

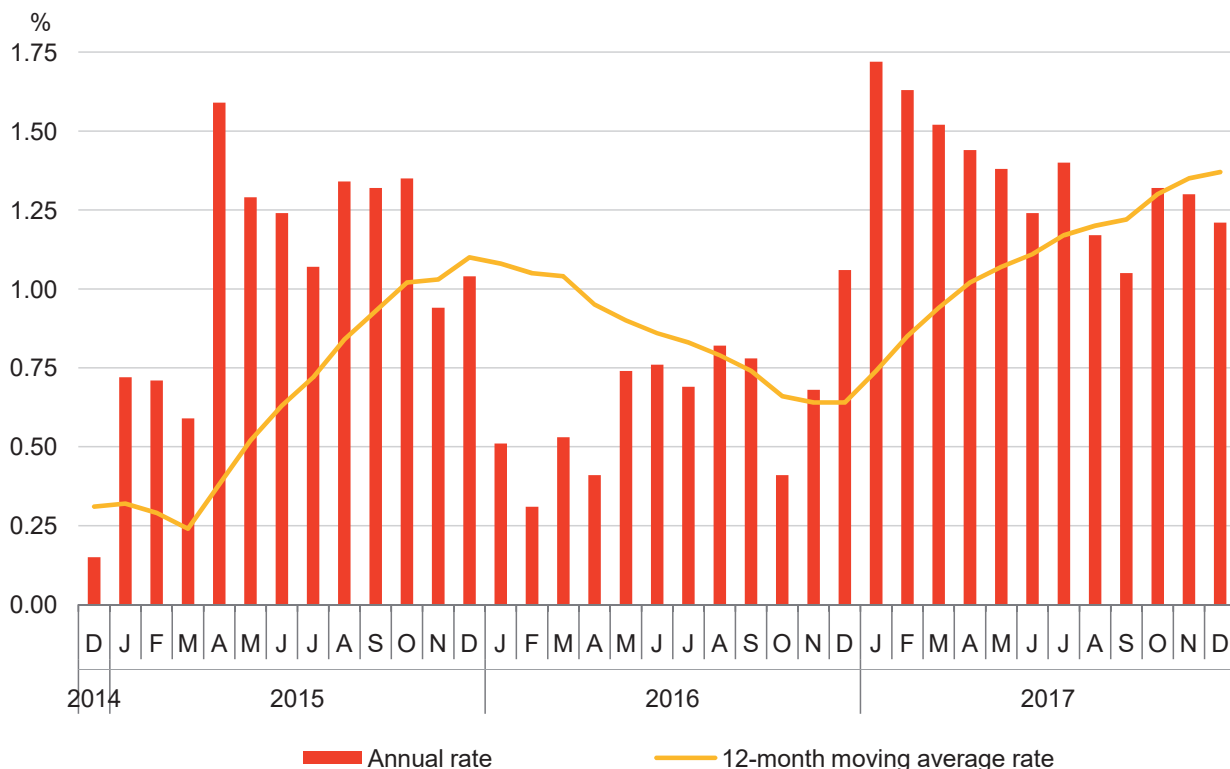
23 January 2018 | 1100 hrs | 010/2018

Retail Price Index: December 2017

1. Main points

- In December 2017, the annual rate of inflation as measured by the Retail Price Index (RPI) was registered at 1.21 per cent, down from 1.30 per cent in November 2017.
- The twelve-month moving average rate for December increased to 1.37 per cent, from 1.35 per cent in the previous month (Table 2).¹
- The largest upward impact on annual inflation was recorded in the Transport and Communication Index (0.35 percentage points), mainly reflecting higher prices of fuels. The largest downward impact was recorded in the Clothing and Footwear Index (-0.15 percentage points), attributed to lower prices of garments (Chart 3).
- The Food Index registered an overall annual inflation rate of 1.33 per cent, of which Food excluding restaurant services and take-aways registered an annual rate of 1.10 per cent, while Restaurant services and take-aways registered an annual rate of 1.94 per cent (refer to Special Aggregates table on page 4).

Chart 1. Inflation rates



¹This rate of inflation, that factors in aspects of seasonality, is widely used in Malta to make cost-of-living adjustments. It is also used to update the index of inflation in continuation of the Schedule to the Housing (Decontrol) Ordinance (CAP.158, Art.13) of the Laws of Malta, on the basis of the All Items Retail Price Index.

2. Overview

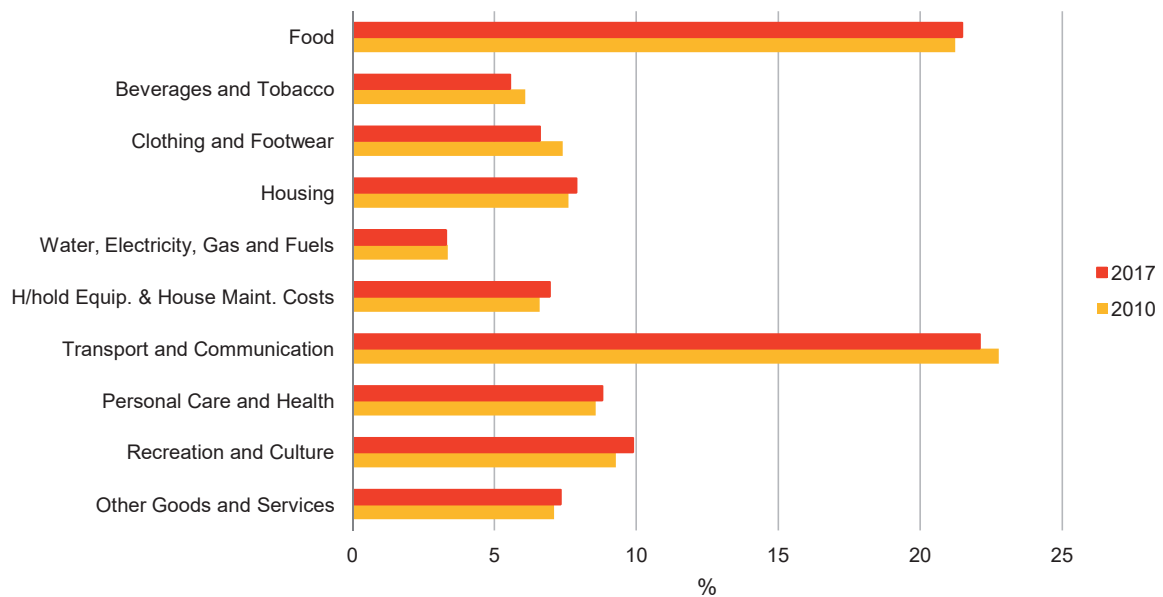
The Retail Price Index (RPI) measures monthly price changes in the cost of purchasing a representative basket of consumer goods and services, and is closely linked with the cost-of-living adjustment (COLA) increases and periodic rent payment adjustments. A closely related measure of price movements is the Harmonised Index of Consumer Prices (HICP). For a description of the differences between the RPI and the HICP, refer to page 5 of the release.

From January 2017 the RPI started being published with December 2016 as its base. The RPI basket is sub-divided into the following main groups:

1. Food
2. Beverages and Tobacco
3. Clothing and Footwear
4. Housing
5. Water, Electricity, Gas and Fuels
6. Household Equipment and House Maintenance Costs
7. Transport and Communication
8. Personal Care and Health
9. Recreation and Culture
10. Other Goods and Services

The figure below displays each main group and its relative weight in the basket of goods and services consumed by the Maltese residents. The chart also compares the 2017 weights with those introduced in 2010. As can be seen from the chart, the weights have remained relatively stable over the last seven years.

Chart 2. RPI weights for the main groups



Each monthly News Release on the RPI includes three different measures of inflation:

- i. The annual inflation rate measures average price changes between the reference month and the same month of the previous year. This measure can be influenced by one-off effects in either month.
- ii. The monthly inflation rate compares price changes between the reference month and previous month. This measure can be highly influenced by seasonal effects.
- iii. The 12-month moving average rate overcomes the volatility of the above two rates by comparing the average of the latest 12 indices to the average of the previous 12 indices. This measure is less sensitive to temporary changes in prices. Thus this rate is used for the computation of the COLA and adjustments in wages, rents, etc.

3. Price changes and effects on inflation

Table 1 shows that the highest annual inflation rates in December 2017 were registered in the following main groups: Household Equipment and House Maintenance Costs (3.73 per cent) and Recreation and Culture (1.70 per cent). On the other hand, the lowest annual inflation rate was registered in: Clothing and Footwear (-2.32 per cent).

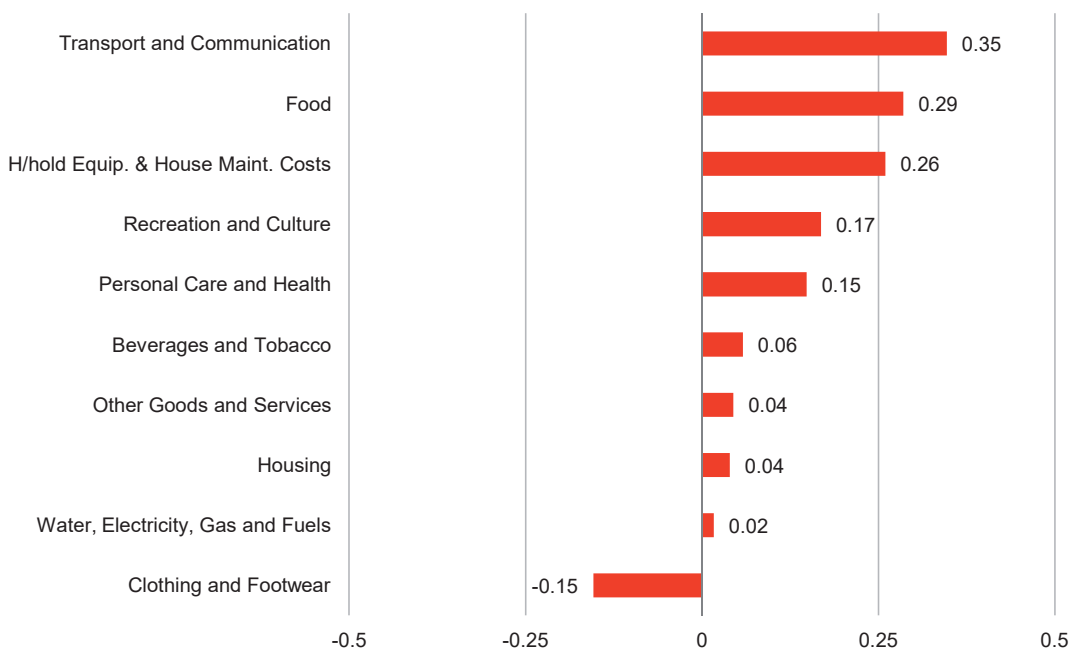
Table 1. RPI group indices
December 2016=100

Group	Weight	Indices			Annual rate (%)	Monthly rate (%)
		Dec 2016	Nov 2017	Dec 2017	Dec 2017	Dec 2017
Food	21.49	100.00	101.14	101.33	1.33	0.18
Beverages and Tobacco	5.56	100.00	101.09	101.04	1.04	-0.04
Clothing and Footwear	6.62	100.00	93.12	97.68	-2.32	4.90
Housing	7.90	100.00	100.52	100.50	0.50	-0.02
Water, Electricity, Gas and Fuels	3.31	100.00	100.50	100.50	0.50	0.00
Household Equipment and House Maintenance Costs	6.97	100.00	102.87	103.73	3.73	0.84
Transport and Communication	22.10	100.00	100.97	101.57	1.57	0.60
Personal Care and Health	8.81	100.00	101.59	101.68	1.68	0.09
Recreation and Culture	9.90	100.00	101.32	101.70	1.70	0.38
Other Goods and Services	7.34	100.00	100.48	100.60	0.60	0.12
All Items	100.00	100.00	100.63	101.21	1.21	0.58

The largest upward impacts on annual inflation were registered in the Transport and Communication Index (0.35 percentage points), the Food Index (0.29 percentage points) and the Household Equipment and House Maintenance Costs Index (0.26 percentage points). These were mainly due to higher prices of fuels, take-aways and furniture respectively (Chart 3).

The Clothing and Footwear Index (0.15 percentage points) registered the largest downward impact on annual inflation, mainly reflecting lower prices for garments (Chart 3).

Chart 3. Contribution to the annual inflation rate by the 10 main groups (in percentage points): December 2017



Note: Percentage point refers to the difference between two percentages.

4. Special aggregates (respective % weight)		Annual rate (%)	Monthly rate (%)
Food (21.49 %)	Food excluding restaurant services and take-aways (15.60 %)	1.10	-0.04
	Restaurant services and take-aways (5.89 %)	1.94	0.77
Clothing and Footwear (6.62 %)	Clothing (5.45 %)	-4.00	5.85
	Footwear (1.17 %)	5.52	1.01
Water, Electricity, Gas and Fuels (3.31 %)	Water and electricity (3.06 %)	0.00	0.00
	Gas and fuels (kerosene) (0.25 %)	6.56	0.00
Transport and Communication (22.10 %)	Transport (16.57 %)	1.71	0.82
	Communication (5.53 %)	1.16	-0.08
Personal Care and Health (8.81 %)	Medical services and medicinals (4.14 %)	1.70	0.20
	Personal care products and services (4.67 %)	1.67	-0.01
Recreation and Culture (9.90 %)	Sports related equipment (0.54 %)	2.98	2.62
	Educational fees and related expenses (2.04 %)	0.37	-0.03
	Other recreational articles and services (7.32 %)	1.98	0.33

Special aggregates are shown in the above table. Each aggregate refers to an important category group extracted from the RPI.

Table 2. Inflation rates by month and year

Month	2015		2016		2017	
	Annual rate (%)	12-month moving average rate (%)	Annual rate (%)	12-month moving average rate (%)	Annual rate (%)	12-month moving average rate (%)
Jan	0.72	0.32	0.51	1.08	1.72	0.74
Feb	0.71	0.29	0.31	1.05	1.63	0.85
Mar	0.59	0.24	0.53	1.04	1.52	0.94
Apr	1.59	0.38	0.41	0.95	1.44	1.02
May	1.29	0.52	0.74	0.90	1.38	1.07
Jun	1.24	0.63	0.76	0.86	1.24	1.11
Jul	1.07	0.72	0.69	0.83	1.40	1.17
Aug	1.34	0.84	0.82	0.79	1.17	1.20
Sep	1.32	0.93	0.78	0.74	1.05	1.22
Oct	1.35	1.02	0.41	0.66	1.32	1.30
Nov	0.94	1.03	0.68	0.64	1.30	1.35
Dec	1.04	1.10	1.06	0.64	1.21	1.37

5. Background notes

5.1 Accessing data

Further information on RPI and HICP NSO publications may be accessed from:

https://nso.gov.mt/en/News_Releases/View_by_Unit/Unit_A5/Price_Statistics/Pages/Retail-Price-Index.aspx and https://nso.gov.mt/en/News_Releases/View_by_Unit/Unit_A5/Price_Statistics/Pages/Harmonised-Index-of-Consumer-Prices.aspx, respectively. Eurostat publications on HICP may be accessed from: <http://ec.europa.eu/eurostat/news/news-releases>

5.2 Differences between RPI and HICP

Both indices are compiled using a large and representative selection of more than 440 different goods and services for which price movements are regularly monitored. Around 10,000 separate price quotations are used each month to compile the Index.

The methodology underlying RPI and HICP is similar, there are differences:

- i. The RPI captures private households only whereas the HICP covers private households, institutional households (such as retirement homes) and foreign visitors to Malta.
- ii. The population base year of each index is different. The RPI is a fixed base index with weights periodically updated in line with the HBS. On the other hand, the HICP is a chain-linked index with the weights reviewed on an annual basis. Unlike the RPI where the sample of goods and services changes every time the weights are updated, newly significant goods and services can be introduced in the HICP framework on an annual basis.
- iii. The coverage of the HICP is based on an international classification system, COICOP (Classification of Individual Consumption by Purpose), whereas the RPI has a different set of codes for each group of items.

Group	COICOP division	Weight (out of 1000)	RPI group	Weight (out of 100)
1	Food and non-alcoholic beverages	165.55	Food	21.49
2	Alcoholic Beverages and Tobacco	37.57	Beverages and Tobacco	5.56
3	Clothing and Footwear	56.78	Clothing and Footwear	6.62
4	Housing, Water, Electricity, Gas and Other Fuels	82.69	Housing	7.90
5	Furniture, Household Equipment and Routine Maintenance of the House	78.46	Water, Electricity, Gas and Fuels	3.31
6	Health	43.63	Household Equipment and House Maintenance Costs	6.97
7	Transport	139.82	Personal Care and Health	22.10
8	Communication	37.58	Transport and Communication	8.81
9	Recreation and Culture	101.50	Recreation and Culture (including Education)	9.90
10	Education	18.33	Other Goods and Services	7.34
11	Restaurants and Hotels	162.65		
12	Miscellaneous Goods and Services	75.44		
	Total	1,000.00	Total	100.00

Apart from the disparities identified above, both the RPI and the HICP:

- have the same geographic coverage, implying that both indices refer to the whole country;
- utilise the same price collection methodologies; and
- utilise the same outlet sample (with some exceptions).

5.3 Further information

Price quotations for the new items introduced in the latest RPI index series started being collected in December 2016.

All RPI indices pertaining to the years prior to 2017 were re-based to December 2016=100. This latest index series may be linked to the previous one by using a linking coefficient of 1.1199.

The basket of consumption items considered for the RPI is reviewed periodically, in line with the Household Budgetary Survey (HBS) during which information of household consumption is collected over a 12-month period in order to obtain an estimate of the average household expenditure. The information collected through the HBS exercise is then further supplemented by additional data sources to get to the final RPI weights.

The HICP is being published with 2015 as its base year. The previous series with reference 2005=100 is discontinued. Commission Regulation (EU) No 2015/2010 provides the legal basis for updating the HICP reference year from 2005=100 to 2015=100. It should be noted that the re-basing operation was conducted after rounding all past indices to one decimal place. Therefore, there might be slight differences when comparing this series with past data due to rounding.

The HICP largely follows National Accounts concepts of what constitutes household consumption in determining the index scope, and mainly uses National Accounts data to weight the items in the basket.

The HICP weighting scheme is annually updated in accordance with Commission Regulation (EU) No 1114/2010. The treatment of seasonal items is in accordance with Commission Regulation (EC) No 330/2009.

Figures in Special Aggregates table may not add up mainly due to additivity, and the change in weights and basket of items in January 2017.

Users are advised to consult the NSO before comparing the results of the RPI and the HICP.

More information on the metadata behind HICP and RPI News Releases may be accessed from:

Source and Methods: https://nso.gov.mt/en/nso/Sources_and_Methods/Unit_A5/Price_Statistics/Pages/Retail-Price-Index.aspx

Statistical Concepts: <http://nso.gov.mt/metadata/concepts.aspx>

Metadata: <http://nso.gov.mt/metadata/reports.aspx?id=9>

Classifications: http://nso.gov.mt/metadata/classificationdetails.aspx?id=COICOP_1999

HICP and RPI Manual:

https://nso.gov.mt/en/nso/Sources_and_Methods/Unit_A5/Price_Statistics/Documents/RPI_and_HICP_Manual.pdf

Statistical database: <https://nso.gov.mt/statdb/start>

Kindly indicate source when quoting from this release.

5.4 Publication policy

A calendar for future news releases may be accessed from:

https://nso.gov.mt/en/News_Releases/Release_Calendar/Pages/News-Release-Calendar.aspx

6. Methodological notes

6.1 Reassessments / revisions

Note that the RPI series is published in accordance to the reference base December 2016 whereas the HICP series is published for base year 2015 according to Eurostat base year revisions

<http://ec.europa.eu/eurostat/documents/272892/272971/HICP+reference+year+2015%3D100/> Such revisions policy was published in November 2004 and is used for the calculation of consumer price inflation statistics

https://nso.gov.mt/en/nso/About_NS0/Documents/Annual_Reports/AnnualReport2004.pdf (page 64).

6.2 Time series

Data from 1946 onwards is accessible from the following link:

https://nso.gov.mt/en/nso/Selected_Indicators/Retail_Price_Index/Pages/Index-of-Inflation.aspx