



PRESS RELEASE

CONSUMER PRICE INDEX: May 2018, annual inflation 0.6%

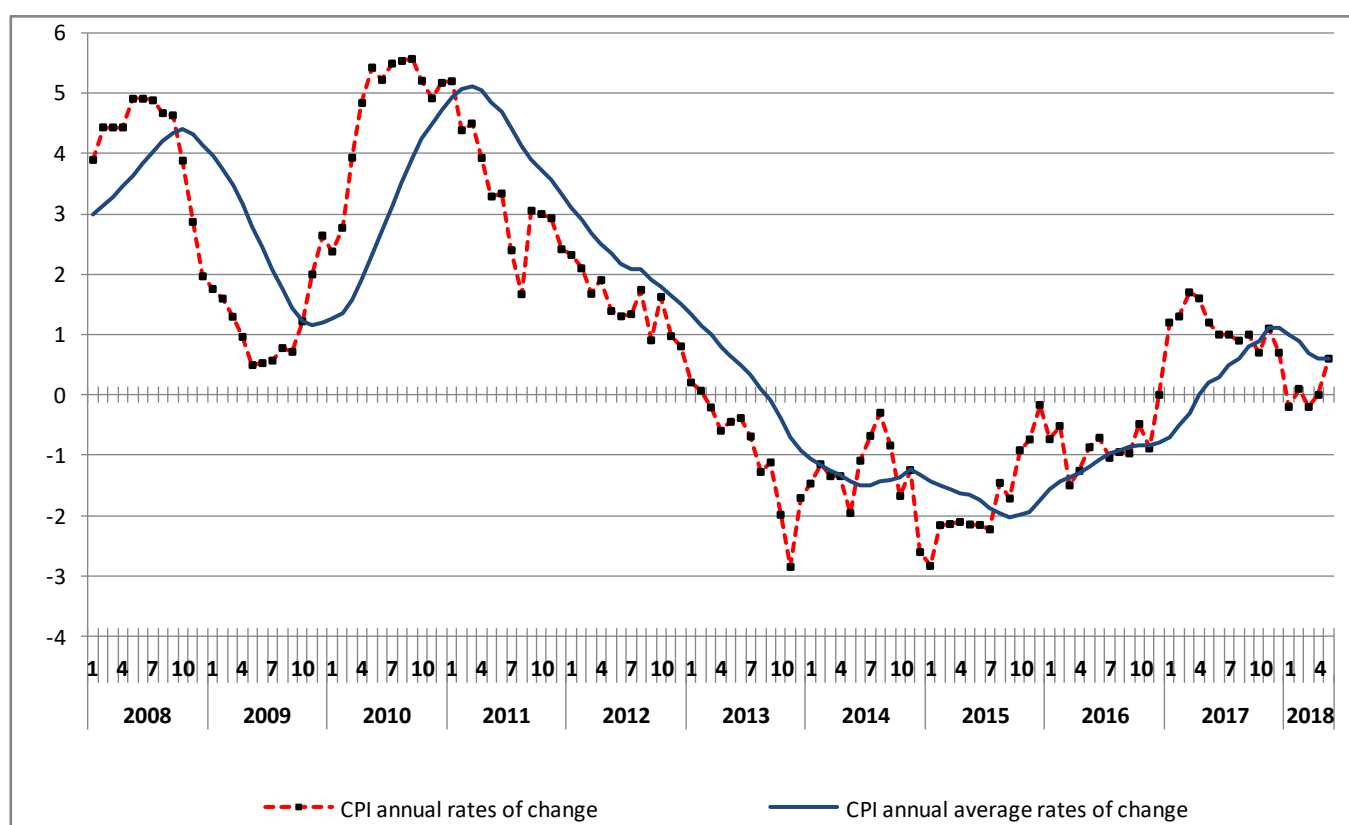
The evolution of the Consumer Price Index (CPI) of May 2018 (reference year 2009=100.0) is depicted as follows:

The CPI in May 2018 compared with May 2017, increased by 0.6%. In May 2017, the annual rate of change of the CPI was 1.2% (Table 2).

The CPI in May 2018 compared with April 2018, decreased by 0.3%. In May 2017, the monthly rate of change of the CPI was -0.9% (Table 1).

The average CPI for the twelve - month period from June 2017 to May 2018, compared with the corresponding index for the period June 2016 to May 2017 increased by 0.6%. The annual rate of change of the average CPI between the twelve - month period June 2016 to May 2017 in comparison to the period June 2015 to May 2016 was 0.2% (Table 3).

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



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Analysis of changes of the CPI: May 2018

I. Monthly rates of change: May 2018 compared with April 2018 (Tables 1, 4)

The 0.3% decrease of the Overall CPI in May 2018, compared with the corresponding index in April 2018 is, mainly, on account of the changes in the main groups of goods and services as follows:

1. A decrease of:

- 0.1% in Food and non-alcoholic beverages due to the decrease, mainly, in the prices of: *lamb and goat, milk cheese and eggs, fresh fruit*. This decrease was partly offset by the increase, mainly, in the prices of: *beef, pork, poultry, potatoes*.
- 11.7% in Clothing and footwear, due to the 10-day period of summer sales.
- 0.6% in Household equipment, due to the 10-day period of summer sales.

2. An increase of:

- 0.2% in Housing, due to the increase, mainly, in the prices of *natural gas*.
- 2.5% in Transport, due to the increase, mainly, in the prices of *petrol, diesel, tickets for passenger transport by air*.
- 0.8% in Hotel - Cafés - Restaurants, due to the increase, mainly, in the prices of: *restaurants-confectioneries-cafés, hotels-motels-inns*.
- 0.4% in Miscellaneous goods and services, 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*.

II. Annual rates of change: May 2018 compared with May 2017 (Tables 2, 5)

The 0.6% increase of the Overall CPI in May 2018, compared with the corresponding index in May 2017 is, mainly, on account of the changes in the main groups of goods and services as follows:

1. An increase of:

- 0.4% in Food and non-alcoholic beverages due to the increase, mainly, in the prices of: *beef, olive oil, fresh vegetables, coffee, milk whole fresh*. This increase was partly offset by the decrease, mainly, in the prices of: *lamb and goat, pork, fresh fruit*.
- 1.6% in Alcoholic beverages and tobacco, due to the increase, mainly, in the prices of: *wines, tobacco*.
- 0.3% in Health, due to the increase, mainly, in the prices of: *pharmaceutical products, hospital and clinic services*. This increase was partly offset by the decrease, mainly, in the prices of *services of medical laboratories*.
- 3.0% in Transport, due to the increase, mainly, in the prices of: *tickets for passenger transport by air, petrol, diesel*. This increase was partly offset by the decrease, mainly, in the prices of *maintenance and repair of personal transport equipment*.
- 3.3% in Communication, due to the increase, mainly, in the prices of *telephone services*.
- 0.2% in Education, due to the increase, mainly, in the prices of fees of *secondary education*.
- 1.5% in Hotel - Cafés - Restaurants, due to the increase, mainly, in the prices of: *restaurants-confectioneries-café-buffets, hotels-motels-inns*.

2. A decrease of:

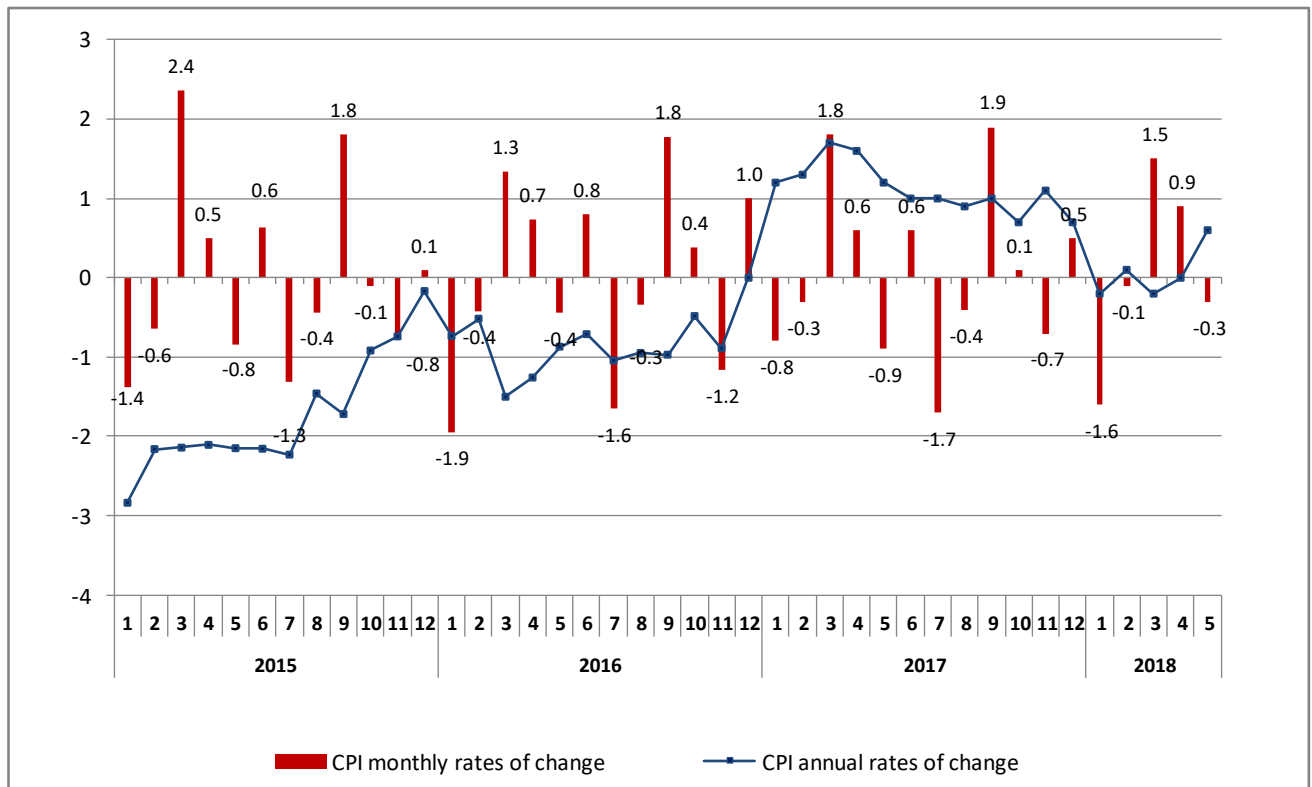
- 1.1% in Clothing and footwear, due to the decrease, mainly, in the prices of articles of clothing and footwear.
- 0.8% in Housing, due to the decrease, mainly, in the prices of: *actual rentals paid by tenants, electricity, natural gas*. This decrease was partly offset by the increase, mainly, in the prices of: *heating oil, solid fuels*.
- 0.7% in Household equipment, due to the decrease, mainly, in the prices of: *furniture and furnishings, household textiles*.
- 1.0% in Recreation and culture, due to the decrease, mainly, in the prices of: *audiovisual and information processing equipment, major durables for recreation and culture*.
- 0.5% in Miscellaneous goods and services, due to the decrease, mainly, in the prices of: *other appliances and articles for personal care, motor vehicle insurance*.

Table 1. Monthly rates of change of CPI
(Reference year: 2009=100.0)

Main groups of goods and services	Weights HBS 2016 (%)	2018	2018	Rate of change %	2017	2017	Rate of change %
		May	April		May	April	
1. Food & non-alcoholic beverages	206.21	104.92	105.04	-0.1	104.50	106.14	-1.5
2. Alcoholic beverages and tobacco	43.55	147.23	146.88	0.2	144.91	142.24	1.9
3. Clothing and footwear	64.99	92.68	104.96	-11.7	93.75	105.44	-11.1
4. Housing	136.71	119.34	119.15	0.2	120.31	120.63	-0.3
5. Household equipment	45.23	88.95	89.50	-0.6	89.60	91.13	-1.7
6. Health	74.02	96.80	96.81	0.0	96.51	96.70	-0.2
7. Transport	146.20	125.80	122.74	2.5	122.17	120.80	1.1
8. Communication	41.89	103.76	103.78	0.0	100.46	100.48	0.0
9. Recreation and culture	41.00	88.97	89.25	-0.3	89.91	90.41	-0.6
10. Education	32.54	89.22	89.22	0.0	89.03	89.03	0.0
11. Hotels - Cafés - Restaurants	101.33	109.30	108.40	0.8	107.72	106.95	0.7
12. Miscellaneous goods and services	66.34	92.68	92.27	0.4	93.12	93.53	-0.4
Overall Index	1000.00	106.70	107.05	-0.3	106.06	107.01	-0.9

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: 2009=100.0)**

I: May 2018/2017

Main groups of goods and services		May		Rate of change (%)	Effect
		2018	2017		
1.	Food and non alcoholic beverages	104.92	104.50	0.4	0.0825
2.	Alcoholic beverages and tobacco	147.23	144.91	1.6	0.0696
3.	Clothing and footwear	92.68	93.75	-1.1	-0.0852
4.	Housing	119.34	120.31	-0.8	-0.1066
5.	Household equipment	88.95	89.60	-0.7	-0.0331
6.	Health	96.80	96.51	0.3	0.0219
7.	Transport	125.80	122.17	3.0	0.4362
8.	Communication	103.76	100.46	3.3	0.1382
9.	Recreation and culture	88.97	89.91	-1.0	-0.0426
10.	Education	89.22	89.03	0.2	0.0067
11.	Hotels - Cafés - Restaurants	109.30	107.72	1.5	0.1491
12.	Miscellaneous goods and services	92.68	93.12	-0.5	-0.0309
Overall Index		106.70	106.06	0.6	

II: May 2017/2016

Main groups of goods and services		May		Rate of change (%)	Effect
		2017	2016		
1.	Food and non alcoholic beverages	104.50	104.64	-0.1	-0.0273
2.	Alcoholic beverages and tobacco	144.91	134.92	7.4	0.3975
3.	Clothing and footwear	93.75	96.12	-2.5	-0.1456
4.	Housing	120.31	116.51	3.3	0.4834
5.	Household equipment	89.60	92.60	-3.2	-0.1327
6.	Health	96.51	99.35	-2.9	-0.2088
7.	Transport	122.17	114.39	6.8	1.0698
8.	Communication	100.46	98.38	2.1	0.0832
9.	Recreation and culture	89.91	91.45	-1.7	-0.0604
10.	Education	89.03	89.27	-0.3	-0.0073
11.	Hotels - Cafés - Restaurants	107.72	105.46	2.1	0.2217
12.	Miscellaneous goods and services	93.12	95.37	-2.4	-0.1442
Overall Index		106.06	104.81	1.2	

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: 2009=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 %
2015: 1	104.32	-1.4	-2.8	107.13	-1.4
2	103.65	-0.6	-2.2	106.94	-1.5
3	106.10	2.4	-2.1	106.75	-1.6
4	106.63	0.5	-2.1	106.56	-1.6
5	105.73	-0.8	-2.1	106.36	-1.7
6	106.40	0.6	-2.2	106.17	-1.7
7	105.00	-1.3	-2.2	105.97	-1.9
8	104.54	-0.4	-1.5	105.84	-2.0
9	106.42	1.8	-1.7	105.68	-2.0
10	106.32	-0.1	-0.9	105.60	-2.0
11	105.51	-0.8	-0.7	105.54	-1.9
12	105.61	0.1	-0.2	105.52	-1.7
Annual average	105.52	-	-	105.52	-1.7
2016: 1	103.56	-1.9	-0.7	105.46	-1.6
2	103.12	-0.4	-0.5	105.41	-1.4
3	104.51	1.3	-1.5	105.28	-1.4
4	105.28	0.7	-1.3	105.17	-1.3
5	104.81	-0.4	-0.9	105.09	-1.2
6	105.65	0.8	-0.7	105.03	-1.1
7	103.91	-1.6	-1.0	104.94	-1.0
8	103.55	-0.3	-0.9	104.85	-0.9
9	105.39	1.8	-1.0	104.77	-0.9
10	105.80	0.4	-0.5	104.73	-0.8
11	104.57	-1.2	-0.9	104.65	-0.8
12	105.64	1.0	0.0	104.65	-0.8
Annual average	104.65	-	-	104.65	-0.8
2017: 1	104.76	-0.8	1.2	104.75	-0.7
2	104.46	-0.3	1.3	104.86	-0.5
3	106.33	1.8	1.7	105.01	-0.3
4	107.01	0.6	1.6	105.16	0.0
5	106.06	-0.9	1.2	105.26	0.2
6	106.72	0.6	1.0	105.35	0.3
7	104.94	-1.7	1.0	105.44	0.5
8	104.48	-0.4	0.9	105.51	0.6
9	106.45	1.9	1.0	105.60	0.8
10	106.56	0.1	0.7	105.67	0.9
11	105.77	-0.7	1.1	105.77	1.1
12	106.33	0.5	0.7	105.82	1.1
Annual average	105.82	-	-	105.82	1.1
2018: 1	104.58	-1.6	-0.2	105.81	1.0
2	104.52	-0.1	0.1	105.81	0.9
3	106.08	1.5	-0.2	105.79	0.7
4	107.05	0.9	0.0	105.80	0.6
5	106.70	-0.3	0.6	105.85	0.6

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

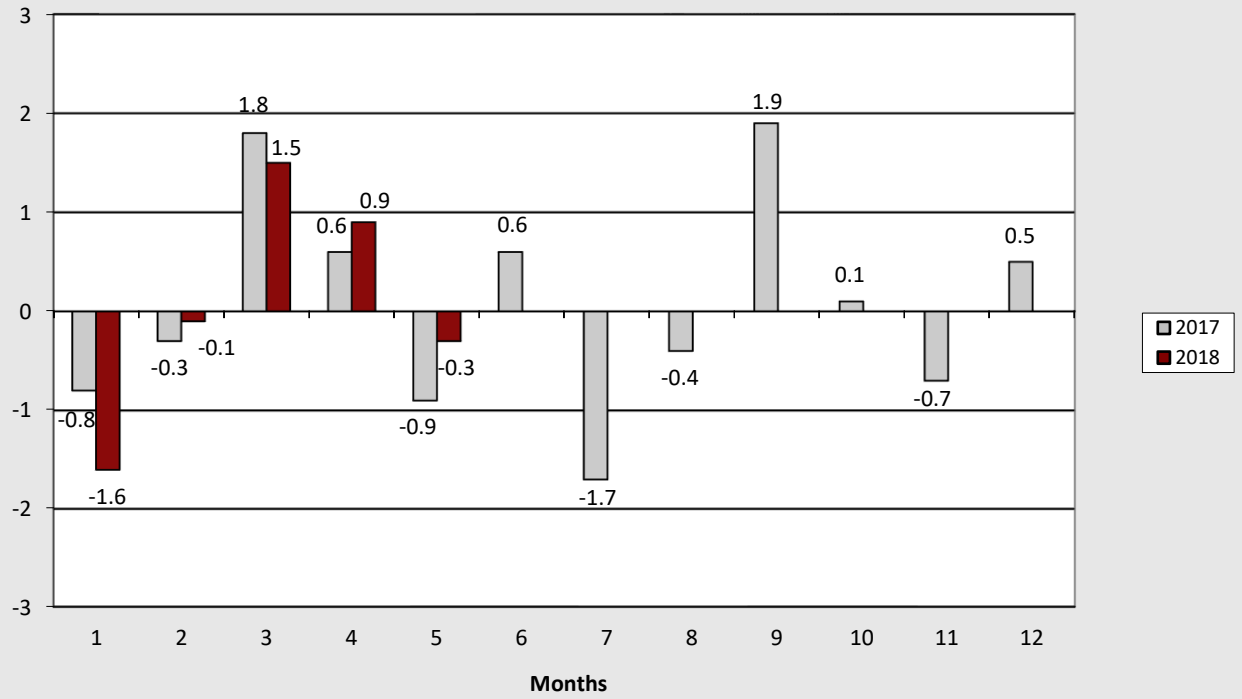
**Table 4. Major price changes from index comparison
May 2018 with April 2018 and their impact
in the Overall CPI**

Goods and services	Rate of change (%)	Impact
Milk cheese and eggs	-1.0	-0.04
Fresh fruit	-3.6	-0.05
Potatoes	8.4	0.03
Lamb and goat	-4.3	-0.02
Beef	0.7	0.01
Pork	1.4	0.01
Poultry	2.3	0.02
Natural gas	6.2	0.02
Diesel	4.0	0.02
Petrol	3.2	0.18
Passenger transport by air	9.2	0.17
Restaurants - confectioneries - cafes	0.1	0.01
Hotels - motels - inns	10.2	0.07
Other appliances and articles for personal care	1.7	0.04
Motor vehicle insurance	-0.6	-0.01
10-day summer sales	-	-0.80

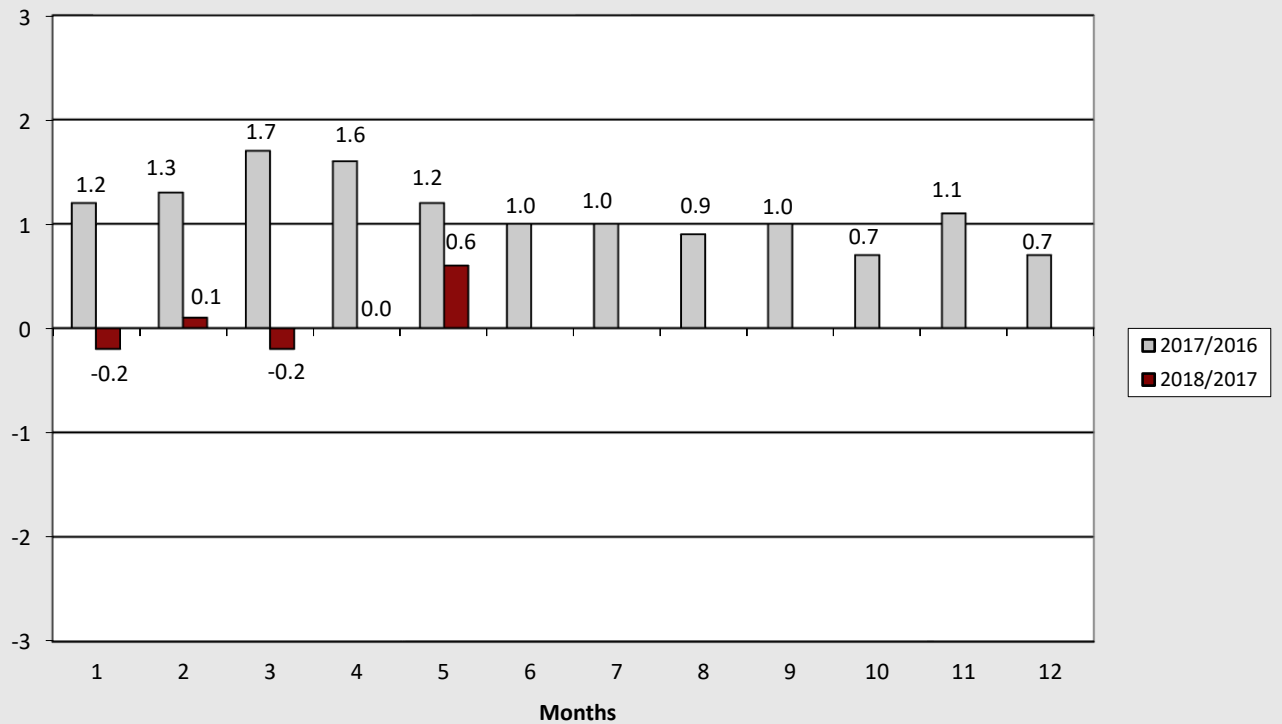
**Table 5. Major price changes from index comparison
May 2018 with May 2017 and their impact
in the Overall CPI**

Goods and services	Rate of change (%)	Impact
Beef	2.3	0.04
Pork	-1.2	-0.01
Olive oil	2.5	0.03
Fresh fruit	-4.0	-0.05
Lamb and goat	-4.8	-0.02
Coffee	4.6	0.02
Milk whole fresh	1.7	0.01
Fresh vegetables	1.2	0.02
Wines	3.0	0.01
Tobacco	1.8	0.06
Clothing and footwear	-1.1	-0.09
Actual rentals paid by tenants	-4.0	-0.13
Electricity	-2.1	-0.07
Natural gas	-8.3	-0.03
Heating oil	4.3	0.11
Solid fuels	1.5	0.01
Furniture and furnishings	-2.2	-0.01
Household textiles	-1.7	-0.01
Pharmaceutical products	0.9	0.02
Services of medical laboratories	-3.0	-0.01
Hospital and clinic services	0.7	0.02
Petrol	6.8	0.36
Diesel	10.1	0.04
Maintenance and repair of personal transport equipment	-1.9	-0.02
Passenger transport by air	5.7	0.05
Telephone services	3.5	0.14
Audiovisual and information processing equipment	-2.1	-0.02
Major durables for recreation and culture	-2.3	-0.01
Secondary education	0.6	0.01
Restaurants - confectioneries - cafes - buffets	0.9	0.09
Hotels - motels - inns	8.1	0.06
Other appliances and articles for personal care	-0.9	-0.02
Motor vehicle insurance	-0.6	-0.01

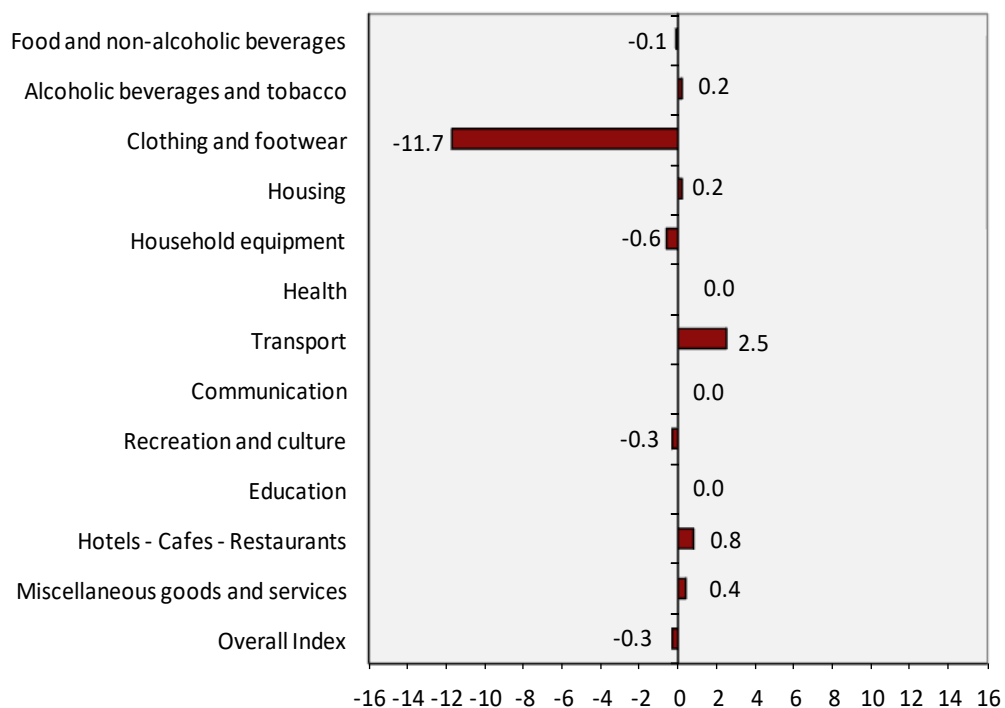
Graph 3. Monthly rates of change (%) of the overall CPI, 2017 and 2018



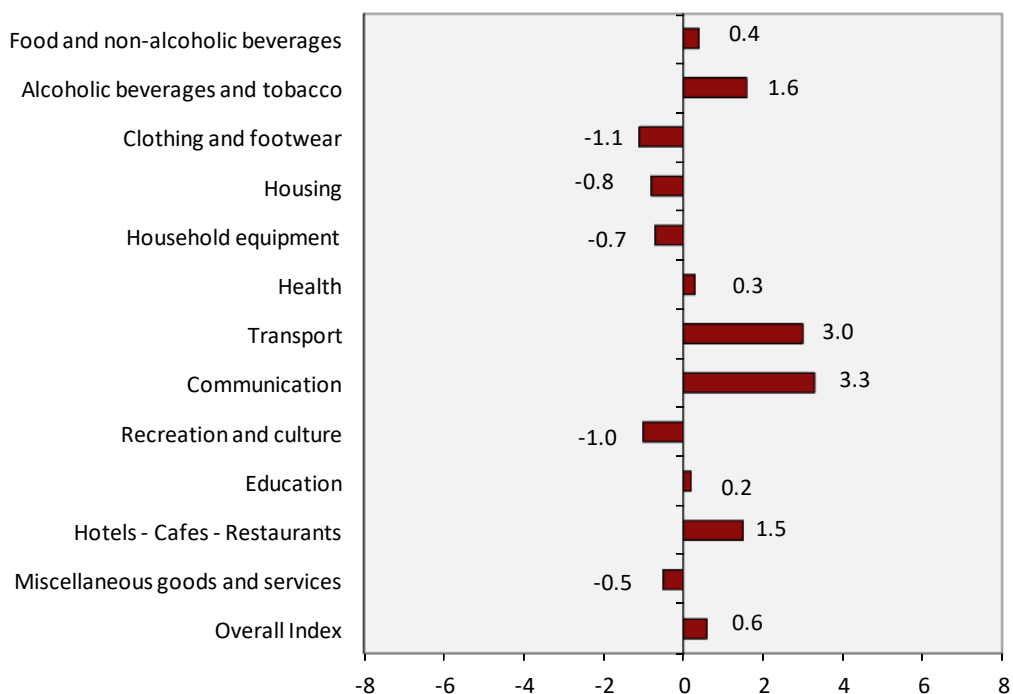
Graph 4. Annual rates of change (%) of the overall CPI, 2017 and 2018



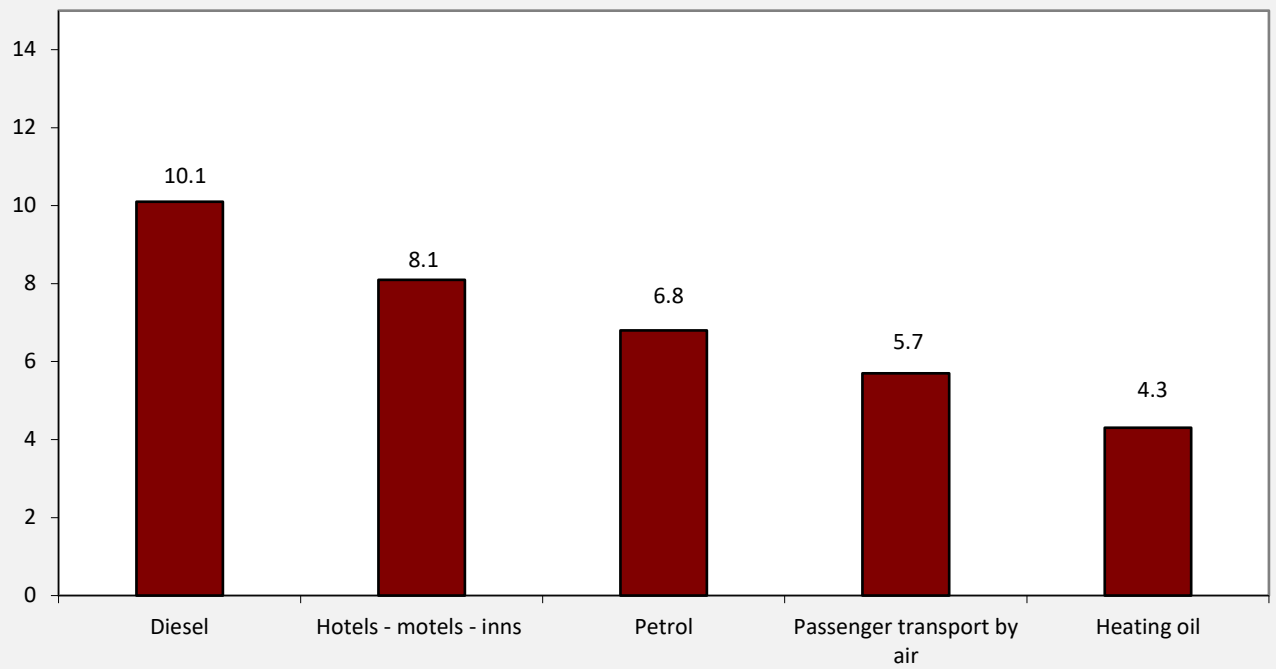
Graph 5. Monthly rates of change (%) of CPI between May 2018 and April 2018



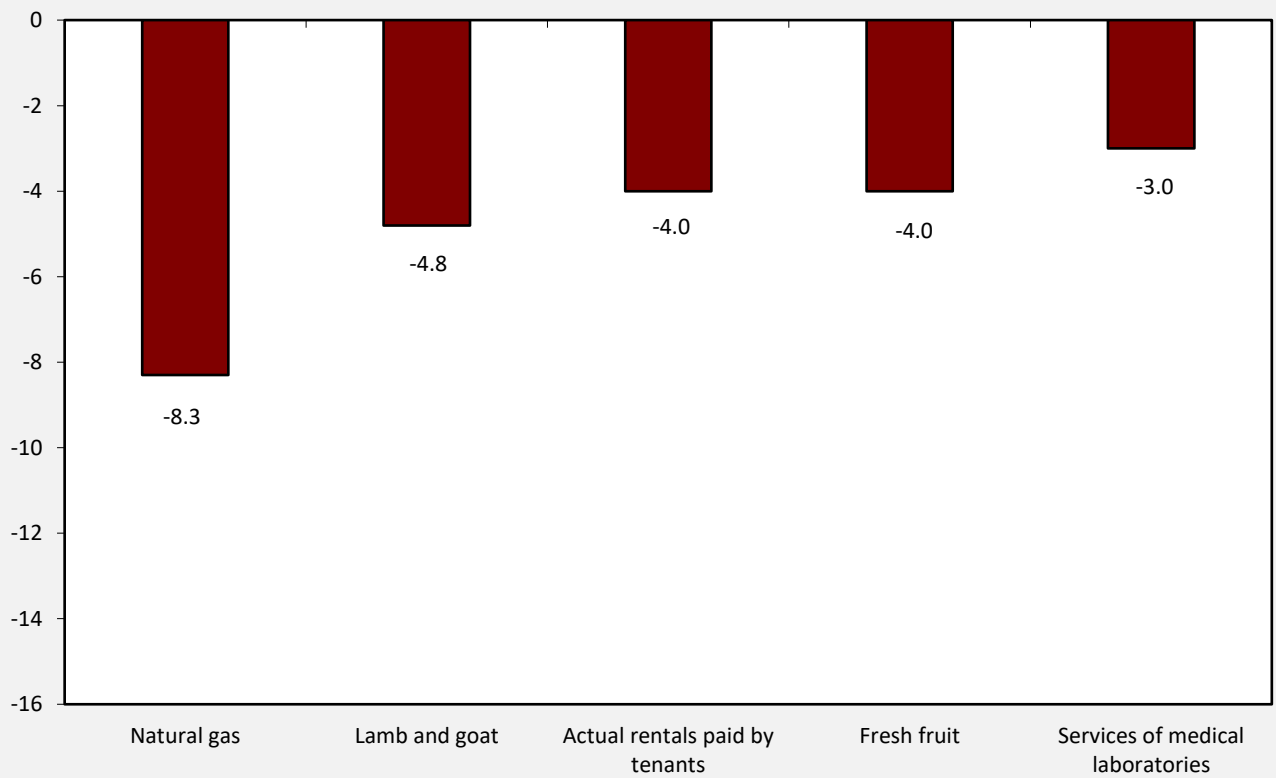
Graph 6. Annual rates of change (%) of CPI between May 2018 and May 2017



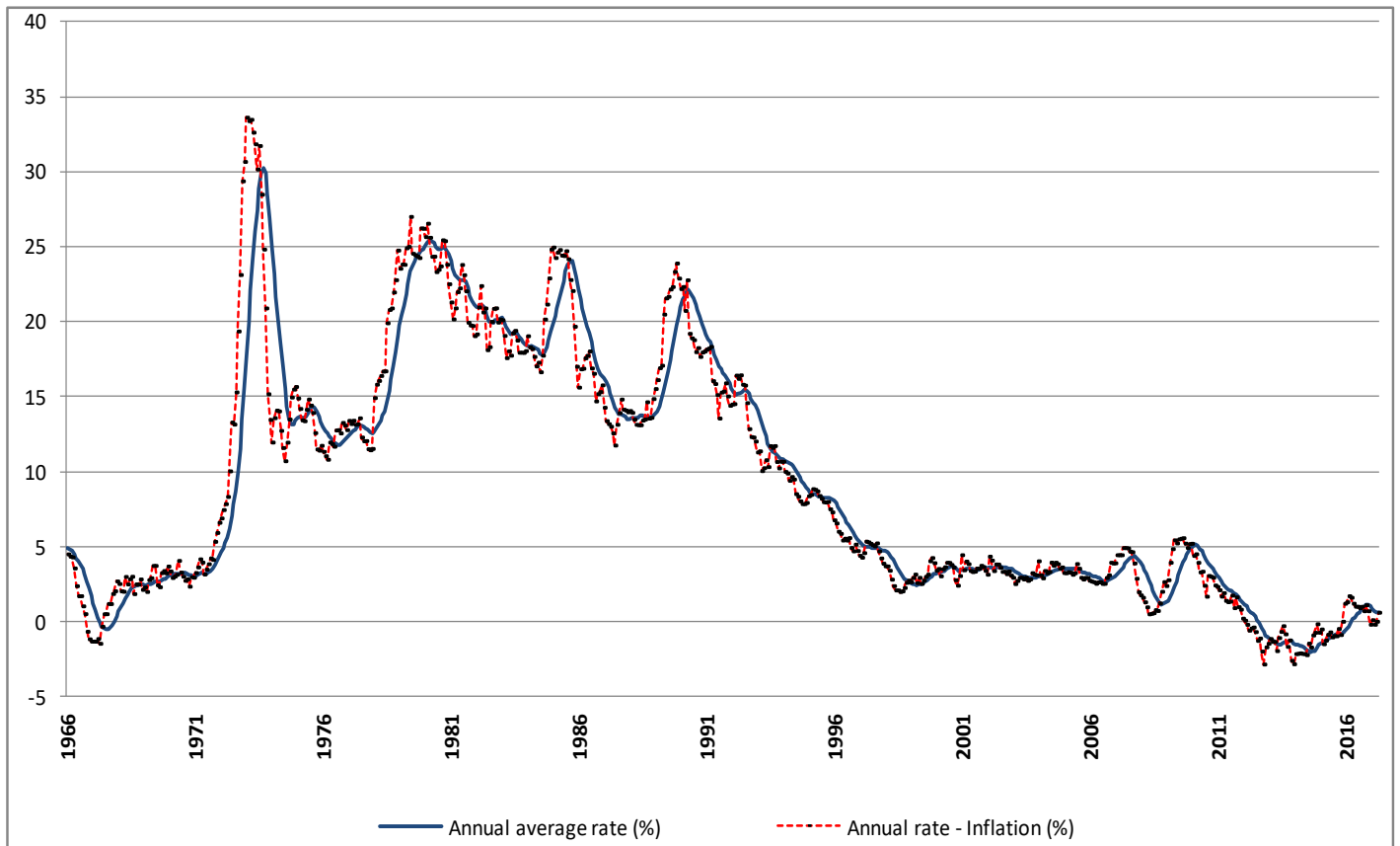
Graph 7. CPI highest annual increases (%)



Graph 8. CPI highest annual decreases (%)



Graph 9. Historical evolution of CPI. 1967 – 2018



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	2009=100.0.
Chain linking Index	The CPI index follows the chain linking method, introducing new weights annually and having as a base 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:

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

w_i^T = the weight of the price collected item i , in year T .

$R_i^{t,T}$ = the index of the price collected item i , in month t of year T .

$R_i^{12,T-1}$ = 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 2009=100.0), covers the period from January 1959 onwards. The CPI data are released each month as scheduled, in accordance with the Press Releases Calendar of ELSTAT, with the [Press 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 \(SIMS\)](#).