

Consumer Price Index, base period June 2019

September 2019

The Central Bureau of Statistics presents the most important findings for the Consumer Price Index (CPI) for the month of September 2019.

Consumer Price Index for the month of September 2019

The CPI for September 2019 is 100.00, an increase of 0.2% compared to the index of August 2019 (99.80) and accumulating an increase of 3.4% up to and including September of this year. The percentage change of the CPI over the last twelve (12) months (September 2018 to September 2019) is 4.4, a decrease of 0.3 ppts compared to the percentage change for the same period of last year (4.7%).

The period average percentage change of the CPI for the period September 2018 - September 2019 is 4.1%, an increase of 1.8 ppts compared to the period average percentage change over the period September 2017 - September 2018 (2.3%).

During this month, seven (7) of the twelve (12) sectors registered increases in prices. The increases that had the greatest influence on the CPI were registered for the "Household operation" (3.0%), "Recreation and culture" (1.5%) and "Clothing and footwear" (5.5%) sectors, which contributed with an effect of 0.21, 0.13 and 0.12 ppts, respectively. The increases in the remaining sectors had an effect of 0.03 ppts on the CPI of September 2019.

Aforementioned increases were partially offset mainly by a decrease in the index for the "Transport" (-1.8%) sector, causing an effect of -0.23 ppts. This decrease was due to a decrease in the category "Operation of personal transport equipment" (-3.1%), which contributed to an effect of -0.26 ppts. The decreases in the remaining sectors had an effect of -0.05 ppts on the CPI of September 2019.

The increase in the "Household operation" sector was mainly due to an increase in the category "Household appliances" (18.0%), which contributed to an effect of 0.21 ppts. The increase in the "Recreation and culture" sector was mainly caused by an increase of 5.4% in the category "Holidays", which contributed to an effect of 0.09 ppts. The increase in the "Clothing and footwear" sector was mainly due to an increase in the category "Clothing" (6.4%), which contributed to an effect of 0.11 ppts.

Consumption basket

The consumption basket of the CPI consists of 408 goods and services. Compared to August 2019, 36.3% of these products had an increase in price, causing an effect of 0.97 ppts, while 27.0% showed a decrease, contributing to an effect of -0.77 ppts and the remaining 36.8% had no change in price. The prices of goods increased by 0.1% and caused an influence of 0.05 ppts. The prices of services showed an increase of 0.4% and had an influence of 0.15 ppts on the CPI of September 2019.

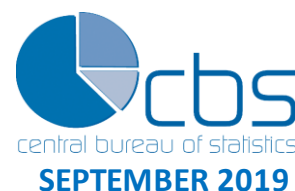
Core inflation

The CPIC (core inflation) - CPI excluding the effect of energy and food – was 2.9% in September 2019. The energy index - which consists of the products: electricity, water, gasoline and diesel – was 0.8%. The food index showed an increase of 12.7%.

Subsistence level

The subsistence level for a household consisting of two (2) adults and two (2) children (aged 0-14 years) in September 2019 is Afl. 4,992, an increase of Afl. 355 compared to September 2018 (Afl. 4,637). The subsistence level for a single adult household is Afl. 2,377, an increase of Afl. 169 compared to September 2018 (Afl. 2,208).

October 30, 2019



CPI (BASE JUN 2019 = 100)		
Index	↑	100.00
Monthly	↑	0.2
Year-to-date	↑	3.4
End of period	↑	4.4
Period average	↑	4.1
Goods	↑	0.1
Services	↑	0.4

CPIC		
CPIC	↑	2.9
Energy	↑	0.8
Food	↑	12.7

SUBSISTENCE LEVEL <small>in AFL.</small>		
1 adult	↑	2,377
2 adults + 2 children	↑	4,992

CPIC: CPI excluding the effect of energy and food.

Energy: Electricity, water, gasoline and diesel.

SUBSISTENCE LEVEL: The minimum level of income which is perceived necessary to achieve an adequate standard of living.

Table 1 Overview percentage change of the CPI

	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19
<i>Index</i>	95.77	95.66	95.97	96.67	96.25	96.66	98.00	98.83	99.19	100.00	100.06	99.80	100.00
<i>Monthly</i>	-0.2	-0.1	0.31	0.7	-0.4	0.4	1.4	0.8	0.4	0.8	0.1	-0.3	0.2
<i>Year-to-date</i>	3.5	3.4	3.7	4.5	-0.4	0.0	1.4	2.2	2.6	3.4	3.5	3.2	3.4
<i>End of period</i>	4.7	3.9	4.4	4.5	3.6	3.0	3.5	4.5	4.5	4.8	3.7	4.0	4.4
<i>Period average</i>	2.3	2.7	3.2	3.6	3.8	3.9	3.9	4.1	4.2	4.3	4.2	4.1	4.1
<i>Goods</i>	0.0	0.1	0.4	-0.2	0.2	0.3	2.3	0.5	1.3	0.7	-0.3	0.1	0.1
<i>Services</i>	-0.4	-0.5	0.2	2.1	-1.3	0.5	0.1	1.3	-1.0	1.0	0.6	-0.7	0.4
<i>CPIC</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	1.9	2.0	2.2	2.3	2.5	2.8	3.0	2.9	2.9	2.9
<i>Energy</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	3.8	3.7	3.4	3.3	3.1	2.9	2.5	1.9	1.4	0.8
<i>Food</i>	<i>n.a.</i>	<i>n.a.</i>	<i>n.a.</i>	11.4	12.4	12.1	12.1	12.0	11.9	12.0	12.1	12.4	12.7
<i>1 adult</i>	2,208	2,211	2,228	2,244	2,255	2,264	2,317	2,338	2,361	2,384	2,379	2,372	2,377
<i>2 adults + 2 children</i>	4,637	4,644	4,678	4,712	4,735	4,754	4,867	4,909	4,957	5,005	4,997	4,981	4,992

Source: Central Bureau of Statistics Aruba

Table 2 Percentage change by sector

<i>Sector</i>	Weight coefficient	Effect Aug - Sep	Percentage changes			
			Monthly Aug - Sep	Year-to-date Dec - Sep	End of period Sep 18 - Sep 19	Period average Sep 18 - Sep 19
<i>CPI</i>	10,000.0	0.20	0.2	3.4	4.4	4.1
<i>01. Food and non-alcoholic beverages</i>	1,087.7	-0.05	-0.3	12.0	15.5	12.7
<i>02. Alcoholic beverages and tobacco</i>	78.2	0.00	0.1	14.8	14.7	12.4
<i>03. Clothing and footwear</i>	276.8	0.12	5.5	5.7	8.1	4.8
<i>04. Housing</i>	2,522.2	0.01	0.0	1.0	1.4	1.0
<i>05. Household operation</i>	929.2	0.21	3.0	3.0	0.6	0.1
<i>06. Health</i>	223.1	0.00	0.0	-0.5	-1.1	5.7
<i>07. Transport</i>	1,257.4	-0.23	-1.8	1.3	-1.0	2.6
<i>08. Communications</i>	849.6	0.00	0.0	0.0	8.0	9.1
<i>09. Recreation and culture</i>	1,013.3	0.13	1.5	1.6	5.5	0.8
<i>10. Education</i>	98.0	0.00	0.0	0.0	0.0	0.4
<i>11. Restaurants and hotels</i>	442.0	0.00	0.0	2.7	2.4	4.0
<i>12. Miscellaneous goods and services</i>	1,222.6	0.01	0.1	3.2	2.8	2.6

Source: Central Bureau of Statistics Aruba

Table 3 Categories with the greatest positive effect on the CPI of September 2019

<i>Category</i>	Monthly change	Effect
<i>Household appliances</i>	18.0	0.21
<i>Clothing</i>	6.4	0.11
<i>Holidays</i>	5.4	0.09
<i>Other recreational items and equipment; gardens and pets</i>	1.7	0.05
<i>Transport services</i>	7.5	0.03

Source: Central Bureau of Statistics Aruba

Table 4 Categories with the greatest negative effect on the CPI of September 2019

<i>Category</i>	Monthly change	Effect
<i>Operation of personal transport equipment</i>	-3.1	-0.26
<i>Food</i>	-0.4	-0.06
<i>Audio-visual, photographic and information processing equipment</i>	-5.3	-0.02
<i>Health products and services n.e.c.</i>	-19.8	-0.02

Source: Central Bureau of Statistics Aruba

Change in prices of crude oil, utilities, gasoline and diesel in September 2019

The prices of utilities (electricity and water), gasoline and diesel are for the greater part determined by international crude oil prices. In September 2019 the average price per barrel of crude oil (US\$ 57.03) had an increase of US\$ 1.86 (3.4%) compared to August 2019 (US\$ 55.17).

The total energy charge per kWh for the usage of electricity up to 500 kWh did not change in September 2019, it stayed at Afl. 34.52 cents per kWh. The total energy charge per kWh for the usage of electricity between 501 - 1000 kWh did not change in September 2019, it stayed at Afl. 35.72 cents per kWh. Additionally, the total energy charge per kWh for the usage of electricity above 1000 kWh did not change in September 2019, it stayed at Afl. 45.93 cents per kWh. The prices of electricity and water did not change compared to August 2019. Subsequently, the average electricity price per household remained at Afl. 265.65, while the average price of water per household remained at Afl. 137.05.

In September 2019 the price of gasoline registered a decrease of Afl. 10.60 cents (-4.9%) and had an effect of -0.23 pts on the CPI. The price of diesel registered a decrease of Afl. 4.40 cents (-2.5%) and had an effect of -0.01 ppt on the CPI of September 2019.

In September 2019, utilities, gasoline and diesel as a group showed a decrease in price of 1.5% compared to August 2019, and had an influence of -0.24 pts on the CPI, while the remaining 404 goods and services, as a group, experienced an increase of 0.5% in price, causing an effect of 0.44 pts on the CPI.

Table 6 Effect on the CPI of September 2019 of goods and services which are dependent on crude oil prices

Category	Weight	Monthly change	Effect
Electricity	810.2	0.0	0.00
Gasoline	430.5	-4.9	-0.23
Water	367.3	0.0	0.00
Diesel	30.2	-2.5	-0.01
Total group	1,638.1	-1.5	-0.24
Remaining goods and services	8,361.9	0.5	0.44
CPI	10,000.0	0.2	0.20

Source: Central Bureau of Statistics Aruba

Table 5 Prices of crude oil, utilities, gasoline and diesel, 2018 - 2019

Month	2018							2019						
	Crude oil	Total energy charge		Electricity	Water	Gasoline	Diesel	Crude oil	Total energy charge		Electricity	Water	Gasoline	Diesel
		≤ 500 kWh	501-1000 kWh						≤ 500 kWh	501-1000 kWh				
January	63.38	34.52	35.72	265.65	137.05	186.80	161.90	50.65	34.52	35.72	265.65	137.05	188.50	165.10
March	62.59	34.52	35.72	265.65	137.05	194.30	168.30	54.45	34.52	35.72	265.65	137.05	189.40	170.20
March	62.82	34.52	35.72	265.65	137.05	193.20	165.00	57.84	34.52	35.72	265.65	137.05	197.70	177.30
April	66.14	34.52	35.72	265.65	137.05	195.50	164.60	63.89	34.52	35.72	265.65	137.05	197.70	181.10
May	70.31	34.52	35.72	265.65	137.05	202.50	172.00	60.89	34.52	35.72	265.65	137.05	209.50	185.00
June	67.77	34.52	35.72	265.65	137.05	208.90	179.70	54.66	34.52	35.72	265.65	137.05	209.50	183.70
July	71.16	34.52	35.72	265.65	137.05	214.80	184.70	57.28	34.52	35.72	265.65	137.05	208.00	174.20
August	68.25	34.52	35.72	265.65	137.05	217.10	184.60	55.17	34.52	35.72	265.65	137.05	215.10	177.20
September	70.15	34.52	35.72	265.65	137.05	215.90	185.00	57.03	34.52	35.72	265.65	137.05	204.50	172.80
October	71.44	34.52	35.72	265.65	137.05	216.40	190.10							
November	57.91	34.52	35.72	265.65	137.05	214.60	194.20							
December	49.09	34.52	35.72	265.65	137.05	199.40	181.00							
Yearly Average	65.08	34.52	35.72	265.65	137.05	204.95	177.59	56.87	34.52	35.72	265.65	137.05	202.21	176.29

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. is based on an average household usage of 725.5 kWh

⁴ Water price in Afl. is based on an average household usage

⁵ Gasoline and diesel prices in Afl. cents per liter

Change in prices of Food & catering services in September 2019

The "Food & catering services" index showed a decrease of 0.2% in September 2019, after a decrease of 0.4% in August 2019. The index for "Food at home" showed a decrease of 0.3% in September, as six (6) of the eleven (11) "Food at home" indices decreased in September 2019. The "Vegetables" index registered the largest decrease (-4.0%) in September 2019. Furthermore, decreases were posted in the indices for "Potatoes and other tubers" (-2.1%), "Fruit" (-0.8) and "Fish and other seafood" (-0.7%).

The "Bread and cereals" index registered the largest increase (1.9%) in September 2019. Other increases were registered for the indices of "Oils and fats" (1.0%), "Non-alcoholic beverages" (0.9%) and "Milk, cheese and eggs" (0.7%).

Over the last twelve (12) months, the "Food & catering services" has increased by 12.2%. The "Food at home" index showed an increase of 15.5%. The "Fruit" index increased by 43.9%, the largest increase among the "Food at home" food groups.

The index for "Food away from home" was unchanged in September 2019 and has increased by 2.2% over the last twelve (12) months.

In September 2019, "Food at home" and "Food away from home" as a group showed a decrease in price of 0.2% compared to August 2019, and had an influence of -0.05 pts on the CPI, while the remaining goods and services, as a group, experienced an increase in price of 0.3%, causing an effect of 0.25 pts on the CPI.

Table 8 Effect on the CPI of September 2019 of Food at home and Food away from home

Category	Weight	Monthly change	Effect
Food at home	1,087.7	-0.3	-0.05
Food away from home	429.8	0.0	0.00
Total group	1,517.5	-0.2	-0.05
Remaining goods and services	8,482.5	0.3	0.25
CPI	10,000.0	0.2	0.20

Source: Central Bureau of Statistics Aruba

Table 7 Percentage change for Food & catering services

	Weight coefficient	Indices			Percentage changes			Effect	
		Sep-18	Aug-19	Sep-19	Monthly Jul - Aug	Monthly Aug - Sep	End of period Sep 18 - Sep 19	Monthly Aug - Sep	End of period Sep 18 - Sep 19
Food & catering services	1,517.5	132.12	148.58	148.25	-0.4	-0.2	12.2	-0.050	2.556
Food at home	1,087.7	138.68	160.63	160.16	-0.6	-0.3	15.5	-0.050	2.440
Bread and cereals	178.1	116.29	118.87	121.09	-1.2	1.9	4.1	0.040	0.089
Meat	242.5	121.43	126.37	126.21	-0.1	-0.1	3.9	-0.004	0.121
Fish and other seafood	49.0	102.58	112.69	111.90	1.8	-0.7	9.1	-0.004	0.048
Milk, cheese and eggs	135.3	119.49	126.15	127.06	-0.1	0.7	6.3	0.012	0.107
Oils and fats	32.2	137.58	151.15	152.65	0.6	1.0	11.0	0.005	0.051
Fruit	97.6	329.06	477.38	473.51	-3.0	-0.8	43.9	-0.038	1.472
Potatoes and other tubers	18.2	122.47	143.37	140.37	7.1	-2.1	14.6	-0.005	0.034
Vegetables	89.1	154.01	193.96	186.18	1.9	-4.0	20.9	-0.069	0.299
Sugar, jam, honey and other confectionery	42.0	94.07	99.24	99.53	-0.3	0.3	5.8	0.001	0.024
Food products n.e.c.	80.1	107.39	116.33	116.12	0.9	-0.2	8.1	-0.002	0.073
Non-alcoholic beverages	123.6	116.87	125.19	126.31	0.2	0.9	8.1	0.014	0.012
Food away from home	429.8	115.50	118.09	118.09	0.0	0.0	2.2	0.000	0.116
Other goods and services	8,482.5	89.27	91.08	91.37	-0.2	0.3	2.3	0.247	1.855
Other goods	4,735.8	88.45	89.95	90.17	0.3	0.2	1.9	0.101	0.849
Other services	3,746.7	90.31	92.49	92.88	-0.8	0.4	2.8	0.147	1.006
CPI	10,000.0	95.77	99.80	100.00	-0.3	0.2	4.4	0.197	4.411

Source: Central Bureau of Statistics Aruba

The subsistence level in September 2019

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". Equivalent scales are used to adjust 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 a household consisting of two (2) adults and two (2) children (aged 0-14 years).

Table 9 Monthly subsistence level in Aruba (in Afl.) by sector for a family of 2 adults and 2 children (aged 0-14 years)

Sector	Absolute		Change
	Sep-18	Sep-19	
Food and non-alcoholic beverages	1,876	2,167	291
Clothing and footwear	257	278	21
Housing	1,341	1,360	19
Household operation	131	132	1
Health	79	78	-1
Transport	272	269	-3
Communications	129	140	11
Recreation and culture	162	171	9
Education	75	75	0
Miscellaneous goods and services	314	323	9
Total	4,637	4,992	355

Source: Central Bureau of Statistics Aruba

In September 2019 the monthly subsistence level for a household consisting of two (2) adults and two (2) children (aged 0-14 years) (Afl. 4,992) showed an increase of Afl. 355 compared to September 2018 (Afl. 4,637) and was mainly caused by an increase of Afl. 291 in the sector "Food and non-alcoholic beverages".

Table 10 Monthly Subsistence level in Aruba (in Afl.) by family size and composition, September 2019 (Base period Oct. 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
Sep-18	2,208	2,870	3,312	3,974	4,637
Oct-18	2,211	2,875	3,317	3,980	4,644
Nov-18	2,228	2,896	3,342	4,010	4,678
Dec-18	2,244	2,917	3,366	4,039	4,712
Jan-19	2,255	2,931	3,382	4,058	4,735
Feb-19	2,264	2,943	3,396	4,075	4,754
Mar-19	2,317	3,013	3,476	4,171	4,867
Apr-19	2,338	3,039	3,507	4,208	4,909
May-19	2,361	3,069	3,541	4,249	4,957
Jun-19	2,384	3,099	3,575	4,290	5,005
Jul-19	2,379	3,093	3,569	4,283	4,997
Aug-19	2,372	3,084	3,558	4,270	4,981
Sep-19	2,377	3,090	3,566	4,279	4,992

Source: Central Bureau of Statistics Aruba

In September 2019, the monthly subsistence level for a single adult household is Afl 2,377, which represents an income deficit of Afl. 615, an increase of Afl. 118 compared to the deficit observed one year ago (Afl. 497). This deficit is the highest registered over a period of five (5) years for the month September.

Table 11 Monthly income surplus/deficit (in Afl.) for a single adult household for September, 2015 - 2019

Period	1 adult	Minimum	
		wage	Surplus/deficit
2015	2,084	1,637	-447
2016	2,065	1,678	-387
2017	2,085	1,711	-374
2018	2,208	1,711	-497
2019	2,377	1,762	-615

Source: Central Bureau of Statistics Aruba

APPENDIX 1

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

DESCRIPTION	WEIGHT	2018	2018	2019	2019	Monthly	Ytd	End of period
	coefficient	Sep	Dec	Aug	Sep	Aug - Sep	Dec - Sep	Sep 18 - Sep 19
Food and non-alcoholic beverages	1,087.7	138.68	143.00	160.63	160.16	-0.3	12.0	15.5
Food	964.1	141.48	146.27	165.17	164.50	-0.4	12.5	16.3
Non-alcoholic beverages	123.6	116.87	117.49	125.19	126.31	0.9	7.5	8.1
Alcoholic beverages and tobacco	78.2	115.95	115.87	132.91	133.01	0.1	14.8	14.7
Alcoholic beverages for consumption at home	62.2	96.31	96.42	114.87	114.98	0.1	19.2	19.4
Tobacco	16.0	192.27	191.41	203.00	203.07	0.0	6.1	5.6
Clothing and footwear	276.8	74.79	76.46	76.60	80.84	5.5	5.7	8.1
Clothing	212.8	77.54	79.88	80.82	85.96	6.4	7.6	10.9
Footwear	64.0	65.62	65.09	62.56	63.82	2.0	-2.0	-2.8
Housing	2,522.2	101.50	101.94	102.88	102.92	0.0	1.0	1.4
Actual rentals for housing	666.7	124.87	125.41	126.65	126.81	0.1	1.1	1.6
Imputed rentals for housing	34.4	104.17	104.51	105.29	105.29	0.0	0.7	1.1
Maintenance and repair of the dwelling	517.0	85.42	86.82	89.76	89.76	0.0	3.4	5.1
Water supply and miscellaneous services relating to the dwelling	463.6	95.30	95.30	95.30	95.30	0.0	0.0	0.0
Electricity, gas and other fuels	840.4	96.16	96.16	96.16	96.16	0.0	0.0	0.0
Household operation	929.2	76.66	74.94	74.92	77.15	3.0	3.0	0.6
Furniture, furnishings, carpets and other floor coverings	128.8	45.78	43.47	45.54	45.78	0.5	5.3	0.0
Household textiles	58.6	63.95	65.15	60.93	60.68	-0.4	-6.9	-5.1
Household appliances	246.0	55.21	49.35	47.29	55.82	18.0	13.1	1.1
Glassware, tableware and household utensils	17.2	60.93	59.81	65.11	65.63	0.8	9.7	7.7
Tools and equipment for house and garden	58.2	50.28	51.02	46.61	46.65	0.1	-8.6	-7.2
Goods and services for routine household maintenance and cleaning	420.5	104.74	104.84	106.36	106.23	-0.1	1.3	1.4
Health	223.1	85.94	85.40	84.96	84.96	0.0	-0.5	-1.1
Medical products, appliances and equipment	152.3	89.94	89.37	88.53	89.57	1.2	0.2	-0.4
Out-patient services	52.4	77.72	77.72	77.72	77.72	0.0	0.0	0.0
Other treatments	7.8	76.23	74.38	76.07	76.07	0.0	2.3	-0.2
Health products and services n.e.c.	10.5	76.23	74.38	76.07	61.02	-19.8	-18.0	-19.9
Transport	1,257.4	99.82	97.47	100.58	98.78	-1.8	1.3	-1.0
Purchase of vehicles	442.6	90.22	90.24	90.24	90.24	0.0	0.0	0.0
Operation of personal transport equipment	763.3	107.28	103.17	107.91	104.54	-3.1	1.3	-2.6
Transport services	51.5	71.64	75.09	80.73	86.77	7.5	15.5	21.1
Communications	849.6	72.15	77.94	77.95	77.93	0.0	0.0	8.0
Telephone and telefax equipment	43.8	20.73	17.07	17.20	16.87	-2.0	-1.2	-18.6
Telephone and telefax services	805.8	74.95	81.25	81.25	81.25	0.0	0.0	8.4
Recreation and culture	1,013.3	78.71	81.77	81.80	83.05	1.5	1.6	5.5
Audio-visual, photographic and information processing equipment	58.5	65.53	58.47	54.86	51.94	-5.3	-11.2	-20.7
Other major durables for recreation and culture	20.0	39.87	33.19	33.65	33.65	0.0	1.4	-15.6
Other recreational items and equipment; gardens and pets	266.6	113.94	114.53	118.57	120.58	1.7	5.3	5.8
Recreational and cultural services	309.1	89.04	89.04	89.04	89.04	0.0	0.0	0.0
Newspapers, books and stationery	43.7	73.79	75.38	76.39	76.39	0.0	1.3	3.5
Holidays	315.4	44.41	55.25	52.45	55.31	5.4	0.1	24.5
Education	98.0	109.30	109.30	109.30	109.30	0.0	0.0	0.0
Pre primary and primary education	24.0	86.66	86.66	86.66	86.66	0.0	0.0	0.0
Secondary education	43.4	94.62	94.62	94.62	94.62	0.0	0.0	0.0
Post-secondary non-tertiary education	4.6	102.85	102.85	102.85	102.85	0.0	0.0	0.0
Tertiary education	23.6	160.49	160.49	160.49	160.49	0.0	0.0	0.0
Education not definable by level	2.5	109.74	109.74	109.74	109.74	0.0	0.0	0.0
Restaurants and hotels	442.0	114.50	114.15	117.24	117.20	0.0	2.7	2.4
Catering services	429.8	115.50	115.14	118.09	118.09	0.0	2.6	2.2
Accommodation services	12.2	79.32	79.27	87.11	85.71	-1.6	8.1	8.1
Miscellaneous goods and services	1,222.6	84.11	83.74	86.34	86.45	0.1	3.2	2.8
Personal care	427.1	98.24	98.30	101.09	101.49	0.4	3.2	3.3
Personal effects n.e.c.	106.6	91.30	86.74	105.39	105.10	-0.3	21.2	15.1
Social protection	78.2	115.39	115.39	115.39	115.39	0.0	0.0	0.0
Insurance	610.7	68.97	68.97	68.97	68.97	0.0	0.0	0.0
CPI	10,000.0	95.77	96.67	99.80	100.00	0.2	3.4	4.4

Source: Central Bureau of Statistics Aruba

APPENDIX 2
Effect on the Consumer Price Index per sector and category for September 2019 (Jun 2019 = 100)

DESCRIPTION	WEIGHT coefficient	Monthly Aug - Sep	Ytd Dec - Sep	End of period Sep 18 - Sep 19	Period average Sep 18 - Sep 19
Food and non-alcoholic beverages	1,087.7	-0.05	1.93	2.44	1.98
Food	964.1	-0.06	1.82	2.32	1.86
Non-alcoholic beverages	123.6	0.01	0.11	0.12	0.12
Alcoholic beverages and tobacco	78.2	0.00	0.14	0.14	0.12
Alcoholic beverages for consumption at home	62.2	0.001	0.12	0.12	0.09
Tobacco	16.0	0.000	0.02	0.02	0.02
Clothing and footwear	276.8	0.12	0.13	0.17	0.10
Clothing	212.8	0.11	0.13	0.19	0.10
Footwear	64.0	0.01	-0.01	-0.01	0.01
Housing	2,522.2	0.01	0.26	0.37	0.28
Actual rentals for housing	666.7	0.01	0.10	0.14	0.15
Imputed rentals for housing	34.4	0.00	0.00	0.00	0.00
Maintenance and repair of the dwelling	517.0	0.00	0.16	0.23	0.11
Water supply and miscellaneous services relating to the dwelling	463.6	0.00	0.00	0.00	0.00
Electricity, gas and other fuels	840.4	0.00	0.00	0.00	0.01
Household operation	929.2	0.21	0.21	0.05	0.01
Furniture, furnishings, carpets and other floor coverings	128.8	0.00	0.03	0.00	-0.02
Household textiles	58.6	0.00	-0.03	-0.02	0.00
Household appliances	246.0	0.21	0.16	0.02	-0.08
Glassware, tableware and household utensils	17.2	0.00	0.01	0.01	0.01
Tools and equipment for house and garden	58.2	0.00	-0.03	-0.02	0.00
Goods and services for routine household maintenance and cleaning	420.5	-0.01	0.06	0.07	0.09
Health	223.1	0.00	-0.01	-0.02	0.11
Medical products, appliances and equipment	152.3	0.02	0.00	-0.01	0.07
Out-patient services	52.4	0.00	0.00	0.00	0.04
Other treatments	7.8	0.00	0.00	0.00	0.00
Health products and services n.e.c.	10.5	-0.02	-0.01	-0.02	0.00
Transport	1,257.4	-0.23	0.17	-0.14	0.33
Purchase of vehicles	442.6	0.00	0.00	0.00	0.07
Operation of personal transport equipment	763.3	-0.26	0.11	-0.22	0.25
Transport services	51.5	0.03	0.06	0.08	0.01
Communications	849.6	0.00	0.00	0.51	0.58
Telephone and telefax equipment	43.8	0.00	0.00	-0.02	-0.02
Telephone and telefax services	805.8	0.00	0.00	0.53	0.60
Recreation and culture	1,013.3	0.13	0.13	0.46	0.07
Audio-visual, photographic and information processing equipment	58.5	-0.02	-0.04	-0.08	-0.04
Other major durables for recreation and culture	20.0	0.00	0.00	-0.01	-0.01
Other recreational items and equipment; gardens and pets	266.6	0.05	0.17	0.18	0.08
Recreational and cultural services	309.1	0.00	0.00	0.00	0.11
Newspapers, books and stationery	43.7	0.00	0.00	0.01	0.04
Holidays	315.4	0.09	0.00	0.36	-0.11
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	0.00	0.14	0.12	0.21
Catering services	429.8	0.00	0.13	0.12	0.21
Accommodation services	12.2	0.00	0.01	0.01	0.00
Miscellaneous goods and services	1,222.6	0.01	0.34	0.30	0.28
Personal care	427.1	0.02	0.14	0.15	0.13
Personal effects n.e.c.	106.6	0.00	0.20	0.15	0.15
Social protection	78.2	0.00	0.00	0.00	0.00
Insurance	610.7	0.00	0.00	0.00	0.00
CPI	10,000.0	0.20	3.44	4.41	4.07

Source: Central Bureau of Statistics Aruba

APPENDIX 3
Monthly & Yearly Changes (%) and effect in the Food & catering services for September 2019, Total Population (Jun 2019 = 100)

DESCRIPTION	WEIGHT coefficient	% Change		Effect	
		Monthly Aug - Sep	End of period Sep 18 - Sep 19	Monthly Aug - Sep	End of period Sep 18 - Sep 19
Food & catering services	1,517.5	-0.2	12.2	-0.050	2.556
Food at home	1,087.7	-0.3	15.5	-0.050	2.440
Bread and cereals	178.1	1.9	4.1	0.040	0.089
Rice	23.5	-0.1	1.1	0.000	0.004
Bread	72.1	4.0	6.2	0.037	0.058
Pasta products	9.2	0.9	8.5	0.001	0.008
Other cereals and cereal products	73.3	0.3	2.4	0.002	0.019
Meat	242.5	-0.1	3.9	-0.004	0.121
Bovine	67.3	-0.6	2.6	-0.005	0.021
Swine	25.5	-1.3	2.5	-0.004	0.008
Poultry	75.7	0.7	0.0	0.007	0.000
Other meat and meat preparations	74.0	-0.1	10.4	-0.001	0.092
Fish and other seafood	49.0	-0.7	9.1	-0.004	0.048
Fish and seafood preparations	49.0	-0.7	9.1	-0.004	0.048
Milk, cheese and eggs	135.3	0.7	6.3	0.012	0.107
Cheese	55.4	0.4	6.1	0.003	0.047
Eggs	16.6	4.1	15.4	0.006	0.022
Milk	40.0	0.6	4.5	0.003	0.025
Other milk products	23.3	0.0	6.1	0.000	0.012
Oils and fats	32.2	1.0	11.0	0.005	0.051
Corn oil	2.8	-0.6	4.7	0.000	0.002
Butter and margarine	9.2	0.5	10.2	0.001	0.015
Other oils and fats	20.1	1.5	12.4	0.004	0.034
Fruit	97.6	-0.8	43.9	-0.038	1.472
Oranges	9.4	3.6	-4.2	0.004	-0.005
Bananas and plantains	19.9	-1.1	19.2	-0.005	0.079
Apples	9.3	1.0	3.1	0.002	0.005
Avocado	5.0	-8.8	49.8	-0.082	0.294
Grapes	9.2	-2.4	-3.1	-0.004	-0.006
Nuts	11.9	0.8	6.4	0.001	0.007
Lemons and mandarins	6.0	9.3	3.5	0.006	0.002
Cherries and strawberries	8.8	2.6	67.0	0.026	0.429
Melons and watermelons	7.7	3.6	76.9	0.028	0.368
Papayas and pineapples	6.9	-2.5	51.5	-0.017	0.228
Other fruits and fruit products	3.5	1.9	56.8	0.004	0.072
Potatoes and other tubers	18.2	-2.1	14.6	-0.005	0.034
Potatoes	12.2	-2.8	10.2	-0.006	0.019
Other tubers	2.0	3.6	24.7	0.001	0.004
Sweet potatoes and yucca	4.0	-1.3	40.7	0.000	0.010
Vegetables	89.1	-4.0	20.9	-0.069	0.299
Lettuce	6.8	-22.5	40.7	-0.018	0.019
Tomatoes	9.7	-3.3	13.9	-0.004	0.016
Onions and garlic	18.7	-4.3	28.4	-0.028	0.146
Celery and broccoli	15.3	-5.5	10.5	-0.019	0.032
Other vegetables	15.3	1.0	39.4	0.002	0.064
Other preserved or processed vegetables	8.4		6.9	0.000	0.009
Frozen vegetable mixtures	14.8	-1.3	7.8	-0.003	0.014
Sugar, jam, honey and other confectionery	42.0	0.3	5.8	0.001	0.024
Sugar	12.1	0.1	8.9	0.000	0.010
Jams and jellies	2.5	1.6	8.5	0.000	0.002
Other confectionery products	27.5	0.2	4.3	0.001	0.012
Food products n.e.c.	80.1	-0.2	8.1	-0.002	0.073
Other food products	80.1	-0.2	8.1	-0.002	0.073
Non-alcoholic beverages	123.6	0.9	8.1	0.014	0.122
Coffee and tea	20.9	0.3	5.3	0.001	0.010
Other non-alcoholic beverages	14.6	-0.7	7.1	-0.001	0.013
Soft and sports drinks	31.0	0.5	5.5	0.002	0.021
Fruit juices	57.1	1.6	10.4	0.013	0.077
Food away from home	429.8	0.0	2.2	0.000	0.116
Food and beverage consumption away from home	429.8	0.0	2.2	0.000	0.116
Other goods and services	8,482.5	0.3	2.3	0.247	1.855
Other goods	4,735.8	0.2	1.9	0.101	0.849
Other services	3,746.7	0.4	2.8	0.147	1.006
CPI	10,000	0.2	4.4	0.197	4.411

Source: Central Bureau of Statistics Aruba

APPENDIX 4

CONSUMER PRICE INDEX

					<u>YEAR: 2019</u>				<u>YEAR: 2018</u>			
	<u>Base</u>	<u>Base</u>	<u>Base</u>	<u>Base</u>	<u>CHANGE</u>				<u>CHANGE</u>			
	<u>Jun-19</u>	<u>Jun-19</u>	<u>Jun-19</u>	<u>Jun-19</u>	<u>Monthly</u>	<u>Year-to</u>	<u>Yearly</u>	<u>Period</u>	<u>Monthly</u>	<u>Year-to</u>	<u>Yearly</u>	<u>Period</u>
	<u>=100.0</u>	<u>=100.0</u>	<u>=100.0</u>	<u>=100.0</u>	<u>date</u>	<u>date</u>	<u>average</u>	<u>average</u>	<u>date</u>	<u>date</u>	<u>average</u>	<u>average</u>
	<u>Jan'18</u>	<u>Dec'17</u>	<u>Jan'19</u>	<u>Dec'18</u>								
<u>Total Population</u>	92.88	92.55	96.25	96.67	-0.4	-0.4	3.6	3.8	0.4	0.4	1.1	-0.9
Low Income	92.15	91.72	96.24	96.29	-0.1	-0.1	4.4		0.5	0.5	1.3	
High Income	93.24	92.95	96.29	96.86	-0.6	-0.6	3.3		0.3	0.3	1.0	
	<u>Feb'18</u>	<u>Jan'18</u>	<u>Feb'19</u>	<u>Jan'19</u>								
<u>Total Population</u>	93.88	92.88	96.66	96.25	0.4	0.0	3.0	3.9	1.1	1.4	2.1	-0.6
Low Income	93.43	92.15	96.66	96.24	0.4	0.4	3.5		1.4	1.9	2.7	
High Income	94.12	93.24	96.68	96.29	0.4	-0.2	2.7		0.9	1.3	1.9	
	<u>Mar'18</u>	<u>Feb'18</u>	<u>Mar'19</u>	<u>Feb'19</u>								
<u>Total Population</u>	94.71	93.88	98.00	96.66	1.4	1.4	3.5	3.9	0.9	2.3	3.2	-0.3
Low Income	94.08	93.43	98.07	96.66	1.5	1.8	4.2		0.7	2.6	3.5	
High Income	95.00	94.12	97.99	96.68	1.3	1.2	3.1		0.9	2.2	3.0	
	<u>Apr'18</u>	<u>Mar'18</u>	<u>Apr'19</u>	<u>Mar'19</u>								
<u>Total Population</u>	94.54	94.71	98.83	98.00	0.8	2.2	4.5	4.1	-0.2	2.1	2.8	0.0
Low Income	94.15	94.08	98.74	98.07	0.7	2.5	4.9		0.1	2.7	3.5	
High Income	94.73	95.00	98.86	97.99	0.9	2.1	4.4		-0.3	1.9	2.5	
	<u>May'18</u>	<u>Apr'18</u>	<u>May'19</u>	<u>Apr'19</u>								
<u>Total Population</u>	94.90	94.54	99.19	98.83	0.4	2.6	4.5	4.2	0.4	2.5	3.0	0.3
Low Income	94.56	94.15	99.37	98.74	0.6	3.2	5.1		0.4	3.1	3.8	
High Income	95.07	94.73	99.12	98.86	0.3	2.3	4.3		0.4	2.3	2.7	
	<u>Jun'18</u>	<u>May'18</u>	<u>Jun'19</u>	<u>May'19</u>								
<u>Total Population</u>	95.39	94.90	100.00	99.19	0.8	3.4	4.8	4.3	0.5	3.1	3.8	0.7
Low Income	94.82	94.56	100.00	99.37	0.6	3.9	5.5		0.3	3.4	4.2	
High Income	95.65	95.07	100.00	99.12	0.9	3.2	4.5		0.6	2.9	3.5	
	<u>Jul'18</u>	<u>Jun'18</u>	<u>Jul'19</u>	<u>Jun'19</u>								
<u>Total Population</u>	96.49	95.39	100.06	100.00	0.1	3.5	3.7	4.2	1.2	4.3	5.3	1.3
Low Income	95.82	94.82	99.91	100.00	-0.1	3.8	4.3		1.0	4.5	5.5	
High Income	96.80	95.65	100.13	100.00	0.1	3.4	3.4		1.2	4.2	5.2	
	<u>Aug'18</u>	<u>Jul'18</u>	<u>Aug'19</u>	<u>Jul'19</u>								
<u>Total Population</u>	95.96	96.49	99.80	100.06	-0.3	3.2	4.0	4.1	-0.6	3.7	4.7	1.8
Low Income	95.45	95.82	99.75	99.91	-0.2	3.6	4.5		-0.4	4.1	5.0	
High Income	96.22	96.80	99.84	100.13	-0.3	3.1	3.8		-0.6	3.5	4.5	
	<u>Sep'18</u>	<u>Aug'18</u>	<u>Sep'19</u>	<u>Aug'19</u>								
<u>Total Population</u>	95.77	95.96	100.00	99.80	0.2	3.4	4.4	4.1	-0.2	3.5	4.7	2.3
Low Income	95.34	95.45	99.84	99.75	0.1	3.7	4.7		-0.1	3.9	4.9	
High Income	96.02	96.22	100.08	99.83	0.3	3.3	4.2		-0.2	3.3	4.6	
	<u>Oct'18</u>	<u>Sep'18</u>	<u>Oct'19</u>	<u>Sep'19</u>								
<u>Total Population</u>	95.66	95.77							-0.1	3.4	3.9	2.7
Low Income	95.32	95.34							0.0	3.9	4.3	
High Income	95.87	96.02							-0.2	3.1	3.8	
	<u>Nov'18</u>	<u>Oct'18</u>	<u>Nov'19</u>	<u>Oct'19</u>								
<u>Total Population</u>	95.97	95.66							0.3	3.7	4.4	3.2
Low Income	95.62	95.32							0.3	4.2	4.7	
High Income	96.17	95.87							0.3	3.5	4.3	
	<u>Dec'18</u>	<u>Nov'18</u>	<u>Dec'19</u>	<u>Nov'19</u>								
<u>Total Population</u>	96.67	95.97							0.7	4.5	4.5	3.6
Low Income	96.29	95.62							0.7	5.0	5.0	
High Income	96.86	96.17							0.7	4.2	4.2	

APPENDIX 5

Prices of crude oil, utilities and gasoline, 2001 - 2019

Month	Crude Crude oil ¹	Electricity components					Water ⁵	Gasoline ⁶	Diesel ⁶
		Total energy charge ²			Fixed charge ³	Electricity ⁴			
		≤ 500 kWh	501 - 1000 kWh	> 1001 kWh					
Average 2001	26.01	24.59	22.09	22.09	0.00	172.79	89.40	128.34	90.10
Average 2002	26.06	24.89	22.39	22.39	0.00	174.91	90.82	127.20	88.68
Average 2003	34.49	27.02	24.52	24.52	0.00	190.38	99.21	139.21	100.18
Average 2004	41.31	27.18	24.68	24.68	0.00	191.57	100.02	152.51	113.05
Average 2005	56.36	31.10	28.60	28.60	0.00	219.97	113.69	167.74	136.04
Average 2006	66.12	35.91	33.41	33.41	0.00	254.88	128.70	176.22	149.77
Average 2007	72.08	36.59	34.09	34.09	0.00	259.84	133.59	200.43	168.38
Average 2008	99.87	45.67	43.17	43.17	0.00	325.67	161.80	228.19	214.48
Average 2009	61.46	37.33	34.83	34.83	0.00	265.17	139.60	175.15	142.53
Average 2010	79.22	43.92	41.42	41.42	0.00	312.98	159.21	193.43	163.22
Average 2011	94.74	47.58	47.57	47.57	0.00	345.14	177.47	229.48	203.46
Average 2012	94.25	47.68	51.21	53.46	0.00	353.85	171.13	235.53	210.07
Average 2013	98.00	41.10	44.90	58.40	0.00	306.75	137.05	229.48	205.83
Average 2014	93.49	42.58	45.32	57.77	0.63	315.71	137.05	224.24	200.21
Average 2015	48.71	47.02	46.56	55.87	2.50	342.59	137.05	179.74	147.80
Average 2016	43.17	40.40	41.80	47.64	12.50	308.76	137.05	165.87	131.12
Average 2017	50.85	34.52	35.72	45.93	12.50	265.65	137.05	180.79	147.69
Average 2018	65.08	34.52	35.72	45.93	12.50	265.65	137.05	204.95	177.59
January-19	50.65	34.52	35.72	45.93	12.50	265.65	137.05	188.50	165.10
February-19	54.45	34.52	35.72	45.93	12.50	265.65	137.05	189.40	170.20
March-19	57.84	34.52	35.72	45.93	12.50	265.65	137.05	197.70	177.30
April-19	63.89	34.52	35.72	45.93	12.50	265.65	137.05	197.70	181.10
May-19	60.89	34.52	35.72	45.93	12.50	265.65	137.05	209.50	185.00
June-19	54.66	34.52	35.72	45.93	12.50	265.65	137.05	209.50	183.70
July-19	57.28	34.52	35.72	45.93	12.50	265.65	137.05	208.00	174.20
August-19	55.17	34.52	35.72	45.93	12.50	265.65	137.05	215.10	177.20
September-19	57.03	34.52	35.72	45.93	12.50	265.65	137.05	204.50	172.80
October-19									
November-19									
December-19									
Average 2019	56.87	34.52	35.72	45.93	12.50	265.65	137.05	202.21	176.29

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 Fixed charge was introduced in October 2014 at Afl. 2.50

⁴ Electricity price in Afl. is based on an average household usage of 725.5 kWh

⁵ Water price in Afl. is based on an average household usage

⁶ Gasoline and diesel prices in Afl. cents per liter