

Consumer Price Inflation

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This note is produced as background briefing for the Consumer Price Inflation Statistical Bulletin. Users who require authoritative figures should use the Consumer Price Inflation Statistical Bulletin or Consumer Price Inflation Dataset.

SUMMARY

Consumer Prices Index (CPI)

The CPI is a measure of consumer price inflation produced to international standards and in line with European regulations. First published in 1997 as the Harmonised Index of Consumer Prices (HICP), the CPI is the inflation measure used in the Government's target for inflation.

The CPI is also used for purposes such as uprating pensions, wages and benefits and can aid in the understanding of inflation on family budgets. For more information see [Users and uses of consumer price inflation statistics \(2013\)](#).

The main movements for CPI in September 2016 are:

- The all items CPI is 101.1, up from 100.9 in August.
- The all items CPI annual rate is 1.0%, up from 0.6% in August.
- The annual rate for CPI excluding indirect taxes, CPIY, is 0.8%, up from 0.5% last month.
- The annual rate for CPI at constant tax rates, CPI-CT, is 0.9%, up from 0.5% last month.
- The CPI all goods index is 99.2, up from 98.3 in August.
- The CPI all goods index annual rate is -0.5%, up from -1.4% last month.
- The CPI all services index is 103.3, down from 103.8 in August.
- The CPI all services index annual rate is 2.6%, down from 2.8% last month.

CPIH

CPIH has been re-assessed to evaluate the extent to which it meets the professional standards set out in the Code of Practice for Official Statistics and the [assessment report](#) published on 3 March 2016. The report includes a number of requirements that need to be implemented for CPIH to regain its status as a National Statistic. The actions taken to address these requirements were reported to the UK Statistics Authority at the end of September 2016.

CPIH is a measure of UK consumer price inflation that includes owner occupiers' housing costs (OOH). These are the costs of housing services associated with owning, maintaining and living in one's own home. OOH does not include costs such as utility bills, minor repairs and maintenance, which are already included in the index.

CPIH uses an approach called rental equivalence to measure OOH. Rental equivalence uses the rent paid for an equivalent house as a proxy for the costs faced by an owner occupier. In other words, this answers the question "how much would I have to pay in rent to live in a home like mine?" for an owner occupier. OOH does not seek to capture increases in house prices. Although this may be inconsistent with some users' expectations of measures of OOH, the inclusion of an

asset price and therefore capital gains would make the index less suitable as a measure of consumption. OOH currently accounts for 16.5% of the expenditure weight of CPIH. This compares with a weight of 19.5% in 2005.

Currently, the method of calculation, the population coverage, the basket of goods and services and the method of deriving the weights are the same as for the Consumer Prices Index (CPI), with the exception of OOH. A full description of how CPIH is compiled is given in the [Consumer Price Indices Technical Manual](#) and in various papers published on the [prices guidance and methodology webpage](#).

The main movements for CPIH in September 2016 are:

- The all items CPIH is 101.4, up from 101.2 in August.
- The all items CPIH annual rate is 1.2%, up from 0.9% in August.
- The annual rate for CPIH excluding indirect taxes, CPIHY, is 1.2%, up from 0.9% last month.
- The OOH component of CPIH is 102.8, up from 102.7 in August.
- The OOH component annual rate is 2.4%, unchanged from last month.
- The CPIH all goods index is 99.3, up from 98.3 in August.
- The CPIH all goods index annual rate is -0.5%, up from -1.4% last month.
- The CPIH all services index is 103.1, down from 103.5 in August.
- The CPIH all services index annual rate is 2.6%, down from 2.7% last month.

Retail Prices Index (RPI) and RPIJ

In accordance with the Statistics and Registration Service Act 2007, the Retail Prices Index and its derivatives have been assessed against the Code of Practice for Official Statistics and found not to meet the required standard for designation as National Statistics. The [full assessment report](#) can be found on the UK Statistics Authority website.

The RPI is a long-standing measure of UK inflation that has historically been used for a wide range of purposes such as the indexation of pensions, rents and index-linked gilts. For further information see [Users and uses of consumer price inflation statistics \(2013\)](#).

RPIJ is an improved variant of the Retail Prices Index which is calculated using formulae that meet international standards. The rationale for creating RPIJ was to give users a better alternative to the RPI if their needs were for a measure of inflation based on the same population, classifications, weights, etc. as the RPI. Currently, RPIJ also acts as an analytical series in that it allows users to see the impact of using the Jevons (which meets international standards) in place of the Carli formula (which does not meet international standards) in the RPI. The use of the different formulae

at the elementary aggregate level is currently the only difference between these indices. Detailed goods and services indices are not produced for RPIJ.

The main movements for RPI and RPIJ in September 2016 are:

- The all items RPI is 264.9, up from 264.4 in August.
- The all items RPI annual rate is 2.0%, up from 1.8% last month.
- The all items RPIJ is 242.3, up from 241.8 in August.
- The all items RPIJ annual rate is 1.3%, up from 1.0% last month.
- The annual rate for RPIX, the all items RPI excluding mortgage interest payments (MIPs) index, is 2.2%, up from 1.9% last month.
- The all goods RPI is 199.5, up from 198.0 in August.
- The all goods RPI annual rate is 0.6%, up from -0.2% last month.
- The all services RPI is 362.7, down from 364.9 in August.
- The all services RPI annual rate is 2.6%, down from 2.9% last month.
- The annual rate for RPIY, the all items RPI excluding MIPs and indirect taxes index, is 2.1%, up from 1.9% last month.
- The Tax and Price Index (TPI) for September is 232.1, up from 231.7 in August.
- The TPI annual rate is 2.4%, up from 2.2% last month.

CPI SUMMARY

CONTRIBUTIONS TO CHANGE IN THE CPI ANNUAL RATE

CPI COICOP DIVISIONS	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
01: Food and non-alcoholic beverages	110	103	-	-0.1	-0.01
02: Alcoholic beverages and tobacco	43	42	-	0.3	0.01
03: Clothing and footwear	70	71	2.8	5.2	0.17
04: Housing, water, electricity, gas and other fuels	128	120	-0.2	0.1	0.04
05: Furniture, household equipment and maintenance	59	59	0.7	0.4	-0.02
06: Health	25	28	-	0.3	0.01
07: Transport	149	153	-2.5	-2.3	0.01
08: Communication	31	32	0.4	-0.1	-0.02
09: Recreation and culture	147	148	-	0.1	0.01
10: Education	26	25	1.2	2.2	0.03
11: Restaurants and hotels	121	123	0.2	0.7	0.07
12: Miscellaneous goods and services	91	96	-	0.5	0.04

Large upward effects came from:

- Clothing and footwear**, where the upward effect came primarily from garments (in particular women's outerwear), for which prices rose by 6.0% between August and September 2016, compared with a rise of 3.3% a year ago. Whilst this rise is relatively large historically, there are factors to take into account when considering whether this is a result of Sterling depreciation following the EU referendum result. First, a rise in clothing prices in September is in line with normal trends, and the comparatively large increase this year follows a sustained fall in prices between March and July, with a relatively small increase into August. Second, whilst the depreciation in Sterling is likely to increase the

cost of importing goods and outsourcing production, there are reports of businesses having measures in place to protect against exchange rate changes in the short-term;

- **Restaurants and hotels**, where prices overall rose by 0.7% between August and September 2016, compared with a smaller rise of 0.2% a year ago. The upward contribution to the change in the 12-month rate was due to a rise in the price of an overnight hotel stay, compared with a fall a year ago. It is important to note that this follows an unusually large fall in August 2016;
- **Miscellaneous goods and services**, where prices overall rose by 0.5% between August and September 2016, having been unchanged between the same 2 months a year ago. The upward effect arose from smaller upward contributions across a range of items, most notably certain appliances and products for personal care; and
- **Housing, water, electricity, gas and other fuels**, where overall, prices rose by 0.1% between August and September 2016, having fallen by 0.2% a year ago. The upward effect on the change in the 12-month rate came from prices for gas, which were unchanged between August and September 2016, having fallen by 2.1% between the same 2 months last year.

A small upward effect came from:

- **Transport**, overall, made a small upward contribution to the change in the rate, although this masks larger effects within the group. Rising prices for motor fuels had a large upward effect, with petrol prices increasing by 1.2 pence between August and September 2016. In 2015, fuel prices fell throughout the second half of the year. This upward effect was largely offset by prices for air fares, which fell by 24.2% between August and September 2016, compared with a smaller fall of 20.4% a year ago.

A small downward effect came from:

- **Food and non-alcoholic beverages**, overall this group made a small downward contribution to the change in the rate. A more pronounced effect was seen for food, with prices falling by 0.3% between August and September 2016, compared with a rise of 0.1% a year ago. This was due to a combination of smaller downward effects across a range of food items. The downward contribution from food was mostly offset by rising prices for non-alcoholic beverages, having fallen between the same two months a year ago.

CPI NOTABLE MOVEMENTS

All items CPI	Annual rate +1.0%, up from +0.6% last month Also +1.0% in November 2014 Last higher in October 2014 (+1.3%)
All items CPI exc energy, food, alcohol and tobacco	Annual rate +1.5%, up from +1.3% last month Also +1.5% in March 2016, October 2014 and September 2014 Last higher in August 2014 (+1.9%)
Furniture, household equipment and maintenance	Annual rate -1.4%, down from -1.0% last month Lowest since December 2000 (-2.3%)
Transport	Annual rate +1.2%, up from +1.0% last month Also +1.2% in August 2014 Last higher in July 2014 (+1.3%)
Recreation and culture	Annual rate +0.8%, up from +0.7% last month Also +0.8% in June 2016 Last higher in October 2014 (+1.0%)
Education	Annual rate +5.9%, up from +4.8% last month Highest since September 2015 (+9.1%)
Restaurants and hotels	Annual rate +2.9%, up from +2.3% last month Highest since March 2013 (+3.1%)
All goods	Annual rate -0.5%, up from -1.4% last month Highest since November 2014 (-0.2%)
All services	Annual rate +2.6%, down from +2.8% last month Also +2.6% in May 2016 Last lower in April 2016 (+2.4%)
Fuels and lubricants	Annual rate +1.4%, up from -2.6% last month Highest since July 2013 (+2.4%)
Electricity, gas and other fuels	Annual rate -2.0%, up from -3.1% last month Also -2.0% in January 2015 Last higher in November 2014 (+4.5%)

CPI DETAILED BRIEFING

- Weights are specified as parts per 1000 in the CPI.

01 FOOD AND NON-ALCOHOLIC BEVERAGES	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
01 Food & non-alcoholic beverages	110	103	-	-0.1	-0.01

- Small downward effect on the all items 12-month rate change.
- Due to **food**.
- Partially offset by **non-alcoholic beverages**.

01.1 Food	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
01.1 Food	97	91	0.1	-0.3	-0.04
01.1.1 Bread and cereals	16	15	0.1	-0.6	-0.01
01.1.2 Meat	22	21	0.4	-0.1	-0.01
01.1.3 Fish	4	4	-0.3	-1.3	-
01.1.4 Milk, cheese and eggs	14	12	-0.7	-0.9	-
01.1.5 Oils and fats	2	2	7.0	-2.2	-0.02
01.1.6 Fruit	10	9	0.3	2.4	0.02
01.1.7 Vegetables including potatoes	14	13	0.6	1.2	0.01
01.1.8 Sugar, jam, syrups, chocolate and confectionery	12	12	-0.4	-2.9	-0.03
01.1.9 Food products not elsewhere covered	3	3	-1.5	0.2	0.01

- Large downward effect on the all items 12-month rate change.
- Due to **sugar, jam, syrups, chocolate and confectionery; oils and fats; meat; and bread and cereals**.
- Partially offset by **fruit; vegetables including potatoes; and food products not elsewhere covered**.

Bread and cereals

- Small downward effect.
- Prices overall fell this year but rose a year ago, with the main downward contributions coming from cereal bars and packs of individual cakes.

Meat

- Small downward effect.
- Prices overall fell this year but rose a year ago.

Oils and fats

- Small downward effect.
- Prices overall fell this year but rose a year ago, particularly for margarine/low fat spread.

Fruit

- Small upward effect.
- Prices overall rose this year by more than a year ago, particularly for blueberries.

Vegetables including potatoes

- Small upward effect.
- Prices overall rose this year by more than a year ago.

Sugar, jam, syrups, chocolate and confectionery

- Small downward effect.
- Prices overall fell this year by more than a year ago, with the main downward contributions coming from cartons/boxes of chocolates and bags of chocolate sweets.
- Partially offset by a small upward contribution coming from chocolate covered ice cream bars, where prices overall rose this year but fell a year ago.

Food products not elsewhere covered

- Small upward effect.
- Prices overall rose this year but fell a year ago.

01.2 Non-alcoholic beverages	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
01.2 Non-alcoholic beverages	13	12	-0.9	1.8	0.03
01.2.1 Coffee, tea and cocoa	3	3	0.8	-1.0	-0.01
01.2.2 Mineral waters, soft drinks and juices	10	9	-1.4	2.8	0.04

- Small upward effect on the all items 12-month rate change.
- Due to **mineral waters, soft drinks and juices**, where prices overall rose this year but fell a year ago, with the main upward contributions coming from fruit squash, multipacks of fruit drink bottles, fizzy bottled drinks and orange juice.
- Partially offset by **coffee, tea and cocoa**, where prices overall fell this year but rose a year

ago.

02 ALCOHOLIC BEVERAGES AND TOBACCO	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
02 Alcoholic beverages and tobacco	43	42	-	0.3	0.01

- Small upward effect on the all items 12-month rate change.
- Due to **alcoholic beverages**.

02.1 Alcoholic Beverages	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
02.1 Alcoholic beverages	19	19	-0.2	0.4	0.01
02.1.1 Spirits	5	5	2.1	-0.7	-0.01
02.1.2 Wine	9	9	-2.3	0.9	0.03
02.1.3 Beer	5	5	1.1	0.7	-

- Small upward effect on the all items 12-month rate change.
- Due to **wine**.
- Partially offset by **spirits**.

Wine

- Small upward effect.
- Prices overall rose this year but fell a year ago, with the main upward contribution coming from New World red wine.

Spirits

- Small downward effect.
- Prices overall fell this year but rose a year ago, particularly for whisky.

02.2 Tobacco	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
02.2 Tobacco	24	23	0.2	0.3	-

- Negligible overall effect on the all items 12-month rate change.

03 CLOTHING AND FOOTWEAR	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
03 Clothing and footwear	70	71	2.8	5.2	0.17

- Largest upward effect on the all items 12-month rate change.
- Due to **clothing** and, to a lesser extent, **footwear including repairs**.

03.1 Clothing	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
03.1 Clothing	60	61	3.1	5.5	0.14
03.1.2 Garments	54	54	3.3	6.0	0.14
03.1.3 Other clothing and clothing accessories	5	6	1.3	2.0	0.01
03.1.4 Cleaning, repair and hire of clothing	1	1	-0.1	0.2	-

- Large upward effect on the all items 12-month rate change.
- Due to **garments**; and, to a lesser extent, **other clothing and clothing accessories**.

Garments

- Large upward effect.
- Prices overall rose this year by more than a year ago, with the main upward contributions coming from women's cardigans, casual and formal trousers, formal tops, t-shirts, skirts, strappy tops, blouses/shirts, formal and casual jackets, dresses and nightdresses/pyjamas; men's casual tops; and children's trousers and pyjamas.
- Partially offset by a small downward contribution coming from women's coats, where prices roses this year by less than a year ago.

Other clothing and clothing accessories

- Small upward effect.
- Prices overall rose this year by more than a year ago.

03.2 Footwear including repairs	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
03.2 Footwear including repairs	10	10	1.0	3.1	0.02

- Small upward effect on the all items 12-month rate change.
- Prices overall rose this year by more than a year ago, with the main upward contribution coming from women's sandals.

04 HOUSING, WATER, ELECTRICITY, GAS AND OTHER FUELS	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
04 Housing, water, electricity, gas and other fuels	128	120	-0.2	0.1	0.04

- Large upward effect on the all items 12-month rate change.
- Due to **electricity, gas and other fuels**.
- Partially offset by **actual rentals for housing**.

04.1 Actual rentals for housing	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
04.1 Actual rentals for housing	72	72	0.2	0.1	-0.01

- Small downward effect on the all items 12-month rate change.
- Charges overall rose this year by less than a year ago.

04.3 Regular maintenance and repair of the dwelling	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
04.3 Regular maintenance and repair of the dwelling	2	2	-0.5	-0.3	-
04.3.1 Materials for maintenance and repair	1	1	-1.0	-0.7	-
04.3.2 Services for maintenance and repair	1	1	0.1	0.1	-

- Negligible overall effect on the all items 12-month rate change.

04.4 Other services related to the dwelling	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
04.4 Other services related to the dwelling	12	11	-	-	-
04.4.1 Water supply	6	6	-	-	-
04.4.3 Sewerage collection	6	5	-	-	-

- Negligible overall effect on the all items 12-month rate change.

04.5 Electricity, gas and other fuels	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
04.5 Electricity, gas and other fuels	42	35	-1.0	0.2	0.04
04.5.1 Electricity	20	17	-	-	-
04.5.2 Gas	20	16	-2.1	-	0.04
04.5.3 Liquid fuels	1	1	1.6	4.5	-
04.5.4 Solid fuels	1	1	0.3	0.7	-

- Large upward effect on the all items 12-month rate change.
- Due to **gas**, where average prices were unchanged this year but fell a year ago.

05 FURNITURE, HOUSEHOLD EQUIPMENT AND MAINTENANCE	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
05 Furniture, household equipment and maintenance	59	59	0.7	0.4	-0.02

- Largest downward effect on the all items 12-month rate change.
- Due to **furniture, furnishings and carpets; household textiles; and glassware, tableware and household utensils**.
- Partially offset by **household appliances, fitting and repairs**.

05.1 Furniture, furnishings and carpets	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
05.1 Furniture, furnishings and carpets	21	20	1.1	0.9	-0.01
05.1.1 Furniture and furnishings	15	16	1.3	0.9	-0.01
05.1.2 Carpets and other floor coverings	6	4	0.7	1.0	-

- Small downward effect on the all items 12-month rate change.

- Due to **furniture and furnishings**, where prices overall rose this year by less than a year ago, with the main downward contribution coming from leather settees.

05.2 Household textiles	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
05.2 Household textiles	6	7	0.6	-0.5	-0.01

- Small downward effect on the all items 12-month rate change.
- Prices overall fell this year but rose a year ago.

05.3 Household appliances, fitting and repairs	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
05.3 Household appliances, fitting and repairs	8	8	0.9	1.6	0.01
05.3.1/2 Major appliances and small electric goods	7	7	1.0	1.8	0.01
05.3.3 Repair of household appliances	1	1	0.1	-	-

- Small upward effect on the all items 12-month rate change.
- Due to **major appliances and small electric goods**, where prices overall rose this year by more than a year ago, with the main upward contribution coming from washing machines.

05.4 Glassware, tableware and household utensils	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
05.4 Glassware, tableware and household utensils	6	6	0.4	-1.4	-0.01

- Small downward effect on the all items 12-month rate change.
- Prices overall fell this year but rose a year ago, with the main downward contributions coming from plastic food storage containers and household scissors.

05.5 Tools and equipment for house and garden	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
05.5 Tools and equipment for house and garden	5	5	0.4	-0.2	-

- Negligible overall effect on the all items 12-month rate change.

05.6 Goods and services for routine maintenance	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
05.6 Goods and services for routine maintenance	13	13	0.3	0.5	-
05.6.1 Non-durable household goods	5	5	0.3	0.9	-
05.6.2 Domestic services and household services	8	8	0.3	0.2	-

- Negligible overall effect on the all items 12-month rate change.

06 HEALTH	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
06 Health	25	28	-	0.3	0.01

- Small upward effect on the all items 12-month rate change.
- Due to **medical products, appliances and equipment**.

06.1 Medical products, appliances and equipment	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
06.1 Medical products, appliances and equipment	12	13	-	0.4	0.01
06.1.1 Pharmaceutical products	7	8	0.1	0.4	-
06.1.2/3 Other medical and therapeutic equipment	5	5	-0.1	0.5	-

- Small upward effect on the all items 12-month rate change.
- Prices overall rose this year but were little changed a year ago.

06.2 Out-patient services	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
06.2 Out-patient services	5	7	0.1	0.1	-
06.2.1/3 Medical and paramedical services	3	4	0.2	0.1	-
06.2.2 Dental services	2	3	-	0.2	-

- Negligible overall effect on the all items 12-month rate change.

06.3 Hospital services	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
06.3 Hospital Services	8	8	-	0.1	-

- Negligible overall effect on the all items 12-month rate change.

07 TRANSPORT	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
07 Transport	149	153	-2.5	-2.3	0.01

- Small upward effect on the all items 12-month rate change.
- Due to **operation of personal transport equipment** and, to a lesser extent, **purchase of vehicles**.
- Partially offset by **transport services**.

07.1 Purchase of vehicles	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
07.1 Purchase of vehicles	40	43	-0.4	0.1	0.02
07.1.1A New cars	24	25	-0.3	-0.1	0.01
07.1.1B Second-hand cars	14	16	-0.8	-0.2	0.01
07.1.2/3 Motorcycles and bicycles	2	2	1.3	5.2	0.01

- Small upward effect on the all items 12-month rate change.
- Due to **new cars**; **second-hand cars**; and **motorcycles and bicycles**.

New cars

- Small upward effect.
- Prices overall fell this year by less than a year ago.

Second-hand cars

- Small upward effect.
- Prices overall fell this year by less than a year ago.

Motorcycles and bicycles

- Small upward effect.
- Prices overall rose this year by more than a year ago, particularly for children's bicycles.

07.2 Operation of personal transport equipment	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
07.2 Operation of personal transport equipment	77	73	-1.2	0.6	0.14
07.2.1 Spare parts and accessories	6	5	0.1	0.3	-
07.2.2 Fuels and lubricants	34	32	-2.9	1.2	0.14
07.2.3 Maintenance and repairs	23	22	-0.1	0.3	0.01
07.2.4 Other services	14	14	0.7	-0.1	-0.01

- Large upward effect on the all items 12-month rate change.
- Due to **fuels and lubricants**; and to a lesser extent, **maintenance and repairs**.
- Partially offset by **other services**.

Fuels and lubricants

- Large upward effect.
- The average price of petrol across the month, as recorded for the CPI, rose by 1.2 pence per litre between August and September 2016 to stand at 111.2 pence per litre. Last year, the average price of petrol fell by 3.7 pence per litre between August and September 2015 to stand at 110.4 pence per litre. The average price of diesel rose by 1.5 pence per litre between August and September 2016 to stand at 113.3 pence per litre, compared with a fall of 2.3 pence per litre a year earlier to stand at 110.2 pence per litre.

Maintenance and repairs

- Small upward effect.
- Prices overall rose this year but fell a year ago.

Other services

- Small downward effect.
- Prices overall fell this year but rose a year ago, particularly for self drive car hire.

07.3 Transport services	Weight	Weight	1 month	1 month	Contribution
	2015	2016	% change Sep 2015	% change Sep 2016	to CPI annual rate change
07.3 Transport services	32	37	-7.4	-9.5	-0.15
07.3.1 Passenger transport by railway	12	13	-0.7	0.1	0.01
07.3.2 Passenger transport by road	12	12	-0.4	-0.8	-0.01
07.3.3 Passenger transport by air	6	8	-20.4	-24.2	-0.12
07.3.4 Passenger transport by sea and inland waterway	2	4	-19.0	-16.0	-0.03

- Large downward effect on the all items 12-month rate change.
- Due to **passenger transport by air**; and, to a lesser extent, **passenger transport by sea and inland waterway**; and **passenger transport by road**.
- Partially offset by **passenger transport by railway**.

Passenger transport by railway

- Small upward effect.
- Average rail fares rose this year but fell a year ago, particularly for international journeys.

Passenger transport by road

- Small downward effect.
- Average charges fell this year by more than a year ago, particularly for coach fares.

Passenger transport by air

- Large downward effect.
- Average air fares fell this year by more than a year ago, particularly for European flights.
- Partially offset by upward contributions coming from long-haul and domestic flights, where average fares fell this year by less than a year ago.

Passenger transport by sea and inland waterway

- Small downward effect.
- The downward contribution is due to weight changes in 2016. Average fares fell this year by less than a year ago. However, as the weight for passenger transport by sea and inland

waterway has increased between 2015 and 2016, this has resulted in a small downward effect on the all items 12-month rate change.

08 COMMUNICATION	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
08 Communication	31	32	0.4	-0.1	-0.02

- Small downward effect on the all items 12-month rate change.
- Due to **telephone equipment and services**.

08.1 Postal services	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
08.1 Postal services	2	2	-	-	-

- Negligible overall effect on the all items 12-month rate change.

08.2/3 Telephone equipment and services	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
08.2/3 Telephone equipment and services	29	30	0.4	-0.1	-0.02

- Small downward effect on the all items 12-month rate change.
- Prices overall fell this year but rose a year ago, with the main downward contributions coming from bundled telecommunication services and mobile phone applications.

09 RECREATION AND CULTURE	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
09 Recreation and culture	147	148	-	0.1	0.01

- Small upward effect on the all items 12-month rate change.
- Due to **audio-visual equipment and related products**; and **other recreational items, gardens and pets**.
- Partially offset by **package holidays; recreational and cultural services**; and **books, newspapers and stationery**.

09.1 Audio-visual equipment and related products	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
09.1 Audio-visual equipment and related products	23	18	-1.3	0.3	0.03
09.1.1 Equipment for the reception and reproduction of sound and pictures	5	5	-0.1	0.8	-
09.1.2 Photographic, cinematographic and optical equipment	3	2	1.3	1.8	-
09.1.3 Data processing equipment	9	7	-2.2	-0.5	0.01
09.1.4 Recording media	5	3	-2.7	0.3	0.02
09.1.5 Repair of audio-visual equipment and related products	1	1	-	0.4	-

- Small upward effect on the all items 12-month rate change.
- Due to **recording media**; and **data processing equipment**.

Data processing equipment

- Small upward effect.
- Prices overall fell this year by less than a year ago, with the main upward contribution coming from laptop computers.

Recording media

- Small upward effect.
- Prices overall rose this year but fell a year ago, with the main upward contribution coming from DVDs purchased via the internet.

09.2 Other major durables for recreation and culture	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
09.2.1/2 Major durables for in/outdoor recreation	10	12	-	0.1	-

- Negligible overall effect on the all items 12-month rate change.

09.3 Other recreational items, gardens and pets	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
09.3 Other recreational items, gardens and pets	36	35	-0.1	0.7	0.03
09.3.1 Games, toys and hobbies	21	20	-0.6	0.6	0.03
09.3.2 Equipment for sport and open-air recreation	4	3	2.2	1.2	-0.01
09.3.3 Gardens, plants and flowers	4	4	-0.1	0.4	-
09.3.4/5 Pets, related products and services	7	8	0.3	0.9	0.01

- Small upward effect on the all items 12-month rate change.
- Due to **games, toys and hobbies**; and **pets, related products and services**.
- Partially offset by **equipment for sport and open-air recreation**.

Games, toys and hobbies

- Small upward effect.
- Prices overall rose this year but fell a year ago, with the main upward contributions coming from computer games purchased via the internet, computer game downloads, computer games consoles and board games.
- Partially offset by a small downward contribution coming from preschool activity toys, where prices fell this year by more than a year ago.

Equipment for sport and open-air recreation

- Small downward effect.
- Prices overall rose this year by less than a year ago.

Pets, related products and services

- Small upward effect.
- Prices overall rose this year by more than a year ago.

09.4 Recreational and cultural services	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
09.4 Recreational and cultural services	31	33	0.7	0.3	-0.01
09.4.1 Recreational and sporting services	8	10	2.7	3.7	0.02
09.4.2 Cultural services	23	23	-	-1.2	-0.03

- Small downward effect on the all items 12-month rate change.
- Due to **cultural services**.
- Partially offset by **recreational and sporting services**.

Recreational and sporting services

- Small upward effect.
- Prices overall rose this year by more than a year ago, particularly for part-time leisure classes.

Cultural services

- Small downward effect.
- Prices overall fell this year but were little changed a year ago, with the main downward contribution coming from theatre admissions.

09.5 Books, newspapers and stationery	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
09.5 Books, newspapers and stationery	14	14	-0.1	-0.6	-0.01
09.5.1 Books	4	4	1.6	-2.0	-0.02
09.5.2 Newspapers and periodicals	5	5	-0.4	0.1	-
09.5.3/4 Misc. printed matter, stationery, drawing materials	5	5	-1.1	-0.1	0.01

- Small downward effect on the all items 12-month rate change.
- Due to **books**.
- Partially offset by **miscellaneous printed matter, stationery and drawing materials**.

Books

- Small downward effect.
- Prices overall fell this year but rose a year ago, particularly for non-fiction hard cover books.

Misc. printed matter, stationery, drawing materials

- Small upward effect.
- Prices overall fell this year by less than a year ago.

09.6 Package holidays	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
09.6 Package holidays	33	36	0.4	-0.5	-0.03

- Small downward effect on the all items 12-month rate change.
- Prices overall fell this year but rose a year ago, particularly for self catering and late booked foreign holidays.

10 EDUCATION	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
10 Education	26	25	1.2	2.2	0.03

- Small upward effect on the all items 12-month rate change.
- Charges overall rose this year by more than a year ago, particularly for part-time education classes and private school fees.

11 RESTAURANTS AND HOTELS	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
11 Restaurants and hotels	121	123	0.2	0.7	0.07

- Large upward effect on the all items 12-month rate change.
- Due to **accommodation services**, and to a lesser extent, **catering services**.

11.1 Catering services	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
11.1 Catering services	100	101	0.1	0.2	0.01
11.1.1 Restaurants and cafes	91	93	0.1	0.2	0.01
11.1.2 Canteens	9	8	-0.1	0.2	-

- Small upward effect on the all items 12-month rate change.
- Due to **restaurants and cafes**, where prices overall rose this year by more than a year ago.

11.2 Accommodation services	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
11.2 Accommodation services	21	22	0.7	3.3	0.06

- Large upward effect on the all items 12-month rate change.
- Prices overall rose this year by more than a year ago, with the main upward contribution coming from overnight hotel accommodation.

12 MISCELLANEOUS GOODS AND SERVICES	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
12 Misc. goods and services	91	96	-	0.5	0.04

- Large upward effect on the all items 12-month rate change.
- Due to **personal care** and **personal effects not elsewhere covered**.

12.1 Personal care	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
12.1 Personal care	30	31	-0.3	0.2	0.02
12.1.1 Hairdressing and personal grooming establishments	7	8	0.1	-0.1	-
12.1.2/3 Appliances and products for personal care	23	23	-0.5	0.3	0.02

- Small upward effect on the all items 12-month rate change.
- Due to **appliances and products for personal care**, where prices overall rose this year but fell a year ago, with the main upward contributions coming from electric razors, liquid soap

and deodorant. Partially offset by a small downward contribution coming from toothpaste, where prices overall fell this year but rose a year ago.

12.3 Personal effects not elsewhere covered	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
12.3 Personal effects not elsewhere covered	14	16	0.5	1.7	0.02
12.3.1 Jewellery, clocks and watches	9	9	0.1	-0.1	-
12.3.2 Other personal effects	5	7	1.3	4.1	0.02

- Small upward effect on the all items 12-month rate change.
- Due to **other personal effects**, where prices overall rose this year by more than a year ago, with the main upward contribution coming from trolley cases.

12.4 Social protection	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
12.4 Social protection	13	16	0.3	0.3	-

- Negligible overall effect on the all items 12-month rate change.

12.5 Insurance	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
12.5 Insurance	10	9	0.3	0.4	-
12.5.2 House contents insurance	2	2	-0.3	-0.1	-
12.5.3 Health insurance	3	3	-	-	-
12.5.4 Transport insurance	5	4	0.7	0.9	-

- Negligible overall effect on the all items 12-month rate change.

12.6 Financial services not elsewhere covered	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
12.6 Financial services not elsewhere covered	12	12	-	0.1	-

- Negligible overall effect on the all items 12-month rate change.

12.7 Other services not elsewhere covered	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to CPI annual rate change
12.7 Other services not elsewhere covered	12	12	-0.1	0.2	-

- Negligible overall effect on the all items 12-month rate change.

RPI SUMMARY

CONTRIBUTIONS TO CHANGE IN THE RPI ANNUAL RATE

GROUPS	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to RPI annual rate change
FOOD	109	102	-	-0.2	-0.02
CATERING	47	47	0.1	0.2	-
ALCOHOLIC DRINKS	56	57	-0.1	0.3	0.02
TOBACCO	27	25	0.2	0.3	-
HOUSING	263	266	0.3	0.5	0.05
FUEL AND LIGHT	45	41	-0.9	0.2	0.05
HOUSEHOLD GOODS	59	62	0.6	0.8	0.01
HOUSEHOLD SERVICES	65	67	0.5	0.6	-
CLOTHING AND FOOTWEAR	42	41	3.2	4.8	0.07
PERSONAL GOODS AND SERVICES	41	42	0.1	0.4	0.01
MOTORING EXPENDITURE	115	117	-1.3	0.8	0.24
FARES AND OTHER TRAVEL COSTS	25	26	-8.5	-11.5	-0.12
LEISURE GOODS	28	29	-0.3	0.2	0.01
LEISURE SERVICES	78	78	0.8	0.3	-0.04

RPI NOTABLE MOVEMENTS

All items RPI	Annual rate +2.0%, up from +1.8% last month Also +2.0% in November 2014 Last higher in October 2014 (+2.3%)
All items RPI exc MIPS (RPIX)	Annual rate +2.2%, up from +1.9% last month Highest since October 2014 (+2.4%)
All items RPI exc MIPS and indirect taxes (RPIY)	Annual rate +2.1%, up from +1.9% last month Highest since November 2014 (+2.2%)
Catering	Annual rate +2.3%, up from +2.2% last month Also +2.3% in November 2014 and October 2014 Last higher in August 2014 (+2.4%)
Fuel and light	Annual rate -1.8%, up from -2.9% last month Highest since November 2014 (+4.0%)
Personal goods and services	Annual rate +1.4%, up from +1.1% last month Highest since September 2014 (+1.5%)
Motoring expenditure	Annual rate +3.4%, up from 1.2% last month Highest since January 2012 (+3.9%)
Leisure services	Annual rate +2.0%, down from +2.5% last month Also +2.0% in June 2014 Last lower in May 2014 (+1.7%)
All goods	Annual rate +0.6%, up from -0.2% last month Highest since October 2014 (+1.1%)
All services	Annual rate +2.6%, down from +2.9% last month Lowest since May 2016 (+2.4%)
Furniture	Annual rate -0.2%, down from -0.1% last month Lowest since June 2009 (-2.8%)
Petrol and oil	Annual rate +1.5%, up from -4.5% last month Highest since August 2013 (+2.0%)

RPI DETAILED BRIEFING

In accordance with the Statistics and Registration Service Act 2007, the Retail Prices Index and its derivatives have been assessed against the Code of Practice for Official Statistics and found not to meet the required standard for designation as National Statistics. A consultation was carried out in March 2013 on whether to maintain this detailed RPI briefing and, based on views received, it was decided to continue with its publication.

- Weights are specified as parts per 1000 in the RPI.

FOOD	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to RPI annual rate change
FOOD	109	102	-	-0.2	-0.02

- Small downward effect on the all items 12-month rate change.
- Due to **non-seasonal food**.
- Partially offset by **seasonal food**.

Seasonal Food	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to RPI annual rate change
SEASONAL FOOD	18	18	0.4	1.0	0.01
Home killed lamb	1	1	2.1	2.5	-
Fresh fish	2	2	2.0	0.1	-
Eggs	1	1	-0.2	0.7	-
Unprocessed potatoes	2	1	-0.4	1.0	-
Other fresh vegetables	6	6	-	-0.5	-
Fresh fruit	6	7	0.1	2.3	0.01

- Small upward effect on the all items 12-month rate change.
- Due to **fresh fruit**, where prices overall rose this year by more than a year ago, with the main upward contribution coming from blueberries.

Non-Seasonal Food	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to RPI annual rate change
NON-SEASONAL FOOD	91	84	-	-0.5	-0.04
Bread	4	4	0.4	-	-
Cereals	4	4	-0.2	-1.2	-
Biscuits and cakes	7	6	-0.2	-0.7	-
Beef	4	4	2.0	-0.9	-0.01
Imported lamb	1	1	0.4	3.5	-
Pork	1	1	-1.5	-0.7	-
Bacon	2	1	-	2.3	-
Poultry	4	4	0.5	-1.2	-0.01
Other meat	7	6	0.2	-0.1	-
Processed fish	2	2	0.1	-0.7	-
Butter	1	1	0.8	-0.9	-
Oils and fats	1	1	11.5	-3.2	-0.01
Cheese	4	3	0.3	-1.9	-0.01
Milk, fresh	3	3	-0.4	-0.6	-
Milk products	4	4	-2.1	-1.0	-
Tea	1	1	1.4	-3.0	-
Soft drinks	10	9	-1.3	2.4	0.03
Sugar and preserves	1	1	0.8	0.7	-
Sweets and chocolates	11	11	0.7	-3.6	-0.05
Potato products	3	2	3.2	3.1	-
Processed vegetables	2	2	-2.0	2.8	0.01
Processed fruit	2	1	0.1	1.2	-
Other foods	11	10	-1.6	0.1	0.02
Coffee and other hot drinks	1	2	0.5	-0.2	-

- Large downward effect on the all items 12-month rate change.
- Due to **sweets and chocolates**; and, to a lesser extent, **beef, oils and fats, cheese** and **poultry**, where prices overall fell this year but rose a year ago, particularly for cartons/boxes of chocolates, bags of chocolate sweets, topside of home killed beef and margarine/low fat spread.
- Partially offset by small upward contributions coming from **soft drinks, other foods** and **processed vegetables** where prices overall rose this year but fell a year ago, particularly for fruit squash, fizzy bottled drinks and chocolate covered ice cream bars.

CATERING	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to RPI annual rate change
CATERING	47	47	0.1	0.2	-
Restaurant meals	28	28	0.1	0.1	-
Canteen meals	3	3	0.2	0.4	-
Take-away meals and snacks	16	16	0.2	0.2	-

- Negligible overall effect on the all items 12-month rate change.

ALCOHOLIC DRINKS	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to RPI annual rate change
ALCOHOLIC DRINKS	56	57	-0.1	0.3	0.02
Beer on sales	19	19	0.1	0.2	-
Beer off sales	5	5	2.1	2.4	-
Wines and spirits on sales	18	19	-	0.2	-
Wines and spirits off sales	14	14	-1.4	-0.3	0.01

- Small upward effect on the all items 12-month rate change.
- Due to **wines and spirits off sales**, where prices overall fell this year by less than a year ago, particularly for New World red wine. Partially offset by a small downward contribution coming from whisky, where prices fell this year but rose a year ago.

TOBACCO	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to RPI annual rate change
TOBACCO	27	25	0.2	0.3	-
Cigarettes	23	21	0.2	0.3	-
Other tobacco products	4	4	0.3	-	-

- Negligible overall effect on the all items 12-month rate change.

HOUSING	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to RPI annual rate change
HOUSING	263	266	0.3	0.5	0.05
Rent	84	83	0.1	0.1	-
Mortgage interest payments	29	28	-0.1	2.6	0.07
Council tax and rates	40	40	-	-	-
Water and other charges	14	13	-	-	-
Repairs and maintenance charges	9	9	0.1	0.1	-
DIY materials	8	7	-0.5	-0.8	-
Dwelling insurance and ground rent	6	6	0.8	0.3	-
House depreciation	73	80	1.1	0.7	-0.02

- Large upward effect on the all items 12-month rate change.
- Due to **mortgage interest payments**, where average charges rose this year but fell a year ago.
- Partially offset by **house depreciation**, with the smoothed house price index used to calculate this component rising this year by less than a year ago.

FUEL AND LIGHT	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to RPI annual rate change
FUEL AND LIGHT	45	41	-0.9	0.2	0.05
Coal and solid fuels	1	1	0.3	0.7	-
Electricity	21	20	-	-	-
Gas	21	18	-2.2	-	0.04
Oil and other fuels	2	2	1.4	3.8	0.01

- Large upward effect on the all items 12-month rate change.
- Due to **gas**, where average charges were unchanged this year but fell a year ago; and, to a lesser extent
- **Oil and other fuels**, where kerosene prices rose this year by more than a year ago.

HOUSEHOLD GOODS	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to RPI annual rate change
HOUSEHOLD GOODS	59	62	0.6	0.8	0.01
Furniture	22	25	1.0	0.9	-
Furnishings	9	8	0.7	0.4	-
Electrical appliances	5	7	0.4	1.3	0.01
Other household equipment	4	4	0.7	-0.9	-0.01
Household consumables	12	11	-0.2	0.9	0.01
Pet care	7	7	0.3	0.8	-

- Small upward effect on the all items 12-month rate change.
- Due to:
 - **Electrical appliances**, where prices overall rose this year by more than a year ago, with the main upward contribution coming from electric kettles; and
 - **Household consumables**, where prices overall rose this year but fell a year ago.
- Partially offset by **other household equipment**, where prices overall fell this year but rose a year ago.

HOUSEHOLD SERVICES	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to RPI annual rate change
HOUSEHOLD SERVICES	65	67	0.5	0.6	-
Domestic services	13	14	0.2	0.2	-
Fees and subscriptions	26	27	0.8	1.3	0.02
Postage	1	1	-	-	-
Telephone charges	25	25	0.4	-0.1	-0.01

- Negligible overall effect on the all items 12-month rate change.
- There is a small upward contribution coming from **fees and subscriptions**, where average charges rose this year by more than a year ago, particularly for part-time education classes and private school fees. Partially offset by a small downward contribution coming from estate agent fees, where charges fell this year but rose a year ago.
- Offset by a small downward contribution coming from **telephone charges**, where prices overall fell this year but rose a year ago, with the main downward contribution coming from bundled telecommunication services.

CLOTHING AND FOOTWEAR	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to RPI annual rate change
CLOTHING AND FOOTWEAR	42	41	3.2	4.8	0.07
Men's outerwear	8	9	3.7	3.6	-
Women's outerwear	16	15	4.9	7.4	0.03
Children's outerwear	5	4	1.8	3.7	0.01
Other clothing	5	5	0.6	2.9	0.01
Footwear	8	8	1.5	3.0	0.01

- Large upward effect on the all items 12-month rate change.
- Due to **women's outerwear**, **children's outerwear**, **other clothing** and **footwear**, where prices overall rose this year by more than a year ago, with the main upward contributions coming from women's cardigans and strappy tops. Partially offset by a small downward contribution from women's coats, where prices rose this year by less than a year ago.

PERSONAL GOODS AND SERVICES	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to RPI annual rate change
PERSONAL GOODS AND SERVICES	41	42	0.1	0.4	0.01
Personal articles	10	12	0.4	1.2	0.01
Chemists' goods	17	15	-	0.2	-
Personal services	14	15	0.1	0.1	-

- Small upward effect on the all items 12-month rate change.
- Due to **personal articles**, where prices overall rose this year by more than a year ago, with the main upward contribution coming from trolley cases.

MOTORING EXPENDITURE	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to RPI annual rate change
MOTORING EXPENDITURE	115	117	-1.3	0.8	0.24
Purchase of motor vehicles	42	45	-0.5	-0.2	0.01
Maintenance of motor vehicles	16	16	-	0.3	0.01
Petrol and oil	35	33	-4.0	1.9	0.21
Vehicle tax and insurance	22	23	0.9	1.2	0.01

- Largest upward effect on the all items 12-month rate change.
- Due to:
 - **Petrol and oil**, where prices overall rose this year but fell a year ago. The price of petrol, as recorded for the RPI, rose by 2.0 pence per litre between August and

September 2016, to stand at 111.3 pence per litre, compared with a fall of 4.9 pence per litre last year to stand at 110.6 pence per litre. Diesel prices rose by 2.4 pence per litre, to stand at 113.4 pence per litre in September 2016, compared with a fall of 4.3 pence per litre last year to stand at 109.9 pence per litre; and, to a lesser extent

- **Purchase of motor vehicles**, where average prices fell this year by less than a year ago, particularly for second-hand cars;
- **Maintenance of motor vehicles**, where prices overall rose this year but were little changed a year ago; and
- **Tax and insurance**, where average premiums for car insurance rose this year by more than a year ago.

FARES AND OTHER TRAVEL COSTS	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to RPI annual rate change
FARES AND OTHER TRAVEL COSTS	25	26	-8.5	-11.5	-0.12
Rail fares	7	7	-0.5	0.1	-
Bus and coach fares	3	3	-0.6	-1.5	-
Other travel costs	15	16	-12.5	-16.5	-0.12

- Largest downward effect on the all items 12-month rate change.
- Due to **other travel costs**, where average prices fell this year by more than a year ago, particularly for air fares.

LEISURE GOODS	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to RPI annual rate change
LEISURE GOODS	28	29	-0.3	0.2	0.01
Audio-visual equipment	7	7	-1.4	-	0.01
CDs and tapes	2	2	-2.0	0.4	-
Toys, photographic and sports goods	8	9	0.4	0.6	-
Books and newspapers	6	6	0.2	-0.6	-
Gardening products	5	5	0.1	0.6	-

- Small upward effect on the all items 12-month rate change.
- Due to **audio-visual equipment**, where prices overall were little changed this year but fell a year ago, with the main upward contribution coming from laptop computers.

LEISURE SERVICES	Weight 2015	Weight 2016	1 month % change Sep 2015	1 month % change Sep 2016	Contribution to RPI annual rate change
LEISURE SERVICES	78	78	0.8	0.3	-0.04
TV licence and rentals	12	12	-	-	-
Entertainment and other recreation	15	16	1.7	1.0	-0.01
Foreign holidays	41	40	0.5	-0.5	-0.04
UK holidays	10	10	1.4	2.2	0.01

- Large downward effect on the all items 12-month rate change.
- Due to:
 - **Foreign holidays**, where prices overall fell this year but rose a year ago, with the main downward contributions coming from late booked, self catering and hotel foreign holidays; and, to a lesser extent
 - **Entertainment and other recreation**, where average theatre admission charges fell this year but rose a year ago. Partially offset by part-time leisure classes where charges rose this year by more than a year ago.
- Partially offset by **UK holidays**, where prices overall rose this year by more than a year ago, with the main upward contribution coming overnight hotel accommodation. Partially offset by a small downward contribution from self catering holidays.

RECONCILIATION OF CPI AND RPI

(Table 5 of the Consumer Price Inflation Dataset)

This table identifies the main factors contributing to the differences between the unrounded inflation rates for the CPI and the RPI. These differences are broken down into: mortgage interest payments, other housing components excluded from the CPI, other differences in the coverage of goods and services, and the formula effect. The final column titled 'other differences including weights' is derived as a residual.

The difference between the CPI and RPI unrounded annual rates in September 2016 was -1.08 percentage points, narrowing from -1.11 percentage points in August 2016.

The main factors contributing to the narrowing were:

- **Other differences including weights**, which decreased the RPI 12-month rate relative to the CPI 12-month rate by 0.05 percentage points between August and September 2016. The effect came mainly from clothing and footwear. This was partially offset by fuels and lubricants; and sea fares.
- **Other housing components excluded from the CPI**, which decreased the RPI 12-month rate relative to the CPI 12-month rate by 0.03 percentage points between August and September 2016. The effect came mainly from house depreciation.
- **The formula effect**, which decreased the RPI 12-month rate relative to the CPI 12-month rate by 0.02 percentage points between August and September 2016. The effect came mainly from clothing and footwear; and recreation and culture. This was partially offset by hotels, cafes and restaurants.

The only significant offsetting factor was.

- **Mortgage interest payments**, which increased the RPI 12-month rate by 0.07 percentage points between August and September 2016 but are excluded from the CPI.

RPI MISCELLANEOUS DATA

Selected Average Prices

Description		July 2016	August 2016	September 2016
Petrol per litre	Diesel	£1.13	£1.11	£1.13
	Petrol	£1.12	£1.09	£1.11
Alcohol pub prices	Draught bitter (pint)	£3.00	£3.00	£3.01
	Draught lager (pint)	£3.48	£3.49	£3.50
	Whisky (per nip)	£2.70	£2.70	£2.70
Cigarettes	Per 20 king size	£9.29	£9.39	£9.43

Average prices are as recorded for the RPI.

Changes in Mortgage Interest Rates

This table gives an estimate of the contribution that changes in the average mortgage interest rate (MI) make to the 1-month percentage change in the RPI.

Month	1-month % change in the RPI	Approx. change in average MI rate	Approx. contribution to the 1-month % change in the RPI
September 2015	-0.1	Down -0.02% points	-0.02% points
October 2015	0.0	Down -0.02% points	-0.02% points
November 2015	+0.1	Down -0.01% points	-0.01% points
December 2015	+0.3	Down -0.02% points	-0.02% points
January 2016	-0.7	Down -0.01% points	-0.01% points
February 2016	+0.5	Down -0.01% points	-0.01% points
March 2016	+0.4	Down -0.01% points	-0.01% points
April 2016	+0.1	Down -0.02% points	-0.02% points
May 2016	+0.3	Down -0.01% points	-0.01% points
June 2016	+0.4	Down -0.02% points	-0.02% points
July 2016	+0.1	Down -0.01% points	-0.01% points
August 2016	+0.4	Down -0.12% points	-0.11% points
September 2016	+0.2	Up +0.06 points	+0.05% points

NB: A one percentage point change in the average mortgage interest rate contributes approx. 0.9 percentage points to the 1-month percentage change in the RPI.

OUTLOOK

The outlook is a summary of seasonal trends, selected news cuttings and other sources of information. It gives some indication of expected changes to the annual rate of the CPI and RPI in the next few months.

FOOD

Seasonal Food

- With the exception of 2011, seasonal food prices in the CPI have risen in October in recent years.

Monthly % change for CPI seasonal food index			
Year	August	September	October
2010	-0.5	-0.7	0.4
2011	-1.0	0.8	-1.6
2012	0.2	-0.1	0.9
2013	0.2	1.1	0.1
2014	-0.3	-0.5	1.3
2015	-0.4	0.3	0.3
2016	-0.3	1.2	

- Seasonal food prices in the RPI tend to show a similar movement.

CLOTHING AND FOOTWEAR

- With the exception of 2010, clothing and footwear prices in the CPI have risen in October in recent years.

Monthly % change for CPI clothing and footwear index			
Year	August	September	October
2010	2.8	6.4	-0.7
2011	3.7	4.4	0.8
2012	2.8	4.7	1.2
2013	2.0	4.2	1.0
2014	2.6	4.0	0.6
2015	1.5	2.8	2.0
2016	1.0	5.2	

- The clothing and footwear group in the RPI exhibits a similar seasonal pattern.

FURNITURE, HOUSEHOLD EQUIPMENT AND MAINTENANCE

- Prices tend to fall in October as a result of mid-season sales.

Monthly % change for CPI furniture, household equipment and maintenance index			
Year	August	September	October
2010	1.0	1.7	-1.0
2011	2.0	1.2	-0.6
2012	0.8	0.5	-0.6
2013	1.8	0.2	-0.4
2014	1.0	0.6	-1.1
2015	1.7	0.7	-1.0
2016	1.4	0.4	

- The household goods group in the RPI exhibits a similar seasonal pattern.

TRANSPORT

Fuels and Lubricants

- Russia has said it will support a proposal by Opec to freeze oil production in order to reverse the slump in global prices. The move lifted the price of oil, with Brent crude hitting a one-year high.
In late afternoon Brent Crude oil was trading up by 2.5% at \$53.21 a barrel, just off the \$53.73 high hit earlier on Monday. (www.bbc.co.uk 10 October 2016)
- When considering the price of petrol between September and October 2016, it may be useful to note that the average price of petrol fell by 1.7 pence per litre between September and October 2015, standing at 108.7 pence per litre as measured in the CPI.
- A 1 pence change on average in the cost of a litre of motor fuel contributes approximately 0.03 percentage points to the 1-month change in the CPI.

Passenger Transport by Air

- With the exception of 2010, air fares have risen in October of recent years.

Monthly % change for CPI air fares index			
Year	August	September	October
2010	16.1	-27.8	2.7
2011	11.2	-21.2	-6.0
2012	10.2	-25.2	-3.5
2013	9.4	-18.8	-11.2
2014	11.3	-21.7	-6.0
2015	13.9	-20.4	-12.7
2016	14.4	-24.2	

- The air fares index used in the RPI is the same as that used in the CPI, and is included in the **other travel costs** section.

HOUSING (RPI)

Mortgage interest payments (MIPs)

- The Bank of England Bank Rate remained unchanged at 0.25% on Thursday 15 September 2016. The next announcement and minutes from the Bank of England's Monetary Policy Committee are scheduled to be published on 3 November 2016.
- The change in average mortgage interest rates recorded in the RPI was -0.02% between September and October 2015. The Bank of England Bank Rate remained unchanged at 0.5% in September 2015.
- A one percentage point change in the average mortgage interest rate contributes approximately 0.9 percentage points to the 1-month percentage change in the RPI.

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