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A note to the reader

The following report presents the price statistics for July 2023.

- 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 July 2023, the Consumer Price Index (CPI) did not change compared to the index of June 2023. The sector which affected the CPI the most was “Transport” (-7.9%), which led to an effect of -1.12 percentage points (ppts) on the Δ CPI of July 2023 (-0.01%).
- Compared to July 2022 the CPI increased by 1.7%. The sector which affected the CPI the most was “Transport” (-15.4%), which led to an effect of -2.41 ppts.
- The period average inflation for the periods July 2021 to July 2022 and July 2022 to July 2023 is 5.6%, which is 1.9 ppts higher compared to the period average inflation for the periods July 2020 to July 2021 and July 2021 to July 2022 (3.7%).
- Utilities (Water and Electricity) did not register price changes in July 2023. The price of gasoline registered an increase of 0.2% in July 2023 and had an effect of 0.01 ppt. The price of diesel registered an increase of 1.6% in July 2023 and contributed with an effect 0.01 ppt on the Δ CPI of July 2023.

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 July 2023 is 106.20; virtually unchanged compared to the CPI of June 2023 (106.20). An overview of the percentage change in the CPI (Δ CPI) for different periods during 2022 and 2023 is shown in Table 1. The terms percentage change in the CPI and “inflation” (deflation) are considered similar and are used interchangeably. The inflation over the last 12 months (end of period inflation) is 1.7%, while the inflation over a period of 24 months (period average inflation) is 5.6%.

Table 1: Overview of Δ CPI

Period		% Changes		Index	
		2022	2023	Last	Current
Monthly	Jun - Jul	1.2	0.0	106.20	106.20
Year-to-date	Dec - Jul	3.8	-0.2	106.37	106.20
Last 12 months ¹	Jul - Jul	6.0	1.7	104.46	106.20
Last 24 months ²	Jul - Jul	3.7	5.6	101.02	106.64

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 July 2022, whereas the Δ CPI for the month July for the years 2014 to 2023 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 July 2023. The percentage change in index is further denoted as Δ I. The largest Δ I is observed for the “Communications” sector with an increase of 12.9%.

1.3 Changes in categories and subcategories

The largest positive and negative Δ I is seen in the categories “Telephone and telefax services” (14.2%) and “Purchase of vehicles” (-22.5%). In the “Food and non-alcoholic beverages” sector increases of respectively, 0.3% and 1.7% were observed for the categories “Food” and “Non-alcoholic beverages”. In the “Housing” sector the major Δ I is observed for the category “Maintenance and repair of the dwelling” (0.3%). In the “Transport” sector the major Δ I is observed for the category “Purchase of vehicles” (-22.5%). In the “Recreation and culture” sector the major Δ I is observed for the category “Audio-visual, photographic and information processing equipment” (11.5%)¹.

The categories which influenced the CPI calculation the most are “Purchase of vehicles”, “Telephone and telefax services” and “Medical products, appliances and equipment” which had an effect

of respectively, -1.18, 1.01 and -0.10 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 July 2022, December 2022, June 2023 and July 2023 together with corresponding weights per sector and the monthly, year-to-date (ytd), end of period and period average percentage changes for July 2023. 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 July 2023 is presented. The course of indices for 2011 – up to July 2023 is illustrated in Appendix 5.

Figure 1: Monthly Δ CPI, 2022 - 2023

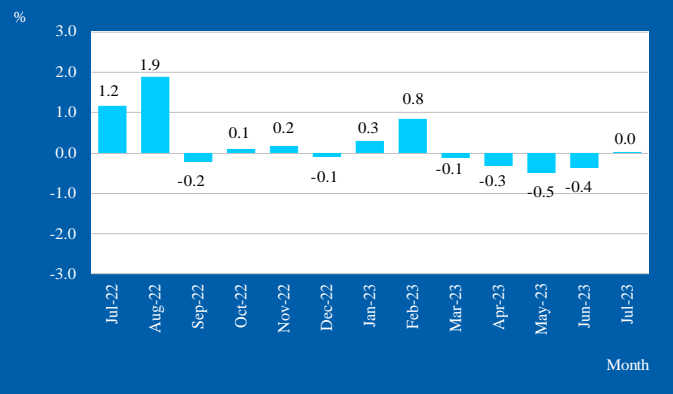


Figure 2: Monthly Δ CPI for July, 2014 - 2023

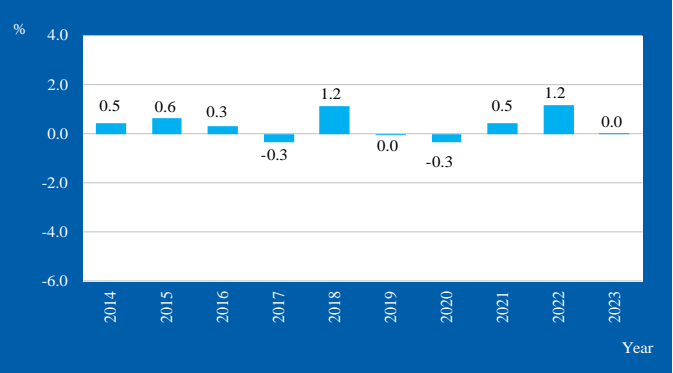
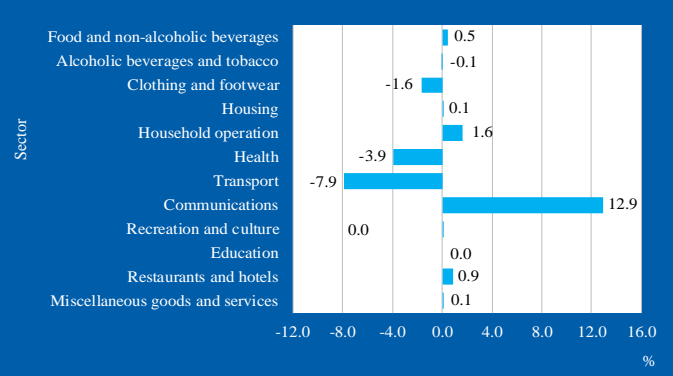


Figure 3: Δ I per sector, July 2023



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 July 2023

The CPI increased from 104.46 in July 2022 to 106.20 in July 2023, an increase of 1.7%. This Δ CPI is the third lowest registered over a period of 6 years for the month July, and is 4.3 ppts lower than the Δ CPI registered in 2022 (6.0%) (see table 2).

Table 2: End of period Δ CPI for July, 2018 - 2023

Period	Δ CPI	Index
2017-2018	5.3	96.49
2018-2019	3.6	100.00
2019-2020	-3.2	96.83
2020-2021	1.8	98.53
2021-2022	6.0	104.46
2022-2023	1.7	106.20

Source: Central Bureau of Statistics Aruba

2.2 Changes in sector

An overview of the percentage change per sector over the period July 2022 - July 2023 is presented in table 3. The largest Δ I is observed for the sector "Transport" with a decrease of 15.4%. Furthermore, (remarkable) increases of 9.6, 7.8%, 7.7% and 6.0% are observed for the "Housing", "Restaurants and hotels", "Communications" and "Food and non-alcoholic beverages" sectors, respectively. A comparison of the Δ I's for the years 2022 and 2023 is provided in figure 4.

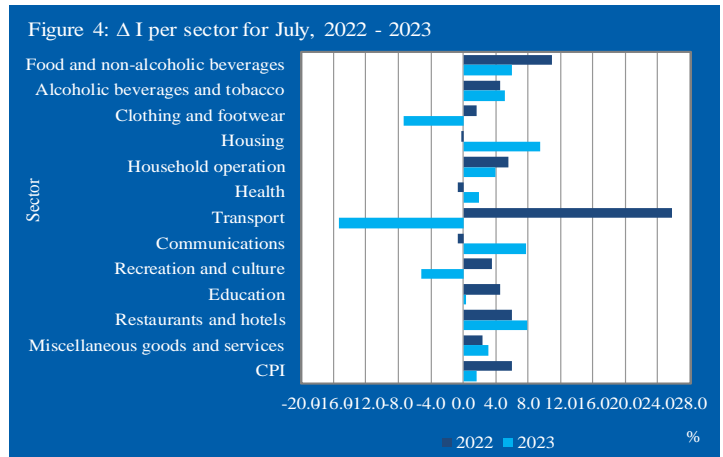
Table 3: Percentage change for July, 2022 - 2023

Sector	% Change
Food and non-alcoholic beverages	6.0
Alcoholic beverages and tobacco	5.1
Clothing and footwear	-7.3
Housing	9.6
Household operation	4.0
Health	1.9
Transport	-15.4
Communications	7.7
Recreation and culture	-5.1
Education	0.3
Restaurants and hotels	7.8
Miscellaneous goods and services	3.2
CPI	1.7

Source: Central Bureau of Statistics Aruba

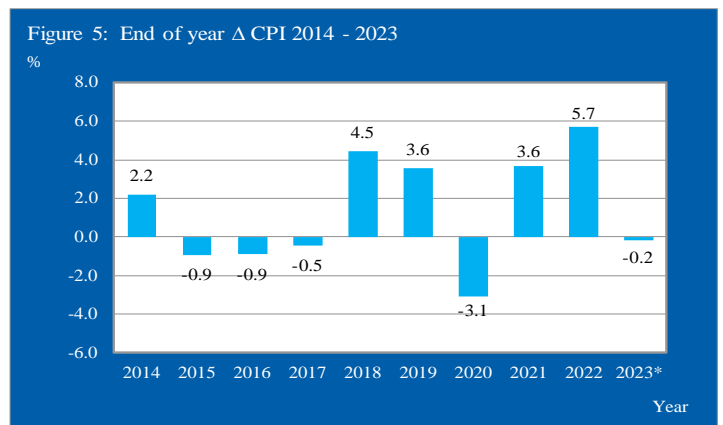
2.3 Changes in categories

The largest positive and negative Δ I in categories observed over a period of one year are respectively, "Water supply and miscellaneous services relating to the dwelling" (19.1%) and "Audio-visual, photographic and information processing equipment" (-25.5%). 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 2014 - 2023

The end of year Δ CPI for the period 2014 - 2023 is shown in figure 5. The Δ CPI for 2023 is calculated by comparing the CPI of July 2023 with the CPI of December 2022. The ytd Δ CPI for July 2023 is -0.2%.



*ytd

2.5 Period average change CPI for July 2023

The period average change CPI (Δ ACPI) for July 2023 is 5.6%. Table 4 provides an overview of the Δ ACPI for the month July for the years 2019 to 2023. The Δ ACPI for 2023 increased by 1.9 ppts compared to 2022 (3.7%).

Table 4: Overview of Δ ACPI for July, 2019 - 2023

Period	Δ ACPI	Index
2018-2019	4.1	97.41
2019-2020	1.4	98.80
2020-2021	-1.4	97.39
2021-2022	3.7	101.02
2022-2023	5.6	106.64

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 July 2023 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, 2022 - 2023

Month	Crude oil per barrel ¹	Total energy charge ²		Electricity ³	Water ⁴	Gasoline ⁵	Diesel ⁵
		≤ 500 kWh	501-1000 kWh				
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
Dec-22	76.80	38.53	39.65	294.56	168.73	251.40	261.00
Jan-23	78.01	38.53	39.65	294.56	168.73	243.80	246.60
Feb-23	76.99	38.53	39.65	294.56	168.73	262.50	260.30
Mar-23	73.51	38.53	39.65	294.56	168.73	257.60	234.80
Apr-23	79.51	38.53	39.65	294.56	168.73	262.40	231.50
May-23	71.86	35.80	36.84	274.57	168.73	266.70	221.50
Jun-23	70.12	35.80	36.84	274.57	168.73	255.90	209.10
Jul-23	75.57	35.80	36.84	274.57	168.73	256.40	212.50

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 July 2023, it remained at Afl. 274.57. Figure 6-1 provides an overview of the course of changes in the electricity price for the period 2015 to 2023.

The total energy charge per kWh for a usage of electricity up to 500 kWh did not change in July 2023, it stayed at Afl. 35.80 cents per kWh. The total energy charge per kWh for a usage of electricity between 501 - 1000 kWh did not change in July 2023, it stayed at Afl. 36.84 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 2015 to 2023. The water price for an average usage by households did not change in July 2023, it remained at Afl. 168.73.

3.4 Gasoline and Diesel

The retail price of gasoline increased by 0.2% from 255.9 cents per liter in June 2023 to 256.4 cents per liter in July 2023. In July 2023, the retail price of diesel registered an increase of 1.6% from 209.1 cents per liter in June 2023 to 212.5 cents per liter in July 2023.

Figure 6-1 Electricity price, water price and energy charge in Afl., 2015 - 2023

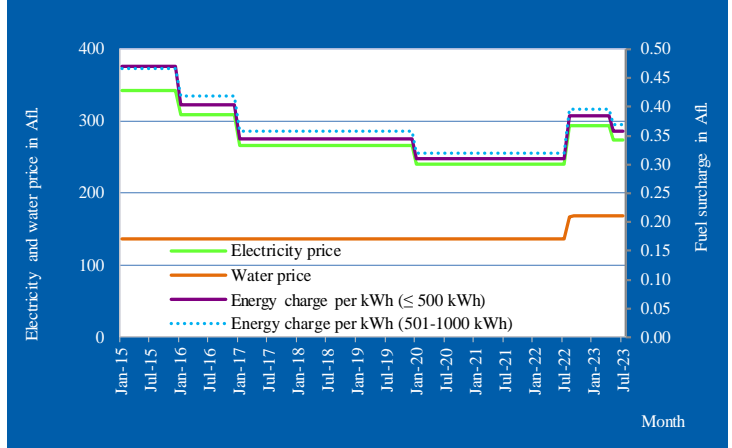
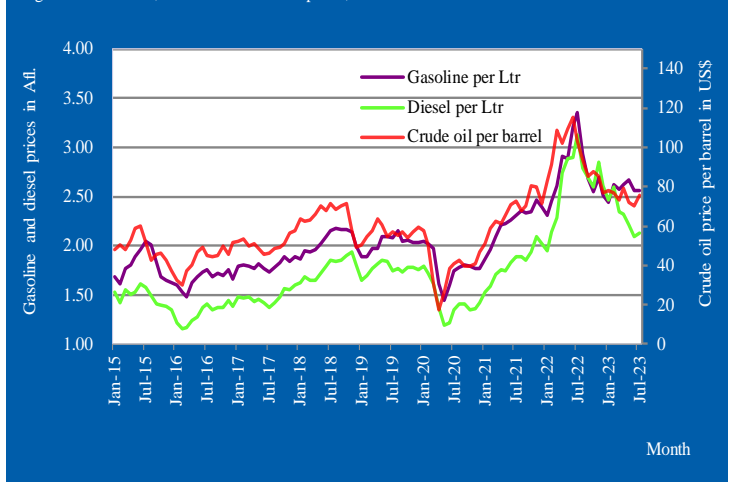


Figure 6-2 Gasoline, diesel and crude oil prices, 2015 - 2023



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 July 2022. In July 2023 the Δ CPI of the USA and the Netherlands were 0.2% and 1.0%, respectively. The Δ CPI of Curaçao for July 2023 is not yet available.

Table 6: Monthly Δ CPI 2022 - 2023 per Country

Period	Aruba	USA	Curaçao	Netherlands
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	0.3	-3.0
Dec-22	-0.1	-0.3	0.6	0.5
Jan-23	0.3	0.8	-1.8	-1.4
Feb-23	0.8	0.6	0.3	1.0
Mar-23	-0.1	0.3	0.1	0.2
Apr-23	-0.3	0.5	0.3	1.0
May-23	-0.5	0.3	0.3	0.2
Jun-23	-0.4	0.3	0.2	-0.3
Jul-23	0.0	0.2	n.a.	1.0

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 July 2023. Aruba's monthly Δ CPI for July 2023 is 0.2 pts lower than the Δ CPI of the USA.

Table 7: Overview of Δ CPI, 2023

Period	Aruba	USA
Monthly Jun - Jul	0.0	0.2
Year-to-date Jun - Jul	-0.2	3.0
Last 12 months ¹ Jun - Jul	1.7	3.2
Last 24 months ² Jun - Jul	5.6	5.8

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 1.5 pts lower than the USA's 12-month Δ CPI. The Δ CPI over the last 24 months for Aruba is 0.2 pts 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

² In 2022, 50% of Aruba's import by sea and air originated from the USA" (Source: Foreign Trade Statistics Report, 2018-2022).

end of year Δ CPI over the period 2013 - 2023 for Aruba and the USA is provided in table 8 and figure 8.

Table 8: End of year Δ CPI, 2013 - 2023

Period	Aruba	USA
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	5.7	6.5
2023*	-0.2	3.0

Source: Central Bureau of Statistics Aruba

* ytd

Figure 7: Monthly Δ CPI for Aruba and the USA, 2022 - 2023

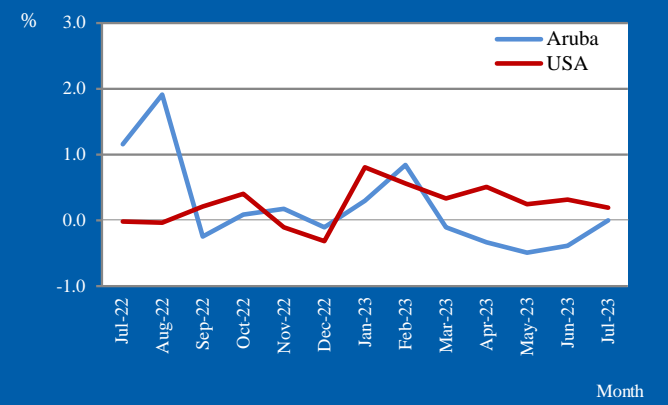
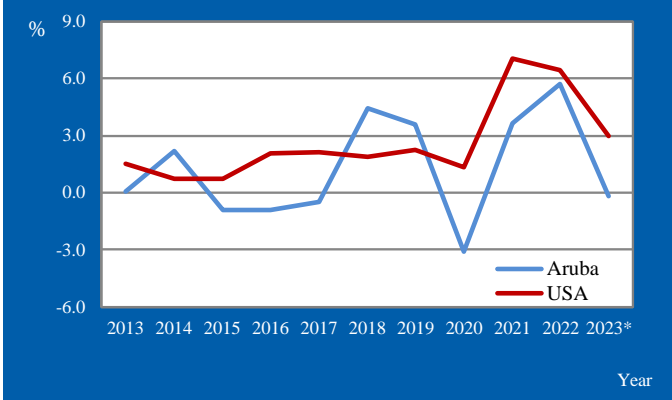


Figure 8: End of year Δ CPI, 2013 - 2023



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 July 2023 the core inflation (measured over the period July 2022 - 2023) was 3.0%. In July 2023 the food index was 10.6%, while the energy index shows an increase of 14.0%.

Table 9: Monthly inflation¹ and core inflation, 2022 - 2023

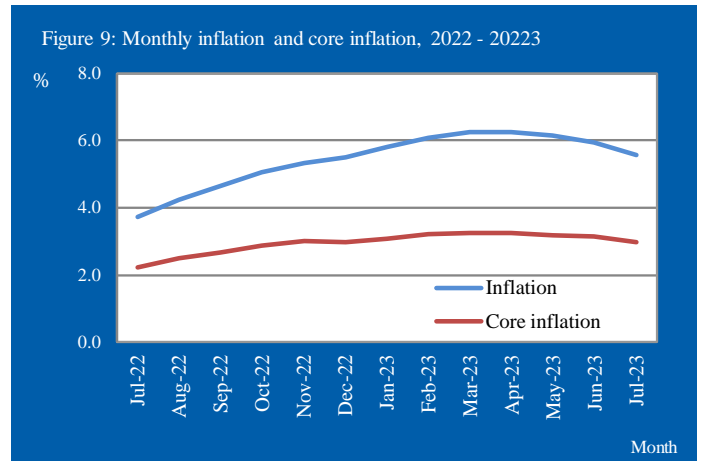
Period	Inflation	Food	Energy ²	Core Inflation
Jul-22	3.7	6.1	9.5	2.2
Aug-22	4.3	7.1	10.8	2.5
Sep-22	4.7	8.0	11.9	2.7
Oct-22	5.1	9.0	12.8	2.9
Nov-22	5.3	9.7	13.5	3.0
Dec-22	5.5	10.5	14.2	3.0
Jan-23	5.8	11.1	15.1	3.1
Feb-23	6.1	11.6	16.0	3.2
Mar-23	6.2	11.9	16.5	3.3
Apr-23	6.3	11.9	16.5	3.3
May-23	6.1	11.7	16.3	3.2
Jun-23	5.9	11.2	15.3	3.2
Jul-23	5.6	10.6	14.0	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 July 2022.



5.3 End of year change of the core inflation, 2018 - 2023

The end of year core inflation of the total population of Aruba for the year 2023 (up to July) is 3.0%, the same compared to the core inflation of 2022. Table 10 provides an overview of the end of year inflation and core inflation over the period 2018 - 2023.

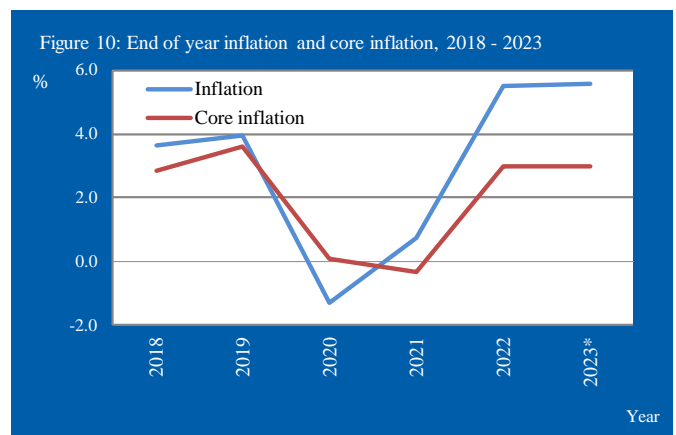
The end of year inflation and core inflation is presented in figure 10 over the period 2018 - 2023.

Table 10: End of year core inflation, 2018 - 2023

Period	2018	2019	2020	2021	2022	2023*
Inflation	3.6	3.9	-1.3	0.7	5.5	5.6
Food	7.3	10.5	-0.8	-0.3	10.5	10.6
Electricity	1.7	2.1	-9.2	0.0	9.5	20.6
Water	1.7	2.1	0.5	0.0	9.6	23.1
Gasoline and diesel	15.8	1.0	-12.3	25.6	24.8	-0.2
Core inflation	2.8	3.6	0.1	-0.3	3.0	3.0

Source: Central Bureau of Statistics Aruba

*current month



6 Development of Food & catering services

6.1 Monthly change of Food & catering services for July 2023

The “Food & catering services” index showed an increase of 0.6% in July 2023, after a decrease of 0.3% in June 2023. The index for “Food at home” showed an increase of 0.5% in July, as seven (7) of the eleven (11) “Food at home” indices increased in July 2023. The “Potatoes and other tubers” index registered the largest increase (7.8%) in July 2023. Furthermore, other significant increases were posted in the indices for “Sugar, jam, honey and other confectionery” (3.0%), “Vegetables” (1.9%) and “Non-alcoholic beverages” (1.7%). The largest decrease was registered in the index for “Fruit” (-3.2%) in July 2023.

Table 11 provides an overview of the corresponding weights per food group together with the percentage changes and effect for July 2023.

Table 11: Percentage change of Food for July 2023

Food	Weight	Monthly		Yearly	
		% Change	Effect	% Change	Effect
Food & catering services	1,492.8	0.6	0.098	6.6	1.039
<i>Food at home</i>	1,125.3	0.5	0.055	6.0	0.675
Bread and cereals	205.2	-0.1	-0.003	9.7	0.179
Meat	229.8	-0.3	-0.007	1.1	0.031
Fish and other seafood	56.4	-0.1	0.000	0.7	0.003
Milk, cheese and eggs	140.0	1.6	0.025	8.3	0.122
Oils and fats	31.6	0.5	0.002	4.6	0.017
Fruit	72.0	-3.2	-0.030	-2.6	-0.025
Potatoes and other tubers	18.5	7.8	0.011	-2.0	-0.003
Vegetables	75.7	1.9	0.015	9.4	0.070
Sugar, jam, honey and other confectionery	49.6	3.0	0.014	12.9	0.056
Food products n.e.c.	82.7	0.5	0.004	11.6	0.094
Non-alcoholic beverages	163.9	1.7	0.023	10.2	0.034
<i>Food away from home</i>	367.5	0.9	0.043	8.1	0.364
Other goods and services	8,507.2	-0.1	-0.091	0.7	0.631
Other goods	5,147.2	-2.3	-1.116	-0.4	-0.173
Other services	3,360.0	2.9	1.025	2.2	0.804
CPI	10,000.0	0.0	0.007	1.7	1.670

Source: Central Bureau of Statistics Aruba

In July 2023, “Food at home” and “Food away from home” as a group showed an increase in price of 0.6% compared to June 2023, and had an effect of 0.10 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 -0.09 ppts on the CPI.

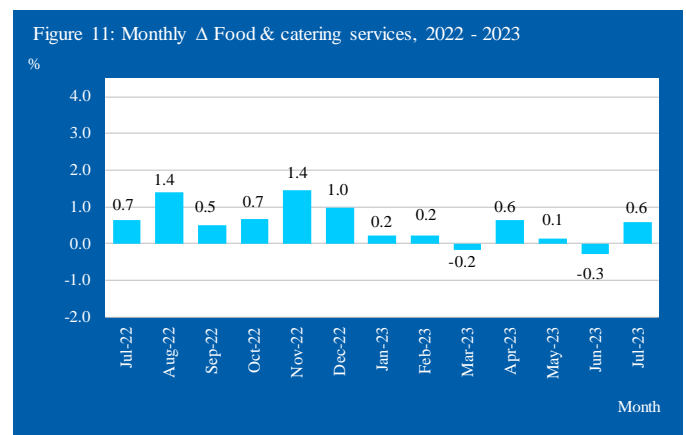
An overview of the percentage change and effect for “Food at home” and “Food away from home” for July 2023 is presented in table 12.

Table 12: Effect on the CPI of July 2023 of “Food at home” and “Food away from home”

Category	Weight	% Change	Effect
Food at home	1,087.7	0.5	0.05
Food away from home	429.8	0.9	0.04
Total group	1,517.5	0.6	0.10
Remaining goods and services	8,482.5	-0.1	-0.09
CPI	10,000.0	0.0	0.01

Source: Central Bureau of Statistics Aruba

Figure 11 depicts the monthly Δ Food and catering services over a period of one year starting from July 2022.



6.2 End of Period change of Food & catering services for July 2023

Over the last 12 months, the “Food & catering services” increased by 6.6%. The “Food at home” index showed an increase of 6.0%, where nine (9) of the “Food at home” food groups increased over the period.

The “Sugar, jam, honey and other confectionery” index increased by 12.9%, the largest increase among the “Food at home” food groups. Furthermore, other significant increases were posted in the indices for “Food products n.e.c.” (11.6%), “Non-alcoholic beverages” (10.2%), “Bread and cereals” (9.7%), “Vegetables” (9.4%), “Milk, cheese and eggs” (8.3%), “Oils and fats” (4.6%) and “Meat” (1.1%). The largest decrease was registered in the index for “Fruit” (-2.6%) in July 2023.

The index for “Food away from home” increased by 8.1% over the last 12 months.

Table 18 provides an overview of the monthly and end of period percentage changes and effect for July 2023 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 July 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 July 2023

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 July. Over a period of one year the subsistence level increased by Afl. 210, from Afl. 5,124 in July 2022 to Afl. 5,334 in July 2023. The "Housing" (Afl. 140) and "Food and non-alcoholic beverages" (Afl. 126) 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 July, 2019 - 2023

Sector	Jul-19	Jul-20	Jul-21	Jul-22	Jul-23	Change in Afl.	
						Jul-22	Jul-23
Food and non-alcoholic beverages	1,957	1,909	1,903	2,112	2,238		126
Clothing and footwear	273	251	248	252	234		-18
Housing	1,477	1,432	1,469	1,466	1,606		140
Household operation	111	106	105	111	115		4
Health	83	83	79	79	80		1
Transport	290	262	301	379	321		-58
Communications	152	152	150	149	161		12
Recreation and culture	168	164	161	166	158		-8
Education	74	74	74	78	78		0
Miscellaneous goods and services	330	326	324	332	342		10
Total	4,915	4,760	4,815	5,124	5,334		210

Source: Central Bureau of Statistics Aruba

An overview of the subsistence level, for the most common family types, over the period July 2022 - July 2023 is presented in table 14.

Table 14: Subsistence level in Aruba (in Afl.) by family size and composition, July 2023 (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
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
Dec-22	2,560	3,328	3,840	4,608	5,376
Jan-23	2,554	3,320	3,831	4,597	5,363
Feb-23	2,568	3,339	3,852	4,623	5,393
Mar-23	2,565	3,334	3,847	4,616	5,386
Apr-23	2,564	3,333	3,845	4,615	5,384
May-23	2,550	3,315	3,824	4,589	5,354
Jun-23	2,541	3,303	3,812	4,574	5,336
Jul-23	2,540	3,302	3,810	4,572	5,334

Source: Central Bureau of Statistics Aruba

7.3 Comparison of the subsistence level and minimum wage

In July 2023 the subsistence level for a single adult household is Afl. 2,540, which represents an income deficit of Afl. 647, an increase of Afl. 22 compared to the deficit observed one year ago (Afl. 625). This deficit is the highest registered over a period of six years for the month July.

Table 15: Monthly income surplus/deficit (in Afl.) for a single adult household for July, 2018 - 2023

Period	Minimum		
	1 adult	wage	Surplus/deficit
2018	2,197	1,711	-486
2019	2,341	1,762	-579
2020	2,267	1,815	-452
2021	2,293	1,815	-478
2022	2,440	1,815	-625
2023	2,540	1,893	-647

Source: Central Bureau of Statistics Aruba

Table 16: Monthly & Yearly Changes (%) in the Consumer Price Index for July 2023, Total Population (Jun 2019 = 100)

DESCRIPTION	WEIGHT coefficient	2022	2022	2023	2023	Monthly Jun - Jul	Ytd Dec - Jul	End of period Jul 22 - Jul 23 12 months	Period average Jul 21/22 - Jul 22/23 24 months
		Jul	Dec	Jun	Jul				
Food and non-alcoholic beverages	1,087.7	108.15	114.32	114.10	114.63	0.5	0.3	6.0	10.6
Food	964.1	108.18	114.32	113.74	114.08	0.3	-0.2	5.5	10.6
Non-alcoholic beverages	123.6	107.89	114.36	116.92	118.90	1.7	4.0	10.2	10.3
Alcoholic beverages and tobacco	78.2	105.07	106.28	110.50	110.42	-0.1	3.9	5.1	5.2
Alcoholic beverages for consumption at home	62.2	104.12	105.75	108.86	108.77	-0.1	2.9	4.5	5.2
Tobacco	16.0	108.76	108.32	116.84	116.84	0.0	7.9	7.4	4.9
Clothing and footwear	276.8	92.46	95.40	87.16	85.72	-1.6	-10.1	-7.3	-2.3
Clothing	212.8	94.17	98.09	87.01	87.59	0.7	-8.0	-7.0	-2.8
Footwear	64.0	86.78	86.46	87.64	79.51	-9.3	-10.7	-8.4	-0.5
Housing	2,522.2	99.28	110.31	108.66	108.76	0.1	-1.4	9.6	11.3
Actual rentals for housing	666.7	104.69	105.34	106.13	106.26	0.1	0.9	1.5	1.5
Imputed rentals for housing	34.4	92.43	94.59	94.59	94.59	0.0	0.0	2.3	-1.3
Maintenance and repair of the dwelling	517.0	103.96	106.52	108.12	108.47	0.3	1.8	4.3	4.6
Water supply and miscellaneous services relating to the dwelling	463.6	102.28	120.59	121.83	121.83	0.0	1.0	19.1	18.8
Electricity, gas and other fuels	840.4	90.72	111.55	104.30	104.30	0.0	-6.5	15.0	20.7
Household operation	929.2	99.48	99.17	101.86	103.50	1.6	4.4	4.0	4.6
Furniture, furnishings, carpets and other floor coverings	128.8	72.69	81.61	79.81	85.62	7.3	4.9	17.8	8.7
Household textiles	58.6	76.89	75.62	73.08	74.76	2.3	-1.1	-2.8	-3.0
Household appliances	246.0	105.75	99.86	100.03	101.64	1.6	1.8	-3.9	5.6
Glassware, tableware and household utensils	17.2	74.56	78.74	60.55	57.60	-4.9	-26.9	-22.8	-5.4
Tools and equipment for house and garden	58.2	134.60	130.46	147.75	151.62	2.6	16.2	12.6	6.2
Goods and services for routine household maintenance and cleaning	420.5	103.34	103.93	109.03	109.29	0.2	5.2	5.8	4.0
Health	223.1	95.80	99.92	101.60	97.63	-3.9	-2.3	1.9	3.9
Medical products, appliances and equipment	152.3	92.55	97.77	100.24	93.23	-7.0	-4.6	0.7	3.0
Out-patient services	52.4	104.37	105.35	106.20	108.01	1.7	2.5	3.5	8.0
Other treatments	7.8	98.40	99.18	99.71	101.54	1.8	2.4	3.2	5.4
Health products and services n.e.c.	10.5	98.11	104.45	99.82	106.55	6.7	2.0	8.6	-3.4
Transport	1,257.4	130.24	117.02	119.71	110.23	-7.9	-5.8	-15.4	6.0
Purchase of vehicles	442.6	116.12	119.92	126.27	97.91	-22.5	-18.3	-15.7	14.3
Operation of personal transport equipment	763.3	139.56	116.38	118.29	118.89	0.5	2.2	-14.8	2.1
Transport services	51.5	113.50	101.58	84.27	87.79	4.2	-13.6	-22.6	-1.2
Communications	849.6	97.87	91.24	93.34	105.42	12.9	15.5	7.7	-3.9
Telephone and telefax equipment	43.8	76.88	71.55	89.54	79.92	-10.7	11.7	4.0	-5.6
Telephone and telefax services	805.8	99.01	92.31	93.54	106.80	14.2	15.7	7.9	-3.8
Recreation and culture	1,013.3	99.64	101.62	94.55	94.55	0.0	-7.0	-5.1	0.4
Audio-visual, photographic and information processing equipment	58.5	105.10	90.91	70.23	78.28	11.5	-13.9	-25.5	-12.5
Other major durables for recreation and culture	20.0	100.78	85.51	94.61	95.34	0.8	11.5	-5.4	-2.4
Other recreational items and equipment; gardens and pets	266.6	103.50	109.89	108.25	105.45	-2.6	-4.0	1.9	6.8
Recreational and cultural services	309.1	101.93	102.19	102.26	101.48	-0.8	-0.7	-0.4	0.2
Newspapers, books and stationery	43.7	93.78	85.10	88.26	91.54	3.7	7.6	-2.4	7.6
Holidays	315.4	93.84	99.36	80.79	81.95	1.4	-17.5	-12.7	-3.4
Education	98.0	104.79	104.79	105.12	105.12	0.0	0.3	0.3	0.2
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	0.0
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	120.00	120.00	0.0	12.5	12.5	7.3
Restaurants and hotels	442.0	108.21	113.51	115.65	116.69	0.9	2.8	7.8	7.2
Catering services	429.8	109.81	113.82	117.60	118.65	0.9	4.2	8.1	7.1
Accommodation services	12.2	52.04	102.82	47.21	47.60	0.8	-53.7	-8.5	11.0
Miscellaneous goods and services	1,222.6	100.58	101.36	103.63	103.77	0.1	2.4	3.2	2.0
Personal care	427.1	97.96	99.67	103.35	103.11	-0.2	3.5	5.3	3.3
Personal effects n.e.c.	106.6	94.52	96.61	101.70	104.28	2.5	7.9	10.3	3.6
Social protection	78.2	126.67	126.67	133.33	133.33	0.0	5.3	5.3	5.9
Insurance	610.7	100.14	100.14	100.36	100.36	0.0	0.2	0.2	0.1
CPI	10,000.0	104.46	106.37	106.20	106.20	0.0	-0.2	1.7	5.6

Source: Central Bureau of Statistics Aruba

Table 17: Monthly & Yearly Effect on the Consumer Price Index per sector and category for July 2023 (Jun 2019 = 100)

DESCRIPTION	WEIGHT coefficient	Monthly	Ytd	End of period	Period average
		Jun - Jul	Dec - Jul	Jul 22 - Jul 23 12 months	Jul 21/22 - Jul 22/23 24 months
Food and non-alcoholic beverages	1,087.7	0.05	0.03	0.68	1.17
Food	964.1	0.03	-0.02	0.55	1.04
Non-alcoholic beverages	123.6	0.02	0.05	0.13	0.13
Alcoholic beverages and tobacco	78.2	0.00	0.03	0.04	0.04
Alcoholic beverages for consumption at home	62.2	0.00	0.02	0.03	0.03
Tobacco	16.0	0.00	0.01	0.01	0.01
Clothing and footwear	276.8	-0.04	-0.25	-0.18	-0.06
Clothing	212.8	0.01	-0.21	-0.13	-0.06
Footwear	64.0	-0.05	-0.04	-0.04	0.00
Housing	2,522.2	0.03	-0.37	2.29	2.78
Actual rentals for housing	666.7	0.01	0.06	0.10	0.10
Imputed rentals for housing	34.4	0.00	0.00	0.01	0.00
Maintenance and repair of the dwelling	517.0	0.02	0.09	0.22	0.24
Water supply and miscellaneous services relating to the dwelling	463.6	0.00	0.05	0.87	0.88
Electricity, gas and other fuels	840.4	0.00	-0.57	1.09	1.56
Household operation	929.2	0.14	0.38	0.36	0.42
Furniture, furnishings, carpets and other floor coverings	128.8	0.07	0.05	0.16	0.09
Household textiles	58.6	0.01	0.00	-0.01	-0.01
Household appliances	246.0	0.04	0.04	-0.10	0.14
Glassware, tableware and household utensils	17.2	0.00	-0.03	-0.03	-0.01
Tools and equipment for house and garden	58.2	0.02	0.12	0.09	0.05
Goods and services for routine household maintenance and cleaning	420.5	0.01	0.21	0.24	0.17
Health	223.1	-0.08	-0.05	0.04	0.08
Medical products, appliances and equipment	152.3	-0.10	-0.06	0.01	0.04
Out-patient services	52.4	0.01	0.01	0.02	0.04
Other treatments	7.8	0.00	0.00	0.00	0.00
Health products and services n.e.c.	10.5	0.01	0.00	0.01	0.00
Transport	1,257.4	-1.12	-0.80	-2.41	0.83
Purchase of vehicles	442.6	-1.18	-0.92	-0.77	0.66
Operation of personal transport equipment	763.3	0.04	0.18	-1.51	0.18
Transport services	51.5	0.02	-0.07	-0.13	-0.01
Communications	849.6	0.97	1.13	0.61	-0.32
Telephone and telefax equipment	43.8	-0.04	0.03	0.01	-0.02
Telephone and telefax services	805.8	1.01	1.10	0.60	-0.30
Recreation and culture	1,013.3	0.00	-0.67	-0.49	0.04
Audio-visual, photographic and information processing equipment	58.5	0.04	-0.07	-0.15	-0.07
Other major durables for recreation and culture	20.0	0.00	0.02	-0.01	0.00
Other recreational items and equipment; gardens and pets	266.6	-0.07	-0.11	0.05	0.18
Recreational and cultural services	309.1	-0.02	-0.02	-0.01	0.01
Newspapers, books and stationery	43.7	0.01	0.03	-0.01	0.03
Holidays	315.4	0.03	-0.52	-0.36	-0.10
Education	98.0	0.00	0.00	0.00	0.00
Pre primary and primary education	24.0	0.00	0.00	0.00	0.00
Secondary education	43.4	0.00	0.00	0.00	0.00
Post-secondary non-tertiary education	4.6	0.00	0.00	0.00	0.00
Tertiary education	23.6	0.00	0.00	0.00	0.00
Education not definable by level	2.5	0.00	0.00	0.00	0.00
Restaurants and hotels	442.0	0.04	0.13	0.36	0.33
Catering services	429.8	0.04	0.20	0.36	0.33
Accommodation services	12.2	0.00	-0.06	-0.01	0.01
Miscellaneous goods and services	1,222.6	0.02	0.28	0.37	0.24
Personal care	427.1	-0.01	0.14	0.21	0.14
Personal effects n.e.c.	106.6	0.03	0.08	0.10	0.04
Social protection	78.2	0.00	0.05	0.05	0.06
Insurance	610.7	0.00	0.01	0.01	0.01
CPI	10,000.0	0.01	-0.16	1.67	5.56

Source: Central Bureau of Statistics Aruba

Table 18: Monthly & Yearly Changes (%) and effect in the Food & catering services for July 2023, Total Population (Jun 2019 = 100)

DESCRIPTION	WEIGHT coefficient	% Change		Effect	
		Monthly Jun - Jul	End of period Jul 22 - Jul 23 12 months	Monthly Jun - Jul	End of period Jul 22 - Jul 23 12 months
Food & catering services	1,517.5	0.6	6.6	0.098	1.039
Food at home	1,087.7	0.5	6.0	0.055	0.675
Bread and cereals	178.1	-0.1	9.7	-0.003	0.179
Rice	23.5	-1.2	23.6	-0.004	0.059
Bread	72.1	0.2	3.4	0.002	0.027
Pasta products	9.2	-0.8	11.4	-0.001	0.011
Other cereals and cereal products	73.3	0.0	11.7	0.000	0.081
Meat	242.5	-0.3	1.1	-0.007	0.031
Bovine	67.3	-0.2	1.7	-0.001	0.013
Swine	25.5	2.0	-0.9	0.005	-0.003
Poultry	75.7	-0.8	-6.7	-0.006	-0.059
Other meat and meat preparations	74.0	-0.6	10.7	-0.005	0.080
Fish and other seafood	49.0	-0.1	0.7	0.000	0.003
Fish and seafood preparations	49.0	-0.1	0.7	0.000	0.003
Milk, cheese and eggs	135.3	1.6	8.3	0.025	0.122
Cheese	55.4	0.2	7.0	0.001	0.042
Eggs	16.6	6.1	-10.5	0.012	-0.026
Milk	40.0	1.4	18.2	0.007	0.072
Other milk products	23.3	1.8	14.8	0.005	0.034
Oils and fats	32.2	0.5	4.6	0.002	0.017
Corn oil	2.8	2.8	3.8	0.001	0.002
Butter and margarine	9.2	-2.3	-5.5	-0.002	-0.006
Other oils and fats	20.1	1.3	9.2	0.003	0.021
Fruit	97.6	-3.2	-2.6	-0.030	-0.025
Oranges	9.4	5.3	-5.0	0.006	-0.006
Bananas and plantains	19.9	-4.1	-3.7	-0.006	-0.006
Apples	9.3	3.8	-3.4	0.004	-0.003
Avocado	5.0	-0.6	-9.8	0.000	-0.004
Grapes	9.2	-12.8	22.7	-0.015	0.020
Nuts	11.9	0.0	5.8	0.000	0.007
Lemons and mandarins	6.0	-9.0	-8.8	-0.004	-0.004
Cherries and strawberries	8.8	-11.4	-21.1	-0.013	-0.027
Melons and watermelons	7.7	1.2	5.1	0.001	0.003
Papayas and pineapples	6.9	-2.9	-3.5	-0.002	-0.002
Other fruits and fruit products	3.5	-0.3	-4.2	0.000	-0.002
Potatoes and other tubers	18.2	7.8	-2.0	0.011	-0.003
Potatoes	12.2	14.5	-12.5	0.011	-0.012
Other tubers	2.0	0.4	22.2	0.000	0.005
Sweet potatoes and yucca	4.0	0.4	10.8	0.000	0.004
Vegetables	89.1	1.9	9.4	0.015	0.070
Lettuce	6.8	-3.6	-11.0	-0.001	-0.003
Tomatoes	9.7	1.3	-5.4	0.001	-0.005
Onions and garlic	18.7	5.3	20.5	0.009	0.031
Celery and broccoli	15.3	2.5	2.3	0.003	0.003
Other vegetables	15.3	1.6	10.1	0.002	0.013
Other preserved or processed vegetables	8.4	-0.1	10.9	0.000	0.009
Frozen vegetable mixtures	14.8	0.7	17.1	0.001	0.023
Sugar, jam, honey and other confectionery	42.0	3.0	12.9	0.014	0.056
Sugar	12.1	8.8	15.5	0.013	0.021
Jams and jellies	2.5	0.2	2.3	0.000	0.001
Other confectionery products	27.5	0.5	12.5	0.001	0.034
Food products n.e.c.	80.1	0.5	11.6	0.004	0.094
Other food products	80.1	0.5	11.6	0.004	0.094
Non-alcoholic beverages	123.6	1.7	10.2	0.023	0.130
Coffee and tea	20.9	2.7	17.5	0.006	0.036
Other non-alcoholic beverages	14.6	0.7	4.8	0.001	0.007
Soft and sports drinks	31.0	0.2	11.6	0.001	0.037
Fruit juices	57.1	2.4	8.3	0.015	0.050
Food away from home	429.8	0.9	8.1	0.043	0.364
Food and beverage consumption away from home	429.8	0.9	8.1	0.043	0.364
Other goods and services	8,482.5	-0.1	0.7	-0.091	0.631
Other goods	4,735.8	-2.3	-0.4	-1.116	-0.173
Other services	3,746.7	2.9	2.2	1.025	0.804
CPI	10,000	0.0	1.7	0.007	1.670

Source: Central Bureau of Statistics Aruba

Table 19: CPI: Main indices for July 2023, Total Population (Jun 2019 = 100)

DESCRIPTION	WEIGHT coefficient	2022	2022	2023	2023	Monthly	Ytd	End of period	Period average
		Jul	Dec	Jun	Jul	Jun - Jul	Dec - Jul	Jul 22 - Jul 23 12 months	Jul 21/22 - Jul 22/23 24 months
CPI for "All items"	10,000.0	104.46	106.37	106.20	106.20	0.0	-0.2	1.7	5.6
CPI for "Goods"	5,823.4	105.46	108.82	108.30	106.36	-1.8	-2.3	0.9	8.6
CPI for "Durable goods"	1,294.8	103.98	104.96	107.89	98.99	-8.3	-5.7	-4.8	6.3
CPI for "Semi-durable goods"	635.9	92.05	92.31	87.63	87.66	0.0	-5.0	-4.8	-1.2
CPI for "Non-durable goods"	3,892.8	108.15	112.80	111.81	111.87	0.1	-0.8	3.4	10.8
CPI for "Services"	4,176.6	103.06	102.96	103.27	105.98	2.6	2.9	2.8	1.4
CPI for "Gasoline" and "Diesel"	460.6	160.89	121.45	121.60	121.95	0.3	0.4	-24.2	-0.2
CPI for "Energy"	1,638.1	112.36	116.60	112.92	113.02	0.1	-3.1	0.6	14.0
CPI for "Food at home"	1,087.7	108.15	114.32	114.10	114.63	0.5	0.3	6.0	10.6
CPI excluding "Food and non-alcoholic beverages"	8,912.3	104.01	105.40	105.23	105.18	-0.1	-0.2	1.1	4.9
CPI excluding "Gasoline" and "Diesel"	9,539.4	101.73	105.64	105.45	105.44	0.0	-0.2	3.6	5.9
CPI excluding "Food and non-alcoholic beverages", "Gasoline" and "Diesel"	8,451.7	100.91	104.53	104.34	104.26	-0.1	-0.3	3.3	5.3
CPI excluding "Rentals actually paid by tenants or subtenants"	9,333.3	104.44	106.45	106.20	106.20	0.0	-0.2	1.7	5.9
CPI excluding "Housing"	7,477.8	106.21	105.04	105.37	105.34	0.0	0.3	-0.8	3.7
CPI excluding "Gasoline", "Diesel", "Water" and "Electricity"	8,361.9	102.91	104.37	104.88	104.87	0.0	0.5	1.9	3.9

Source: Central Bureau of Statistics Aruba

Table 20: CPI: Effect on main indices for July 2023, Total Population (Jun 2019 = 100)

DESCRIPTION	WEIGHT coefficient	Monthly	Ytd	End of period	Period average
		Jun - Jul	Dec - Jul	Jul 22 - Jul 23 12 months	Jul 21/22 - Jul 22/23 24 months
CPI for "All items"	10,000.0	0.01	-0.16	1.67	5.56
CPI for "Goods"	5,823.4	-1.06	-1.35	0.50	4.98
CPI for "Durable goods"	1,294.8	-1.09	-0.73	-0.62	0.81
CPI for "Semi-durable goods"	635.9	0.00	-0.28	-0.27	-0.07
CPI for "Non-durable goods"	3,892.8	0.02	-0.34	1.39	4.24
CPI for "Services"	4,176.6	1.07	1.19	1.17	0.58
CPI for "Gasoline" and "Diesel"	460.6	0.02	0.02	-1.72	-0.01
CPI for "Energy"	1,638.1	0.02	-0.55	0.10	2.32
CPI for "Food at home"	1,087.7	0.06	-0.02	0.55	1.04
CPI excluding "Food and non-alcoholic beverages"	8,912.3	-0.05	-0.19	1.00	4.39
CPI excluding "Gasoline" and "Diesel"	9,539.4	-0.01	-0.18	3.39	5.57
CPI excluding "Food and non-alcoholic beverages", "Gasoline" and "Diesel"	8,451.7	-0.06	-0.21	2.71	4.40
CPI excluding "Rentals actually paid by tenants or subtenants"	9,333.3	0.00	-0.22	1.57	5.46
CPI excluding "Housing"	7,477.8	-0.02	0.21	-0.62	2.78
CPI excluding "Gasoline", "Diesel", "Water" and "Electricity"	8,361.9	-0.01	0.39	1.57	3.24

Source: Central Bureau of Statistics Aruba

Course of Indices for 2011 up to July 2023



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 July 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.