



Piraeus, 10 October 2024

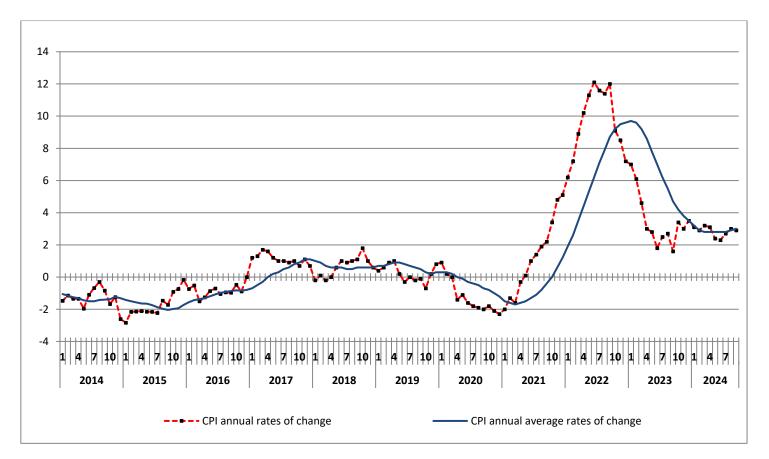
CONSUMER PRICE INDEX: September, annual inflation 2.9%

The evolution of the Consumer Price Index (CPI) of September 2024 (reference year 2020=100.0) is depicted as follows:

The CPI in September 2024 compared with September 2023, increased by 2.9%. In September 2023, the annual rate of change of the CPI was 1.6% (Table 2).

The CPI in September 2024 compared with August 2024, increased by 1.8%. In September 2023, the monthly rate of change of the CPI was also 1.8% (Table 2).

The average CPI for the twelve - month period from October 2023 to September 2024, compared with the corresponding index for the period October 2022 to September 2023 increased by 3.0%. The annual rate of change of the average CPI between the twelve - month period October 2022 to September 2023 in comparison to the period October 2021 to September 2022 was 4.7% (Table 3).



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

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I. Monthly rates of change: September 2024 compared with August 2024 (Tables 1, 4)

The 1.8% increase of the Overall CPI in September 2024, compared with the corresponding index in August 2024 is, mainly, due to the changes in the groups of goods and services as follows:

1. An increase of:

- 0.7% in the group <u>Food and non-alcoholic beverages</u>, due to the increase, mainly, in the prices of: *poultry*, *fresh fruit*, *fresh vegetables*, *potatoes*. This increase was partly offset by the decrease, mainly, in the prices of: *pizza and quiche*, *pasta products and couscous*, *dried salted or smoked meat*, *fresh fish*, *fresh whole milk*, *cheese*, *oils and fats*.
- 0.6% in the group <u>Alcoholic beverages and tobacco</u>, due to the increase, mainly, in the prices of *alcoholic beverages (not served)*.
- 38.2% in the group <u>Clothing and footwear</u>, due to the recovery of prices up to normal levels as before the summer sales period.
- 0.9% in the group Housing, due to the increase, mainly, in the prices of: rentals for dwellings, electricity, natural gas.
- 0.4% in the group <u>Household equipment</u>, due to the increase, mainly, in the prices of *domestic services*. This increase was partly offset by the decrease, mainly, in the prices of *non-durable household articles*.
- 0.6% in the group <u>Health</u>, due to the increase, mainly, in the prices of: *medical products, hospital care.*
- 2.6% in the group Education, due to the increase, mainly, in the prices of: fees of pre-primary and primary education, fees of secondary education.
- 0.4% in the group <u>Hotel-Cafés-Restaurants</u>, due to the increase, mainly, in the prices of: *restaurants-confectioneries-cafes-buffets*, *hotels-motels-inns*.
- 0.5% in the group <u>Miscellaneous goods and services</u>, due to the increase, mainly, in the prices of other personal effects.

2. A decrease of:

• 2.4% in the group <u>Transport</u>, due to the decrease, mainly, in the prices of: *fuels and lubricants, tickets for passenger transport by air.*

II. Annual rates of change: September 2024 compared with September 2023 (Tables 2, 5)

The 2.9% increase of the Overall CPI in September 2024, compared with the corresponding index in September 2023 is, mainly, due to the changes in the groups of goods and services as follows:

1. An increase of:

- 3.2% in the group Food and non-alcoholic beverages, due to the increase, mainly, in the prices of: bread, meat, fresh fish, olive oil, fruit, preserved or processed vegetables, sugar-chocolates-sweets-ice creams, mineral water-refreshments-fruit juices. This increase was partly offset by the decrease, mainly, in the prices of: pizza and quiche, pasta products and couscous, cheese.
- 1.7% in the group <u>Alcoholic beverages and tobacco</u>, due to the increase, mainly, in the prices of *alcoholic beverages (not served)*.
- 4.4% in the group <u>Clothing and footwear</u>, due to the increase in the prices of clothing and footwear.
- 5.9% in the group <u>Housing</u>, due to the increase, mainly, in the prices of: *rentals for dwellings, services for the repair and maintenance of the dwelling, electricity, natural gas, heating oil.* This increase was partly offset by the decrease, mainly, in the prices of *solid fuels*.
- 3.7% in the group <u>Health</u>, due to the increase, mainly, in the prices of: *pharmaceutical products, medical products, medical dental and paramedical services, hospital care.*
- 0.6% in the group <u>Communication</u>, due to the increase, mainly, in the prices of *telephone services*.
- 1.2% in the group <u>Recreation and culture</u>, due to the increase, mainly, in the prices of: *information processing equipment*, *small recreational items-flowers-pets, recreational services, newspapers-books and stationary, package holidays.* This increase was partly offset by the decrease, mainly, in the prices of: *equipment for the reception, recording and reproduction of sound and picture, major durables for recreation and culture.*
- 3.5% in the group Education, due to the increase, mainly, in the prices of: fees of pre-primary and primary education, fees of secondary education.
- 5.5% in the group <u>Hotel-Cafés-Restaurants</u>, due to the increase, mainly, in the prices of: *restaurants-confectioneries-cafes-buffets*.
- 3.6% in the group <u>Miscellaneous goods and services</u>, due to the increase, mainly, in the prices of: *hairdressing salons and personal grooming establishments, other personal effects, private insurance connected with health, motor vehicle insurance.* This increase was partly offset by the decrease, mainly, in the prices of *other appliances and articles for personal care*.

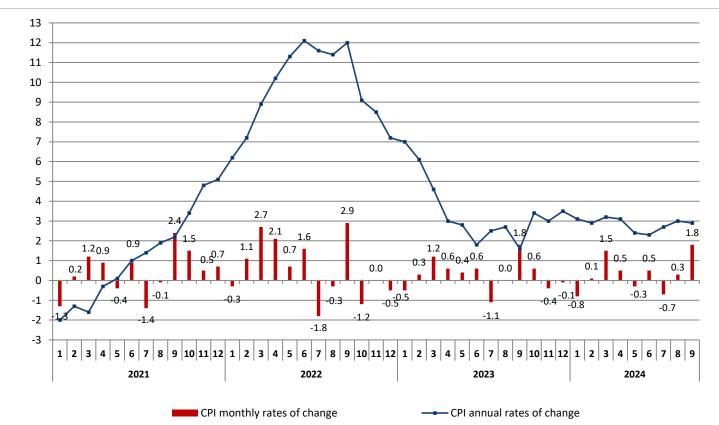
2. A decrease of:

- 0.6% in the group <u>Household equipment</u>, due to the decrease, mainly, in the prices of *non-durable household articles*. This decrease was partly offset by the increase, mainly, in the prices of: *furniture and furnishing, domestic services*.
- 1.1% in the group <u>Transport</u>, due to the decrease, mainly, in the prices of: *second hand motor cars, fuels and lubricants*. This decrease was partly offset by the increase, mainly, in the prices of: *new motorcars, spare parts and accessories for motorcars, maintenance and repair of motorcars-motorcycles, other services for motorcars motorcycles, tickets for passenger transport by air.*

	Main groups	Weights 2024	2024	2024	Rate of change	2023	2023	Rate of change
	of goods and services	2024 (‰)	September	August	%	September	August	%
1.	Food & non-alcoholic beverages	219.79	131.97	131.09	0.7	127.82	127.52	0.2
2.	Alcoholic beverages and tobacco	38.06	106.35	105.68	0.6	104.59	104.94	-0.3
3.	Clothing and footwear	55.22	127.53	92.29	38.2	122.14	86.93	40.5
4.	Housing	123.21	125.48	124.35	0.9	118.47	117.90	0.5
5.	Household equipment	45.50	113.19	112.73	0.4	113.91	113.77	0.1
6.	Health	77.83	111.87	111.24	0.6	107.85	107.85	0.0
7.	Transport	134.57	122.27	125.33	-2.4	123.63	123.53	0.1
8.	Communication	42.81	92.89	92.84	0.1	92.32	92.50	-0.2
9.	Recreation and culture	41.74	105.94	106.18	-0.2	104.66	104.69	0.0
10.	Education	43.71	109.47	106.73	2.6	105.79	103.12	2.6
11.	Hotels-Cafés-Restaurants	107.38	121.20	120.66	0.4	114.90	113.18	1.5
12.	Miscellaneous goods and services	70.19	108.35	107.78	0.5	104.55	105.71	-1.1
	Overall Index	1000.00	119.76	117.68	1.8	116.34	114.26	1.8

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

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: September 2024/2023

	Main groups of goods and somilars	Septe	September		Impact
	Main groups of goods and services	2024	2023	change (%)	
1.	Food and non-alcoholic beverages	131.97	127.82	3.2	0.7158
2.	Alcoholic beverages and tobacco	106.35	104.59	1.7	0.0671
3.	Clothing and footwear	127.53	122.14	4.4	0.2435
4.	Housing	125.48	118.47	5.9	0.7316
5.	Household equipment	113.19	113.91	-0.6	-0.0279
6.	Health	111.87	107.85	3.7	0.2904
7.	Transport	122.27	123.63	-1.1	-0.1466
8.	Communication	92.89	92.32	0.6	0.0292
9.	Recreation and culture	105.94	104.66	1.2	0.0486
10.	Education	109.47	105.79	3.5	0.1445
11.	Hotels-Cafés-Restaurants	121.20	114.90	5.5	0.5882
12.	Miscellaneous goods and services	108.35	104.55	3.6	0.2547
	Overall Index	119.76	116.34	2.9	

II: September 2023/2022

	Main groups of goods and services	Septer	September		Impact
	Main groups of goods and services	2023	2022	change (%)	
1.	Food and non-alcoholic beverages	127.82	116.80	9.4	1.9823
2.	Alcoholic beverages and tobacco	104.59	102.06	2.5	0.0870
3.	Clothing and footwear	122.14	115.01	6.2	0.3380
4.	Housing	118.47	139.40	-15.0	-2.5839
5.	Household equipment	113.91	109.87	3.7	0.1648
6.	Health	107.85	102.13	5.6	0.4033
7.	Transport	123.63	119.98	3.0	0.4119
8.	Communication	92.32	95.30	-3.1	-0.1275
9.	Recreation and culture	104.66	101.49	3.1	0.1099
10.	Education	105.79	102.71	3.0	0.1048
11.	Hotels-Cafés-Restaurants	114.90	109.58	4.8	0.5815
12.	Miscellaneous goods and services	104.55	102.12	2.4	0.1569
	Overall Index	116.34	114.48	1.6	

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 %
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
6	115.62	0.6	1.8	113.26	7.0
7	114.30	-1.1	2.5	113.49	6.2
8	114.26	0.0	2.7	113.74	5.5
9	116.34	1.8	1.6	113.90	4.7
10	117.00	0.6	3.4	114.22	4.2
11	116.57	-0.4	3.0	114.50	3.8
12	116.47	-0.1	3.5	114.83	3.5
Annual average	114.83	-	-	114.83	3.5
2024 : 1	115.50	-0.8	3.1	115.12	3.2
2	115.61	0.1	2.9	115.40	2.9
3	117.39	1.5	3.2	115.70	2.8
4	117.96	0.5	3.1	116.00	2.8
5	117.66	-0.3	2.4	116.23	2.8
6	118.24	0.5	2.3	116.44	2.8
7	117.38	-0.7	2.7	116.70	2.8
8	117.68	0.3	3.0	116.98	2.9
9	119.76	1.8	2.9	117.27	3.0

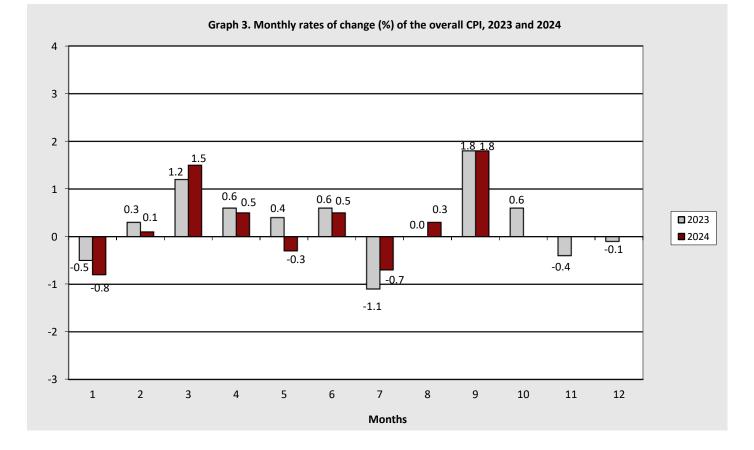
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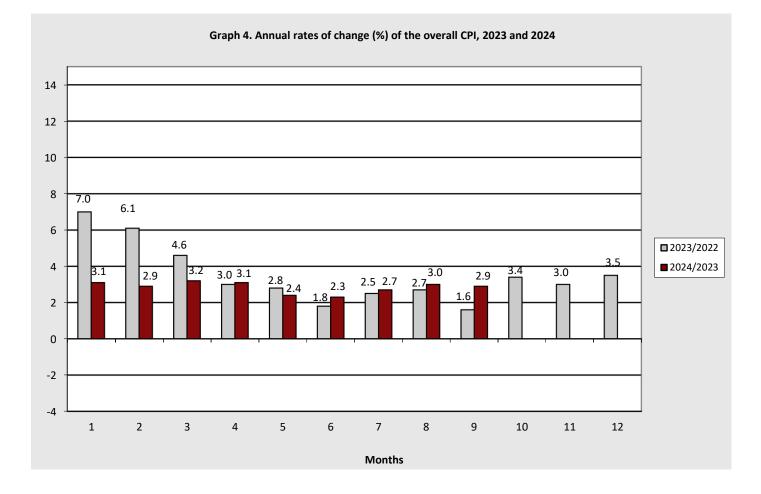
Table 4. Major price changes from index comparison between September 2024 and August 2024 and their impact on the Overall CPI

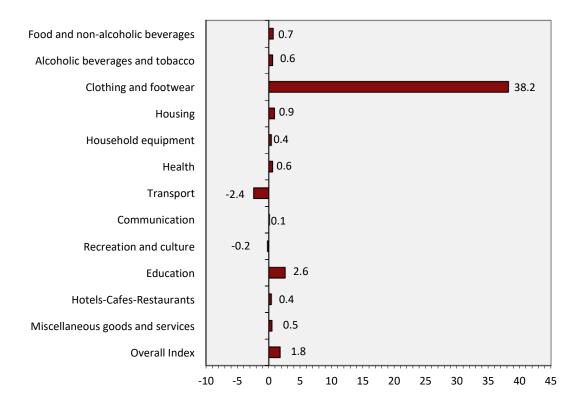
Goods and services	Rate of change (%)	Impact
Poultry	2.5	0.02
Fresh fruit	9.1	0.13
Fresh vegetables	7.3	0.11
Potatoes	4.2	0.01
Pizza and quiche	-5.1	-0.01
Pasta products and couscous	-3.2	-0.01
Dried salted or smoked meat	-2.4	-0.01
Fresh fish	-1.3	-0.02
Fresh whole milk	-2.6	-0.01
Cheese	-1.1	-0.02
Oils and fats	-0.8	-0.01
Alcoholic beverages (not served)	1.2	0.02
Rentals for dwellings	1.4	0.05
Electricity	1.0	0.03
Natural gas	7.4	0.02
Domestic services	1.8	0.02
Non-durable household articles	-1.7	-0.03
Medical products	5.1	0.03
Hospital care	0.4	0.01
Fuels and lubricants	-4.9	-0.26
Passenger transport by air	-4.5	-0.08
Pre-primary and primary education	2.0	0.02
Secondary education	3.1	0.08
Restaurants-confectioneries-cafes-buffets	0.4	0.04
Hotels-motels-inns	2.2	0.01
Other personal effects	4.2	0.02
Recovery of prices up to normal levels before the summer sales period	-	1.64

Table 5. Major price changes from index comparison betweenSeptember 2024 and September 2023 and their impacton the Overall CPI

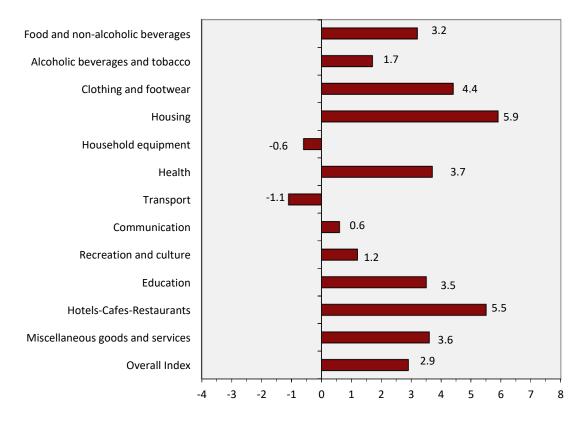
Goods and services	Rate of change (%)	Impact
Bread	1.2	0.02
Meat	2.0	0.10
Fresh fish	9.9	0.11
Olive oil	38.9	0.35
Fruit	7.7	0.13
Preserved or processed vegetables	2.1	0.02
Sugar-chocolates-sweets-ice creams	5.6	0.06
Mineral water-refreshments-fruit juices	6.5	0.04
Pizza and quiche	-9.1	-0.02
Pasta products and couscous	-5.9	-0.02
Cheese	-1.4	-0.02
Alcoholic beverages (not served)	3.4	0.06
Clothing and footwear	4.4	0.24
Rentals for dwellings	5.4	0.19
Services for the repair and maintenance of the dwelling	4.1	0.03
Electricity	11.3	0.33
Natural gas	20.2	0.08
Heating oil	6.3	0.11
Solid fuels	-2.7	-0.02
Non-durable household articles	-5.5	-0.10
	3.6	0.01
Furniture and furnishings	4.4	0.01
Domestic services		0.12
Pharmaceutical products	4.9	
Medical products	3.7	0.02
Medical-dental and paramedical services	1.8	0.04
Hospital care	4.0	0.10
Second hand motorcars	-3.4	-0.05
Fuels and lubricants	-12.6	-0.72
New motorcars	2.1	0.04
Spare parts and accessories of motorcars	2.9	0.01
Maintenance and repair of motorcars - motorcycles	3.7	0.02
Other services for motorcars - motorcycles	0.9	0.01
Passenger transport by air	36.4	0.51
Telephone services	0.7	0.03
Information processing equipment	5.2	0.02
Small recreational items-flowers-pets	2.2	0.02
Recreational services	2.1	0.02
Newspapers, books and stationery	3.1	0.02
Package holidays	7.3	0.02
Equipment for the reception, recording and reproduction of sound and vision	-9.4	-0.02
Major durables for recreation and culture	-2.4	-0.02
Pre-primary and primary education	3.0	0.03
Secondary education	3.7	0.09
Tertiary education	5.4	0.09
Restaurants-confectioneries-cafes-buffets		
	5.7	0.59
Hairdressing salons and personal grooming establishments	5.0	0.06
Other personal effects	8.1	0.03
Private insurance connected with health	14.0	0.08
Motor vehicle insurance	5.6	0.08
Other appliances and articles for personal care	-0.6	-0.02

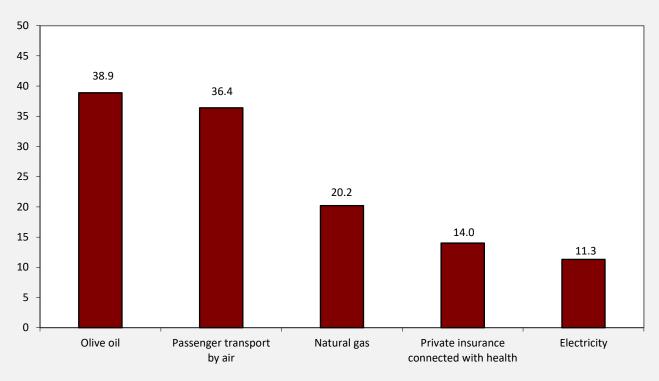




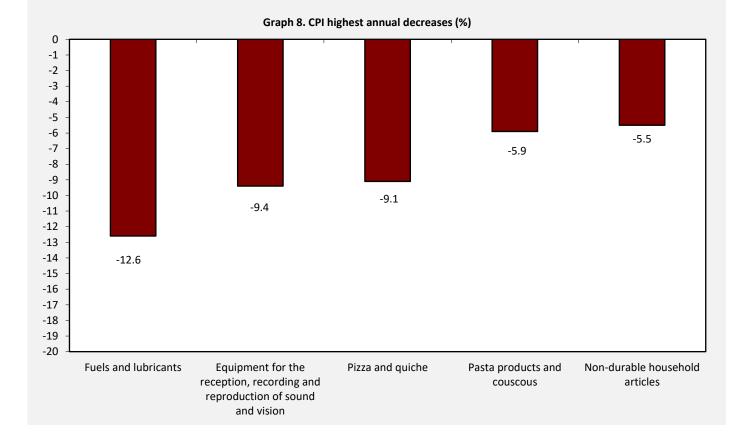


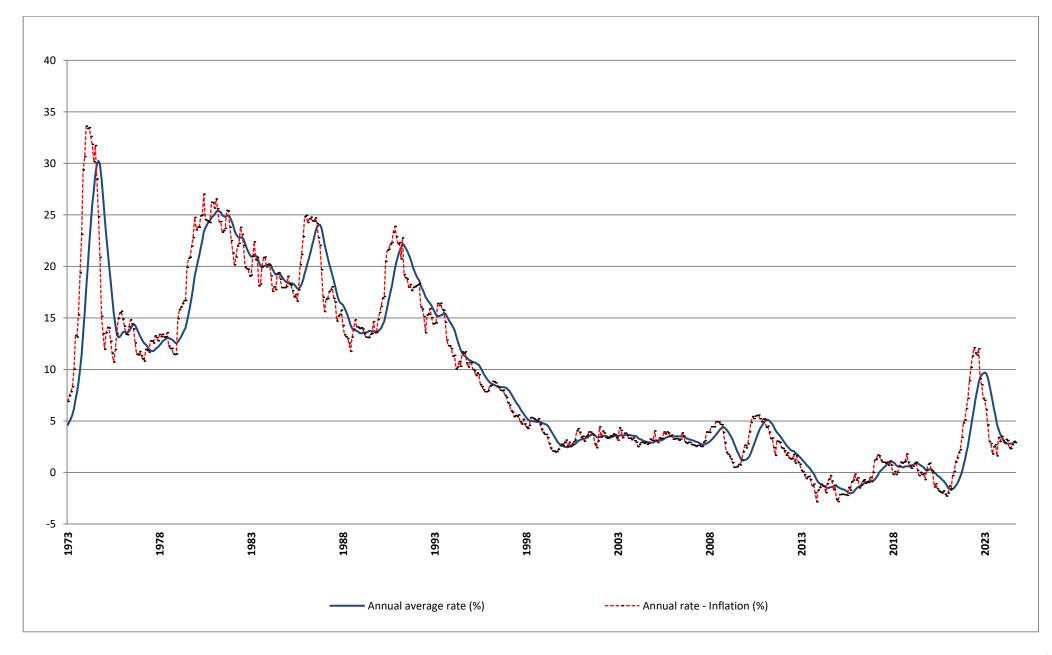
Graph 6. Annual rates of change (%) of CPI between September 2024 and September 2023





Graph 7. CPI highest annual increases (%)





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	<u>The composition of the "household basket"</u> 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.

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:

 $\begin{array}{ll} R_{h}^{12,T-1} & = \mbox{the index of the five-digit item h, in December of year T-1.} \\ W_{i}^{T} & = \mbox{the weight of the price collected item I, in year T.} \\ R_{i}^{t,T} & = \mbox{the index of the price collected item I, in month t of year T.} \\ R_{i}^{12,T-1} & = \mbox{the index of the price collected item I, in December of year T-1.} \end{array}$

A similar methodology is followed for the calculation of indices in the upper levels (two-digit, three-digit and fourdigit) 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 <u>Single Integrated</u> <u>Metadata Structure (SIMS)</u>.