	0.1	8.5	0.001	0.049
Eggs	16.6	22.9	80.9	0.055	0.140
Milk	40.0	-0.1	4.8	0.000	0.019
Other milk products	23.3	0.3	13.0	0.001	0.030
Oils and fats	32.2	1.5	18.4	0.006	0.064
Corn oil	2.8	1.8	28.5	0.001	0.010
Butter and margarine	9.2	3.2	18.8	0.003	0.018
Other oils and fats	20.1	0.7	16.7	0.002	0.036
Fruit	97.6	0.8	4.3	0.008	0.043
Oranges	9.4	4.3	22.9	0.006	0.029
Bananas and plantains	19.9	1.0	12.9	0.002	0.020
Apples	9.3	1.6	19.5	0.002	0.019
Avocado	5.0	0.1	8.3	0.000	0.003
Grapes	9.2	-2.1	6.0	-0.002	0.005
Nuts	11.9	1.1	7.0	0.001	0.008
Lemons and mandarins	6.0	-3.4	8.0	-0.002	0.004
Cherries and strawberries	8.8	0.0	-33.2	0.000	-0.060
Melons and watermelons	7.7	0.9	7.9	0.001	0.006
Papayas and pineapples	6.9	-0.6	5.4	0.000	0.003
Other fruits and fruit products	3.5	1.4	22.2	0.000	0.007
Potatoes and other tubers	18.2	-1.5	14.4	-0.002	0.022
Potatoes	12.2	-3.8	10.8	-0.004	0.010
Other tubers	2.0	6.8	25.2	0.002	0.005
Sweet potatoes and yucca	4.0	-0.3	17.7	0.000	0.006
Vegetables	89.1	5.9	8.4	0.046	0.068
Lettuce	6.8	48.3	13.3	0.021	0.008
Tomatoes	9.7	7.7	5.4	0.008	0.006
Onions and garlic	18.7	1.3	5.0	0.002	0.008
Celery and broccoli	15.3	7.3	9.4	0.009	0.013
Other vegetables	15.3	4.3	11.9	0.006	0.017
Other preserved or processed vegetables	8.4	-0.6	6.1	0.000	0.005
Frozen vegetable mixtures	14.8	0.9	9.2	0.001	0.012
Sugar, jam, honey and other confectionery	42.0	0.8	9.9	0.004	0.043
Sugar	12.1	1.7	10.2	0.002	0.013
Jams and jellies	2.5	0.4	8.3	0.000	0.002
Other confectionery products	27.5	0.5	9.9	0.001	0.027
Food products n.e.c.	80.1	0.5	8.0	0.004	0.065
Other food products	80.1	0.5	8.0	0.004	0.065
Non-alcoholic beverages	123.6	1.1	11.8	0.015	0.149
Coffee and tea	20.9	1.3	6.7	0.003	0.014
Other non-alcoholic beverages	14.6	-1.2	3.5	-0.002	0.005
Soft and sports drinks	31.0	2.2	12.0	0.008	0.039
Fruit juices	57.1	1.0	15.8	0.006	0.090
Food away from home	429.8	0.7	6.5	0.031	0.295
Food and beverage consumption away from home	429.8	0.7	6.5	0.031	0.295
Other goods and services	8,482.5	-0.1	5.8	-0.052	4.899
Other goods	4,735.8	1.3	11.4	0.624	5.289
Other services	3,746.7	-1.9	-1.0	-0.676	-0.390
CPI	10,000	0.2	6.6	0.179	6.591

Source: Central Bureau of Statistics Aruba

Table 19: CPI: Main indices for November 2022, Total Population (Jun 2019 = 100)

DESCRIPTION	WEIGHT coefficient	2021	2021	2022	2022	Monthly	Ytd	End of period	Period average
		Nov	Dec	Oct	Nov	Oct - Nov	Dec - Nov	Nov 21 - Nov 22 12 months	Nov 21 - Nov 22 24 months
CPI for "All items"	10,000.0	99.90	100.60	106.30	106.49	0.2	5.9	6.6	5.3
CPI for "Goods"	5,823.4	98.25	99.59	108.22	109.73	1.4	10.2	11.7	7.8
CPI for "Durable goods"	1,294.8	95.40	102.81	106.03	107.21	1.1	4.3	12.4	6.9
CPI for "Semi-durable goods"	635.9	89.58	93.16	92.15	92.12	0.0	-1.1	2.8	2.1
CPI for "Non-durable goods"	3,892.8	100.62	99.57	111.58	113.44	1.7	13.9	12.7	8.9
CPI for "Services"	4,176.6	102.20	102.01	103.62	101.97	-1.6	0.0	-0.2	2.1
CPI for "Gasoline" and "Diesel"	460.6	117.36	113.82	122.95	130.19	5.9	14.4	10.9	27.2
CPI for "Energy"	1,638.1	100.12	99.13	117.02	119.05	1.7	20.1	18.9	13.5
CPI for "Food at home"	1,087.7	100.76	100.89	111.65	113.59	1.7	12.6	12.7	9.4
CPI excluding "Food and non-alcoholic beverages"	8,912.3	99.80	100.57	105.65	105.62	0.0	5.0	5.8	4.9
CPI excluding "Gasoline" and "Diesel"	9,539.4	99.06	99.96	105.49	105.34	-0.1	5.4	6.3	4.2
CPI excluding "Food and non-alcoholic beverages", "Gasoline" and "Diesel"	8,451.7	98.84	99.85	104.70	104.28	-0.4	4.4	5.5	3.6
CPI excluding "Rentals actually paid by tenants or subtenants"	9,333.3	99.64	100.38	106.38	106.58	0.2	6.2	7.0	5.6
CPI excluding "Housing"	7,477.8	100.05	101.34	105.16	105.23	0.1	3.8	5.2	5.8
CPI excluding "Gasoline", "Diesel", "Water" and "Electricity"	8,361.9	99.86	100.89	104.20	104.03	-0.2	3.1	4.2	3.8

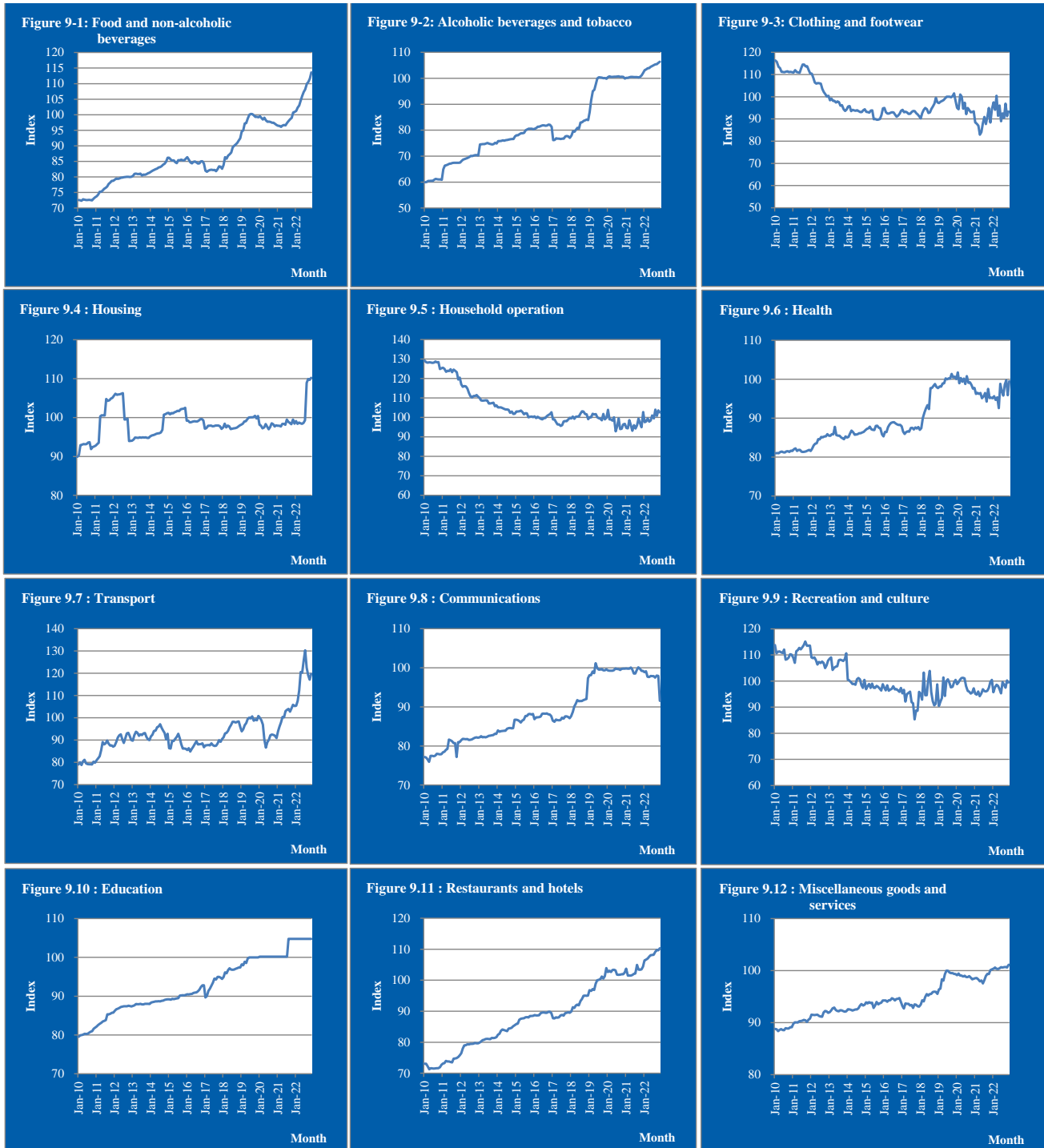
Source: Central Bureau of Statistics Aruba

Table 20: CPI: Effect on main indices for November 2022, Total Population (Jun 2019 = 100)

DESCRIPTION	WEIGHT coefficient	Monthly	Ytd	End of period	Period average
		Oct - Nov	Dec - Nov	Nov 21 - Nov 22 12 months	Nov 21 - Nov 22 24 months
CPI for "All items"	10,000.0	0.18	5.85	6.59	5.35
CPI for "Goods"	5,823.4	0.82	5.87	6.69	4.45
CPI for "Durable goods"	1,294.8	0.14	0.57	1.53	0.87
CPI for "Semi-durable goods"	635.9	0.00	-0.07	0.16	0.12
CPI for "Non-durable goods"	3,892.8	0.68	5.37	4.99	3.45
CPI for "Services"	4,176.6	-0.65	-0.02	-0.10	0.90
CPI for "Gasoline" and "Diesel"	460.6	0.31	0.75	0.59	1.32
CPI for "Energy"	1,638.1	0.31	3.25	3.10	2.17
CPI for "Food at home"	1,087.7	0.20	1.23	1.25	0.93
CPI excluding "Food and non-alcoholic beverages"	8,912.3	-0.02	4.48	5.19	4.33
CPI excluding "Gasoline" and "Diesel"	9,539.4	-0.14	5.10	6.00	4.02
CPI excluding "Food and non-alcoholic beverages", "Gasoline" and "Diesel"	8,451.7	-0.33	3.73	4.60	3.01
CPI excluding "Rentals actually paid by tenants or subtenants"	9,333.3	0.17	5.76	6.49	5.24
CPI excluding "Housing"	7,477.8	0.05	2.89	3.87	4.34
CPI excluding "Gasoline", "Diesel", "Water" and "Electricity"	8,361.9	-0.14	2.61	3.49	3.17

Source: Central Bureau of Statistics Aruba

Course of Indices for 2010 up to November 2022



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.