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A note to the reader

The following report presents the price statistics for April 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 April 2023, the Consumer Price Index (CPI) shows a decrease of 0.3% compared to the end of March 2023. The sector which affected the CPI the most was "Transport" (-2.1%), which led to an effect of -0.31 percentage points (ppts) on the Δ CPI of April 2023 (-0.3%).
- Compared to April 2022 the CPI increased by 4.9%. The sector which affected the CPI the most was "Housing" (12.5%), which led to an effect of 3.05 ppts.
- The period average inflation for the periods April 2021 to April 2022 and April 2022 to April 2023 is 6.3%, which is 3.7 ppts higher compared to the period average inflation for the periods April 2020 to April 2021 and April 2021 to April 2022 (2.6%).
- Utilities (Water and Electricity) did not register price changes in April 2023. The price of gasoline registered an increase of 1.9% in April 2023 and had an effect of 0.09 ppts. The price of diesel registered a decrease of 1.4% in April 2023 and contributed with an effect -0.01 ppt on the Δ CPI of April 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.

For other specific information contact us at CBS or visit www.cbs.aw.

Contact information:

Central Bureau of Statistics L.G. Smith Boulevard 160 Oranjestad - Aruba

Phone: 524-7436 Fax: 583-8057

E-mail: LdSilva@cbs.aw

1 Monthly change of the CPI

1.1 CPI and Inflation

The CPI of the total population of Aruba for the month of April 2023 is 107.12; a decrease of 0.3% compared to the CPI of March 2023 (107.47). 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 4.9%, while the inflation over a period of 24 months (period average inflation) is 6.3%.

Table 1: Overview of Δ CPI

		% Changes		Inc	dex
Period		2022 2023 Last		Current	
Monthly	Mar - Apr	0.7	-0.3	107.47	107.12
Year-to-date	Dec - Apr	1.5	0.7	106.37	107.12
Last 12 months ¹	Apr - Apr	4.7	4.9	102.16	107.12
Last 24 months ²	Apr - Apr	2.6	6.3	99.67	105.91

Source: Central Bureau of Statistics Aruba

Figure 1 depicts the monthly Δ CPI over a period of one year starting from April 2022, whereas the Δ CPI for the month April for the years 2014 to 2023 is illustrated in Figure 2.

1.2 Changes in sector

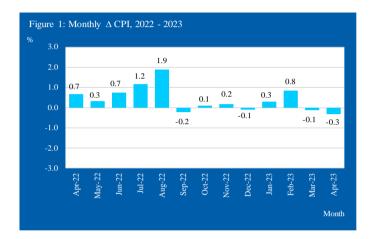
Figure 3 provides an overview of the percentage changes for the indices per sector for April 2023. The percentage change in index is further denoted as Δ I. The largest Δ I is observed for the "Health" sector with an increase of 6.1%.

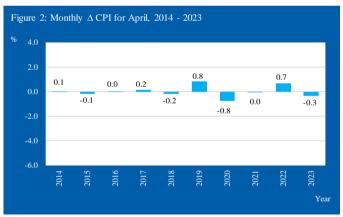
1.3 Changes in categories and subcategories

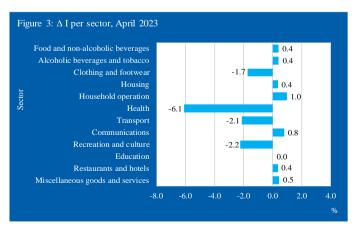
The largest positive and negative Δ I is seen in the categories "Telephone and telefax equipment" (20.8%) and "Accommodation services" (-42.2%). In the "Food and non-alcoholic beverages" sector increases of respectively, 0.2% and 1.8% were observed for the categories "Food" and "Non-alcoholic beverages". In the "Housing" sector the major Δ I is observed for the category "Water supply and miscellaneous services relating to the dwelling" (1.0%). In the "Transport" sector the major Δ I is observed for the category "Transport services" (-12.9%). In the "Recreation and culture" sector the major Δ I is observed for the category "Other major durables for recreation and culture" (8.8%)1.

The categories which influenced the CPI calculation the most are "Purchase of vehicles", "Holidays" and "Tools and equipment for house and garden" which had an effect of respectively, -0.27, -0.20

and 0.12 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 April 2022, December 2022, March 2023 and April 2023 together with corresponding weights per sector and the monthly, year-to-date (ytd), end of period and period average percentage changes for April 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 April 2023 is presented. The course of indices for 2011 - up to April 2023 is illustrated in Appendix 5.







¹ 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.

¹ End of period inflation

² Period average inflation

2 End of period change of the CPI

2.1 End of period change CPI for April 2023

The CPI increased from 102.16 in April 2022 to 107.12 in April 2023, an increase of 4.9%. This Δ CPI is the highest registered over a period of 6 years for the month April, and is 0.2 ppts higher than the \triangle CPI registered in 2022 (4.7%) (see table 2).

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

Period	Δ CPI	Index
2017-2018	2.8	94.54
2018-2019	4.5	98.83
2019-2020	-0.9	97.93
2020-2021	-0.4	97.57
2021-2022	4.7	102.16
2022-2023	4.9	107.12

Source: Central Bureau of Statistics Aruba

2.2 Changes in sector

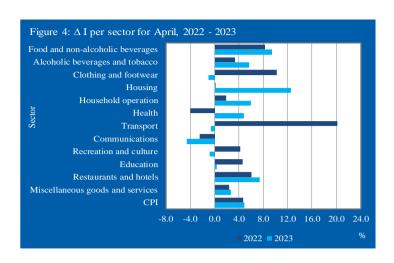
An overview of the percentage change per sector over the period April 2022 - April 2023 is presented in table 3. The largest Δ I is observed for the sector "Housing" with an increase of 12.5%. Furthermore, (remarkable) increases of 9.4%, 7.4% and 5.9% are observed for the "Food and non-alcoholic beverages", "Restaurants and hotels" and "Household operation" 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 April, 2022 - 2023

Sector	% Change				
Food and non-alcoholic beverages	9.4				
Alcoholic beverages and tobacco	5.6				
Clothing and footwear	-1.0				
Housing	12.5				
Household operation	5.9				
Health	4.8				
Transport	-0.6				
Communications	-4.6				
Recreation and culture	-0.8				
Education	0.3				
Restaurants and hotels	7.4				
Miscellaneous goods and services	2.6				
СРІ	4.9				
Source: Central Bureau of Statistics Aruba					

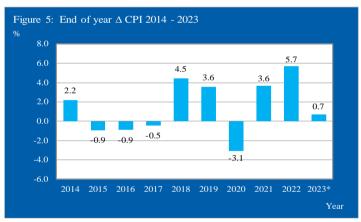
2.3 Changes in categories

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 "Accommodation services" (-32.4%). For an overview of the end of period percentage changes per category refer to table 16 in Appendix 1.



2.4 End of year change CPI 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 April 2023 with the CPI of December 2022. The ytd Δ CPI for April 2023 is 0.7%.



*ytd

2.5 Period average change CPI for April 2023

The period average change CPI (Δ ACPI) for April 2023 is 6.3%. Table 4 provides an overview of the \triangle ACPI for the month April for the years 2019 to 2023. The Δ ACPI for 2023 increased by 3.7 ppts compared to 2022 (2.6%).

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

Period	Δ ΑСΡΙ	Index
2018-2019	4.1	96.38
2019-2020	3.2	99.43
2020-2021	-2.3	97.18
2021-2022	2.6	99.67
2022-2023	6.3	105.91

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 April 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

Table 5: Prices of utilities, gasoline and diesel, 2022 - 2023

		, 0	•				
		Total	Total				
	Crude oil	energy charge ²	energy charge ²				
Month	per barrel ¹	≤ 500 kWh	501-1000 kWh	Electricity ³	Water ⁴	Gasoline ⁵	Diesel ⁵
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
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

Source: Central Bureau of Statistics Aruba

3.2 Electricity

The price of electricity is determined in Aruban florins (Afl.) for an average usage by households. The average usage is 725.5 kWh per month. The electricity price for an average consumption of 725.5 kWh did not change in April 2023, it remained at Afl. 294.56. Figure 6-1 provides an overview of the course of changes in the electricity price for the period 2015 to 2023.

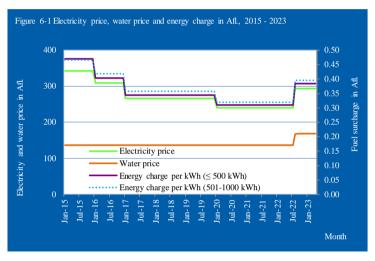
The total energy charge per kWh for a usage of electricity up to 500 kWh did not change in April 2023, it stayed at Afl. 38.53 cents per kWh. The total energy charge per kWh for a usage of electricity between 501 - 1000 kWh did not change in April 2023, it stayed at Afl. 39.65 cents per kWh.

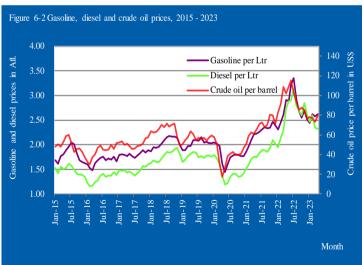
3.3 Water

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 2015 to 2023. The water price for an average usage by households did not change in April 2023, it remained at Afl. 168.73.

3.4 Gasoline and Diesel

The retail price of gasoline increased by 1.9% from 257.6 cents per liter in March 2023 to 262.4 cents per liter in April 2023. In April 2023, the retail price of diesel registered a decrease of 1.4% from 234.8 cents per liter in March 2023 to 231.5 cents per liter in April 2023.





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

² Total energy charge in Afl. cents per kWh

³ Electricty price in Afl.

⁴ Water price in Afl.

⁵ 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 April 2022. In April 2023 the Δ CPI of the USA and the Netherlands were 0.5% and 1.0%, respectively. The Δ CPI of Curação for April 2023 is not yet available.

Table 6: Monthly Δ CPI 2022 - 2023 per Country

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

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

CBS Curação 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 April 2023. Aruba's monthly Δ CPI for April 2023 is 1.3 ppts lower than the \triangle CPI of the USA.

Table 7: Overview of Δ CPI, 2023

Period		Aruba	USA
Monthly	Mar - Apr	-0.3	1.0
Year-to-date	Mar - Apr	0.7	0.9
Last 12 months ¹	Mar - Apr	4.9	5.2
Last 24 months ²	Mar - Apr	6.3	9.4

Source: Central Bureau of Statistics Aruba

The Δ CPI of Aruba over the last 12 months is 0.3 ppts lower compared to the USA's 12-month Δ CPI. The Δ CPI over the last 24 months for Aruba is 3.1 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 2013 - 2023 for Aruba and the USA is provided in table 8 and figure 8.

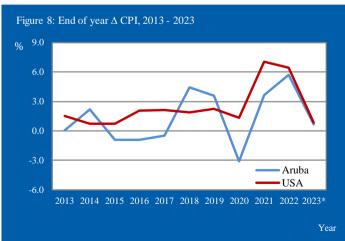
Table 8: End of year Δ CPI, 2013 - 2023

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*	0.7	0.9

Source: Central Bureau of Statistics Aruba

* ytd





¹ End of period inflation

² Period average inflation

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

5 Core inflation

5.1 Core inflation

Core inflation is a measure of inflation which excludes certain items that face volatile price movements e.g. food products and energy. By calculating the core inflation these more volatile components are eliminated from the inflation. Core inflation indices serve to assess the mid- and long-term trend of the overall price level. For the purpose of adjusting monetary policy, many economists focus more intently on the core rate of inflation, as this allows for an in-depth assessment of inflationary processes ongoing in the economy.

5.2 Monthly change of the core inflation

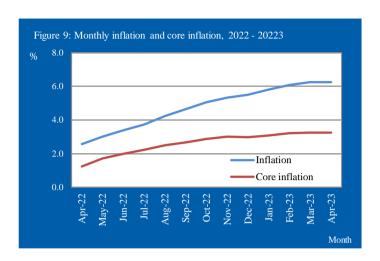
In April 2023 the core inflation (measured over the period April 2022 - 2023) was 3.3%. In April 2023 the food index was 11.9%, while the energy index shows an increase of 16.5%.

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

	-			
				Core
Period	Inflation	Food	Energy ²	Inflation
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
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

Source: Central Bureau of Statistics Aruba

The monthly inflation and core inflation for Aruba is shown in figure 9 over a period of one year starting from April 2022.



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

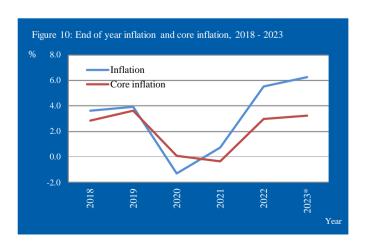
The end of year core inflation of the total population of Aruba for the year 2023 (up to April) is 3.3%, an increase of 0.3 ppts compared to the core inflation of 2022. Table 10 provides an overview of the end of year inflation and core inflation over the period 2018 - 2023.

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	6.3
Food	7.3	10.5	-0.8	-0.3	10.5	11.9
Electricity	1.7	2.1	-9.2	0.0	9.5	17.0
Water	1.7	2.1	0.5	0.0	9.6	17.3
Gasoline and diesel	15.8	1.0	-12.3	25.6	24.8	15.4
Core inflation	2.8	3.6	0.1	-0.3	3.0	3.3

^{*}current month



¹ Period average inflation

² Energy: Electricity, water, gasoline and diesel

6 Development of Food & catering services

6.1 Monthly change of Food & catering services for **April 2023**

The "Food & catering services" index showed an increase of 0.6% in April 2023, after a decrease of 0.2% in March 2023. The index for "Food at home" showed an increase of 0.4% in April, as six (6) of the eleven (11) "Food at home" indices increased in April 2023. The "Non-alcoholic beverages" index registered the largest increase (1.8%) in April 2023. Furthermore, other significant increases were posted in the indices for "Food products n.e.c." (1.5%), "Fish and other seafood" (1.2%) and "Vegetables" (0.9%). The largest decrease was registered in the index for "Potatoes and other tubers" (-1.0%) in April 2023.

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

Table 11: Percentage change of Food for April 2023

		Monthly		Yearl	у
Food	Weight	% Change	Effect	% Change	Effect
Food & catering services	1,492.8	0.6	0.103	9.0	1.419
Food at home	1,125.3	0.4	0.047	9.4	1.047
Bread and cereals	205.2	0.3	0.005	11.1	0.203
Meat	229.8	0.0	0.000	9.1	0.235
Fish and other seafood	56.4	1.2	0.006	4.9	0.025
Milk, cheese and eggs	140.0	0.3	0.004	15.2	0.218
Oils and fats	31.6	-0.3	-0.001	8.3	0.030
Fruit	72.0	-0.8	-0.008	0.7	0.007
Potatoes and other tubers	18.5	-1.0	-0.001	6.6	0.009
Vegetables	75.7	0.9	0.007	8.3	0.063
Sugar, jam, honey and other confectionery	49.6	-0.2	-0.001	10.1	0.044
Food products n.e.c.	82.7	1.5	0.013	10.8	0.088
Non-alcoholic beverages	163.9	1.8	0.023	9.7	0.033
Food away from home	367.5	1.2	0.056	8.1	0.372
Other goods and services	8,507.2	-0.5	-0.428	4.1	3.439
Other goods	5,147.2	-0.3	-0.141	7.7	3.625
Other services	3,360.0	-0.8	-0.287	-0.5	-0.186
СРІ	10,000.0	-0.3	-0.325	4.9	4.857

Source: Central Bureau of Statistics Aruba

In April 2023, "Food at home" and "Food away from home" as a group showed an increase in price of 0.6% compared to March 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 0.5%, causing an effect of -0.43 ppts on the CPI.

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

Table 12: Effect on the CPI of April 2023 of "Food at home" and "Food away from home"

Category	Weight	% Change	Effect						
Food at home	1,087.7	0.4	0.05						
Food away from home	429.8	1.2	0.06						
Total group	1,517.5	0.6	0.10						
Remaining goods and services	8,482.5	-0.5	-0.43						
CPI	10,000.0	-0.3	-0.32						
Source: Central Bureau of Statistics Aruba									

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



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

Over the last 12 months, the "Food & catering services" increased by 9.0%. The "Food at home" index showed an increase of 9.4%, where all of the "Food at home" food groups increased over the period.

The "Milk, cheese and eggs" index increased by 15.2%, the largest increase among the "Food at home" food groups. Furthermore, other significant increases were posted in the indices for "Bread and cereals" (11.1%), "Food products n.e.c." (10.8%), "Sugar, jam, honey and other confectionery" (10.1%), "Non-alcoholic beverages" (9.7%), "Meat" (9.1%), "Oils and fats" (8.3%), "Vegetables" (8.3%) and "Potatoes and other tubers" (6.6%).

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 April 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 April 2010 and is monthly updated for inflation using the monthly CPI. The reference unit used in this report is one of a household consisting of two adults and two children (aged 0-14

7.2 Monthly change of the subsistence level for April 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 April. Over a period of one year the subsistence level increased by Afl. 381, from Afl. 5,003 in April 2022 to Afl. 5,384 in April 2023. The "Food and non-alcoholic beverages" (Afl. 192) and "Housing" (Afl. 182) 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 April, 2019 - 2023

			Change in Afl.			
Sector	Apr-19	Apr-20	Apr-21	Apr-22	Apr-23	Apr-22 - Apr-23
Food and non-alcoholic beverages	1,906	1,934	1,885	2,041	2,233	192
Clothing and footwear	270	273	226	249	247	-2
Housing	1,452	1,440	1,453	1,455	1,637	182
Household operation	113	109	107	109	115	6
Health	82	82	79	76	80	4
Transport	284	262	292	351	349	-2
Communications	151	151	153	149	142	-7
Recreation and culture	170	169	157	164	163	-1
Education	73	74	74	78	78	0
Miscellaneous goods and services	324	327	323	331	339	8
Total	4,825	4,821	4,750	5,003	5,384	381

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

Source: Central Bureau of Statistics Aruba

Table 14: Subsistence level in Aruba (in Afl.) by family size and composition, April 2023 (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
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
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

Source: Central Bureau of Statistics Aruba

7.3 Comparison of the subsistence level and minimum wage

In April 2023 the subsistence level for a single adult household is Afl. 2,564, which represents an income deficit of Afl. 671, an increase of Afl. 104 compared to the deficit observed one year ago (Afl. 567). This deficit is the highest registered over a period of six years for the month April.

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

		Minimum	
Period	1 adult	wage	Surplus/deficit
2018	2,164	1,711	-453
2019	2,298	1,711	-587
2020	2,296	1,815	-481
2021	2,262	1,815	-447
2022	2,382	1,815	-567
2023	2,564	1,893	-671



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

DESCRIPTION	WEIGHT	2022	2022	2023	2023	Monthly	Ytd	End of period	Period average
		Apr	Dec	Mar	Apr	Mar - Apr	Dec - Apr	Apr 22 - Apr 23	Apr 21/22 - Apr 22/23
	coefficient						·	12 months	24 months
Food and non-alcoholic beverages	1,087.7	104.52	114.32	113.88	114.35	0.4	0.0	9.4	11.6
Food				113.89		0.2	-0.1	9.4	11.9
Non-alcoholic beverages	123.6	105.64	114.36	113.83	115.83	1.8	1.3	9.7	9.5
Alcoholic beverages and tobacco	78.2	103.96	106.28	109.34	109.80	0.4	3.3	5.6	4.9
Alcoholic beverages for consumption at home	62.2	102.75	105.75	107.60	108.09	0.5	2.2	5.2	5.2
Tobacco	16.0	108.64	108.32	116.12	116.45	0.3	7.5	7.2	3.5
Clothing and footwear		91.41	95.40	92.09	90.49	-1.7	-5.1	-1.0	0.3
Clothing		93.43 84.67	98.09	93.23	90.01	-3.5	-8.2	-3.7	0.4
Footwear	64.0	84.67	86.46	88.29	92.10	4.3	6.5	8.8	0.0
Housing	2,522.2	98.53	110.31	110.48	110.88	0.4	0.5	12.5	8.8
Actual rentals for housing				105.74		0.1	0.5	1.5	1.5
Imputed rentals for housing		92.26			94.59	0.0	0.0	2.5	-3.7
Maintenance and repair of the dwelling				106.84	107.51	0.6	0.9	6.6	2.7
Water supply and miscellaneous services relating to the dwelling				120.59		1.0	1.0	19.1	14.3
Electricity, gas and other fuels	840.4	90.72	111.55	111.55	111.55	0.0	0.0	23.0	16.9
Household operation	929.2	97.78	99.17	102.58	103.59	1.0	4.5	5.9	5.4
Furniture, furnishings, carpets and other floor coverings	128.8	78.91	81.61	77.08	85.06	10.4	4.2	7.8	10.5
Household textiles	58.6	76.97		74.55		0.3	-1.1	-2.8	-2.3
Household appliances		97.05		107.89		-4.5	3.2	6.1	7.9
Glassware, tableware and household utensils		69.28	78.74	78.74	65.79	-16.4	-16.5	-5.0	-0.9
Tools and equipment for house and garden				131.55		16.9	17.8	14.4	10.4
Goods and services for routine household maintenance and cleaning	420.5	102.99	103.93	108.15	108.23	0.1	4.1	5.1	3.0
Health	222 1	92.56	00 02	103.34	07.02	-6.1	-2.9	4.8	3.5
Medical products, appliances and equipment		88.42		100.93		-7.7	-4.8	5.3	2.1
Out-patient services				108.58		-3.2	-0.3	5.6	9.4
Other treatments		96.75		102.20		-3.8	-0.9	1.6	7.0
Health products and services n.e.c.				112.85		-0.4	7.6	-1.9	-5.7
·									
Transport	1,257.4	120.57	117.02	122.42	119.81	-2.1	2.4	-0.6	13.7
Purchase of vehicles	442.6	111.64	119.92	130.14	123.56	-5.1	3.0	10.7	17.7
Operation of personal transport equipment	763.3	126.44	116.38	120.26	120.54	0.2	3.6	-4.7	11.9
Transport services	51.5	110.30	101.58	88.11	76.70	-12.9	-24.5	-30.5	7.8
Communications			91.24		93.12	0.8	2.1	-4.6	-4.0
Telephone and telefax equipment		71.96	71.55	70.69	85.37	20.8	19.3	18.6	-10.0
Telephone and telefax services	803.8	99.01	92.31	95.54	93.54	0.0	1.3	-5.5	-3.8
Recreation and culture	1,013.3	98.17	101.62	99.60	97.38	-2.2	-4.2	-0.8	1.2
Audio-visual, photographic and information processing equipment		93.57	90.91	83.95	79.08	-5.8	-13.0	-15.5	-4.9
Other major durables for recreation and culture	20.0	103.17	85.51	90.14	98.11	8.8	14.7	-4.9	2.1
Other recreational items and equipment; gardens and pets	266.6	100.74	109.89	109.36	109.22	-0.1	-0.6	8.4	6.2
Recreational and cultural services	309.1	101.89	102.19	103.12	102.26	-0.8	0.1	0.4	0.7
Newspapers, books and stationery	43.7	83.70	85.10	85.14	91.91	8.0	8.0	9.8	6.5
Holidays	315.4	94.90	99.36	93.42	86.70	-7.2	-12.7	-8.6	-2.3
Education				105.12		0.0	0.3	0.3	1.2
Pre primary and primary education				100.00		0.0	0.0	0.0	0.0
Secondary education				110.44		0.0	0.0	0.0	2.4
Post-secondary non-tertiary education				100.00		0.0	0.0	0.0	0.0
Tertiary education				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	4.2
Restaurants and hotels	442 N	107.57	113.51	115.12	115,53	0.4	1.8	7.4	6.9
Catering services				116.07		1.2	3.2	8.1	6.7
Accommodation services				81.56		-42.2	-54.1	-32.4	22.0
Miscellaneous goods and services	1,222.6	100.29	101.36	102.45	102.92	0.5	1.5	2.6	1.9
Personal care	427.1	97.69	99.67	101.07	101.28	0.2	1.6	3.7	2.5
Personal effects n.e.c.	106.6	92.27	96.61	97.26	101.83	4.7	5.4	10.4	2.6
Social protection	78.2	126.67	126.67	133.33	133.33	0.0	5.3	5.3	10.5
Insurance	610.7	100.14	100.14	100.36	100.36	0.0	0.2	0.2	0.1
	10,000.0					-0.3	0.7	4.9	6.3



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

DESCRIPTION	WEIGHT	Monthly	Ytd	End of period	Period average
		Mar - Apr	Dec - Apr	Apr 22 - Apr 23	Apr 21/22 - Apr 22/
	coefficient			12 months	24 months
Food and non-alcoholic beverages	1,087.7	0.05	0.00	1.05	1.27
Food	964.1	0.02	-0.01	0.92	1.15
Non-alcoholic beverages	123.6	0.02	0.02	0.12	0.12
non diconone beveloges	125.0	0.02	0.02	0.12	0.12
Alcoholic beverages and tobacco	78.2	0.00	0.03	0.04	0.04
Alcoholic beverages for consumption at home	62.2	0.00	0.01	0.03	0.03
Tobacco	16.0	0.00	0.01	0.01	0.01
Clothing and footwear	276.8	-0.04	-0.13	-0.02	0.01
Clothing	212.8	-0.06	-0.16	-0.07	0.01
Footwear	64.0	0.02	0.03	0.05	0.00
Housing	2,522.2	0.09	0.14	3.05	2.20
Actual rentals for housing	666.7	0.01	0.03	0.10	0.10
Imputed rentals for housing	34.4	0.00	0.00	0.01	-0.01
Maintenance and repair of the dwelling	517.0	0.03	0.05	0.34	0.14
Water supply and miscellaneous services relating to the dwelling	463.6	0.05	0.05	0.89	0.67
Electricity, gas and other fuels	840.4	0.00	0.00	1.71	1.29
Household operation	020.2	0.00	0.20	0.53	0.40
•	929.2	0.09	0.39	0.53	0.49
Furniture, furnishings, carpets and other floor coverings	128.8	0.10	0.04	0.08	0.10
Household textiles Household appliances	58.6	0.00	0.00 0.07	-0.01 0.14	-0.01
Glassware, tableware and household utensils	246.0 17.2	-0.11 -0.02	-0.02	-0.01	0.19 0.00
Tools and equipment for house and garden	58.2	0.12	0.13	0.11	0.08
Goods and services for routine household maintenance and cleaning	420.5	0.00	0.17	0.22	0.13
social and set rices for routine modernous maintenance and decaring	120.5	0.00	0.17	0.22	0.13
Health	223.1	-0.13	-0.06	0.10	0.08
Medical products, appliances and equipment	152.3	-0.11	-0.07	0.07	0.03
Out-patient services	52.4	-0.02	0.00	0.03	0.05
Other treatments	7.8	0.00	0.00	0.00	0.01
Health products and services n.e.c.	10.5	0.00	0.01	0.00	-0.01
Transport	1,257.4	-0.31	0.33	-0.09	1.84
Purchase of vehicles	442.6	-0.27	0.15	0.52	0.79
Operation of personal transport equipment	763.3	0.02	0.30	-0.44	1.01
Transport services	51.5	-0.05	-0.12	-0.17	0.04
Communications	849.6	0.06	0.15	-0.37	-0.34
Telephone and telefax equipment	43.8	0.06	0.06	0.06	-0.04
Telephone and telefax services	805.8	0.00	0.09	-0.43	-0.30
Recreation and culture	1,013.3	-0.21	-0.40	-0.08	0.12
Audio-visual, photographic and information processing equipment	58.5	-0.03	-0.07	-0.08	-0.03
Other major durables for recreation and culture	20.0	0.01	0.02	-0.01	0.00
Other recreational items and equipment; gardens and pets	266.6	0.00	-0.02	0.22	0.17
Recreational and cultural services	309.1	-0.02	0.00	0.01	0.02
Newspapers, books and stationery	43.7	0.03	0.03	0.04	0.02
Holidays	315.4	-0.20	-0.38	-0.25	-0.07
Education	98.0	0.00	0.00	0.00	0.01
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	0.01
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
Destaurants and betelo	443.0	0.02	0.00	0.34	0.22
Restaurants and hotels	442.0	0.02	0.08	0.34	0.32
Catering services Accommodation services	429.8 12.2	0.06 -0.04	0.15 -0.06	0.37 -0.03	0.30 0.02
Accommodation services	12.2	-0.04	-0.06	-0.03	0.02
Miscellaneous goods and services	1 222 6	0.05	n 10	n 21	0.22
Miscellaneous goods and services Personal care	1,222.6 427.1	0.05	0.18 0.06	0.31 0.15	0.23 0.10
Personal care Personal effects n.e.c.	106.6	0.01	0.05	0.15	0.10
Social protection	78.2	0.05	0.05	0.10	0.03
Social protection			0.01	0.03	0.10
Incurance	610.7				
Insurance	610.7	0.00	0.01	0.01	0.00



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

	1	9/ (Effect			
CCRIPTION	WEIGHT	Monthly	End of period	Monthly	End of period	
	***************************************	Mar - Apr	Apr 22 - Apr 23	Mar - Apr	Apr 22 - Apr 2	
	coefficient		12 months		12 months	
od & catering services	1,517.5	0.6	9.0	0.103	1.419	
Food at home	1,087.7	0.4	9.4	0.047	1.047	
rood at nome		0.4	9.4			
Bread and cereals	178.1	0.3	11.1	0.005	0.203	
Rice	23.5	-0.9	32.6	-0.003	0.079	
Bread	72.1	0.4	1.1	0.003	0.009	
Pasta products	9.2	1.0	11.1	0.001 0.004	0.011	
Other cereals and cereal products	73.3	0.5	15.4	0.004	0.104	
Meat	242.5	0.0	9.1	0.000	0.235	
Bovine	67.3	0.1	7.7	0.001	0.057	
Swine	25.5	-3.3	4.6	-0.009	0.013	
Poultry	75.7	0.1	12.5	0.001	0.097	
Other meat and meat preparations	74.0	0.9	8.8	0.007	0.069	
Fish and other seafood	49.0	1.2	4.9	0.006	0.025	
Fish and seafood preparations	49.0	1.2	4.9	0.006	0.025	
rish and scarood preparations	43.0		4.5	0.000	0.023	
Milk, cheese and eggs	135.3	0.3	15.2	0.004	0.218	
Cheese	55.4	1.3	10.5	0.008	0.062	
Eggs	16.6	-2.7	26.8	-0.007	0.059	
Milk	40.0	1.1	16.0	0.005	0.064	
Other milk products	23.3	-0.6	14.6	-0.001	0.033	
Oils and fats	32.2	-0.3	8.3	-0.001	0.030	
Corn oil	2.8	1.1	12.5	0.000	0.005	
Butter and margarine	9.2	-3.5	4.7	-0.003	0.005	
Other oils and fats	20.1	0.8	9.2	0.002	0.021	
Fruit	97.6	-0.8	0.7	-0.008	0.007	
Oranges	9.4	2.0	-4.8	0.002	-0.006	
Bananas and plantains	19.9	0.3	9.3	0.000	0.015	
Apples	9.3	-0.2	-4.8	0.000	-0.005	
Avocado	5.0	-3.9	1.9	-0.002	0.001	
Grapes	9.2	-14.1	-8.1	-0.014	-0.008	
Nuts	11.9	4.9	9.6	0.005	0.011	
Lemons and mandarins	6.0	1.8	-13.9	0.001	-0.008	
Cherries and strawberries	8.8	4.6	-4.0	0.005	-0.005	
Melons and watermelons	7.7	-4.0	5.4	-0.003	0.004	
Papayas and pineapples	6.9	-3.1	11.9	-0.002	0.006	
Other fruits and fruit products	3.5	-3.6	7.5	-0.001	0.003	
Potatoes and other tubers	18.2	-1.0	6.6	-0.001	0.009	
Potatoes Potatoes	12.2	-1.0 -4.3	-4.3	-0.001	-0.004	
Other tubers	2.0	3.9	24.5	0.001	0.004	
Sweet potatoes and yucca	4.0	2.7	22.1	0.001	0.003	
Sweet potatoes and yucca	4.0	2.7	22.1	0.001	0.008	
Vegetables	89.1	0.9	8.3	0.007	0.063	
Lettuce	6.8	-13.9	-39.0	-0.004	-0.017	
Tomatoes	9.7	1.5	21.1	0.001	0.017	
Onions and garlic	18.7	5.9	11.6	0.009	0.018	
Celery and broccoli	15.3	6.0	1.7	0.007	0.002	
Other vegetables	15.3	-5.5	6.5	-0.008	0.008	
Other preserved or processed vegetables	8.4	1.7	14.5	0.002	0.012	
Frozen vegetable mixtures	14.8	-0.2	16.5	0.000	0.022	
Sugar, jam, honey and other confectionery	42.0	-0.2	10.1	-0.001	0.044	
Sugar	12.1	1.4	7.6	0.002	0.010	
Jams and jellies	2.5	0.3	4.9	0.002	0.010	
Other confectionery products	27.5	-0.9	11.8	-0.003	0.001	
		5.5				
Food products n.e.c.	80.1	1.5	10.8	0.013	0.088	
Other food products	80.1	1.5	10.8	0.013	0.088	
Non-alcoholic beverages	123.6	1.8	9.7	0.023	0.123	
Coffee and tea	20.9	0.0	14.5	0.000	0.029	
Other non-alcoholic beverages	14.6	0.5	3.9	0.001	0.025	
Soft and sports drinks	31.0	-0.1	12.2	0.001	0.006	
Fruit juices	57.1	3.8	8.0	0.023	0.040	
<i>j</i>		3.0	5.0			
Food away from home	429.8	1.2	8.1	0.056	0.372	
Food and beverage consumption away from home	429.8	1.2	8.1	0.056	0.372	
ner goods and services	8,482.5	-0.5	4.1	-0.428	3.439	
	4,735.8	-0.3	7.7	-0.141	3.625	
Other goods						
Other services	3,746.7	-0.8	-0.5	-0.287	-0.186	

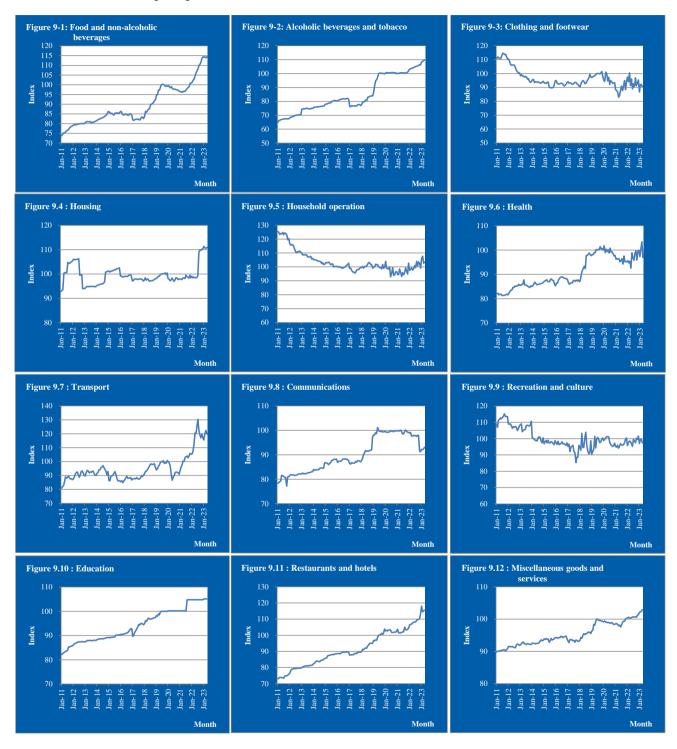
Table 19: CPI: Main indices for April 2023, Total Population (Jun 2019 = 100)

DESCRIPTION	WEIGHT	2022	2022	2023	2023	Monthly	Ytd	End of period	Period average
		Apr	Dec	Mar	Apr	Mar - Apr	Dec - Apr	Apr 22 - Apr 23	Apr 21/22 - Apr 22/23
	coefficient							12 months	24 months
CPI for "All items"	10,000.0	102.16	106.37	107.47	107.12	-0.3	0.7	4.9	6.3
CPI for "Goods"	5,823.4	101.59	108.82	109.96	109.78	-0.2	0.9	8.1	9.7
CPI for "Durable goods"	1,294.8	100.55	104.96	109.05	107.94	-1.0	2.8	7.3	8.0
CPI for "Semi-durable goods"	635.9	90.58	92.31	91.37	89.73	-1.8	-2.8	-0.9	0.2
CPI for "Non-durable goods"	3,892.8	103.73	112.80	113.29	113.68	0.3	0.8	9.6	11.7
CPI for "Services"	4,176.6	102.95	102.96	104.00	103.40	-0.6	0.4	0.4	1.6
CPI for "Gasoline" and "Diesel"	460.6	139.59	121.45	123.28	125.30	1.6	3.2	-10.2	15.4
CPI for "Energy"	1,638.1	106.37	116.60	117.11	117.68	0.5	0.9	10.6	16.5
CPI for "Food at home"	1,087.7	104.52	114.32	113.88	114.35	0.4	0.0	9.4	11.6
CPI excluding "Food and non-alcoholic beverages"	8,912.3	101.87	105.40	106.69	106.24	-0.4	0.8	4.3	5.6
CPI excluding "Gasoline" and "Diesel"	9,539.4	100.35	105.64	106.71	106.24	-0.4	0.6	5.9	5.7
CPI excluding "Food and non-alcoholic beverages", "Gasoline" and "Diese	8,451.7	99.81	104.53	105.78	105.20	-0.6	0.6	5.4	5.0
CPI excluding "Rentals actually paid by tenants or subtenants"	9,333.3	102.00	106.45	107.59	107.21	-0.4	0.7	5.1	6.6
CPI excluding "Housing"	7,477.8	103.38	105.04	106.45	105.85	-0.6	0.8	2.4	5.4
CPI excluding "Gasoline", "Diesel", "Water" and "Electricity"	8,361.9	101.33	104.37	105.58	105.05	-0.5	0.7	3.7	4.2

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

DESCRIPTION	WEIGHT	Monthly	Ytd	End of period	Period average
	coefficient	Mar - Apr	Dec - Apr	Apr 22 - Apr 23 12 months	Mar 21/22 - Mar 22/23 24 months
CPI for "All items"	10,000.0	-0.32	0.70	4.86	6.26
CPI for "Goods"	5,823.4	-0.09	0.53	4.67	5.58
CPI for "Durable goods"	1,294.8	-0.13	0.36	0.94	1.02
CPI for "Semi-durable goods"	635.9	-0.10	-0.16	-0.05	0.01
CPI for "Non-durable goods"	3,892.8	0.14	0.32	3.79	4.55
CPI for "Services"	4,176.6	-0.23	0.18	0.19	0.68
CPI for "Gasoline" and "Diesel"	460.6	0.09	0.17	-0.64	0.82
CPI for "Energy"	1,638.1	0.09	0.17	1.81	2.70
CPI for "Food at home"	1,087.7	0.05	-0.01	0.92	1.15
CPI excluding "Food and non-alcoholic beverages"	8,912.3	-0.37	0.70	3.81	4.99
CPI excluding "Gasoline" and "Diesel"	9,539.4	-0.41	0.54	5.50	5.44
CPI excluding "Food and non-alcoholic beverages", "Gasoline" and "Diese	8,451.7	-0.46	0.53	4.46	4.17
CPI excluding "Rentals actually paid by tenants or subtenants"	9,333.3	-0.33	0.67	4.76	6.15
CPI excluding "Housing"	7,477.8	-0.42	0.57	1.81	4.05
CPI excluding "Gasoline", "Diesel", "Water" and "Electricity"	8,361.9	-0.41	0.54	3.04	3.55

Course of Indices for 2011 up to April 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 April 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.