

Statistical bulletin

# Producer price inflation, UK: November 2015

Changes in the prices of goods bought and sold by UK manufacturers including price indices of materials and fuels purchased (input prices) and factory gate prices (output prices).



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# 1 . Main points

- The price of goods bought and sold by UK manufacturers, as estimated by the producer price index, continued to fall in the year to November 2015. Crude oil continued to drive down input prices, feeding through to a drop in output prices of petroleum products
- Factory gate prices (output prices) for goods produced by UK manufacturers fell 1.5% in the year to November 2015, compared with a fall of 1.4% in the year to October 2015
- Core factory gate prices, which exclude the more volatile food, beverage, tobacco and petroleum products, fell 0.1% in the year to November 2015, compared with a rise of 0.3% in the year to October 2015
- The overall price of materials and fuels bought by UK manufacturers for processing (total input prices) fell 13.1% in the year to November 2015, from a fall of 12.3% in the year to October 2015
- Core input prices, which exclude the more volatile food, beverage, tobacco and petroleum products fell 8.3% in the year to November 2015, compared with a fall of 6.7% in the year to October 2015

## 2 . What is the Producer Price Index (PPI)?

The [Producer Price Index \(PPI\)](#) is a monthly survey that measures the price changes of goods bought and sold by UK manufacturers and provides an important measure of inflation, alongside other indicators such as the [Consumer Price Index \(CPI\)](#) and [Services Producer Price Index \(SPPI\)](#). This statistical bulletin contains a comprehensive selection of data on input and output index series and also contains producer price indices of materials and fuels purchased and output of manufacturing industry by broad sector.

The output price indices measure change in the prices of goods produced by UK manufacturers (these are often called “factory gate prices”).

The input price indices measure change in the prices of materials and fuels bought by UK manufacturers for processing. These are not limited to just those materials used in the final product, but also include what is required by the company in its normal day-to-day running.

The factory gate price (the output price) is the price of goods sold by UK manufacturers and is the actual cost of manufacturing goods before any additional charges are added, which would give a profit. It includes costs such as labour, raw materials and energy, as well as interest on loans, site or building maintenance, or rent.

Core factory gate inflation excludes price movements from food, beverage, petroleum, and tobacco and alcohol products, which tend to have volatile price movements. It should give a better indication of the underlying output inflation rates.

The input price is the cost of goods bought by UK manufacturers for the use in manufacturing, such as the actual cost of materials and fuels bought for processing.

Core input inflation strips out purchases from the volatile food, beverage, tobacco and petroleum industries to give an indication of the underlying input inflation pressures facing the UK manufacturing sector.

## 3 . Output prices: summary

Factory gate inflation fell 1.5% in the year to November 2015, compared with a fall of 1.4% last month.

The rate of both total output and core inflation has generally been falling since autumn 2011, when output inflation reached its post-economic downturn high of 5.3% in September 2011. During this period, core factory gate inflation has tended to run at a lower rate and show a smaller degree of volatility than total output inflation. However, since January 2014, core output price inflation has been running at a slightly higher rate than total output inflation: a result of the downward pressures from petroleum, which is excluded from the core measure of inflation (Figure A).

Looking at the latest estimates (Table A), movements in factory gate prices over the 12 months to November 2015 were as follows:

- factory gate prices fell 1.5%, compared with a fall of 1.4% in the year to October 2015
- core factory gate prices fell 0.1%, compared with an increase of 0.3% in the year to October 2015
- factory gate inflation excluding excise duty fell 1.2%, unchanged from the year to October 2015

Between October and November 2015:

- factory gate prices decreased 0.2%, compared with a fall of 0.1% last month
- core factory gate prices decreased 0.2%, compared with a fall of 0.1% last month

#### Table A: Output prices (home sales)

UK, June to November 2015

	Percentage change					
	All manufactured products		Excluding food, beverage, tobacco and petroleum		All manufactured products excluding duty	
	1 month	12 months	1 month	12 months	1 month	12 months
2015 Jun	0.0	-1.5	0.0	0.1	0.0	-1.1
Jul	-0.2	-1.6	0.0	0.2	-0.1	-1.2
Aug	-0.5	-1.9	-0.1	0.0	-0.5	-1.6
Sep	-0.1	-1.8	0.1	0.2	-0.1	-1.6
Oct	-0.1	-1.4	-0.1	0.3	-0.1	-1.2
Nov	-0.2	-1.5	-0.2	-0.1	-0.1	-1.2

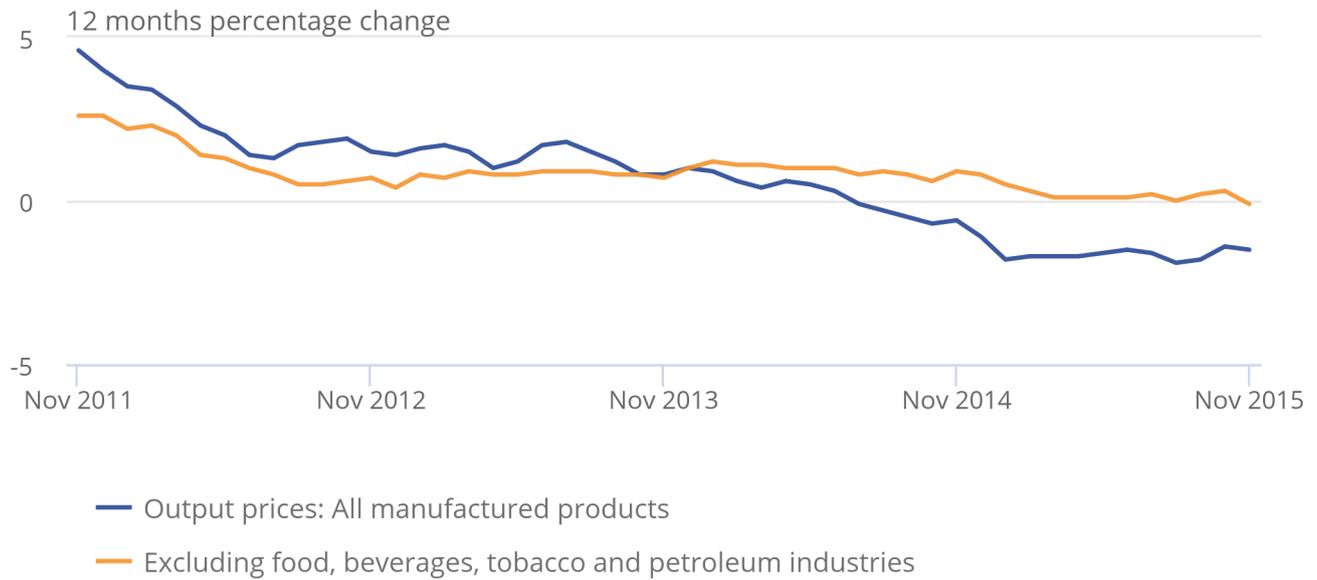
Source: Office for National Statistics

## Figure A: Output prices

UK, November 2011 to November 2015

### Figure A: Output prices

UK, November 2011 to November 2015



Source: Office for National Statistics

## 4 . Supplementary analysis: Output prices

Table B shows the annual percentage change in price across all product groups and Figure B shows their contribution to the annual factory gate inflation rate.

**Table B: Output prices, 12 months change, November 2015**

UK	
Product group	Percentage change
Food products	-1.5
Tobacco and alcohol (incl. duty)	0.7
Clothing, textile and leather	-0.2
Paper and printing	0.0
Petroleum products (incl. duty)	-16.5
Chemical and pharmaceutical	-1.9
Metal, machinery and equipment	0.2
Computer, electrical and optical	0.2
Transport equipment	-0.7
Other manufactured products	1.3
All manufacturing	-1.5

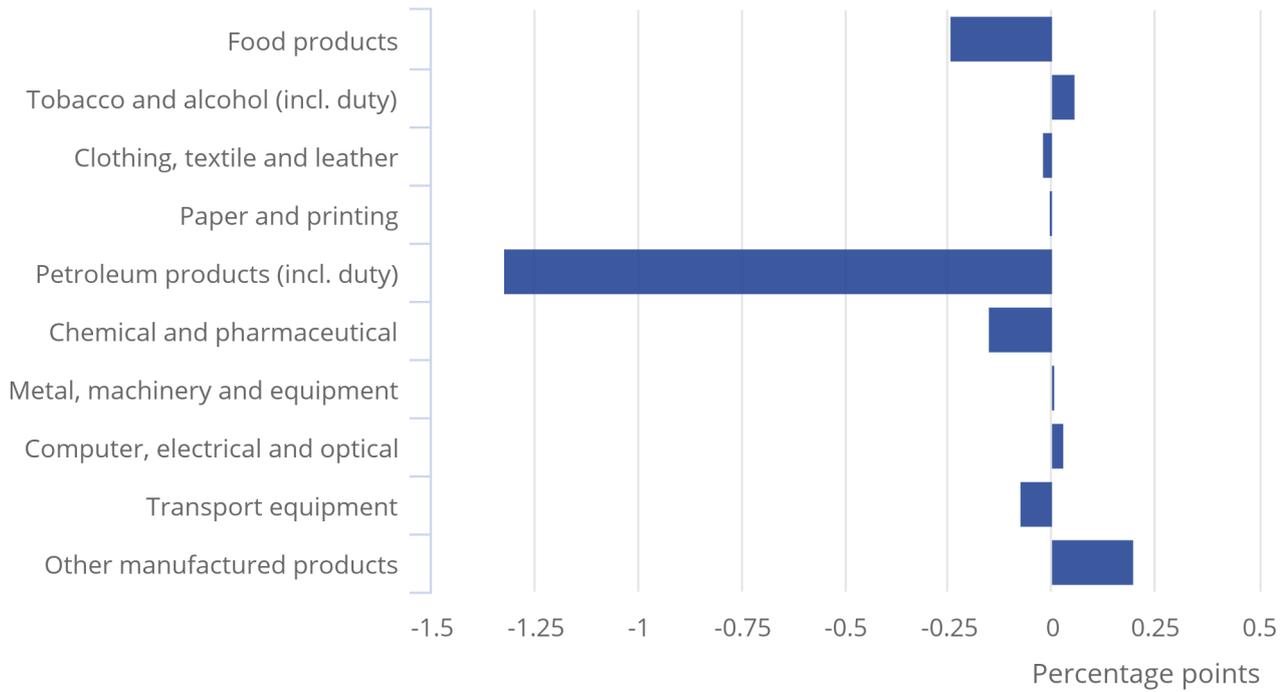
Source: Office for National Statistics

**Figure B: Output prices: Contribution to 12 months growth rate, November 2015**

UK

Figure B: Output prices: Contribution to 12 months growth rate, November 2015

UK



**Source: Office for National Statistics**

Table C shows the monthly percentage change in price across all product groups and Figure C shows their contribution to the month factory gate inflation rate.

**Table C: Output prices, 1 month change, November 2015**

UK	
Product group	Percentage change
Food products	-0.2
Tobacco and alcohol (incl. duty)	0.1
Clothing, textile and leather	-0.4
Paper and printing	0.0
Petroleum products (incl. duty)	-0.9
Chemical and pharmaceutical	-0.3
Metal, machinery and equipment	0.0
Computer, electrical and optical	0.0
Transport equipment	-0.3
Other manufactured products	0.1
All manufacturing	-0.2

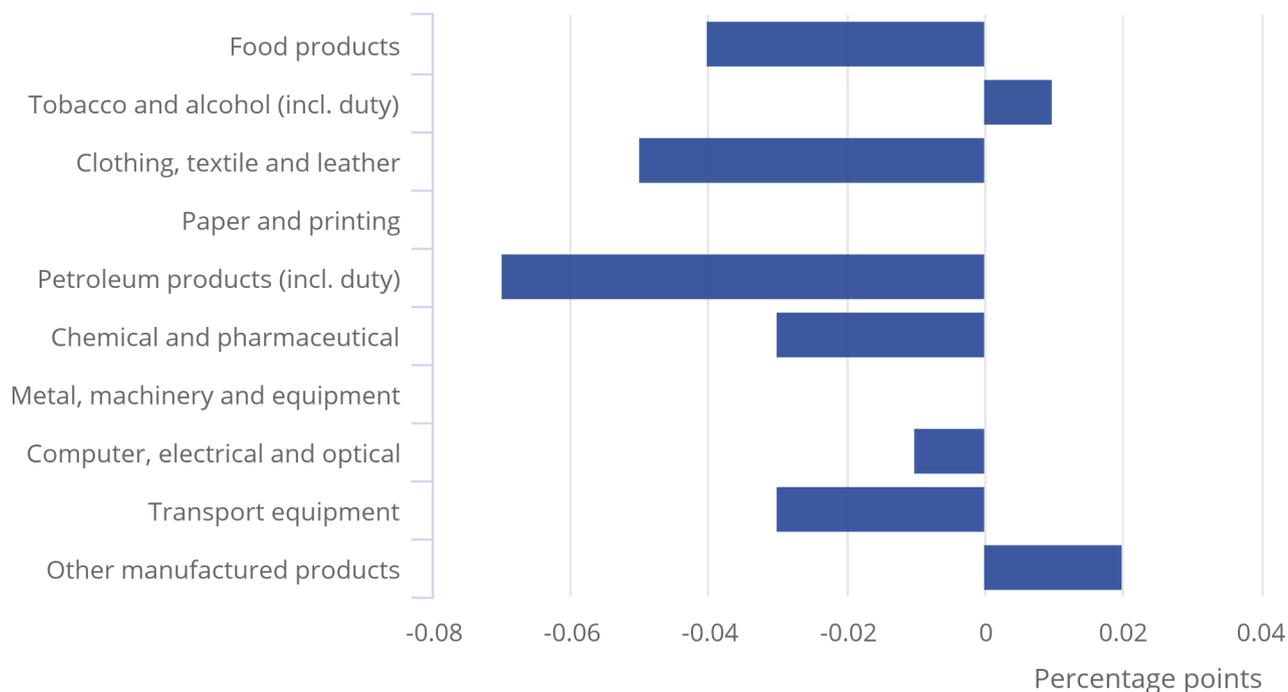
Source: Office for National Statistics

**Figure C: Output prices: Contribution to 1 month growth rate, November 2015**

UK

Figure C: Output prices: Contribution to 1 month growth rate, November 2015

UK



Source: Office for National Statistics

## 5 . Output prices: detailed commentary

Factory gate prices fell 1.5% in the year to November 2015, compared with a fall of 1.4% in the year to October 2015. Prior to July 2014, there had been no fall in the annual rate since October 2009, when it fell 0.1%. The main contribution to the annual rate for November 2015 came from petroleum products. Smaller falls in the prices of food products, and chemicals and pharmaceuticals also contributed towards the fall in the output of manufactured product prices (Figure B).

The monthly price index between October and November 2015 saw a fall of 0.2%, compared with a fall of 0.1% between September and October 2015. The majority of product groups showed decreases; downward movements for petroleum, clothing, textiles and leather, and food products provided the main downward contributions to the monthly rate (Figure C).

Petroleum product prices fell 16.5% in the year to November 2015, up from a fall of 17.8% in the year to October 2015. The largest decrease seen in this index was in July 2009, when it fell by 21.3%. The main contributions to the fall in the latest annual rate came from diesel and gas oil, motor spirit, and aviation turbine fuel.

Food products fell 1.5% in the year to November 2015, up from a fall of 1.7% in the year to October 2015. The monthly index for food products fell 0.2% between October and November 2015, up from a fall of 0.1% between September and October 2015. The main contribution to the decrease in the annual index came from dairy products, falling by 6.1% in the year to October 2015. The main contribution to the decrease in the monthly indices was from preserved meat and meat products which fell 0.4% between October and November 2015.

Chemical and pharmaceutical products fell 1.9% in the year to November 2015, down from a decrease of 1.7% in the year to October 2015, due to a fall in the price of chemicals and chemical products.

Clothing, textiles and leather product prices decreased 0.4% between October and November 2015, down from a fall of 0.2% between September and October 2015. A fall in the price of wearing apparel was the only contributor towards this decrease.

## **Core factory gate inflation**

Core factory gate prices, which exclude the more volatile food, beverage, tobacco and petroleum product prices, giving a measure of the underlying factory gate inflation, fell 0.1% in the year to November 2015, compared with a rise of 0.3% in the year to October 2015. This is the first fall seen in this index since the year to November 2009. Falls in chemicals and pharmaceuticals, and transport equipment was partially offset by an increase in prices for other manufacturing products in the annual index.

The monthly index showed a fall of 0.2% between October and November 2015, compared with a decrease of 0.1% between September and October 2015. Clothing, textiles and leather, transport equipment, and chemicals and pharmaceuticals provided the largest contributions to the fall in the index, slightly offset by an increase in other manufactured products.

## **Output producer price index contribution to change in rate**

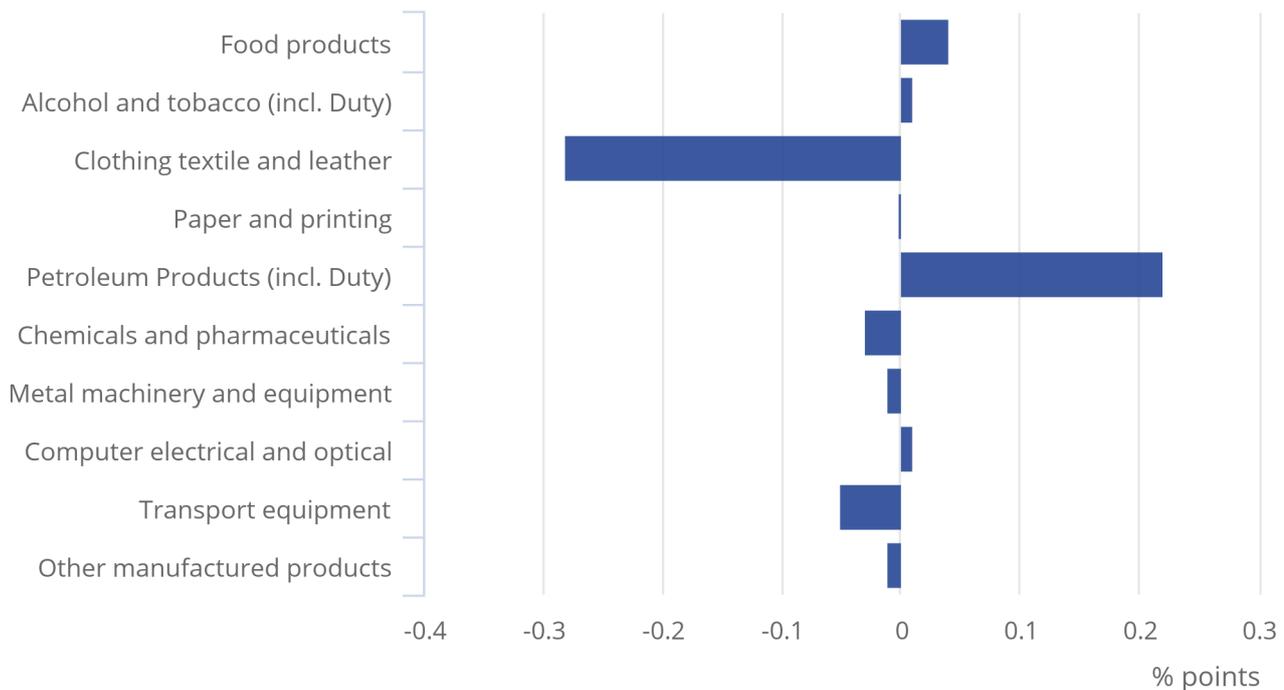
The annual percentage rate for the output PPI in November 2015 fell 1.5%, compared with a fall of 1.4% last month, resulting in a decrease in the annual rate of 0.1 percentage points. The main contribution to the decrease came from clothing, textiles and leather, offset by petroleum products (Figure D).

**Figure D Output prices: 12 month contribution to the change in rate between October and November 2015**

UK

**Figure D Output prices: 12 month contribution to the change in rate between October and November 2015**

UK



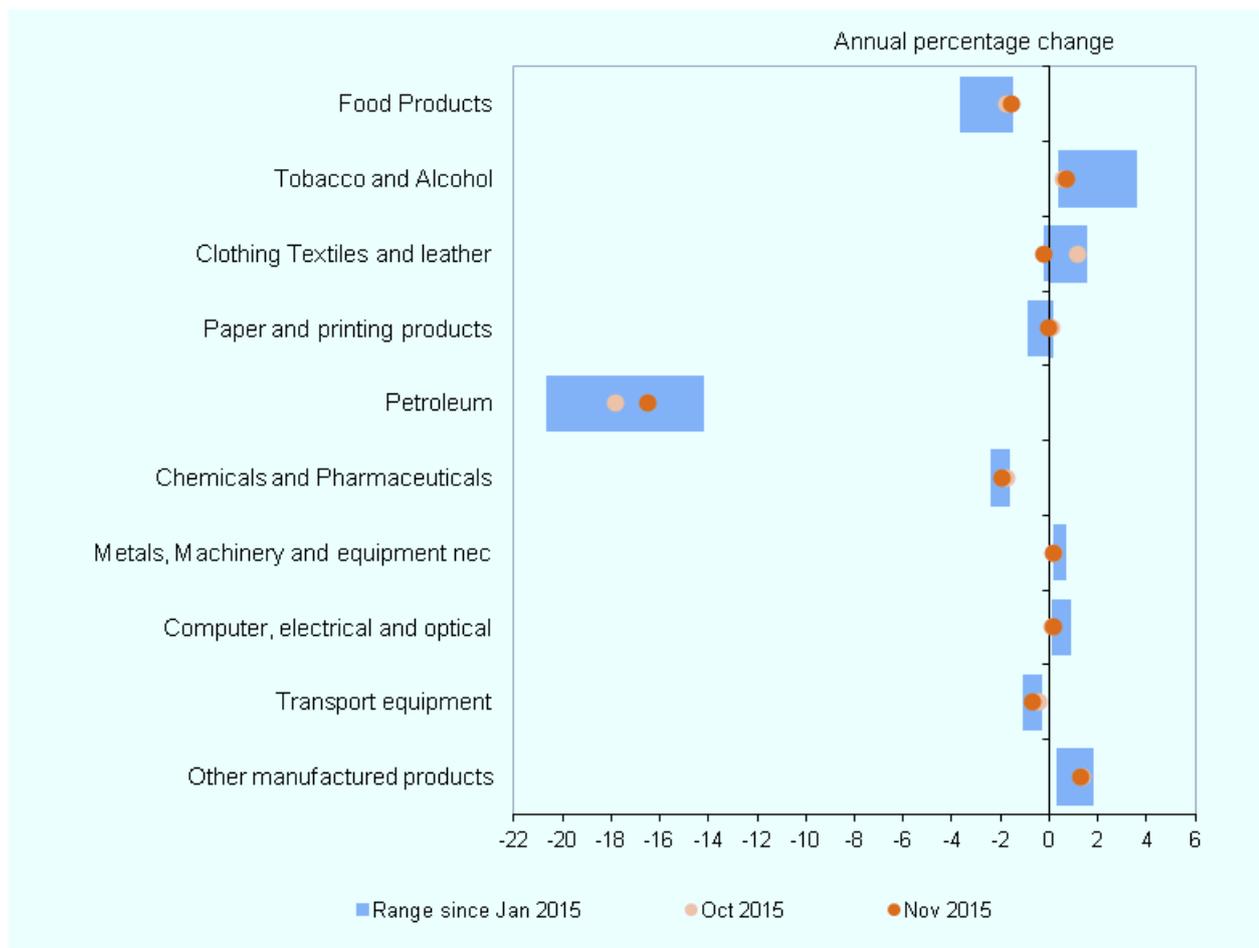
Source: Office for National Statistics

## 6 . Output PPI indices by grouping

Figure E shows the year on year growth in output PPI by grouping for the latest 2 months and the range of the price changes that have been seen in these sections since January 2015. It can be seen that the majority of output PPI indices have experienced little variance in inflation during 2015. Petroleum shows the biggest decrease, ranging from falls of 20.7% in January 2015 to 14.2% in May 2015. Tobacco and alcohol shows the biggest increase, ranging from rises of 3.6% in January 2015 to 0.4% in September 2015.

**Figure E: Output prices PPI by grouping, January to November 2015**

UK



Source: Office for National Statistics

## 7 . Input prices: summary

The price inflation of materials and fuels purchased by UK manufacturing industry, as measured by input prices, has been falling since November 2013 (Figure F). The movements in the index since February 2014 have shown input prices decreasing rapidly. The largest fall was seen in August 2015 (14.6%) with input prices currently falling by 13.1%. The core measure of inflation has also decreased through this period, but at a significantly slower rate, currently 8.3%.

Looking at the latest data (Table D), the main movements in the year to November 2015 were as follows:

- the total input price index fell 13.1%, compared with a fall of 12.3% in the year to October 2015
- the core input price index saw a fall of 8.3%, compared with a fall of 6.7% in the year to October 2015
- the price of imported materials as a whole (including crude oil) fell 13.5%, compared to a decrease of 12.5% in the year to October 2015 ( [Reference table 7 \(229 Kb Excel sheet\)](#))

Between October and November 2015:

- the total input price index fell 1.6%, compared with no movement last month (Table D)
- in seasonally adjusted terms (see Table D), the input price index for the manufacturing industry excluding the food, beverage, tobacco and petroleum industries fell 1.3%, unchanged from last month

**Table D: Input prices, percentage change**

UK, June to November 2015

	Percentage change				
	Materials and fuels purchased		Excluding purchases from food, beverage, tobacco and petroleum industries		
	1 month (NSA) <sup>1</sup>	12 months (NSA) <sup>1</sup>	1 month (NSA) <sup>1</sup>	12 months (NSA) <sup>1</sup>	1 month (SA) <sup>2</sup>
2015 Jun	-2.2	-13.0	-0.9	-4.5	-0.5
Jul	-1.4	-12.8	-1.0	-4.7	-0.6
Aug	-3.0	-14.6	-1.0	-6.1	-1.1
Sep	0.5	-13.4	0.8	-5.7	0.6
Oct	0.0	-12.3	-0.6	-6.7	-1.3
Nov	-1.6	-13.1	-1.2	-8.3	-1.3

Source: Office for National Statistics

Notes:

1. NSA: Not Seasonally Adjusted

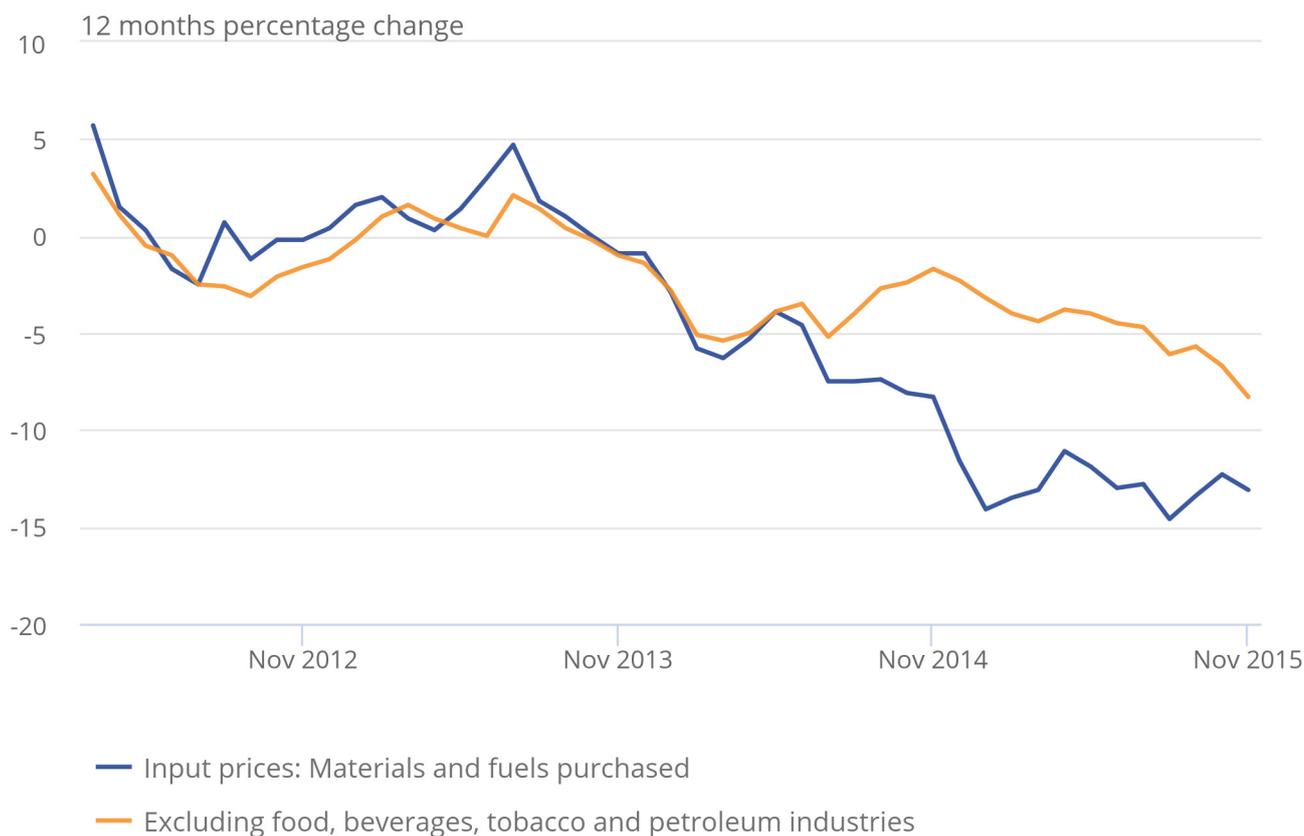
2. SA: Seasonally Adjusted

## Figure F: Input prices (materials and fuel) manufacturing industry

UK, March 2012 to November 2015

### Figure F: Input prices (materials and fuel) manufacturing industry

UK, March 2012 to November 2015



Source: Office for National Statistics

## Notes for input prices: summary

1. Input price indices include the [Climate Change Levy](#) which was introduced in April 2001
2. Input price indices include the [Aggregate Levy \(13.9 Kb Pdf\)](#) which was introduced in April 2002

## 8 . Supplementary analysis: Input prices

Table E and Figure G show the percentage change in the price of the main commodities groups over the year and their contributions to the total input index.

**Table E: Input prices: 12 months change, November 2015**

UK	
Product group	Percentage change
Fuel including Climate Change Levy	-9.2
Crude oil	-40.9
Home food materials	-4.5
Imported food materials	-4.9
Other home-produced materials	2.3
Imported metals	-19.7
Imported chemicals	-7.4
Imported parts and equipment	-4.0
Other imported materials	-3.6
All manufacturing	-13.1

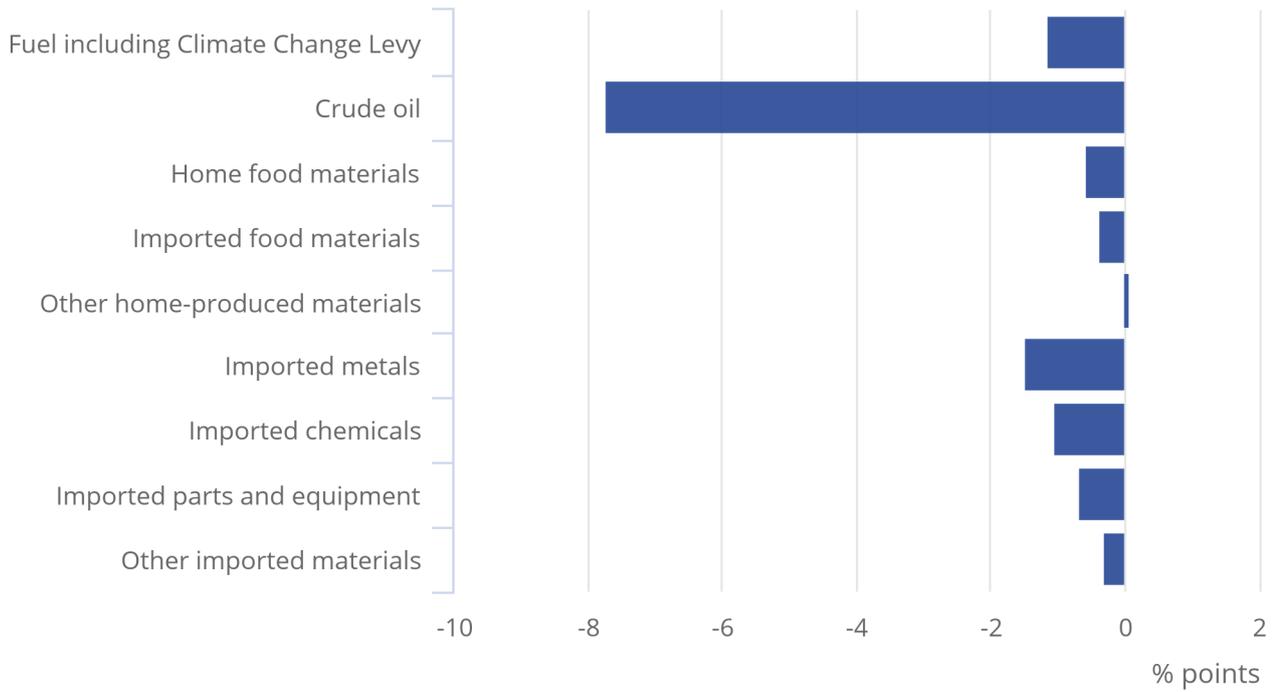
Source: Office for National Statistics

**Figure G: Input prices contribution to the 12 months growth rate, November 2015**

UK

Figure G: Input prices contribution to the 12 months growth rate, November 2015

UK



Source: Office for National Statistics

Table F and Figure H show the percentage change in the price of the main commodities groups over the month and their contributions to the total input index.

**Table F: Input prices, 1 month change, November 2015**

UK	
Product group	Percentage change
Fuel including Climate Change Levy	1.6
Crude oil	-7.3
Home food materials	0.6
Imported food materials	-0.6
Other home-produced materials	0.2
Imported metals	-3.8
Imported chemicals	-2.1
Imported parts and equipment	-0.8
Other imported materials	-1.1
All manufacturing	-1.6

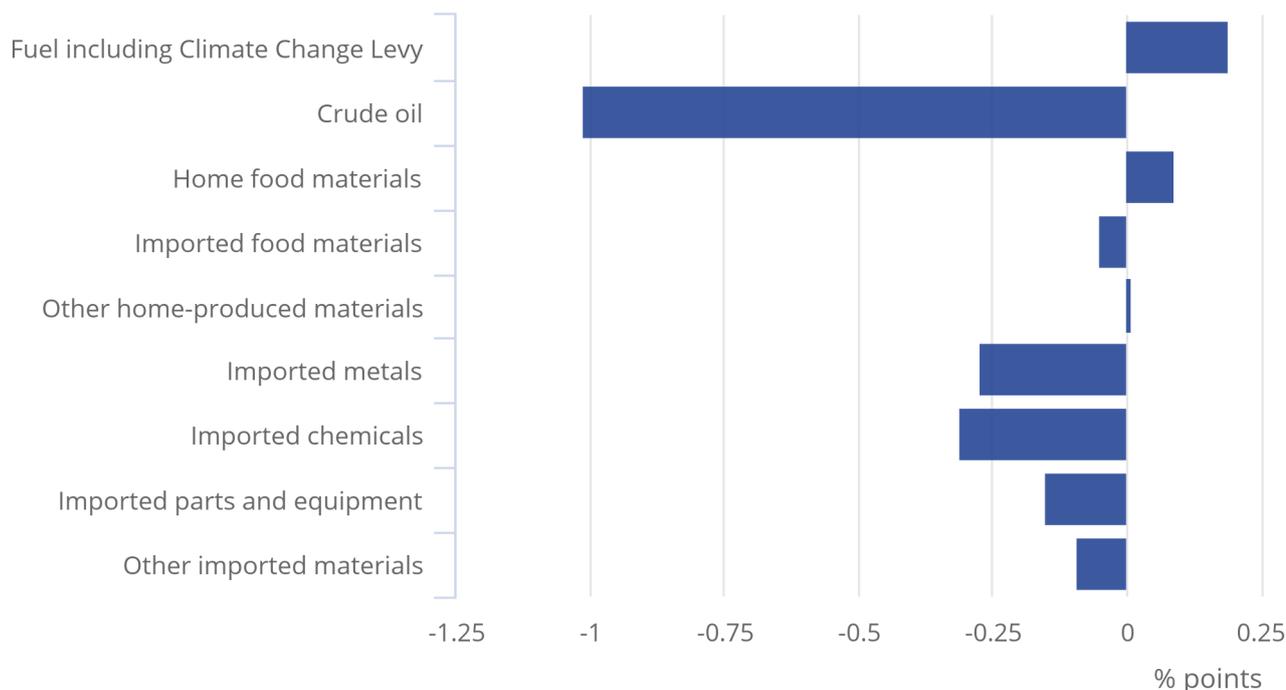
Source: Office for National Statistics

Figure H: Input prices contribution to the 1 month growth rate, November 2015

UK

Figure H: Input prices contribution to the 1 month growth rate, November 2015

UK



Source: Office for National Statistics

## 9 . Input prices: detailed commentary

The overall input index for all manufacturing, which measures changes in the price of materials and fuels purchased by manufacturers, fell 13.1% in the year to November 2015, compared with a fall of 12.3% in the year to October 2015. The main downward contributions to the index came from crude oil with a much smaller, but notable, downward contribution from imported metals.

Imported metal prices fell 19.7%, this is the largest decrease since records began in 1997. The main contribution came from imported products used in the manufacture of other basic metals and casting, which fell 20.2%. The price of the majority of metals measured in the PPI, have fallen significantly due to the recent performance of the Chinese manufacturing sector. Until recently the manufacturing sector in China has seen strong growth resulting in high demand, which pushed up prices. The current downturn in performance has meant a reduced demand for these materials and a sharp fall in their price.

The monthly input index fell 1.6% between September and October 2015, compared with no movement last month. This fall was driven by decreases in the price of crude oil, metals and chemicals, slightly offset by an increase in the price of fuel (see Table F and Figure F).

Crude oil annual prices have been falling since October 2013. The annual index fell 40.9% in the year to November 2015, compared to a decrease of 40.7% in the year to October 2015. The monthly index for crude oil fell 7.3% between October and November 2015, compared with an increase of 1.9% between September and October 2015. The main contribution to both the annual and monthly indices came from imported crude petroleum and natural gas, which fell 40.3% in the year to November 2015, and 7.3% between October and November 2015.

In recent years, factors such as supply disruptions, concerns over the global economic recovery, instability in eurozone countries and the expectation of reduced demand have all affected oil prices. The current year on year drop is being driven by a significantly higher supply, primarily from OPEC countries, than global demand can keep up with. This oversupply in the market has caused prices to tumble and led to a number of American oil rigs temporarily ceasing production. The oversupply is so large that some analysts have suggested that oil prices could be significantly lower if it were not for the current Chinese level of demand for imported crude. This demand does not currently appear to come from their manufacturing sector, which by China's recent standards is struggling, but from the desire to build up a surplus of oil while the price is relatively low.

The monthly index for fuel rose 1.6% between October and November 2015, compared with a rise of 0.5% last month. The increase was primarily due to gas distribution rising by 3.3%.

## **Core input price index (excluding purchases from the food, beverage, tobacco and petroleum industries)**

The core input price index, in seasonally adjusted terms, fell 1.3% between October and November 2015, unchanged from last month. This index fell 8.3% in the year to November 2015, compared with a decrease of 7.0% in the year to October 2015.

The unadjusted index fell 8.3% in the year to November 2015, compared with a decrease of 6.7% last month; this is the largest decrease since records began in 1997. The monthly index fell 1.2% between October and November 2015, compared with a decrease of 0.6% last month. The decrease in the monthly rate is driven by falls in most of the indices except for fuel and home food materials, which showed slight growth. The biggest falls came from crude oil, imported metals and imported chemicals.

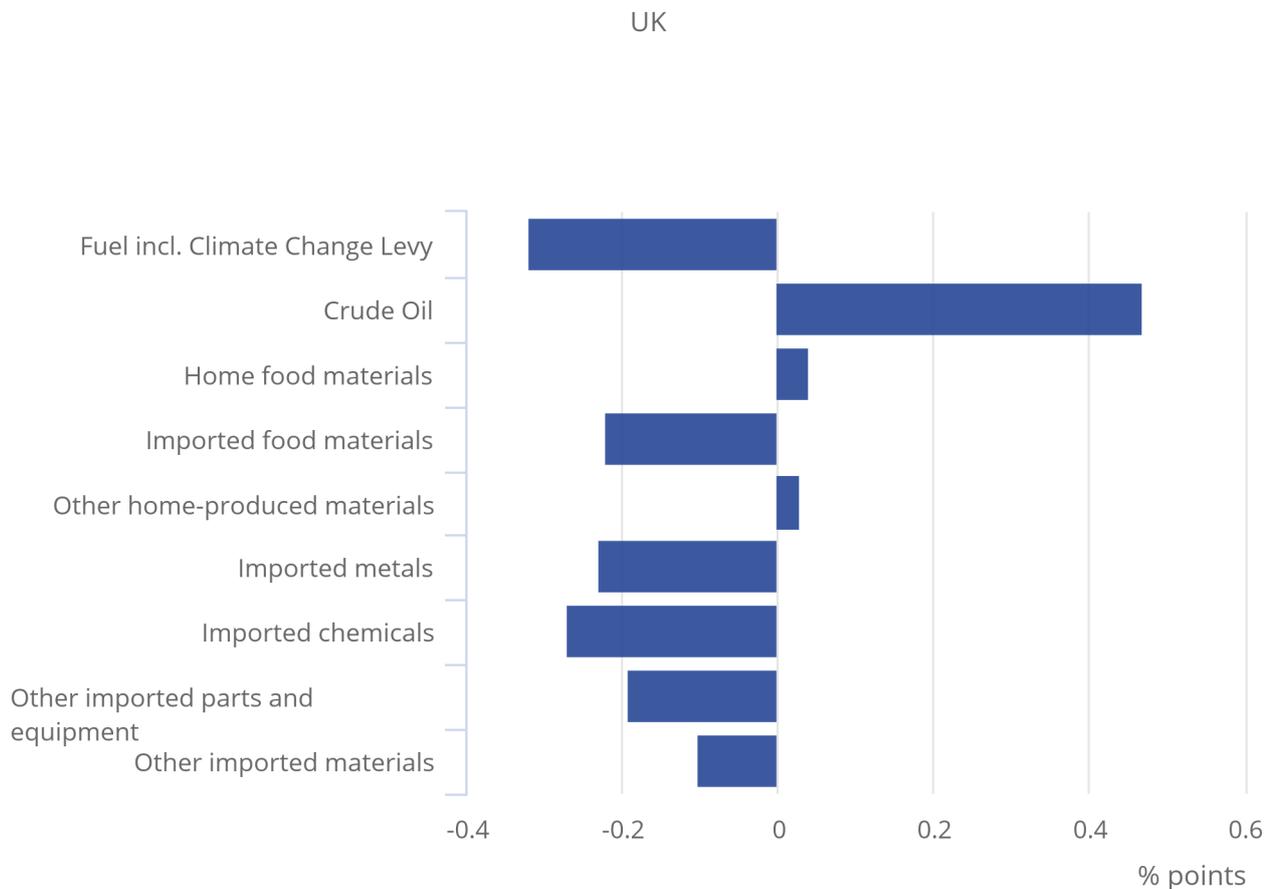
## **Input producer price index contribution to change in rate**

The annual percentage rate for the input PPI in November 2015 fell 13.1%, compared with a decrease of 12.3% last month, resulting in a decrease in the annual rate of 0.8 percentage points. This was mainly due to falls in the contribution from fuel, imported chemicals, imported metals and imported food, this has been offset slightly by an increase in crude oil (Figure I).

**Figure I: Input prices contribution to the 12 month change in rate, between October and November 2015**

UK

**Figure I: Input prices contribution to the 12 month change in rate, between October and November 2015**



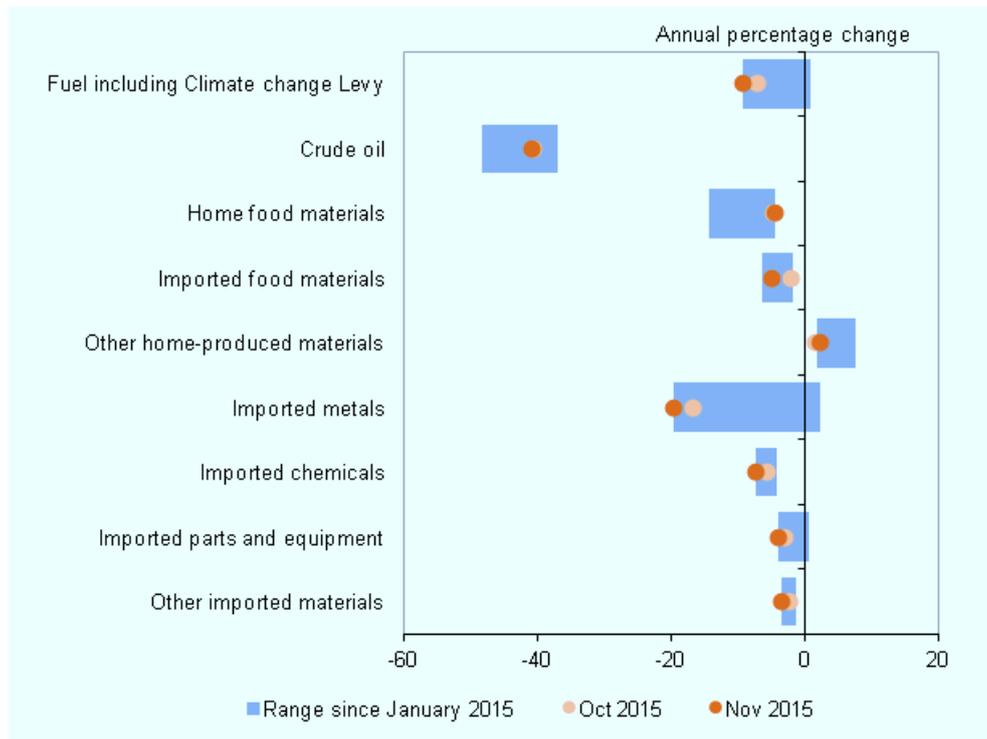
Source: Office for National Statistics

## 10 . Input PPI indices by grouping

Figure J shows the year on year growth in input PPI by grouping for the latest 2 months and the range of the price changes that have been seen in these groupings since January 2015. It can be seen that the majority of input PPI indices have experienced little variance in inflation during 2015. Crude oil shows the biggest decrease, ranging from falls of 48.5% in January 2015 to 37.0% in May 2015. Other home produced materials shows the biggest increase, ranging from rises of 7.7% in March 2015 to 1.5% in October 2015.

**Figure J: Input prices PPI by grouping, January to November 2015**

UK



Source: Office for National Statistics

## 11 . Revisions

For this bulletin ([Reference tables 8R and 9R \(229 Kb Excel sheet\)](#)) highlight revisions to movements in price indices previously published in [last month's statistical bulletin](#). These are mainly caused by changes to the most recent estimates, as more price quotes are received, and revisions to seasonal adjustment factors, which are re-estimated every month.

There are some large revisions in both the output and input indices caused by revisions from some data sources with high weights, for example, sugar and fish products. For more information about our [revisions policy](#), see our website.

**Table G: Revisions between first publication and estimates 12 months later**

	Value in latest period	Revisions between first publication and estimates 12 months later		%
		Average over the last 5 years	Average over the last 5 years without regard to sign (average absolute revision)	
Total output (JVZ7) - 12 months	-1.5	-0.16		0.21
Total output (JVZ7) - 1 month	-0.2	-0.01		0.08
Total input (K646) - 12 months	-13.1	0.06		0.35
Total input (K646) - 1 month	-1.6	0.08		0.27

Source: Office for National Statistics

Notes:

1. \*Statistically significant

Revisions to data provide one indication of the reliability of main indicators. Table G shows summary information on the size and direction of the revisions which have been made to the data covering a 5-year period. A statistical test has been applied to the average revision to find out if it is statistically significantly different from zero. An asterisk (\*) shows that the test is significant.

Table G presents a summary of the differences between the first estimates published between 2010 and 2015 and the estimates published 12 months later. These numbers include the effect of the reclassification onto Standard Industrial Classification (SIC) 2007.

Spreadsheets giving revisions triangles of estimates for all months from January 1998 through to September 2015 and the calculations behind the averages in the table are available in the reference table area of our website:

[Revision triangle for total output \(12 months\) \(2.52 Mb Excel sheet\)](#)

[Revision triangle for total output \(1 month\) \(2.48 Mb Excel sheet\)](#)

[Revision triangle for total input \(12 months\) \(2.53 Mb Excel sheet\)](#)

[Revision triangle for total input \(1 month\) \(2.52 Mb Excel sheet\)](#)

## 12. Background notes

### 1. PPI standard errors

We have published an article on the [analysis of Producer Price Indices \(PPI\)](#) using standard errors alongside this release. The article presented the calculated standard errors of the PPI during the period December 2014 to November 2015, for both month-on-month and 12-month growth.

## 2. PPI Guidance

[Guidance on using indices in indexation clauses \(197 Kb Pdf\)](#) has been published on our website. It covers producer prices, services producer prices and consumer prices.

An up-to-date manual for the producer price index, including the import and export index is now available. [PPI methods and guidance \(1.18 Mb Pdf\)](#) provides an outline of the methods used to produce the PPI as well as information about recent PPI developments.

## 3. Changing the way we publish datasets

The 2 producer price datasets called [Aerospace and Electronic Cost Indices \(MM19\)](#) and [Producer Price Indices \(MM22\)](#) are now published on the Producer Price Index webpage with the statistical bulletin reference tables.

## 4. How are we doing?

We are constantly aiming to improve this release and its associated commentary. We would welcome any feedback you might have, and would be particularly interested in knowing how you make use of these data to inform your work. Please contact us via email: [ppi@ons.gsi.gov.uk](mailto:ppi@ons.gsi.gov.uk)

## 5. Article about rebasing the PPI and SPPI onto 2010=100

As previously announced, we have taken forward the rebasing of the PPI onto a 2010=100 basis. The first published data using 2010=100 was released in November 2013. An [article describing the results of this assessment](#) was also published on 12 November 2013.

## 6. Finding PPI data

All of the data included in this statistical bulletin, alongside data for the full range of PPIs, is available in the associated reference tables. Also available are the datasets for the [Aerospace and Electronic Indices](#) and the [Producer Price Indices](#), or these can be downloaded from the time series pages. There are [PPI records \(95.5 Kb Excel sheet\)](#) available which gives the higher, lower and equal to movements for each index. Each PPI has 2 unique identifiers: a 10 digit index number, which relates to the [Standard Industrial Classification](#) code appropriate to the index and a 4-character alpha-numeric code, which can be used to find series when using the time series dataset for PPI.

## 7. Quality and methodology information

A [Quality and Methodology Information \(QMI\) \(95.6 Kb Pdf\)](#) paper for the PPI describes in detail the intended uses of the statistics presented in this publication, their general quality and the methods used to produce them.

## 8. European comparability

The UK is required to compile and deliver the output PPI to Eurostat under the [Short-Term Statistics Regulation](#). As a result, all EU countries must produce equivalent series on a comparable basis. Eurostat produce European aggregates for PPI and publish a [monthly press release](#) available on their website. This release uses the gross sector PPI as the headline figure here in the UK, we publish the top level PPI on a net sector basis. [Detailed PPI figures for the UK and the rest of the EU](#) are also published on Eurostat's website.

## 9. Relevance to users

Index numbers shown in the main text of this bulletin are on a net sector basis. The index for any sector relates only to transactions between that sector and other sectors, sales and purchases within sectors are excluded. However, the more detailed figures shown in [Reference tables 4 and 6 \(229 Kb Excel sheet\)](#) are on a gross basis; that is, intra industry sales and purchases are included in each of these indices.

Indices relate to average prices for a month. The full effect of a price change occurring part way through any month will only be reflected in the following month's index.

All index numbers exclude VAT. Excise duty (on cigarettes, manufactured tobacco, alcoholic liquor and petroleum products) are included, except where labelled otherwise. Since PPIs exclude VAT, they are not affected by the increase in the standard rate of VAT to 20% from 4 January 2011.

The detailed input indices of prices of materials and fuels purchased ([Reference table 6 \(229 Kb Excel sheet\)](#)) do not include the climate change levy (CCL). This is because each industry can, in practice, pay its own rate for the various forms of energy, depending on the various negotiated discounts and exemptions that apply.

## 10. Common pitfalls in interpreting series

Expectations of accuracy and reliability in sample surveys are often too high. Revisions and sampling variability are inevitable consequences of the trade off between timeliness, accuracy and the burden on respondents. Details of sampling variability are included elsewhere in this bulletin.

Very few statistical revisions arise as a result of "errors" in the popular sense of the word. All estimates, by definition, are subject to statistical "error" but, in this context, the word refers to the uncertainty in any process or calculation that uses sampling, estimation or modelling. Most revisions reflect either the adoption of new statistical techniques or the incorporation of new information which allows the statistical error of previous estimates to be reduced. Only rarely are there avoidable errors such as human or system failures, and such mistakes are made quite clear when they are discovered and corrected.

## 11. Definitions and explanations

Definitions found within the main statistical bulletin are listed here:

### Index number

A measure of the average level of prices, quantities or other measured characteristics, relative to their level for a defined reference period of location. It is usually expressed as a percentage above or below, but relative to, the base index of 100.

### Seasonally adjusted

Seasonal adjustment aids interpretation by removing effects associated with the time of the year or the arrangement of the calendar, which could obscure movements of interest. Seasonal adjustment removes regular variation from a time series. Regular variation includes effects due to month lengths, different activity near particular events, such as bank holidays and leap years.

### Sampling variability

Very few statistical revisions arise as a result of "errors" in the popular sense of the word. All estimates, by definition, are subject to statistical "error" but in this context the word refers to the uncertainty. Data in the bulletin are based on statistical samples and, as such, are subject to sampling variability. If many samples were drawn, each would give different results.

### Prices

All characteristics that determine the price of the products – including quantity of units sold, transport provided, rebates, service conditions, guarantee conditions and destination – are taken into account.

The appropriate price is the basic price, which excludes VAT and similar deductible taxes directly linked to turnover, as well as all duties and taxes on the goods and services invoiced by the unit, whereas any subsidies on products received by the producer are added.

Transport costs are included but only as part of the product specification.

An actual transaction price and not a list price are given to show the true development of price movements.

The output price index takes into account the quality changes in products.

The price collected in period t refers to orders booked during period t (time of the order), not when the commodities leave the factory gates.

For output prices on the non-domestic market, the price is calculated at national frontiers, FOB (free on board). This means that the seller pays for transportation of the goods to the port of shipment, plus loading costs, and the buyer pays freight, insurance, unloading costs and transportation from the port of destination to the factory.

## 12. Accuracy

Figures for the latest two months are provisional and the latest 5 months are subject to revisions in light of (a) late and revised respondent data and (b), for the seasonally adjusted series; revisions to seasonal adjustment factors are re-estimated every month. A routine seasonal adjustment review is normally conducted in the autumn each year.

Every 5 years, producer price indices are rebased, and their weights updated to reflect changes in the industry. The [rebasings article](#) referred to in background note 1, informs users about work underway to rebase PPIs from a 2005=100 basis to a 2010=100 basis, and update the weights. PPIs will move to a 2010=100 basis from autumn 2013. More information about the impact of rebasing will be published as the project progresses and will be drawn to users' attention in the regular statistical bulletin.

## 13. Publication policy

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Details of the policy governing the release of new data are available from our Media Relations Office. A list of the names of those given pre-publication access to the contents of this bulletin is available on the [Producer Price Index: Pre-Release Access List](#).

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# 1 Output Prices: Summary (not seasonally adjusted) - SIC 2007

2010=100, SIC2007

	Net Sector						Gross Sector					
	Output of manufactured products			All manufacturing excluding food, beverages, tobacco and petroleum			Food products, beverages and tobacco, including duty			Coke and refined petroleum products, including duty		
	Index (2010=100)	percentage change over		Index (2010=100)	percentage change over		Index (2010=100)	percentage change over		Index (2010=100)	percentage change over	
		1 mth	12 mths		1 mth	12 mths		1 mth	12 mths		1 mth	12 mths
	7200700000			7200799000			7111101280			7112190080		
	JVZ7			K3BI			K65A			K37Y		
2015 May	107.1	0.1	-1.6	105.9	-	0.1	111.8	-0.3	-2.5	95.7	2.1	-14.2
Jun	107.1	-	-1.5	105.9	-	0.1	111.9	0.1	-1.8	95.2	-0.5	-14.5
Jul	106.9	-0.2	-1.6	105.9	-	0.2	111.8	-0.1	-1.8	93.2	-2.1	-16.1
Aug	106.4	-0.5	-1.9	105.8	-0.1	-	111.2	-0.5	-1.8	89.7	-3.8	-18.8
Sep	106.3	-0.1	-1.8	105.9	0.1	0.2	110.7	-0.4	-1.9	88.6	-1.2	-19.2
Oct	106.2p	-0.1	-1.4	105.8p	-0.1	0.3	110.7p	-	-1.2	87.7p	-1.0	-17.8
Nov	106.0p	-0.2	-1.5	105.6p	-0.2	-0.1	110.5p	-0.2	-1.1	86.9p	-0.9	-16.5

p = provisional  
r = revised

Source: Office for National Statistics

# 2 Net Sector Input Prices, including Climate Change Levy<sup>1</sup>: summary (not seasonally adjusted) - SIC 2007

2010=100, SIC2007

	All manufacturing (materials and fuel purchased)			Materials purchased by manufacturing industry			Fuel purchased by manufacturing industry		
	Index (2010=100)	percentage change over		Index (2010=100)	percentage change over		Index (2010=100)	percentage change over	
		1 mth	12 mths		1 mth	12 mths		1 mth	12 mths
		6207000050			6207000010			6207000060	
	K646			K644			K647		
2015 May	99.1	-0.7	-11.9	97.1	-0.6	-13.0	116.4	-0.7	-3.2
Jun	96.9	-2.2	-13.0	94.7	-2.5	-14.5	115.4	-0.9	-1.5
Jul	95.5	-1.4	-12.8	93.1	-1.7	-14.4	115.7	0.3	0.9
Aug	92.6	-3.0	-14.6	90.3	-3.0	-16.1	111.5	-3.6	-3.1
Sep	93.1	0.5	-13.4	90.8	0.6	-14.7	113.2	1.5	-3.8
Oct	93.1p	-	-12.3	90.6p	-0.2	-13.1	113.8p	0.5	-7.0
Nov	91.6p	-1.6	-13.1	88.8p	-2.0	-13.8	115.6p	1.6	-9.2

<sup>1</sup> The Climate Change Levy was introduced in April 2001.

Source: Office for National Statistics

p = provisional  
r = revised

# 3 Net Sector Output Prices (not seasonally adjusted) - SIC 2007

2010=100, SIC2007

	Output of manufactured products			All manufacturing excluding food, beverages, tobacco and petroleum			All manufacturing, excluding duty <sup>1</sup>		
	Index (2010=100)	percentage change over		Index (2010=100)	percentage change over		Index (2010 = 100)	percentage change over	
		1 month	12 months		1 month	12 months		1 month	12 months
	7200700000			7200799000			7200700010		
	JVZ7			K3BI			JVZ8		
2012 May	107.0	-0.2	2.0	104.0	-	1.3	106.6	-0.1	1.9
Jun	106.6	-0.4	1.4	103.9	-0.1	1.0	106.2	-0.4	1.2
Jul	106.8	0.2	1.3	104.0	0.1	0.8	106.4	0.2	1.1
Aug	107.2	0.4	1.7	104.0	-	0.5	106.8	0.4	1.5
Sep	107.5	0.3	1.8	104.1	0.1	0.5	107.1	0.3	1.5
Oct	107.6	0.1	1.9	104.1	-	0.6	107.2	0.1	1.7
Nov	107.4	-0.2	1.5	104.1	-	0.7	107.2	-	1.6
Dec	107.2	-0.2	1.4	103.9	-0.2	0.4	107.0	-0.2	1.4
2013 Jan	107.6	0.4	1.6	104.2	0.3	0.8	107.4	0.4	1.6
Feb	108.1	0.5	1.7	104.4	0.2	0.7	107.9	0.5	1.7
Mar	108.4	0.3	1.5	104.7	0.3	0.9	108.2	0.3	1.5
Apr	108.3	-0.1	1.0	104.8	0.1	0.8	108.2	-	1.4
May	108.3	-	1.2	104.8	-	0.8	108.2	-	1.5
Jun	108.4	0.1	1.7	104.8	-	0.9	108.3	0.1	2.0
Jul	108.7	0.3	1.8	104.9	0.1	0.9	108.5	0.2	2.0
Aug	108.8	0.1	1.5	104.9	-	0.9	108.6	0.1	1.7
Sep	108.8	-	1.2	104.9	-	0.8	108.6	-	1.4
Oct	108.5	-0.3	0.8	104.9	-	0.8	108.4	-0.2	1.1
Nov	108.3	-0.2	0.8	104.8	-0.1	0.7	108.3	-0.1	1.0
Dec	108.3	-	1.0	104.9	0.1	1.0	108.2	-0.1	1.1
2014 Jan	108.6	0.3	0.9	105.4	0.5	1.2	108.5	0.3	1.0
Feb	108.7	0.1	0.6	105.6	0.2	1.1	108.6	0.1	0.6
Mar	108.8	0.1	0.4	105.8	0.2	1.1	108.9	0.3	0.6
Apr	108.9	0.1	0.6	105.8	-	1.0	108.9	-	0.6
May	108.8	-0.1	0.5	105.8	-	1.0	108.8	-0.1	0.6
Jun	108.7	-0.1	0.3	105.8	-	1.0	108.6	-0.2	0.3
Jul	108.6	-0.1	-0.1	105.7	-0.1	0.8	108.6	-	0.1
Aug	108.5	-0.1	-0.3	105.8	0.1	0.9	108.5	-0.1	-0.1
Sep	108.3	-0.2	-0.5	105.7	-0.1	0.8	108.4	-0.1	-0.2
Oct	107.7	-0.6	-0.7	105.5	-0.2	0.6	107.9	-0.5	-0.5
Nov	107.6	-0.1	-0.6	105.7	0.2	0.9	107.8	-0.1	-0.5
Dec	107.1	-0.5	-1.1	105.7	-	0.8	107.3	-0.5	-0.8
2015 Jan	106.6	-0.5	-1.8	105.9	0.2	0.5	107.0	-0.3	-1.4
Feb	106.8	0.2	-1.7	105.9	-	0.3	107.1	0.1	-1.4
Mar	106.9	0.1	-1.7	105.9	-	0.1	107.3	0.2	-1.5
Apr	107.0	0.1	-1.7	105.9	-	0.1	107.4	0.1	-1.4
May	107.1	0.1	-1.6	105.9	-	0.1	107.4	-	-1.3
Jun	107.1	-	-1.5	105.9	-	0.1	107.4	-	-1.1
Jul	106.9	-0.2	-1.6	105.9	-	0.2	107.3	-0.1	-1.2
Aug	106.4	-0.5	-1.9	105.8	-0.1	-	106.8	-0.5	-1.6
Sep	106.3	-0.1	-1.8	105.9	0.1	0.2	106.7	-0.1	-1.6
Oct	106.2p	-0.1	-1.4	105.8p	-0.1	0.3	106.6p	-0.1	-1.2
Nov	106.0p	-0.2	-1.5	105.6p	-0.2	-0.1	106.5p	-0.1	-1.2

1 Series JVZ8 excludes excise duties payable on tobacco products, alcoholic liquor and petroleum products.

Source: Office for National Statistics

*p = provisional*  
*r = revised*

# 4 Output Prices: Detailed by product (not seasonally adjusted) - SIC 2007

2010=100, SIC2007

								Percentage change		Percentage change	
								1 month		12 months	
			2015 Jul	2015 Aug	2015 Sep	2015 Oct	2015 Nov	2015 Oct	2015 Nov	2015 Oct	2015 Nov
<b>Net sector</b>											
Output of manufactured products	JVZ7	7200700000	106.9	106.4	106.3	106.2p	106.0p	-0.1	-0.2	-1.4	-1.5
All manufacturing, excluding duty	JVZ8	7200700010	107.3	106.8	106.7	106.6p	106.5p	-0.1	-0.1	-1.2	-1.2
All manufacturing, excluding food, beverages, tobacco and petroleum	K3BI	7200799000	105.9	105.8	105.9	105.8p	105.6p	-0.1	-0.2	0.3	-0.1
<b>Gross Sector</b>											
Food products, beverages and tobacco, including duty	K65A	7111101280	111.8	111.2	110.7	110.7p	110.5p	-	-0.2	-1.2	-1.1
Food products	K37L	7112100000	110.9	110.3	109.7	109.6p	109.4p	-0.1	-0.2	-1.7	-1.5
Tobacco products, including duty	K37Q	7112120080	143.4	143.4	143.4	145.5p	146.0p	1.5	0.3	3.6	3.9
Alcoholic beverages, including duty	MC6A	7229110080	111.8	B111.0	B110.5	B110.3p	B110.2p	-0.2	-0.1	-1.3	-1.3
Soft drinks, mineral waters and other bottled waters	JU5C	1107000000	105.2	B104.8	B105.5	B105.5p	B105.4p	-	-0.1	4.7	3.6
Textiles	K37R	7112130000	111.7	111.6r	111.8	112.0p	112.1p	0.2	0.1	-0.6	-0.5
Wearing apparel	K37S	7112140000	112.3	112.9	112.9	112.9p	112.2p	-	-0.6	1.3	1.0
Leather and related products	K37T	7112150000	122.2	121.7	120.6	119.4p	119.4p	-1.0	-	-3.6	-4.0
Wood and products of wood and cork, except furniture	K37U	7112160000	115.0	114.8	114.5	114.5p	114.5p	-	-	-0.3	-0.2
Paper and paper products	K37V	7112170000	106.8	106.1	106.1	105.9p	105.8p	-0.2	-0.1	-0.5	-0.6
Printing and recording services	K37W	7112180000	100.2	100.2	100.3	100.3p	100.5p	-	0.2	0.7	0.9
Coke and refined petroleum products, including duty	K37Y	7112190080	93.2	89.7	88.6	87.7p	86.9p	-1.0	-0.9	-17.8	-16.5
Chemicals and chemical products	K37Z	7112200000	102.1	101.3	101.0	100.3p	99.7p	-0.7	-0.6	-3.7	-4.2
Basic pharmaceutical products and pharmaceutical preparations	K382	7112210000	103.8	103.8	103.8	103.9p	103.8p	0.1	-0.1	0.9	1.0
Rubber and plastic products	K383	7112220000	108.0	108.1r	108.2	108.3p	108.0p	0.1	-0.3	-0.2	-0.4
Other non-metallic mineral products	K384	7112230000	111.7	111.7r	111.7	111.8p	111.7p	0.1	-0.1	2.1	1.8
Basic metals	K385	7112240000	91.0	89.8	88.6	88.3p	88.4p	-0.3	0.1	-11.1	-10.9
Fabricated metal products, except machinery and equipment	K386	7112250000	106.0	106.0	105.9	105.9p	105.8p	-	-0.1	0.7	0.6
Computer, electronic and optical products	K387	7112260000	97.8	97.9	98.0	98.0p	97.9p	-	-0.1	0.4	0.3
Electrical equipment	K388	7112270000	103.9	104.0	103.9	103.8p	103.9p	-0.1	0.1	-0.3	-0.1
Machinery and equipment n.e.c.	K389	7112280000	111.2	111.0	111.2	111.2p	111.2p	-	-	0.9	0.8
Motor vehicles, trailers and semi-trailers	K38A	7112290000	100.1	100.2	100.6	100.7p	100.2p	0.1	-0.5	-0.8	-1.3
Other transport equipment	K38B	7112300000	108.6	108.6	108.7	108.7p	109.0p	-	0.3	0.8	1.0
Furniture	K38C	7112310000	108.9	109.1	109.1	109.1p	109.4p	-	0.3	1.5	1.7
Other manufactured goods	K38D	7112320000	109.5	108.2	108.2	108.3p	108.8p	0.1	0.5	0.4	0.7
Repair and installation services of machinery and equipment	K38E	7112330000	116.9	117.1	117.5	117.5p	117.7p	-	0.2	4.4	4.2

p = provisional  
r = revised

Source: Office for National Statistics

B: These index values are considered less reliable mainly due to lack of market coverage.

# 5 Net Sector Input Prices, including Climate Change Levy<sup>1</sup>: Materials and Fuels purchased - SIC 2007

2010=100, SIC2007

	All manufacturing			All manufacturing excluding food, beverages, tobacco and petroleum industries					
	not seasonally adjusted			not seasonally adjusted			seasonally adjusted		
	Index (2010=100)	percentage change over		Index (2010=100)	percentage change over		Index (2010=100)	percentage change over	
		1 month	12 months		1 month	12 months		1 month	12 months
	6207000050			6207990050			6207998950		
	K646			K655			K658		
2012 May	115.5	-2.4	0.3	108.9	-1.1	-0.5	108.6	-0.6	-0.4
Jun	113.4	-1.8	-1.7	108.4	-0.5	-1.0	108.8	0.2	-1.0
Jul	113.1	-0.3	-2.5	107.3	-1.0	-2.5	108.0	-0.7	-2.4
Aug	115.1	1.8	0.7	107.1	-0.2	-2.6	108.0	-	-2.7
Sep	115.0	-0.1	-1.2	107.2	0.1	-3.1	108.2	0.2	-3.0
Oct	115.6	0.5	-0.2	108.0	0.7	-2.1	108.6	0.4	-2.1
Nov	116.0	0.3	-0.2	108.6	0.6	-1.6	108.9	0.3	-1.7
Dec	116.3	0.3	0.4	108.7	0.1	-1.2	108.9	-	-1.0
2013 Jan	117.7	1.2	1.6	109.9	1.1	-0.2	109.6	0.6	-
Feb	120.7	2.5	2.0	112.1	2.0	1.0	111.2	1.5	1.1
Mar	120.9	0.2	0.9	112.7	0.5	1.6	111.3	0.1	1.7
Apr	118.6	-1.9	0.3	111.1	-1.4	0.9	110.4	-0.8	1.0
May	117.1	-1.3	1.4	109.3	-1.6	0.4	109.2	-1.1	0.6
Jun	116.8	-0.3	3.0	108.4	-0.8	-	108.9	-0.3	0.1
Jul	118.4	1.4	4.7	109.5	1.0	2.1	110.1	1.1	1.9
Aug	117.2	-1.0	1.8	108.6	-0.8	1.4	109.5	-0.5	1.4
Sep	116.1	-0.9	1.0	107.6	-0.9	0.4	108.5	-0.9	0.3
Oct	115.6	-0.4	-	107.8	0.2	-0.2	108.2	-0.3	-0.4
Nov	114.9	-0.6	-0.9	107.5	-0.3	-1.0	107.7	-0.5	-1.1
Dec	115.3	0.3	-0.9	107.2	-0.3	-1.4	107.2	-0.5	-1.6
2014 Jan	114.3	-0.9	-2.9	106.8	-0.4	-2.8	106.5	-0.7	-2.8
Feb	113.7	-0.5	-5.8	106.4	-0.4	-5.1	105.8	-0.7	-4.9
Mar	113.3	-0.4	-6.3	106.6	0.2	-5.4	105.4	-0.4	-5.3
Apr	112.3	-0.9	-5.3	105.5	-1.0	-5.0	105.1	-0.3	-4.8
May	112.5	0.2	-3.9	105.0	-0.5	-3.9	105.1	-	-3.8
Jun	111.4	-1.0	-4.6	104.6	-0.4	-3.5	105.1	-	-3.5
Jul	109.5	-1.7	-7.5	103.8	-0.8	-5.2	104.8	-0.3	-4.8
Aug	108.4	-1.0	-7.5	104.3	0.5	-4.0	105.1	0.3	-4.0
Sep	107.5	-0.8	-7.4	104.7	0.4	-2.7	105.5	0.4	-2.8
Oct	106.2	-1.2	-8.1	105.2	0.5	-2.4	105.3	-0.2	-2.7
Nov	105.4	-0.8	-8.3	105.7	0.5	-1.7	105.4r	0.1	-2.1
Dec	101.9	-3.3	-11.6	104.7	-0.9	-2.3	104.4	-0.9	-2.6
2015 Jan	98.2	-3.6	-14.1	103.4	-1.2	-3.2	103.2	-1.1	-3.1
Feb	98.4	0.2	-13.5	102.1	-1.3	-4.0	101.6	-1.6	-4.0
Mar	98.5	0.1	-13.1	101.9	-0.2	-4.4	100.9	-0.7	-4.3
Apr	99.8	1.3	-11.1	101.5	-0.4	-3.8	101.0	0.1	-3.9
May	99.1	-0.7	-11.9	100.8	-0.7	-4.0	100.8	-0.2	-4.1
Jun	96.9	-2.2	-13.0	99.9	-0.9	-4.5	100.3	-0.5	-4.6
Jul	95.5	-1.4	-12.8	98.9	-1.0	-4.7	99.7r	-0.6	-4.9
Aug	92.6	-3.0	-14.6	97.9	-1.0	-6.1	98.6r	-1.1	-6.2
Sep	93.1	0.5	-13.4	98.7	0.8	-5.7	99.2	0.6	-6.0
Oct	93.1p	-	-12.3	98.1p	-0.6	-6.7	97.9p	-1.3	-7.0
Nov	91.6p	-1.6	-13.1	96.9p	-1.2	-8.3	96.6p	-1.3	-8.3

1 The Climate Change Levy was introduced in April 2001.

Source: Office for National Statistics

*p* = provisional  
*r* = revised

# 6 Input Prices, excluding Climate Change Levy<sup>1</sup>: Materials and Fuels purchased by selected industries (not seasonally adjusted) - SIC 2007

2010=100, SIC2007

								% change 1 month		% change 12 months	
			2015	2015	2015	2015	2015	2015	2015	2015	2015
			Jul	Aug	Sep	Oct	Nov				
<b>Gross sector</b>											
Other mining & quarrying products <sup>2</sup>	MC3K	6107208000	113.0	112.3	112.2	112.0p	111.7p	-0.2	-0.3	-0.9	-1.2
Manufacture of food products, beverages, tobacco	MC35	6107110120	107.4	106.4	106.3	106.6p	106.5p	0.3	-0.1	-2.8	-3.2
Preserved meat & meat products	MC3V	6107310100	107.7	106.6	106.4	106.8p	106.6p	0.4	-0.2	-2.5	-3.3
Fish, crustaceans, molluscs, fruit & vegetables	MB4X	6107310230	106.1r	104.2r	103.7	104.7p	106.3p	1.0	1.5	-3.0	-2.2
Vegetable & animal oils and fats	MC3W	6107310400	110.5r	109.5r	108.9	108.4p	108.4p	-0.5	-	-6.1	-6.0
Dairy products	MC3X	6107310500	104.5	103.3	103.7	104.1p	104.2p	0.4	0.1	-3.9	-4.5
Grain mill products, starches & starch products	MC3Y	6107310600	106.4	105.6	105.8	106.2p	106.1p	0.4	-0.1	-2.9	-3.5
Bakery & farinaceous products	MC3Z	6107310700	108.3	107.6	107.5	107.4p	107.0p	-0.1	-0.4	-3.2	-3.3
Other food products	MB4Y	6107310800	107.7	106.8	106.8	106.7p	106.5p	-0.1	-0.2	-2.4	-2.6
Animal feeds	MC42	6107310900	108.2	107.5	107.4	107.4p	107.1p	-	-0.3	-3.0	-3.2
Alcoholic Beverages	MB55	6107411016	106.9	106.0	106.1	106.1p	105.8p	-	-0.3	-2.8	-3.2
Soft drinks; mineral waters & other bottled waters	MC4D	6107411070	107.2r	106.8	106.8	106.6p	106.2p	-0.2	-0.4	-1.3	-1.3
Tobacco products	MC3M	6107212000	137.5	137.0	137.1	140.5p	142.2p	2.5	1.2	1.2	2.4
Manufacture of textiles & textile products; clothing	MC36	6107113140	108.1	107.7r	108.0	107.9p	107.7p	-0.1	-0.2	-2.4	-2.6
Textiles	MB4P	6107213000	107.0	106.4	106.6	106.4p	106.1p	-0.2	-0.3	-2.9	-3.3
Wearing apparel	MC3N	6107214000	109.8	109.5	109.9	110.1p	109.9p	0.2	-0.2	-1.4	-1.8
Manufacture of leather & related products	MC3O	6107215000	111.3	110.5	109.9	109.6p	109.0p	-0.3	-0.5	-2.1	-2.9
Manufacture of wood & wood products	MC3P	6107216000	110.7r	110.1r	110.1	109.9p	109.7p	-0.2	-0.2	-2.1	-2.3
Manufacture of pulp, paper & paper products, recording media & printing services	MC39	6107117180	105.6	104.9	105.1	105.0p	104.9p	-0.1	-0.1	-2.1	-2.5
Pulp, paper & paper products	MB4Q	6107217000	105.8	104.9	105.1	105.1p	104.9p	-	-0.2	-2.7	-3.4
Printing & recording services	MC3Q	6107218000	105.3	104.9	105.0	105.0p	104.9p	-	-0.1	-1.1	-1.5
Manufacture of coke & refined petroleum products	MC3R	6107219000	77.5	67.6	67.4	68.3p	64.3p	1.3	-5.9	-36.7	-36.6
Manufacture of chemicals, chemical products & man-made fibres	MC3B	6107120000	100.7	99.5	99.2	98.3p	97.3p	-0.9	-1.0	-6.6	-7.2
Paints, varnishes & similar coatings, printing ink & mastics	MC43	6107320300	102.6	101.8r	101.5	100.8p	99.7p	-0.7	-1.1	-4.9	-5.9
Soaps, detergents, cleaning & polishing preparations perfumes & toilet preparations	MC44	6107320400	103.7	103.3	103.3	103.0p	102.6p	-0.3	-0.4	-2.6	-2.9
Other chemical products	MC45	6107320500	103.3r	102.0	101.8	101.4p	100.6p	-0.4	-0.8	-6.0	-6.6
Industrial gases; other basic inorganic chemicals; fertilisers & nitrogen compounds	MC4E	6107420910	104.4	102.9r	102.5	102.0p	100.9p	-0.5	-1.1	-6.0	-6.8
Petrochemicals & man made fibres	MC4F	6107420920	99.2	98.0	97.5	96.5p	95.3p	-1.0	-1.2	-7.1	-7.9
Dyes & pigments; pesticides & other agrochemical products	MC4G	6107420930	100.9	98.3	98.6	98.4p	96.8p	-0.2	-1.6	-10.0	-11.0
Manufacture of basic pharmaceutical products & pharmaceutical preparations	MC3S	6107221000	102.2	101.8	101.7	101.5p	101.3p	-0.2	-0.2	-2.2	-2.5
Manufacture of rubber & plastic products	MB4R	6107222000	102.0	101.4	101.2	100.6p	100.0p	-0.6	-0.6	-4.4	-4.8
Manufacture of cement, lime & plaster	MC46	6107323560	110.1	108.9	109.1	108.8p	108.6p	-0.3	-0.2	-2.1	-2.7
Manufacture of glass, refractory, clay, other porcelain, ceramic stone products	MB4Z	6107323990	107.1	105.9	105.9	105.8p	105.5p	-0.1	-0.3	-3.6	-4.4

1 Climate Change Levy is excluded from the detailed industry input index, (see background notes of this Statistical Bulletin for more detail).

Source: Office for National Statistics

2 Indices includes the Aggregate Levy which was introduced in April 2002.

p = provisional  
r = revised

# 6 Input Prices, excluding Climate Change Levy<sup>1</sup>: Materials and Fuels purchased by selected industries (not seasonally adjusted) - SIC 2007

continued

2010=100, SIC2007

			2015 Jul	2015 Aug	2015 Sep	2015 Oct	2015 Nov	% change 1 month		% change 12 months	
								2015 Oct	2015 Nov	2015 Oct	2015 Nov
Manufacture of basic metals & fabricated products	<b>MC3F</b>	6107124250	95.2	93.5r	93.1	93.0p	92.3p	-0.1	-0.8	-9.7	-10.1
Basic iron, steel & alloys: tubes, pipes, hollow profiles	<b>MC47</b>	6107324130	92.0	89.8	89.6	89.0p	88.3p	-0.7	-0.8	-13.9	-14.1
Other basic metals & casting	<b>MB52</b>	6107324450	92.9	89.6	88.8	89.4p	88.2p	0.7	-1.3	-13.6	-14.2
Weapons & ammunition	<b>MC48</b>	6107325400	103.1	102.7	102.9	102.8p	102.7p	-0.1	-0.1	-0.9	-1.3
Fabricated metal products, excluding machinery & equipment & weapons & ammunition	<b>MB53</b>	6107325990	96.8	95.8	95.5	95.3p	94.8p	-0.2	-0.5	-7.0	-7.6
Manufacture of computer, electronic and optical products, electrical equipment	<b>MC3G</b>	6107126270	101.8	101.5	101.6	101.4p	101.2p	-0.2	-0.2	-1.9	-2.2
Computer, electronic & optical products	<b>MB4S</b>	6107226000	102.2	102.0	102.2	102.1p	102.0p	-0.1	-0.1	-1.0	-1.3
Electrical equipment	<b>MB4T</b>	6107227000	101.2	100.7	100.6	100.3p	100.0p	-0.3	-0.3	-3.4	-3.7
Manufacture of machinery & equipment n.e.c	<b>MB4U</b>	6107228000	101.9r	101.4	101.4	101.2p	100.9p	-0.2	-0.3	-3.2	-3.5
Manufacturing of motor vehicles & other transport equipment	<b>MC3I</b>	6107129300	101.0	101.0	101.3	100.5p	100.1p	-0.8	-0.4	-2.6	-3.1
Motor vehicles, trailers & semi trailers	<b>MB4V</b>	6107229000	99.3	99.4	99.7	98.9p	98.3p	-0.8	-0.6	-3.2	-3.8
Ships & boats	<b>MC49</b>	6107330100	105.3	104.8	105.0	104.9p	104.8p	-0.1	-0.1	-1.8	-2.1
Aircraft & spacecraft & related machinery	<b>MC4A</b>	6107330300	106.6	106.4	106.6	105.8p	105.9p	-0.8	0.1	-0.6	-0.7
Other transport equipment	<b>MB54</b>	6107330990	105.1	104.9	105.1	104.8p	104.7p	-0.3	-0.1	-0.3	-0.5
Manufacture of other manufactured goods n.e.c	<b>MC3J</b>	6107131330	105.6	105.3	105.4	105.0p	104.9p	-0.4	-0.1	-1.6	-1.9
Furniture	<b>MC3T</b>	6107231000	104.0	103.6r	103.5	103.1p	102.8p	-0.4	-0.3	-3.5	-3.7
Other manufacturing	<b>MB4W</b>	6107232000	103.8	103.4	103.3	103.2p	103.0p	-0.1	-0.2	-1.9	-2.2
Repair of maintenance of ships & boats	<b>MC4H</b>	6107433150	106.3	106.0	106.2	106.1p	106.0p	-0.1	-0.1	-1.1	-1.6
Repair & maintenance services of aircraft & spacecraft	<b>MC4I</b>	6107433160	114.4	114.4	114.9	114.1p	114.4p	-0.7	0.3	2.2	2.1
Other repair; installation	<b>MB56</b>	6107433990	102.0	101.7	101.9	101.7p	101.4p	-0.2	-0.3	-2.0	-2.4

1 Climate Change Levy is excluded from the detailed industry input index, (see background notes of this Statistical Bulletin for more detail).

Source: Office for National Statistics

2 Indices includes the Aggregate Levy which was introduced in April 2002.

*p = provisional*  
*r = revised*

# 7 Input Prices: detailed by commodity (not seasonally adjusted) - SIC 2007

2010=100, SIC2007

			2015 Jul	2015 Aug	2015 Sep	2015 Oct	2015 Nov	% change 1 month		% change 12 months	
								2015 Oct	2015 Nov	2015 Oct	2015 Nov
<b>Fuel incl. CCL<sup>1</sup></b>	<b>K647</b>	6207000060	115.7	111.5	113.2	113.8p	115.6p	0.5	1.6	-7.0	-9.2
Domestic coal & lignite incl. CCL	MC78	7167205005	128.6	92.0	133.1	116.1p	113.2p	-12.8	-2.5	-13.1	-28.4
Imported coal & lignite incl. CCL	MC8U	7169205005	73.9	69.7	69.8	73.2p	71.8p	4.9	-1.9	-7.9	-9.6
Electricity incl. CCL	MC8F	7167335105	115.2	114.2	115.4	114.7p	115.4p	-0.6	0.6	-1.9	-4.2
Gas incl. CCL	MC8H	7167335235	117.0	108.3	109.9	113.1p	116.8p	2.9	3.3	-14.1	-15.9
<b>Fuel excl. CCL</b>	<b>K645</b>	6207000020	116.1	111.8	113.4	113.8p	115.1p	0.4	1.1	-7.6	-9.9
Domestic coal & lignite excl. CCL	MC77	7167205000	130.0	89.6	135.0	116.2p	113.0p	-13.9	-2.8	-14.2	-30.5
Imported coal & lignite excl. CCL	MC8T	7169205000	73.1	68.8	69.0	72.4p	70.9p	4.9	-2.1	-8.4	-10.1
Electricity excl. CCL	MC8E	7167335100	116.1	114.9	115.7	114.9p	115.6p	-0.7	0.6	-3.0	-4.8
Gas excl. CCL	MC8G	7167335230	117.3	108.7	110.3	113.4p	115.9p	2.8	2.2	-14.4	-16.9
<b>Crude petroleum oils &amp; metal ores</b>	<b>MC4P</b>	6207008700	73.3	62.1	62.1	63.3p	58.7p	1.9	-7.3	-40.7	-40.9
Domestic crude oil & metal ores	MC79	7167206070	70.6	57.8	60.3	60.7p	56.4p	0.7	-7.1	-41.8	-42.2
Imported crude oil & metal ores	MC8V	7169206070	74.5	64.2	62.9	64.5p	59.8p	2.5	-7.3	-40.2	-40.3
<b>Food manufacturing:</b>											
<b>Home produced food materials</b>	<b>MB57</b>	6207008100	101.6r	100.7r	100.4	99.8p	100.4p	-0.6	0.6	-4.7	-4.5
Agricultural crop products	MC74	7167201000	102.1r	101.5	101.5	100.5p	100.6p	-1.0	0.1	-4.7	-4.7
Fish & other fish products	MC76	7167203000	93.7r	87.6r	83.6	88.2p	98.4p	5.5	11.6	-5.0	2.0
<b>Imported food materials</b>	<b>MC4O</b>	6207008600	107.1	104.6	106.0	108.6p	107.9p	2.5	-0.6	-2.0	-4.9
Agricultural crop products	MC8Q	7169201000	110.0	105.6	108.4	116.0p	117.7p	7.0	1.5	0.7	-3.5
Fish & fish products	MC8S	7169203000	124.0	124.4	126.8	126.7p	125.9p	-0.1	-0.6	0.9	-0.9
Meat & meat products	MC9F	7169310100	100.4	99.6	100.1	99.1p	96.8p	-1.0	-2.3	-3.1	-3.5
Processed fish & fish products; fruit & vegetables	MC9G	7169310230	117.6	116.6	118.2	115.2p	113.7p	-2.5	-1.3	-1.7	-1.6
Vegetable, animal oils & fats	MC9H	7169310400	96.7	94.2	93.2	92.0p	88.2p	-1.3	-4.1	-10.4	-17.3
Dairy products	MC9I	7169310500	99.0	99.2	99.6	98.9p	96.4p	-0.7	-2.5	-3.1	-3.6
Grain mill products & starches	MC9J	7169310600	109.3	108.6	109.2	107.7p	105.3p	-1.4	-2.2	-3.3	-4.3
Bakery & farinaceous products	MC9K	7169310700	102.8	102.7	103.2	102.3p	99.8p	-0.9	-2.4	-3.2	-3.8
Other food products	MC9L	7169310800	107.1	106.4	106.9	105.8p	103.6p	-1.0	-2.1	-2.8	-3.6
Prepared animal feeds	MC9M	7169310900	103.9	103.6	104.1	103.0p	100.6p	-1.1	-2.3	-3.3	-3.9
<b>Other home produced materials</b>	<b>MC4J</b>	6207008200	118.8r	118.6r	118.3	118.2p	118.4p	-0.1	0.2	1.5	2.3
Forestry products	MC75	7167202000	153.2r	153.2r	153.2	153.2p	153.2p	-	-	1.9	1.9
Other mining & quarrying products	MC7A	7167208000	117.1	116.9r	116.4	116.2p	116.5p	-0.2	0.3	2.7	4.1
Water collection, treatment & supply	MC7R	7167236000	114.8	114.8	114.8	114.8p	114.8p	-	-	-2.1	-2.1
<b>Imported metals</b>	<b>MC4K</b>	6207008300	83.3r	80.8	80.9	80.9p	77.8p	-	-3.8	-16.8	-19.7
Basic iron, steel & ferro alloys, tubes & pipes	MC9S	7169324130	86.3r	84.7r	84.2	83.0p	80.7p	-1.4	-2.8	-17.3	-19.0
Other basic metals & casting	MC9T	7169324450	81.8r	78.9	79.2	79.9p	76.3p	0.9	-4.5	-16.4	-20.2
<b>Imported chemicals</b>	<b>MC4L</b>	6207008400	100.4	100.2	100.6	100.3p	98.2p	-0.3	-2.1	-5.6	-7.4
Paints, varnishes & coatings, printing inks & other mastics	MC9N	7169320300	94.6	95.1	96.3	96.4p	93.9p	0.1	-2.6	-7.0	-9.5
Soap, detergents, cleaning & polishing preparations, perfumes & toilet preparations	MC9O	7169320400	93.8	94.1	94.7	94.8p	93.4p	0.1	-1.5	-5.3	-7.2

1 The Climate Change Levy was introduced in April 2001.

Source: Office for National Statistics

p = provisional  
r = revised

# 7 Input Prices: detailed by commodity (not seasonally adjusted) - SIC 2007

continued

2010=100, SIC2007

			2015 Jul	2015 Aug	2015 Sep	2015 Oct	2015 Nov	% change 1 month		% change 12 months	
								2015 Oct	2015 Nov	2015 Oct	2015 Nov
Other chemical products	MC9P	7169320500	99.6	99.8	100.8	100.5p	98.7p	-0.3	-1.8	-5.2	-6.8
Industrial gases, inorganic chemicals, fertilisers & nitrogen compounds	MCA3	7169420910	109.8	109.3	110.5	109.9p	101.5p	-0.5	-7.6	-5.5	-13.5
Petrochemicals & man made fibres	MCA4	7169420920	97.5	97.3	97.3	97.0p	95.3p	-0.3	-1.8	-6.4	-7.7
Dyes & pigments; pesticides & other agro-chemical products	MCA5	7169420930	98.6	98.8	100.3	100.2p	98.1p	-0.1	-2.1	-5.0	-7.3
Basic pharmaceutical products & pharmaceutical preparations	MC97	7169221000	92.0	92.3	92.1	92.0p	91.4p	-0.1	-0.7	-4.0	-5.3
Rubber & plastic products	MC98	7169222000	107.6	107.6	108.3	108.1p	107.3p	-0.2	-0.7	-3.8	-4.6
<b>Other imported parts &amp; equipment</b>	MC4N	6207008520	95.2	96.2	97.4	95.3p	94.5p	-2.2	-0.8	-2.9	-4.0
Computer, electronic & optical products	MC99	7169226000	110.2	110.4	111.3	111.3p	111.5p	-	0.2	1.8	1.4
Electrical equipment	MC9A	7169227000	98.5	99.0	100.0	99.1p	98.6p	-0.9	-0.5	-2.5	-3.8
Machinery & equipment n.e.c	MC9B	7169228000	97.3	97.7	98.9	98.8p	97.7p	-0.1	-1.1	-2.4	-3.7
Motor vehicles, trailers & semi-trailers	MC9C	7169229000	92.3	96.4	98.1	90.8p	89.0p	-7.4	-2.0	-6.6	-8.5
Weapons & ammunition	MC9U	7169325400	75.1	75.0	76.4	76.6p	75.9p	0.3	-0.9	-3.4	-4.3
Fabricated metal products	MC9V	7169325990	73.7	73.4	74.8	75.1p	74.3p	0.4	-1.1	-3.5	-4.6
Ships & boats	MC9W	7169330100	105.2	105.3	105.0	105.2p	105.0p	0.2	-0.2	-0.9	-1.1
Aircraft, spacecraft & related machinery	MC9X	7169330300	104.3	104.3	104.8	99.1p	99.5p	-5.4	0.4	-5.8	-5.2
Other transport equipment	MC9Y	7169330990	102.9	102.9	103.2	100.7p	100.8p	-2.4	0.1	-3.9	-3.7
<b>Other imports</b>	MC4M	6207008510	103.7	103.6	104.4	104.4p	103.3p	-	-1.1	-2.3	-3.6
Forestry products	MC8R	7169202000	113.8	111.0	111.5	110.2p	110.3p	-1.2	0.1	-5.7	-5.5
Other mining & quarrying products	MC8W	7169208000	126.0	126.1	125.3	125.0p	123.2p	-0.2	-1.4	0.1	-3.2
Tobacco products	MC8X	7169212000	83.1	83.1	84.8	84.9p	82.3p	0.1	-3.1	-13.6	-16.4
Textiles	MC8Y	7169213000	105.8	105.8	107.4	107.3p	106.4p	-0.1	-0.8	-3.0	-4.4
Wearing apparel	MC8Z	7169214000	100.2	101.0	103.0	106.3p	103.3p	3.2	-2.8	-1.5	-4.8
Leather & related leather products	MC92	7169215000	106.1	106.6	107.9	107.8p	106.5p	-0.1	-1.2	2.7	-1.4
Wood & wooden products	MC93	7169216000	98.8	97.9	98.3	98.1p	96.9p	-0.2	-1.2	-4.8	-6.3
Paper & paper products	MC94	7169217000	97.4	97.7	98.0	98.2p	97.6p	0.2	-0.6	-2.8	-3.6
Printing & recording services	MC95	7169218000	89.2	89.2	91.0	91.1p	88.4p	0.1	-3.0	-7.4	-10.3
Coke & refined petroleum products	MC96	7169219000	118.0	118.7	121.1	121.0p	119.3p	-0.1	-1.4	-1.5	-0.9
Furniture	MC9D	7169231000	60.0	60.1	59.7	56.9p	56.4p	-4.7	-0.9	-7.9	-8.9
Glass, refractory, clay other porcelain, ceramic stone & abrasive products	MC9R	7169323990	99.1	99.3	100.7	100.7p	99.2p	-	-1.5	-1.4	-3.2
Cement, lime, plaster & articles of concrete, cement & plaster	MC9Q	7169323560	99.0	99.3r	100.6	100.6p	99.1p	-	-1.5	-1.4	-3.2
Alcoholic beverages	MC9Z	7169411016	91.7	92.4	93.7	93.7p	91.4p	-	-2.5	-4.5	-7.2
Soft drinks, mineral water & other bottled waters	MCA2	7169411070	97.0	98.0	99.7	99.7p	96.3p	-	-3.4	-5.9	-9.4
Other manufactured goods n.e.c	MC9E	7169232000	99.0	97.5	98.4	98.1p	98.0p	-0.3	-0.1	-3.3	-4.4
<b>Imported materials</b>											
All imported materials - total (incl Crude Oil)	K64F	6207008500	92.9	90.5	90.9	90.8p	88.7p	-0.1	-2.3	-12.5	-13.5

1 The Climate Change Levy was introduced in April 2001.

Source: Office for National Statistics

*p = provisional*  
*r = revised*

# 8R Output Prices: revisions (not seasonally adjusted) - SIC 2007

2010=100, SIC2007

	Output of manufactured products			All manufacturing excluding food, beverages, tobacco and petroleum		
	Index (2010=100)	percentage change over		Index (2010=100)	percentage change over	
		1 month	12 months		1 month	12 months
	7200700000			7200799000		
	JVZ7			K3BI		
2012 May	-	-	-	-	-	-
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-
Oct	-	-	-	-	-	-
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
2013 Jan	-	-	-	-	-	-
Feb	-	-	-	-	-	-
Mar	-	-	-	-	-	-
Apr	-	-	-	-	-	-
May	-	-	-	-	-	-
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-
Oct	-	-	-	-	-	-
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
2014 Jan	-	-	-	-	-	-
Feb	-	-	-	-	-	-
Mar	-	-	-	-	-	-
Apr	-	-	-	-	-	-
May	-	-	-	-	-	-
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-
Oct	-	-	-	-	-	-
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
2015 Jan	-	-	-	-	-	-
Feb	-	-	-	-	-	-
Mar	-	-	-	-	-	-
Apr	-	-	-	-	-	-
May	-	-	-	-	-	-
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-
Oct	-0.1	-0.1	-0.1	-	-	-
Nov	..	..	..	..	..	..

Please see Statistical Bulletin section entitled 'Revisions' for further information.

Source: Office for National Statistics

# 9R Net Sector Input Prices, including Climate Change Levy<sup>1</sup>: revisions - SIC 2007

2010=100, SIC2007

	All manufacturing industries			All manufacturing excluding food, beverages, tobacco and petroleum industries					
	not seasonally adjusted			not seasonally adjusted			seasonally adjusted		
	Index (2010=100)	percentage change over		Index (2010=100)	percentage change over		Index (2010=100)	percentage change over	
		1 month	12 months		1 month	12 months		1 month	12 months
	6207000050 K646			6207990050 K655			6207998950 K658		
2012 May	-	-	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-	-	-
2013 Jan	-	-	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-	-	-
Apr	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-	-	-
2014 Jan	-	-	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-	-	-
Apr	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	0.1	0.1	0.1
Dec	-	-	-	-	-	-	-	-	-
2015 Jan	-	-	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-	-	-
Apr	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-0.1	-0.1	-0.1
Aug	-	-	-	-	-	-	-0.3	-0.2	-0.3
Sep	-	-	-	-	-	-	-0.1	0.2	-0.1
Oct	-0.2	-0.2	-0.2	-0.3	-0.3	-0.2	-0.5	-0.4	-0.4
Nov	..	..	..	..	..	..	..	..	..

<sup>1</sup> The Climate Change levy was introduced in April 2001.  
Please see Statistical Bulletin section entitled 'Revisions' for further information.

Source: Office for National Statistics