

12 February 2019

Consumer Price Index
January 2019

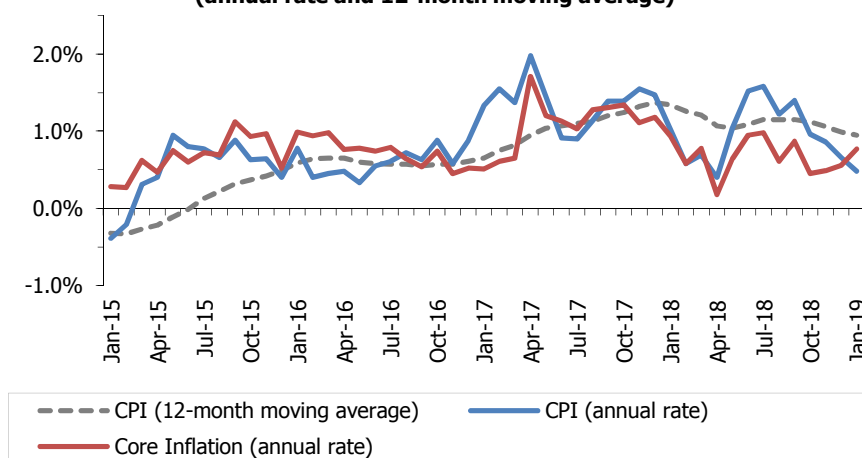
CPI annual rate of change stood at 0.5%

The Consumer Price Index (CPI) annual rate moved from 0.7% in December 2018 to 0.5% in January 2019. The annual core inflation rate, which excludes energy and unprocessed food products components, was 0.8% (0.6% in the previous month).

The CPI monthly rate was -1.2% (-0.2% in the previous month and -1.0% in January 2018), while the CPI 12-month average rate was 0.9% (1.0% in the previous month).

In January 2019, the Portuguese Harmonised Index of Consumer Prices (HICP) annual rate of change was 0.6% (the same value as in the previous month), 0.8 percentage points (p.p.) below the rate estimated by Eurostat for the Euro area (in December this difference was 1.0 p.p.).

Fig. 1 - Consumer price and core inflation indices (annual rate and 12-month moving average)



Consumer Price Index (base 100 = 2012)

In January 2019, the annual inflation rate measured by the CPI was 0.5%, 0.2 p.p. below the rate of the previous month (see Fig. 1). When rounded to one decimal place, this figure is 0.1 p.p. above the value provided in the flash estimate, which was released on January 31st (for further details on the differences between estimated and final CPI figures, see table 3 of this press release).

The annual core inflation rate, which excludes energy and unprocessed food products components, was 0.8% (0.6% in the previous month). The unprocessed food aggregate recorded an annual rate of 0.5% in January (0.8% in December) while energy presented an annual rate of -2.3% (1.4% in the previous month).

The largest upward pressure on the overall annual rate of change came from changes in the prices of *Restaurants and Hotels and Miscellaneous goods and services*, while downward pressures came from decreases in the prices of *Clothing and footwear*.

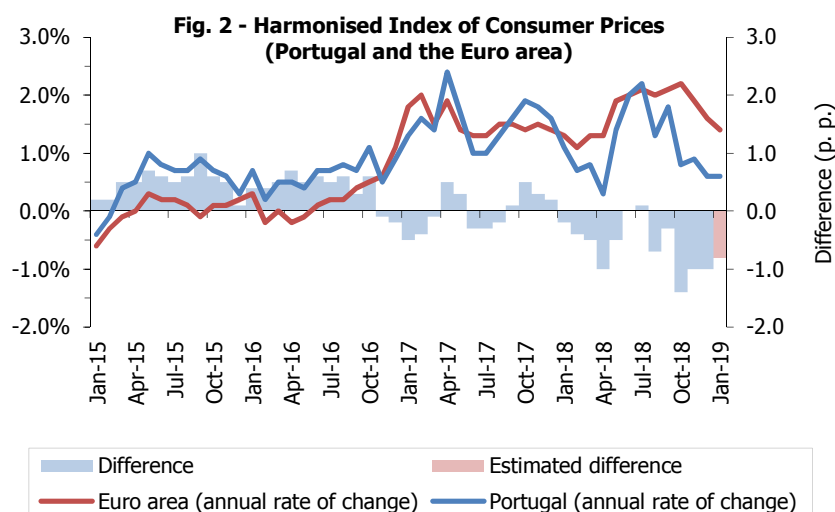
In January 2019, the CPI monthly rate was -1.2% (-0.2% in the previous month and -1.0% in January 2018). The main downward contribution was observed in the price of *Clothing and footwear*. Conversely, the major upward contribution to this result came from changes in the prices of *Food and non-alcoholic beverages*.

The CPI 12-month average rate was 0.9% in January (1.0% in the previous month).

Harmonised Index of Consumer Prices (base 100 = 2015)

In January, the Portuguese HICP annual rate was 0.6% (the same value as in the previous month) while the monthly rate was -1.3% (-0.4% in December and -1.2% in January 2018).

In December 2018, the annual rate of change of the Portuguese HICP was 1.0 p.p. below the Euro area rate. In January, this difference is estimated to have decreased to 0.8 p.p..



The HICP 12-month average rate was 1.1% in January (1.2% in the previous month).

Housing Rents

In January, the annual change rate of the housing rents for the whole country was 2.9%, 0.1 p.p. higher than in the previous month. The highest increase was observed in the Lisboa region (3.6%), with all regions displaying positive rates of change.

For the same period, the monthly rate of change of the average value of rents per square meter for the whole country was 0.3% (0.2% in the previous month). All regions depicted housing rent rises, with the Açores region observing the highest increase of all (0.5%).

Consumer Price Index 2019 – changes due to the annual chaining of the index

With the publication of the Consumer Price Index (CPI) in January of each year, the expenditure structure and the goods and services included in the basket are updated benefiting from the chaining process.

The weighting structure for the 2019 CPI is based on the households' final monetary consumption expenditure of final 2016 and preliminary 2017 Portuguese National Accounts. These results are valued to December prices.

This update process complies with the regulations of the European Commission and Eurostat's recommendations for the compilation of the Harmonized Index of Consumer Prices, aiming to ensure the highest quality of the information and the comparability among Member States.

Using National Accounts as the primary source of information in this process ensures the appropriate update of the weights at the aggregated level on an annual basis, reflecting not only price changes but also changes in quantities of goods and services purchased by households. Information from National Accounts, which reflects the integration of several sources, including the Household Budget Survey (HBS), ensures a high degree of consistency with other fundamental indicators for economic analysis. National Accounts are compiled using supply and use tables, matching available resources of each product (domestic production and imports) and the respective uses (exports and domestic spending) at a relatively detailed level.

As the breakdown level of the products included in the CPI is larger than the one that is provided by National Accounts, for more disaggregated levels of expenditure, information from the HBS and the Census, supplemented by other administrative sources and surveys conducted by Statistics Portugal, is used. This information is also used for updating the basket of goods and services included in the CPI.

With the access to more detailed and up-to-date information, notably coming from administrative sources, changes in the weighting structure and / or samples were also introduced for cigarettes, electricity, natural gas, pharmaceutical products, new cars, telecommunication services, newspapers and periodicals, football, betting and gambling, insurance and financial services.

The following table compares the CPI weights derived for 2018 and 2019 CPIs.

COICOP ¹ divisions	2018 weights	2019 weights
01 Food and non-alcoholic beverages	204.6	202.1
02 Alcoholic beverages and tobacco	36.5	38.0
03 Clothing and footwear	74.0	71.9
04 Housing, water, electricity, gas and other fuels	97.9	98.5
05 Furnishings, household equipment and routine maintenance of the house	60.8	61.0
06 Health	62.6	63.6
07 Transport	157.7	158.0
08 Communication	31.3	30.1
09 Recreation and culture	74.2	76.4
10 Education	15.2	15.2
11 Restaurants and hotels	86.7	85.1
12 Miscellaneous goods and services	98.6	100.2
00 All items	1 000²	1 000

¹ COICOP – Classification of Individual Consumption by Purpose

² Due to rounding, the sum of the parts may not add exactly to 1000.

Consumer Price Index

The Consumer Price Index (CPI) measures the change over time of the prices of a certain basket of goods and services bought by a “typical” consumer. The CPI has been designed to capture price changes and not to measure price levels.

The CPI is updated every year with the most recent information on prices and quantities. The 2019 CPI weighting structure and the sample of goods and services included in the basket are a result of the combination of three fundamental sources of information: results of the Portuguese National Accounts, complemented with the Household Budget Survey and the Census for more detailed levels of expenditure. Administrative data is also used.

The CPI is compiled through the aggregation of seven regional price indexes and the goods and services included in the index are grouped according to the Classification of individual consumption by purpose (COICOP).

Table 1: CPI - COICOP Divisions

01	Food and non-alcoholic beverages	07	Transports
02	Alcoholic beverages and tobacco	08	Communications
03	Clothing and footwear	09	Recreation and culture
04	Housing, water, electricity, gas and other fuels	10	Education
05	Furnishings, household equipment and routine maintenance of the house	11	Restaurants and hotels
06	Health	12	Miscellaneous goods and services

Monthly rate

The monthly rate is the change in the index of a certain month compared with the index of the previous month expressed as a percentage. Although up-to-date, this measure can be affected by seasonal and other effects.

Annual rate

The annual rate is the change in the index of a certain month compared with the index of the same month in the previous year expressed as a percentage. In the presence of a stable seasonal pattern, seasonal effects do not influence this measure.

12-month average rate

The 12-month average rate is the change in the average index of one year compared with the average index of the previous year expressed as a percentage. This moving average is less sensitive to transient changes in prices.

Core inflation index (all items CPI excluding unprocessed food and energy products)

The core inflation index is compiled by excluding the prices of unprocessed food and energy products from the all items CPI. The primary objective of this index is to capture the underlying inflation pressures in the economy.

Harmonised Index of Consumer Prices

The Harmonised Index of Consumer Prices (HICP) is compiled in each member state of the European Union for the purposes of inflation comparisons across EU countries, as required by the Treaty on European Union¹. This index plays an important role as a guideline for the achievement of the European System of Central Banks primary objective: price stability. In 1998, the European Central Bank adopted the HICP as “the most appropriate price measure” for its definition of price stability in the Euro area².

¹ Article 109j and protocol on the convergence criteria referred to in that article.

² A stability oriented monetary policy strategy for the ESCB”. ECB press notice released on 13 October 1998.

The HICP is produced in each Member State following a harmonized methodology developed by experts in the field of price statistics, under the "Price Statistics Working Group" and related Task Forces. From the methodological point of view, there are no major differences between the HICP and CPI. However, the different scope of coverage leads to differences in the weighting structure, mainly in Restaurants and hotels. This is mostly an effect of the inclusion of non-residents expenditure ("tourists") in the HICP and the corresponding exclusion from the CPI.

Additional information on the methodology of the HICP is available at <http://ec.europa.eu/eurostat/web/hicp>.

Table 2: CPI and HICP 2019 weighting structures

COICOP divisions		CPI	HICP
01	Food and non-alcoholic beverages	202.1	192.6
02	Alcoholic beverages and tobacco	38.0	37.0
03	Clothing and footwear	71.9	73.0
04	Housing, water, electricity, gas and other fuels	98.5	91.3
05	Furnishings, household equipment and routine maintenance of the house	61.0	58.9
06	Health	63.6	60.1
07	Transport	158.0	154.6
08	Communication	30.1	27.9
09	Recreation and culture	76.4	62.0
10	Education	15.2	14.0
11	Restaurants and hotels	85.1	135.1
12	Miscellaneous goods and services	100.2	93.5
00	All items	1 000¹	1 000

¹ Due to rounding, the sum of the parts may not add exactly to 1000.

Presentation of data and rounding rules

Since the release of the January 2013 CPI indices are published with base 100 in the year 2012.

Due to rounding procedures, those indices may not reproduce exactly the published rates of change. However, it should be noted that the published rates prevail.

In this press release the descriptive analysis is based on rounded values to one decimal.

Differences between estimated and final values

In table 3, some descriptive statistics are presented for the differences between the estimated and final values of the annual rate for the last 24 months. The table also includes the differences for the last three months, in p.p..

Table 3: Differences between the estimated and final values of the annual rate

	Differences last 24 months (p.p.)			Differences last 3 months (p.p.)		
	Mean	Max	Min	Nov-18	Dec-18	Jan-19
Total	-0.02	0.04	-0.09	-0.02	-0.02	0.04
All items excluding housing	-0.02	0.03	-0.09	-0.01	-0.01	0.03
All items excl. unproc. food and energy	-0.02	0.04	-0.15	-0.01	-0.01	0.04
Unprocessed food	-0.04	0.05	-0.27	0.00	0.00	0.01
Energy	0.02	0.26	-0.14	-0.06	-0.06	-0.04

Next press releases

The February 2019 flash estimate will be available on February 28th, 2019.

The February 2019 CPI/HICP will be released on March 12th, 2019.

Annex:

CPI rate of change (index division and all-items CPI)

	Index divisions ⁽¹⁾												All-items CPI
	01	02	03	04	05	06	07	08	09	10	11	12	
	Annual average rate (%)												
2016	0.49	2.61	-0.39	0.39	0.43	-0.61	-0.56	3.17	1.02	0.89	2.21	0.60	0.61
2017	1.53	2.57	-2.39	0.59	-0.45	0.44	3.06	2.60	1.42	0.95	3.73	0.83	1.37
2018	0.74	2.26	-3.47	2.19	-0.41	1.07	3.06	0.43	-0.12	1.22	2.12	0.83	0.99
	Annual rate (%)												
2017 January	1.33	2.40	-0.69	0.49	-0.19	-0.47	5.38	2.47	1.38	0.85	1.61	-0.13	1.33
February	2.37	2.57	-1.83	0.11	-0.19	-0.27	5.89	1.92	0.83	0.85	1.89	0.44	1.55
March	2.68	3.73	-1.72	0.31	-0.83	-0.26	3.09	2.43	0.99	0.86	2.02	0.28	1.37
April	1.97	3.29	-2.01	0.15	-0.52	0.73	4.58	3.07	2.70	0.85	5.70	0.41	1.98
May	2.07	3.03	-1.77	0.05	-0.23	0.48	1.09	3.26	2.15	0.85	4.91	1.14	1.45
June	0.22	2.21	-1.64	-0.22	-0.55	0.45	1.52	3.58	2.13	0.83	3.51	0.80	0.91
July	0.31	2.26	-2.47	0.51	-0.79	0.60	1.09	3.69	2.54	0.85	3.68	0.86	0.90
August	0.37	2.25	-1.90	0.65	-0.57	0.64	1.73	3.83	2.79	0.85	3.91	1.12	1.14
September	1.12	2.61	-3.44	1.33	-0.45	0.70	2.61	3.09	1.53	0.87	4.48	1.25	1.39
October	1.32	1.88	-3.70	1.18	-0.44	0.83	2.60	2.46	-0.19	1.21	6.01	1.43	1.39
November	2.43	2.63	-3.63	1.26	-0.40	0.84	3.57	1.47	0.16	1.23	3.77	1.19	1.55
December	2.28	2.04	-3.43	1.31	-0.26	1.02	3.83	0.12	0.13	1.24	3.02	1.12	1.47
2018 January	1.45	2.31	-4.68	1.48	-1.02	0.74	3.23	0.59	-0.18	1.23	2.49	1.20	1.03
February	0.45	0.70	-2.44	1.66	-0.93	1.00	1.02	0.78	-0.07	1.22	2.37	0.95	0.58
March	0.30	1.24	-4.43	1.44	-0.06	1.07	1.90	0.50	0.77	1.22	2.51	0.98	0.69
April	0.92	2.25	-3.67	1.56	-0.43	0.97	0.76	0.41	-0.61	1.19	0.08	1.04	0.40
May	0.70	2.28	-3.26	2.02	-0.85	1.16	3.80	0.44	-0.70	1.18	2.87	0.25	1.04
June	1.24	2.88	-2.74	2.32	-0.25	1.33	4.06	0.91	-0.03	1.20	3.82	0.56	1.52
July	1.19	2.87	-2.81	2.60	-0.48	1.19	3.98	0.46	0.00	1.24	4.82	0.65	1.58
August	0.90	2.40	-2.46	2.65	-0.31	1.22	4.00	0.42	0.49	1.26	1.11	0.48	1.22
September	0.84	2.15	-3.60	2.66	-0.35	1.19	4.62	0.03	0.35	1.28	3.30	0.57	1.40
October	0.30	3.17	-3.69	2.68	-0.20	0.98	4.84	0.12	-0.52	1.15	-0.64	0.92	0.96
November	0.28	2.22	-3.64	2.71	-0.09	1.01	3.10	0.10	-0.77	1.21	1.30	1.13	0.86
December	0.30	2.61	-3.94	2.47	0.01	0.96	1.45	0.43	-0.13	1.23	1.47	1.20	0.66
2019 January	0.24	2.43	-3.14	0.55	-0.56	1.20	0.66	0.16	0.11	1.36	2.11	1.31	0.48

Note: (1) The names of the divisions are given in the explanatory notes.

Source: INE - Portugal

HICP rate of change (international comparison)⁽¹⁾

	EA-19 ⁽²⁾	EICP ⁽³⁾	BE	BG	CZ	DK	DE	EE	EL	ES	FR	HR	IE	IT	CY	LV	LT	LU	HU	MT	NL	AT	PL	PT	RO	SI	SK	FI	SE	UK
	Annual average rate (%)																													
2016	0.2	0.3	1.8	-1.3	0.6	0.0	0.4	0.8	0.0	-0.3	0.3	-0.6	-0.2	-0.1	-1.2	0.1	0.7	0.0	0.4	0.9	0.1	1.0	-0.2	0.6	-1.1	-0.2	-0.5	0.4	1.1	0.7
2017	1.5	1.7	2.2	1.2	2.4	1.1	1.7	3.7	1.1	2.0	1.2	1.3	0.3	1.3	0.7	2.9	3.7	2.1	2.4	1.3	1.3	2.2	1.6	1.6	1.1	1.6	1.4	0.8	1.9	2.7
2018	1.7	1.9	2.3	2.6	2.0	0.7	1.9	3.4	0.8	1.7	2.1	1.6	0.7	1.2	0.8	2.6	2.5	2.0	2.9	1.7	1.6	2.1	1.2	1.2	4.1	1.9	2.5	1.2	2.0	2.5
	Annual rate (%)																													
2017 January	1.8	1.7	3.1	0.4	2.3	0.7	1.9	2.8	1.5	2.9	1.6	0.9	0.2	1.0	0.7	2.9	2.5	2.5	2.4	1.4	1.6	2.1	1.4	1.3	0.3	1.5	0.8	0.9	1.5	1.8
February	2.0	2.0	3.3	0.9	2.6	0.9	2.2	3.4	1.4	3.0	1.4	1.4	0.3	1.6	1.4	3.2	3.2	2.7	2.9	1.2	1.7	2.4	1.9	1.6	0.5	2.5	1.2	1.4	1.9	2.3
March	1.5	1.6	2.5	1.0	2.6	0.9	1.5	3.0	1.7	2.1	1.4	1.1	0.6	1.4	1.5	3.3	3.2	2.5	2.7	1.2	0.6	2.1	1.8	1.4	0.4	2.0	1.0	0.9	1.4	2.3
April	1.9	2.0	2.7	1.7	2.1	1.0	2.0	3.6	1.6	2.6	1.4	1.4	0.7	2.0	2.1	3.3	3.5	2.6	2.3	1.1	1.4	2.3	1.8	2.4	0.6	1.7	0.8	1.0	2.0	2.7
May	1.4	1.6	1.9	1.4	2.5	0.7	1.4	3.5	1.5	2.0	0.9	1.0	0.0	1.6	0.9	2.7	3.2	1.9	2.1	1.1	0.7	2.1	1.5	1.7	0.5	1.5	1.1	0.9	1.8	2.9
June	1.3	1.5	1.5	1.1	2.4	0.4	1.5	3.1	0.9	1.6	0.8	1.1	-0.6	1.2	0.9	3.1	3.5	1.5	2.0	1.0	1.0	2.0	1.3	1.0	0.7	0.9	1.0	0.9	1.8	2.6
July	1.3	1.5	1.8	0.6	2.4	1.5	1.5	3.9	0.9	1.7	0.8	1.2	-0.2	1.2	-0.1	2.6	4.1	1.8	2.2	1.2	1.5	2.0	1.4	1.0	0.9	1.2	1.5	0.6	2.3	2.6
August	1.5	1.7	2.0	0.7	2.4	1.5	1.8	4.2	0.6	2.0	1.0	1.5	0.4	1.4	0.5	3.2	4.6	2.3	2.7	1.2	1.5	2.1	1.4	1.3	0.6	1.4	1.6	0.8	2.2	2.9
September	1.5	1.8	2.0	1.3	2.5	1.6	1.8	3.9	1.0	1.8	1.1	1.6	0.2	1.3	0.1	3.0	4.6	2.0	2.5	1.2	1.4	2.5	1.6	1.6	1.3	1.4	1.8	0.8	2.2	3.0
October	1.4	1.7	1.8	1.5	2.8	1.4	1.5	4.0	0.5	1.7	1.2	1.6	0.5	1.1	0.4	2.7	4.2	2.0	2.2	1.5	1.3	2.4	1.6	1.9	2.0	1.3	1.8	0.5	1.7	3.0
November	1.5	1.8	2.1	1.9	2.5	1.3	1.8	4.5	1.1	1.8	1.2	1.6	0.5	1.1	0.2	2.7	4.2	2.0	2.6	1.5	1.5	2.4	2.0	1.8	2.6	1.4	2.1	0.9	1.9	3.1
December	1.4	1.7	2.1	1.8	2.2	0.8	1.6	3.8	1.0	1.2	1.2	1.3	0.5	1.0	-0.4	2.2	3.8	1.6	2.2	1.3	1.2	2.3	1.7	1.6	2.6	1.9	2.0	0.5	1.7	3.0
2018 January	1.3	1.6	1.8	1.3	2.1	0.6	1.4	3.6	0.2	0.7	1.5	1.2	0.3	1.2	-1.5	2.0	3.6	1.3	2.1	1.2	1.5	1.9	1.6	1.1	3.4	1.7	2.6	0.8	1.6	3.0
February	1.1	1.4	1.5	1.5	1.6	0.5	1.2	3.2	0.4	1.2	1.3	0.9	0.7	0.5	-0.4	1.8	3.2	1.1	1.9	1.3	1.3	1.9	0.7	0.7	3.8	1.4	2.2	0.6	1.6	2.7
March	1.3	1.5	1.5	1.9	1.6	0.4	1.5	2.9	0.2	1.3	1.7	1.2	0.5	0.9	-0.4	2.3	2.5	1.1	2.0	1.3	1.0	2.0	0.7	0.8	4.0	1.5	2.5	0.9	2.0	2.5
April	1.3	1.5	1.6	1.7	1.8	0.7	1.4	2.9	0.5	1.1	1.8	1.4	-0.1	0.6	-0.3	2.1	2.2	1.3	2.4	1.4	1.0	2.0	0.9	0.3	4.3	1.9	3.0	0.8	1.8	2.4
May	1.9	2.0	2.3	2.3	2.0	1.0	2.2	3.1	0.8	2.1	2.3	1.8	0.7	1.0	1.0	2.4	2.9	2.1	2.9	1.7	1.9	2.1	1.2	1.4	4.6	2.2	2.7	1.0	2.0	2.4
June	2.0	2.1	2.6	3.0	2.4	1.1	2.1	3.9	1.0	2.3	2.3	2.2	0.7	1.4	1.7	2.7	2.6	2.4	3.2	2.0	1.7	2.3	1.4	2.0	4.7	2.3	2.9	1.2	2.1	2.4
July	2.1	2.2	2.7	3.6	2.2	0.9	2.1	3.3	0.8	2.3	2.6	2.2	1.0	1.9	1.4	2.7	2.3	2.5	3.4	2.1	1.9	2.3	1.4	2.2	4.3	2.1	2.6	1.4	2.2	2.5
August	2.0	2.2	2.6	3.7	2.4	0.8	1.9	3.5	0.9	2.2	2.6	2.1	0.9	1.6	1.7	2.8	1.8	2.4	3.4	2.4	1.9	2.3	1.4	1.3	4.7	2.0	2.9	1.4	2.1	2.7
September	2.1	2.1	2.8	3.6	2.1	0.5	2.2	3.5	1.1	2.3	2.5	1.6	1.2	1.5	1.7	3.3	2.4	2.7	3.7	2.5	1.6	2.1	1.5	1.8	4.7	2.2	2.7	1.4	2.5	2.4
October	2.2	2.2	3.2	3.6	2.0	0.7	2.4	4.5	1.8	2.3	2.5	1.7	1.1	1.7	1.9	3.2	2.8	2.8	3.9	2.1	1.9	2.4	1.5	0.8	4.2	2.3	2.5	1.7	2.4	2.4
November	1.9	2.0	2.9	3.0	1.6	0.7	2.2	3.2	1.1	1.7	2.2	1.3	0.8	1.6	1.6	2.9	2.4	2.6	3.2	1.4	1.8	2.3	1.1	0.9	3.2	2.1	2.0	1.4	2.1	2.3
December	1.6	1.7	2.2	2.3	1.6	0.7	1.7	3.3	0.6	1.2	1.9	1.0	0.8	1.2	1.0	2.5	1.8	1.9	2.8	1.2	1.9	1.7	0.9	0.6	3.0	1.4	1.9	1.3	2.2	2.1
2019 January	1.4f	x	x	x	x	x	1.7f	x	0.4 f	1.0 f	1.4 f	x	x	x	2.2 f	2.9 f	1.7 f	1.6 f	x	x	x	x	x	0.6	x	x	2.2 f	1.2 f	x	x

Symbols: f estimated Po provisional Rc revised x not available

Notes: (1) Rates of change calculated based on indexes rounded up to two decimal places.

(2) Member States belonging to the Euro area: EA-13 until December 2007, EA-15 until December 2008, EA-16 until December 2010, EA-17 until December 2013, EA-18 until December 2014, EA-19 from January 2015 (including Lithuania).

(3) European Index of Consumer Prices: EU-15 until April 2004, EU-25 until December 2006, EU-27 until June 2013 and EU-28 onwards.

Source: INE-Portugal and Eurostat.

Code abbreviations of the Member States:

BE	Belgium	EE	Estonia	IT	Italy	HR	Croatia	PL	Poland	FI	Finland
BG	Bulgaria	EL	Greece	CY	Cyprus	HU	Hungary	PT	Portugal	SE	Sweden
CZ	Czechia	ES	Spain	LV	Latvia	MT	Malta	RO	Romania	UK	United Kingdom
DK	Denmark	FR	France	LT	Lithuania	NL	Netherlands	SI	Slovenia		
DE	Germany	IE	Ireland	LU	Luxembourg	AT	Austria	SK	Slovakia		