



CONSUMER PRICE INDEX: May 2023, annual inflation 2.8%

The evolution of the Consumer Price Index (CPI) of May 2023 (reference year 2020=100.0) is depicted as follows:

The CPI in May 2023 compared with May 2022, increased by 2.8%. In May 2022, the annual rate of change of the CPI was 11.3% (Table 2).

The CPI in May 2023 compared with April 2023, increased by 0.4%. In May 2022, the monthly rate of change of the CPI was 0.7% (Table 1).

The average CPI for the twelve - month period from June 2022 to May 2023, compared with the corresponding index for the period June 2021 to May 2022 increased by 7.8%. The annual rate of change of the average CPI between the twelve - month period June 2021 to May 2022 in comparison to the period June 2020 to May 2021 was 5.3% (Table 3).

Graph 1. Annual and annual average rates of change (%) of CPI

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Analysis of changes of the CPI: May 2023

I. Monthly rates of change: May 2023 compared with April 2023 (Tables 1, 4)

The 0.4% increase of the Overall CPI in May 2023, compared with the corresponding index in April 2023 is, mainly, due to the changes in the groups of goods and services as follows:

1. An increase of:

- 1.8% in the group Food and non-alcoholic beverages, due to the increase, mainly, in the prices of: rice, flour and other cereals, pork, poultry, dried salted or smoked meat, fish, eggs, olive oil, fresh fruit, preserved or processed vegetables, potatoes, ice-creams, sauces-condiments, soft drinks.
- 0.7% in the group Alcoholic beverages and tobacco, due to the decrease, mainly, in the prices of spirits and liqueurs.
- 0.5% in the group <u>Housing</u>, due to the increase, mainly, in the prices of: *rentals for dwellings, electricity*. This increase was partly offset by the decrease, mainly, in the prices of *natural gas*.
- 1.3% in the group <u>Health</u>, due to the increase, mainly, in the prices of *pharmaceutical products*.
- 0.3% in the group <u>Hotel-Cafés-Restaurants</u>, due to the increase, mainly, in the prices of restaurants-confectioneries-cafes.
- 0.4% in the group <u>Miscellaneous goods and services</u>, due to the increase, mainly, in the prices of other appliances and articles for personal care. This increase was partly offset by the decrease, mainly, in the prices of motor vehicle insurance.

2. A decrease of:

- 1.4% in the group Clothing and footwear, due to the decrease in the prices of clothing and footwear.
- 1.1% in the group <u>Transport</u>, due to the decrease, mainly, in the prices of *fuels and lubricants*. This decrease was partly offset by the increase, mainly, in the prices of *tickets for passenger transport by air*.
- 0.3% in the group <u>Communication</u>, due to the decrease, mainly, in the prices of telephone services.

II. Annual rates of change: May 2023 compared with May 2022 (Tables 2, 5)

The 2.8% increase of the Overall CPI in May 2023, compared with the corresponding index in May 2022 is, mainly, due to the changes in the groups of goods and services as follows:

1. An increase of:

- 11.6% in the group <u>Food and non-alcoholic beverages</u> due to the increase, mainly, in the prices of: *bread and cereals, meat, fish, milk-cheese and eggs, oils and fats, fruit, vegetables, sugar-chocolates-sweets-ice creams, food n.e.c., coffee-cocoa-tea, mineral water-refreshments-fruit juices.*
- 3.5% in the group Alcoholic beverages and tobacco, due to the increase, mainly, in the prices of alcoholic beverages (not served).
- 11.8% in the group Clothing and footwear, due to the increase in the prices of clothing and footwear.
- 9.9% in the group <u>Household equipment</u>, due to the increase, mainly, in the prices of: *furniture and furnishings, household appliances and repair*, *glassware-tableware and utensils of domestic use, non-durable household articles, domestic services*.
- 7.8% in the group <u>Health</u>, due to the increase, mainly, in the prices of: *pharmaceutical products, medical-dental and paramedical services, hospital care.*
- 3.3% in the group <u>Recreation and culture</u>, due to the increase, mainly, in the prices of: *major durables for recreation and culture, small recreational items-flowers-pets, cinemas-theatres, package holidays*.
- 2.2% in the group Education, due to the increase, mainly, in the prices of: fees of primary education, fees of secondary education.
- 7.4% in the group <u>Hotel-Cafés-Restaurants</u>, due to the increase, mainly, in the prices of: *restaurants-confectioneries-cafes-buffets*, *hotels-motels-inns*.
- 6.8% in the group Miscellaneous goods and services, due to the increase, mainly, in the prices of: hairdressing salons and personal grooming establishments, other appliances and articles for personal care, other personal effects, private insurance connected with health, motor vehicle insurance.

2. A decrease of:

- 12.9% in the group <u>Housing</u>, due to the decrease, mainly, in the prices of: *electricity, natural gas, heating oil*. This decrease was partly offset by the increase, mainly, in the prices of: *rentals for dwellings, services for the repair and maintenance of the dwelling, co-proprietor charges, liquefied oil, solid fuels.*
- 3.1% in the group <u>Transport</u>, due to the increase, mainly, in the prices of *fuels and lubricants*. This decrease was partly offset by the increase, mainly, in the prices of: *new motor cars, second hand motor cars, motor cycles, spare parts and accessories for motor cars, maintenance and repair of motor cars-motor cycles, passenger transport by taxi, tickets for passenger transport by sea.*
- 2.3% in the group Communication, due to the decrease, mainly, in the prices of telephone services.

Table 1. Monthly rates of change of CPI (Reference year: 2020=100.0)

	Main groups	Weights 2023	2023	2022	Rate of change	2022	2021	Rate of change
	of goods and services	2023 (‰)	May	April	%	May	April	%
1.	Food & non-alcoholic beverages	216.27	125.21	123.05	1.8	112.19	110.47	1.6
2.	Alcoholic beverages and tobacco	35.53	104.29	103.53	0.7	100.79	99.57	1.2
3.	Clothing and footwear	51.86	117.82	119.48	-1.4	105.38	113.19	-6.9
4.	Housing	136.85	119.89	119.25	0.5	137.63	137.68	0.0
5.	Household equipment	46.94	114.72	114.81	-0.1	104.36	103.48	0.8
6.	Health	73.28	107.32	105.91	1.3	99.60	99.45	0.2
7.	Transport	136.96	119.16	120.48	-1.1	123.03	118.78	3.6
8.	Communication	42.29	93.53	93.83	-0.3	95.69	95.58	0.1
9.	Recreation and culture	37.91	103.99	104.16	-0.2	100.69	100.49	0.2
10.	Education	36.66	103.12	103.12	0.0	100.93	100.93	0.0
11.	Hotels-Cafés-Restaurants	115.24	112.36	111.97	0.3	104.62	103.18	1.4
12.	Miscellaneous goods and services	70.21	105.99	105.57	0.4	99.24	99.22	0.0
	Overall Index	1000.00	114.91	114.45	0.4	111.80	111.08	0.7

Note: The indices are rounded up to two decimal figures when published and percentage changes up to one decimal figure when published.

Graph 2. Annual and monthly rates of change (%) of CPI

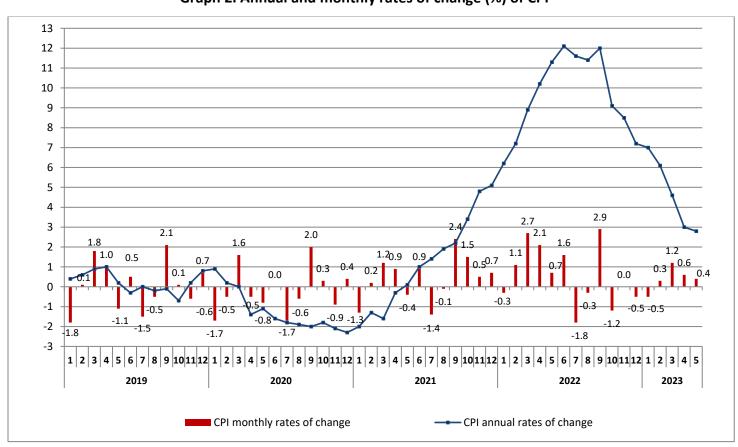


Table 2. Inflation – Annual rates of change of CPI (Reference year: 2020=100.0)

I: May 2023/2022

		May		Rate of	Impact
	Main groups of goods and services	2023	2022	change (%)	impact
1.	Food and non-alcoholic beverages	125.21	112.19	11.6	2.4328
2.	Alcoholic beverages and tobacco	104.29	100.79	3.5	0.1230
3.	Clothing and footwear	117.82	105.38	11.8	0.6602
4.	Housing	119.89	137.63	-12.9	-2.2579
5.	Household equipment	114.72	104.36	9.9	0.4326
6.	Health	107.32	99.60	7.8	0.5686
7.	Transport	119.16	123.03	-3.1	-0.4656
8.	Communication	93.53	95.69	-2.3	-0.0912
9.	Recreation and culture	103.99	100.69	3.3	0.1126
10.	Education	103.12	100.93	2.2	0.0625
11.	Hotels-Cafés-Restaurants	112.36	104.62	7.4	0.7654
12.	Miscellaneous goods and services	105.99	99.24	6.8	0.4385
	Overall Index	114.91	111.80	2.8	

II: May 2022/2021

		May		Rate of	Impact	
	Main groups of goods and services		2021	change (%)	impace	
1.	Food and non-alcoholic beverages	112.19	100.13	12.1	2.6337	
2.	Alcoholic beverages and tobacco	100.79	99.90	0.9	0.0390	
3.	Clothing and footwear	105.38	99.75	5.6	0.2740	
4.	Housing	137.63	101.96	35.0	5.0681	
5.	Household equipment	104.36	99.26	5.1	0.2400	
6.	Health	99.60	99.10	0.5	0.0442	
7.	Transport	123.03	103.57	18.8	2.5563	
8.	Communication	95.69	98.10	-2.5	-0.1053	
9.	Recreation and culture	100.69	99.38	1.3	0.0465	
10.	Education	100.93	100.01	0.9	0.0340	
11.	Hotels-Cafés-Restaurants	104.62	99.51	5.1	0.4769	
12.	Miscellaneous goods and services	99.24	98.81	0.4	0.0219	
	Overall Index	111.80	100.43	11.3		

Note: The indices are rounded up to two decimal figures when published and percentage changes up to one decimal figure when published.

Table 3. Comparisons of the overall CPI (Reference year: 2020=100.0)

Year and month	Overall Index	Monthly rates of change %	Annual rates of change Inflation %	Annual average index (moving average)	Annual average rates of change %
2020 : 1	100.49	-1.7	0.9	101.34	0.3
2	99.99	-0.5	0.2	101.35	0.3
3	101.57	1.6	0.0	101.35	0.2
4	101.11	-0.5	-1.4	101.23	0.0
5	100.29	-0.8	-1.1	101.13	-0.1
6	100.33	0.0	-1.6	101.00	-0.3
7	98.63	-1.7	-1.8	100.85	-0.4
8	97.99	-0.6	-1.9	100.69	-0.5
9	99.98	2.0	-2.0	100.52	-0.7
10	100.33	0.3	-1.8	100.37	-0.8
11	99.45	-0.9	-2.1	100.20	-1.0
12	99.84	0.4	-2.3	100.00	-1.2
Annual average	100.00	-	-	100.00	-1.2
2021 : 1	98.52	-1.3	-2.0	99.84	-1.5
2	98.72	0.2	-1.3	99.73	-1.6
3	99.91	1.2	-1.6	99.59	-1.7
4	100.82	0.9	-0.3	99.57	-1.6
5	100.43	-0.4	0.1	99.58	-1.5
6	101.36	0.9	1.0	99.66	-1.3
7	99.96	-1.4	1.4	99.78	-1.1
8	99.83	-0.1	1.9	99.93	-0.8
9	102.19	2.4	2.2	100.11	-0.4
10	103.75	1.5	3.4	100.40	0.0
11	104.24	0.5	4.8	100.80	0.6
12	104.95	0.7	5.1	101.22	1.2
Annual average	101.22	-	-	101.22	1.2
2022 : 1	104.68	-0.3	6.2	101.74	1.9
2	105.84	1.1	7.2	102.33	2.6
3	108.75	2.7	8.9	103.07	3.5
4	111.08	2.1	10.2	103.92	4.4
5	111.80	0.7	11.3	104.87	5.3
6	113.62	1.6	12.1	105.89	6.2
7	111.54	-1.8	11.6	106.86	7.1
8	111.21	-0.3	11.4	107.81	7.9
9	114.48	2.9	12.0	108.83	8.7
10	113.16	-1.2	9.1	109.61	9.2
11	113.15	0.0	8.5	110.36	9.5
12	112.53	-0.5	7.2	110.99	9.6
Annual average	110.99	-	-	110.99	9.6
2023 : 1	111.99	-0.5	7.0	111.60	9.7
2	112.33	0.3	6.1	112.14	9.6
3	113.73	1.2	4.6	112.55	9.2
4	114.45	0.6	3.0	112.83	8.6
5	114.91	0.4	2.8	113.09	7.8

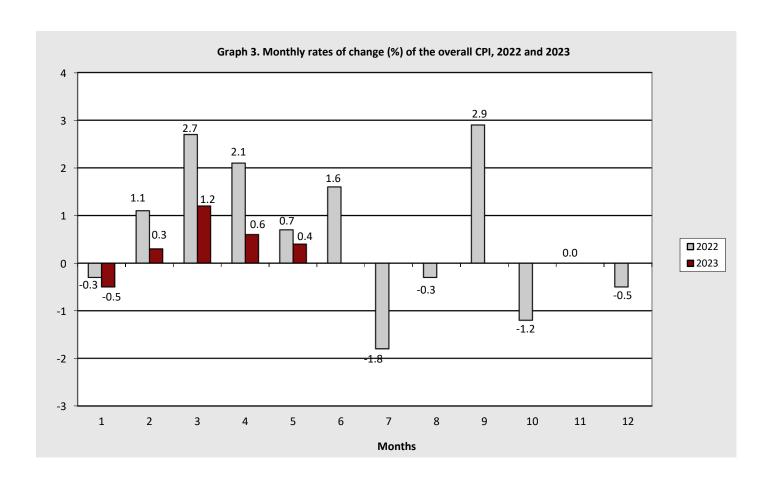
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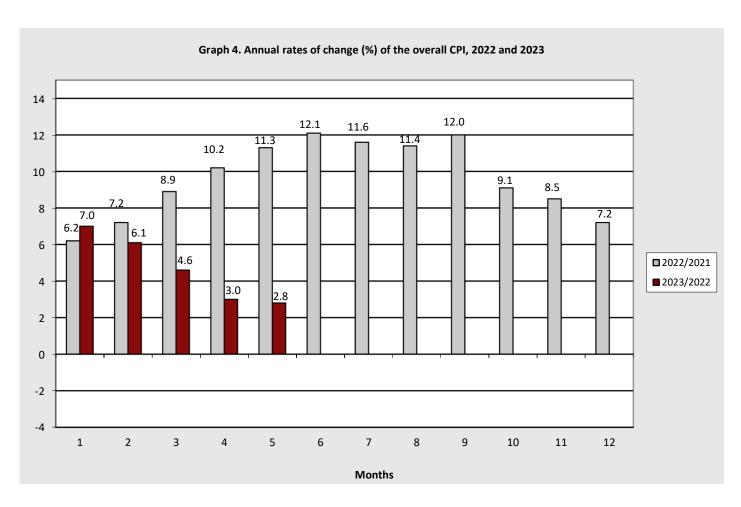
Table 4. Major price changes from index comparison between May 2023 and April 2023 and their impact on the Overall CPI

Goods and services	Rate of change (%)	Impact
Rice	5.4	0.01
Flour and other cereals	8.0	0.01
Pork	3.4	0.03
Poultry	1.4	0.01
Dried salted or smoked meat	3.1	0.02
Fish	0.8	0.01
Eggs	4.0	0.02
Olive oil	4.4	0.04
Fresh fruit	7.6	0.10
Preserved or processed vegetables	3.4	0.02
Potatoes	4.3	0.02
Ice-creams	5.3	0.01
Sauces-condiments	5.1	0.01
Soft drinks	5.3	0.01
Spirits and liqueurs	5.0	0.03
Clothing and footwear	-1.4	-0.07
Rentals for dwellings	0.4	0.01
Electricity	3.3	0.11
Natural gas	-13.5	-0.07
Pharmaceutical products	4.1	0.10
Fuels and lubricants	-4.4	-0.24
Passenger transport by air	9.2	0.09
Telephone services	-0.3	-0.01
Restaurants-confectioneries-cafes	0.3	0.03
Other appliances and articles for personal care	1.1	0.04
Motor vehicle insurance	-0.8	-0.01

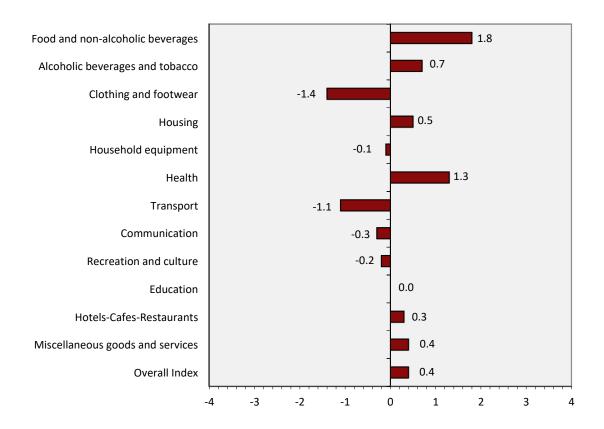
Table 5. Major price changes from index comparison between May 2023 and May 2022 and their impact on the Overall CPI

Bread and cereals	Goods and services	Rate of change (%)	Impact
Fish	Bread and cereals	11.1	0.37
Milk cheese and eggs	Meat	11.9	0.54
Oils and fats 15.8 0.20 Fruit 2.6 0.05 Vogetables 9.7 0.27 Sugar-chocolates-sweets-ice creams 10.3 0.11 Food n.e. 14.2 0.06 Coffee-cocoa-tea 13.2 0.08 Mineral water-refreshments-fruit juices 12.9 0.07 Alcoholic beverages (not served) 8.3 0.12 Clothing and footwear 11.8 0.66 Electricity -24.1 -1.54 Natural gas 4.9.6 0.39 Heating oil -20.7 -0.69 Rentals for dwellings 4.1 0.14 Services for the repair and maintenance of the dwelling 5.5 0.04 Co-proprietor charges 2.1 0.02 Solid fuels 2.8.9 0.16 Furniture and furnishings 6.5 0.02 Household appliances and repair 6.1 0.04 Household appliances and repair 6.1 0.04 Household appliances and repair of 6.1 0.04	Fish	5.2	0.08
Oils and fats 15,8 0.20 Fruit 2,6 0.05 Vegetables 9,7 0.27 Sugar-chocolates-sweets-ice creams 10,3 0.11 Food n.e.c. 14,2 0.06 Coffee-coco-tea 13,2 0.08 Mineral water-refreshments-fruit juices 12,9 0.07 Alcoholic beverages (not served) 8,3 0.12 Clothing and footwear 11,8 0.66 Electricity -24,1 1.54 Natural gas -49,6 -0.39 Heating oil -20,7 -0.69 Rentals for dwellings 4,1 0.14 Services for the repair and maintenance of the dwelling 5,5 0.04 Co-proprietor charges 2,1 0.02 Liquefied gas 14,2 0.01 Solid fuels 28,9 0.16 Furniture and furnishings 6,5 0.02 Household appliances and repair 6,1 0.04 Household appliances and repair drepair 6,1 0.04	Milk cheese and eggs	18.0	0.60
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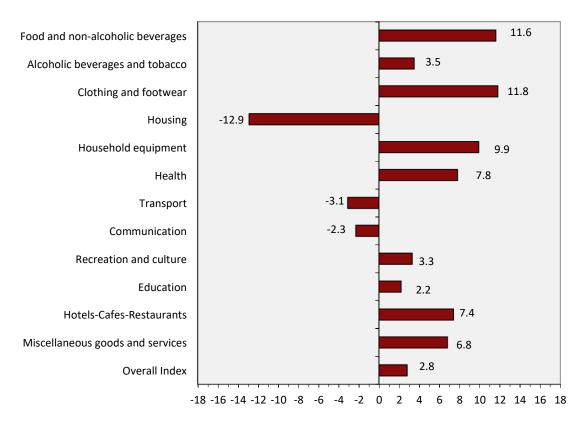


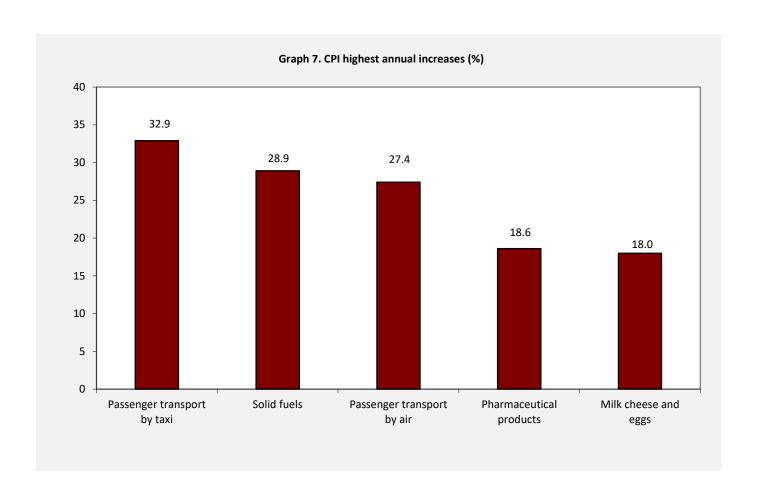


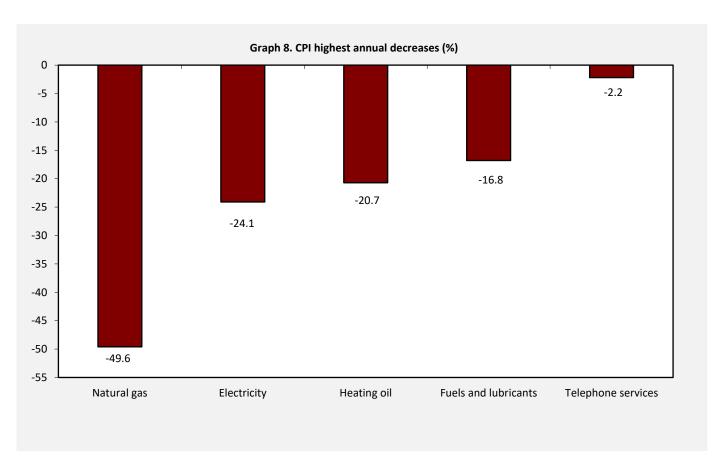
Graph 5. Monthly rates of change (%) of CPI between May 2023 and April 2023



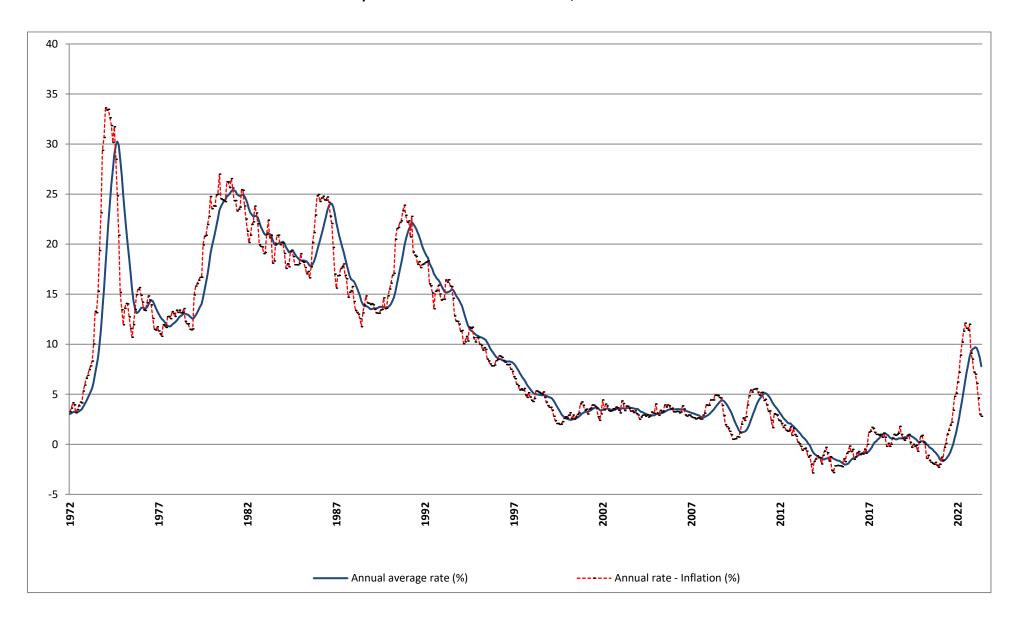
Graph 6. Annual rates of change (%) of CPI between May 2023 and May 2022







Graph 9. Historical evolution of CPI, 1972 – 2023



METHODOLOGICAL NOTES

Generally

The Consumer Price Index (CPI) is compiled by the Hellenic Statistical Authority (ELSTAT) since 1959. Until the year 2000, the CPI referred to the urban areas of the Country, while from 2001 onwards it refers to the whole Country covering urban, semi-urban and rural areas.

Purpose of the index

The purpose of the CPI is to measure the general level of prices of goods and services purchased by the average Greek household.

Legal basis Law 3832/2010.

Reference period Month.

Base December of the previous year.

Reference year 2020=100.0.

Chain linking Index

The CPI index follows the chain linking method, introducing new weights annually and having as a base the December of the previous year. The weights are estimated on the basis of the most recent available data of the Household Budget Survey (HBS), extrapolated to the prices of December. The CPI, adjusted on an annual basis to the most recent consumption expenditure pattern of the private households of the Country, ensures the representativeness of goods and services, which compose the "basket" of purchases of the average household.

Geographical and population coverage of the CPI

The CPI refers to the whole Country and covers the resident households of the territory excluding collective households (hospitals, homes for the elderly, boarding houses, prisons, etc.) and non-resident households (tourists) in the Country.

Classification of items

The classification of the CPI items (goods and services) is based on the international classification COICOP (Classification of Individual Consumption by Purpose) as this has been adapted to the needs of the HICPs of the EU Member States with the COICOP5/HICP classification.

Weights of items

The weights of CPI items are updated every year, on the basis of the most recent available data of HBS. The weights are calculated as the share (‰) of the expenditures for each group, subgroup and item (good or service) to the total household expenditure of the average household.

Price collection Cities

The CPI prices are collected in 27 cities with representative markets for the coverage of the 13 Regions of the Country. The selection criteria of the price collection cities are the size and the particularities of their markets, the possibility of continuous price collection, the comparability of the index and the cost of price collection.

Population weights

The calculation of the population weights by regions is based on the population data of the 2011 General Population Census and the expenditure data of the latest available HBS by regions.

Selection of items

The composition of the "household basket" i.e. the selection of goods and services which are included in the calculation of CPI is updated annually, using the results of the latest available HBS, other market research, etc. The chain linking methodology allows the change of items of the household basket on an annual basis, in order to ensure the representativeness of the items involved in the calculation of groups and subgroups of CPI.

Price collection-Outlets

The prices collection outlets are retail stores, enterprises providing services, street markets etc. which are considered representative of the branches of shops, where the households make their purchases in the 27 selected cities. The methodology allows the renewal of price collection sources, annually, in order to maintain their representativeness in the calculation of CPI. Prices are collected by employees of ELSTAT as well as by external price collectors, hired on a temporary basis. They pay a visit to the selected outlets within a specific time period of a month (monthly prices) or on a specific day of the week (weekly prices). The collected prices correspond to the prices actually faced by the consumer.

Specification-Substitution of items All the collected items are defined by the specification, that is the particular characteristics which determine the quality, the trade show and the identity, in general, of good products (such as brand, weight, package etc), in order to avoid any price variations attributable to differences in the specification. Once a specified item (good or service) is no longer available in the market or has ceased to be important, as regards consumption, it is substituted by a newly specified item, which has taken its place in the market.

Calculation of the Consumer Price Index

The Consumer Price Index is a Laspeyres-type index and it is calculated based on December of the previous year.

Implementation of formula in five-digit level of COICOP5

Specifically, if the five-digit item h includes q price collected items, then its index in month t of year T, $R_h^{t,T}$, is given by the following formula:

$$R_{h}^{t,T} = R_{h}^{12,T-1} \left[\frac{\sum_{i=1}^{q} w_{i}^{T} R_{i}^{t,T} / R_{i}^{12,T-1}}{\sum_{i=1}^{q} w_{i}^{T}} \right],$$

where:

 $R_{1}^{12,T-1}$ = the index of the five-digit item h, in December of year T-1.

 $\mathbf{W}^{\mathrm{T}}_{\cdot}$ = the weight of the price collected item I, in year T.

 $R_{\,:}^{\,t,T}$ = the index of the price collected item I, in month t of year T.

 $R_i^{\,12,T-l}$ = the index of the price collected item I, in December of year T-1.

A similar methodology is followed for the calculation of indices in the upper levels (two-digit, three-digit and four-digit) of COICOP5 and the calculation of the overall CPI as well.

Publication of data

The published CPI time series (reference year 2020=100.0), covers the period from January 1959 onwards. The CPI data are released each month as scheduled, in accordance with the Releases Calendar of ELSTAT, with the Release and the tables.

References

Further information concerning the methodology and the compilation of the CPI is available in the Methodological Publication CPI (2009=100.0) and the Single Integrated Metadata Structure (SIMS).