

Statistical bulletin

Producer price inflation, UK: December 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 December 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 1.2% in the year to December 2015, compared with a fall of 1.5% in the year to November 2015
- Core factory gate prices, which exclude the more volatile food, beverage, tobacco and petroleum products, increased 0.1% in the year to December 2015, compared with a fall of 0.1% in the year to November 2015
- The overall price of materials and fuels bought by UK manufacturers for processing (total input prices) fell 10.8% in the year to December 2015, from a fall of 13.1% in the year to November 2015
- Core input prices, which exclude the more volatile food, beverage, tobacco and petroleum products fell 7.0% in the year to December 2015, compared with a fall of 8.4% in the year to November 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 1.2% in the year to December 2015, compared with a fall of 1.5% last month.

During 2012 and 2013, core factory gate inflation tended to run at a lower rate than total output inflation, and showed a smaller degree of volatility. This trend changed in 2014, as total output fell into negative inflation: a result of the downward pressures from petroleum, which is excluded from the core measure of inflation. In 2015, total output inflation has remained consistently below core output price inflation, with total output averaging an annual fall of 1.6% during 2015 and core output averaging growth of 0.2% in the same period. (Figure A)

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

- factory gate prices fell 1.2%, compared with a fall of 1.5% in the year to November 2015
- core factory gate prices increased 0.1%, compared with a fall of 0.1% in the year to November 2015
- factory gate inflation excluding excise duty fell 0.9%, compared with a decrease of 1.2% in the year to November 2015

Between November and December 2015:

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

Table A: Output prices (home sales)

UK, July to December 2015

	% 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 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
Dec	-0.2	-1.2	0.2	0.1	-0.2	-0.9

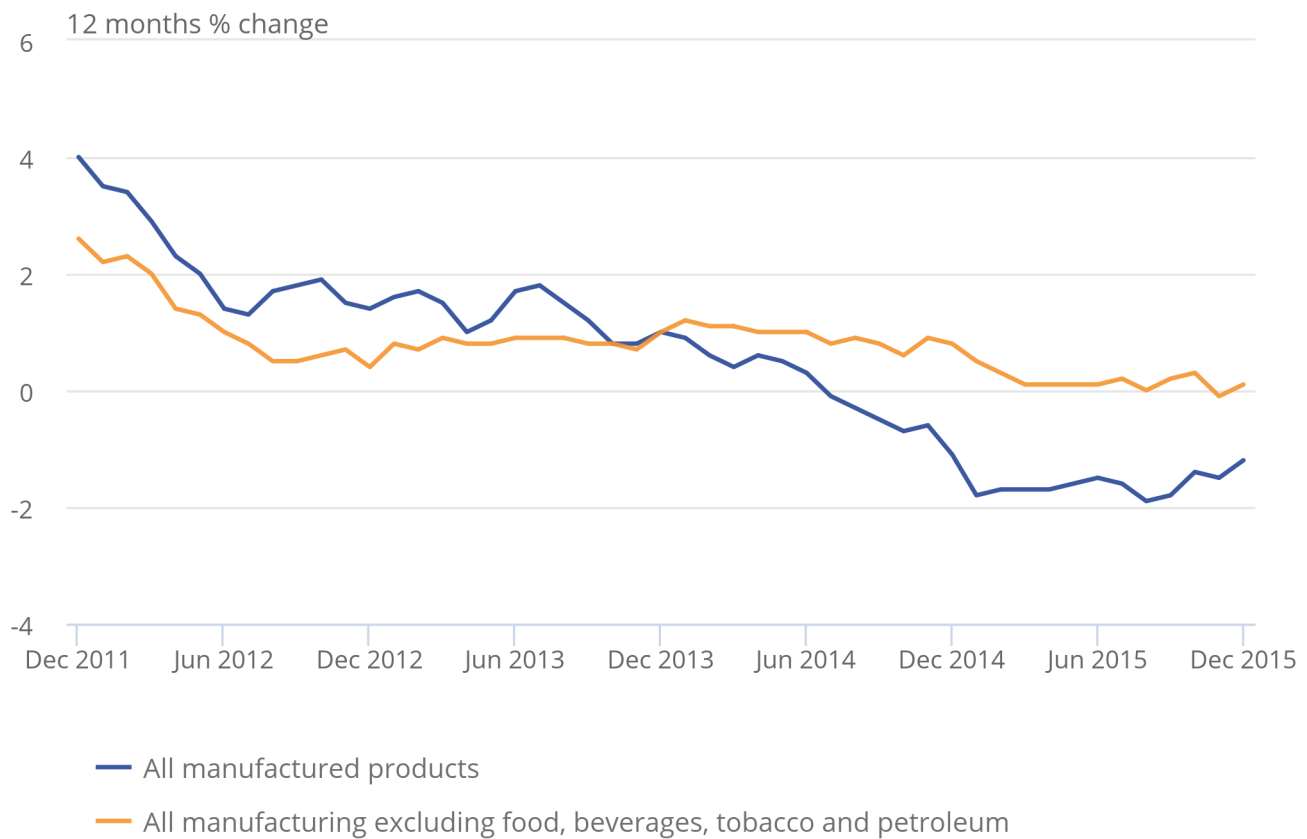
Source: Office for National Statistics

Figure A: Output prices

UK, December 2011 to December 2015

Figure A: Output prices

UK, December 2011 to December 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, December 2015

UK

Product group	% change
Food products	-2.1
Tobacco and alcohol (incl. duty)	0.7
Clothing, textile and leather	0.2
Paper and printing	0.4
Petroleum products (incl. duty)	-14.2
Chemical and pharmaceutical	-1.8
Metal, machinery and equipment	0.2
Computer, electrical and optical	0.1
Transport equipment	-0.4
Other manufactured products	1.4
All manufacturing	-1.2

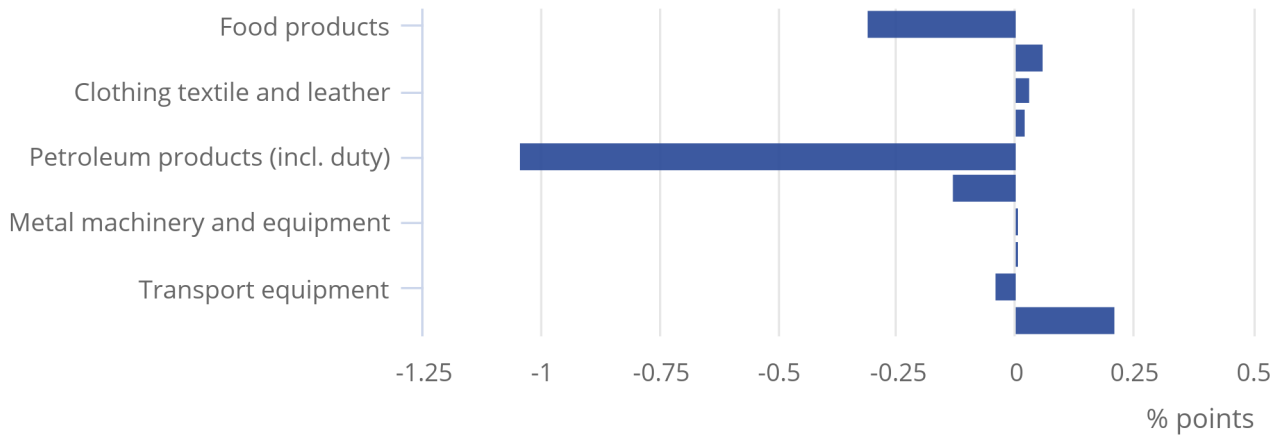
Source: Office for National Statistics

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

UK

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

UK

Product group	% change
Food products	-0.3
Tobacco and alcohol (incl. duty)	0.0
Clothing, textile and leather	0.0
Paper and printing	0.4
Petroleum products (incl. duty)	-3.0
Chemical and pharmaceutical	0.0
Metal, machinery and equipment	0.0
Computer, electrical and optical	0.1
Transport equipment	0.3
Other manufactured products	0.1
All manufacturing	-0.2

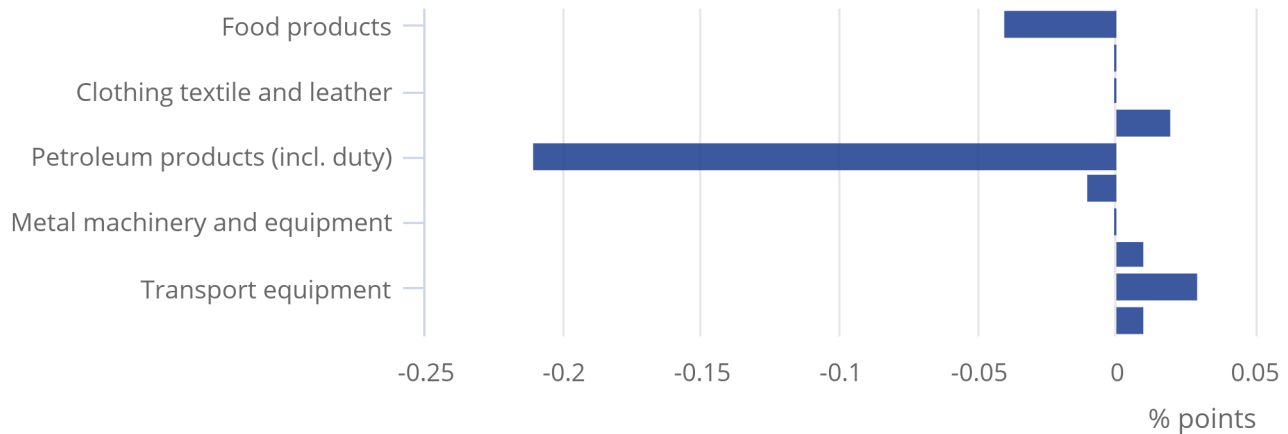
Source: Office for National Statistics

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

UK

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

UK



Source: Office for National Statistics

5 . Output prices: detailed commentary

Factory gate prices fell 1.2% in the year to December 2015, compared with a decrease of 1.5% in the year to November 2015. This index has now seen negative movements on the year every month since July 2014. The main contribution to the annual rate for November 2015 came from petroleum products. Smaller falls in the prices of food products, chemicals and pharmaceuticals, and transport equipment also contributed towards the fall in the output of manufactured product prices (Figure B).

The monthly price index between November and December 2015 saw a fall of 0.2%, unchanged from last month. Although most product groups showed small increases, a large downward movement from petroleum products contributed to an overall fall in the monthly rate (Figure C).

Petroleum product prices fell 14.2% in the year to December 2015, up from a fall of 16.9% in the year to November 2015. The largest decrease seen in this index was in July 2009, when it fell by 21.3%. The contributions to this fall in the latest annual rate came from diesel and gas oil, motor spirit, and aviation turbine fuel.

Between November and December 2015, petroleum prices fell 3.0%, compared with a decrease of 1.4% between October and November 2015. Falling prices of diesel and gas oil, and motor spirit were the main contributions to the fall in the monthly index.

Food products fell 2.1% in the year to December 2015, down from a fall of 1.6% in the year to November 2015. The monthly index for food products fell 0.3% between November and December 2015, down from a fall of 0.2% between October and November 2015. The main contributions to the decrease in the annual and monthly indices came from dairy products, preserved meat and meat products, and prepared animal feeds with prices falling by 5.8%, 2.3% and 3.2% respectively on the year and 0.2%, 0.3% and 0.6% respectively between November and December.

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, increased 0.1% in the year to December 2015, compared with a fall of 0.1% in the year to November 2015. Falls in chemicals and pharmaceuticals, and transport equipment were offset by increases in prices for other manufacturing products in the annual index.

The monthly index showed an increase of 0.2% between November and December 2015, compared with a decrease of 0.2% between October and November 2015. Transport equipment, paper and printing products, and computers, electrical and optical equipment contributed to the increase in the index.

Output producer price index contribution to change in rate

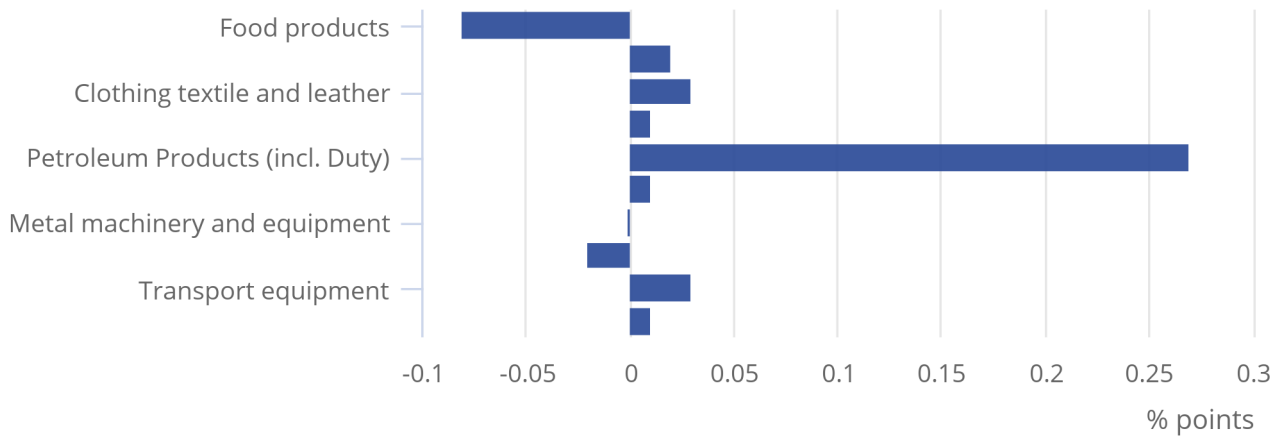
The annual percentage rate for the output PPI in December 2015 fell 1.2%, compared with a fall of 1.5% last month, resulting in an increase in the annual rate of 0.3 percentage points. The main contribution to the increase came from petroleum products (Figure D).

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

UK

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

UK



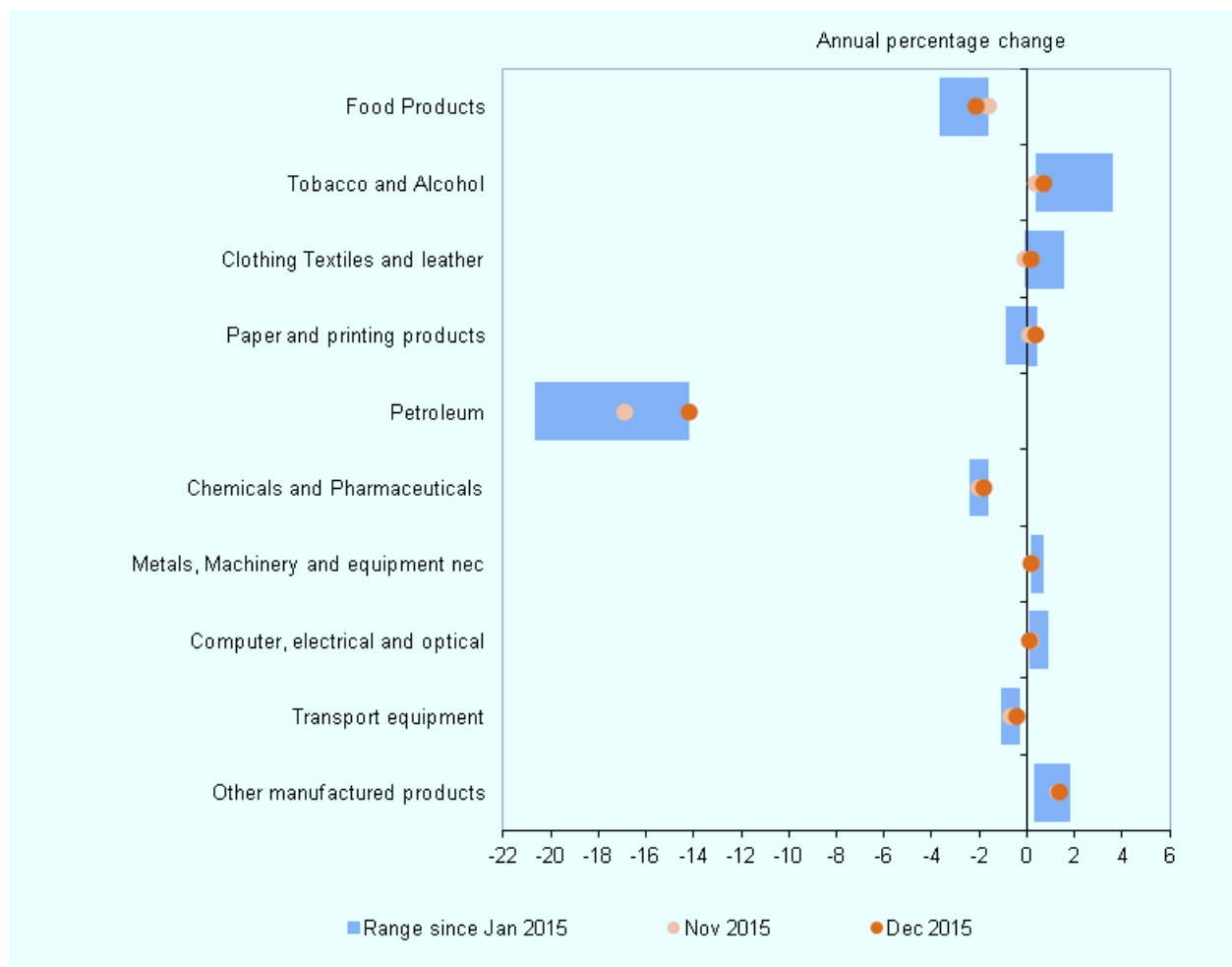
Source: Office for National Statistics

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 and December 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 December 2015

UK



Source: Office for National Statistics

7. Input prices: summary

Figure F shows the annual movements in total input prices (including materials and fuels) and core input prices (excluding purchases from food, beverage, tobacco and petroleum industries) purchased by the UK manufacturing industry. Between April 2012 and October 2013, both series showed relatively similar movements. From November 2013, both series have been showing a downward trend, with total input prices falling more rapidly. There has been a significant gap in the price movements of total input prices and core input prices since November 2014, however, this gap has been narrowing in recent months.

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

- the total input price index fell 10.8%, compared with a fall of 13.1% in the year to November 2015
- the core input price index saw a fall of 7.0%, compared with a fall of 8.4% in the year to November 2015
- the price of imported materials as a whole (including crude oil) fell 10.6%, compared with a decrease of 13.5% in the year to November 2015 (Reference table 7)

Between November and December 2015:

- the total input price index fell 0.8%, compared with a fall of 1.6% 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 rose 0.6%, compared with a fall of 1.5% from last month

Table D: Input prices

UK, July to December 2015

	% change				
	Materials and fuels purchased		Excluding purchases from food, beverage, tobacco and petroleum industries		
	1 month (NSA) ¹	12 months (NSA) ¹	1 month (NSA) ¹	12 months (NSA) ¹	1 month (SA) ²
2015 Jul	-1.4	-12.8	-1.0	-4.7	-0.6
Aug	-3.0	-14.6	-1.0	-6.1	-1.0
Sep	0.5	-13.4	0.8	-5.7	0.6
Oct	0.0	-12.3	-0.7	-6.8	-1.3
Nov	-1.6	-13.1	-1.2	-8.4	-1.5
Dec	-0.8	-10.8	0.6	-7.0	0.6

Source: Office for National Statistics

Notes:

1. NSA: Not Seasonally Adjusted.

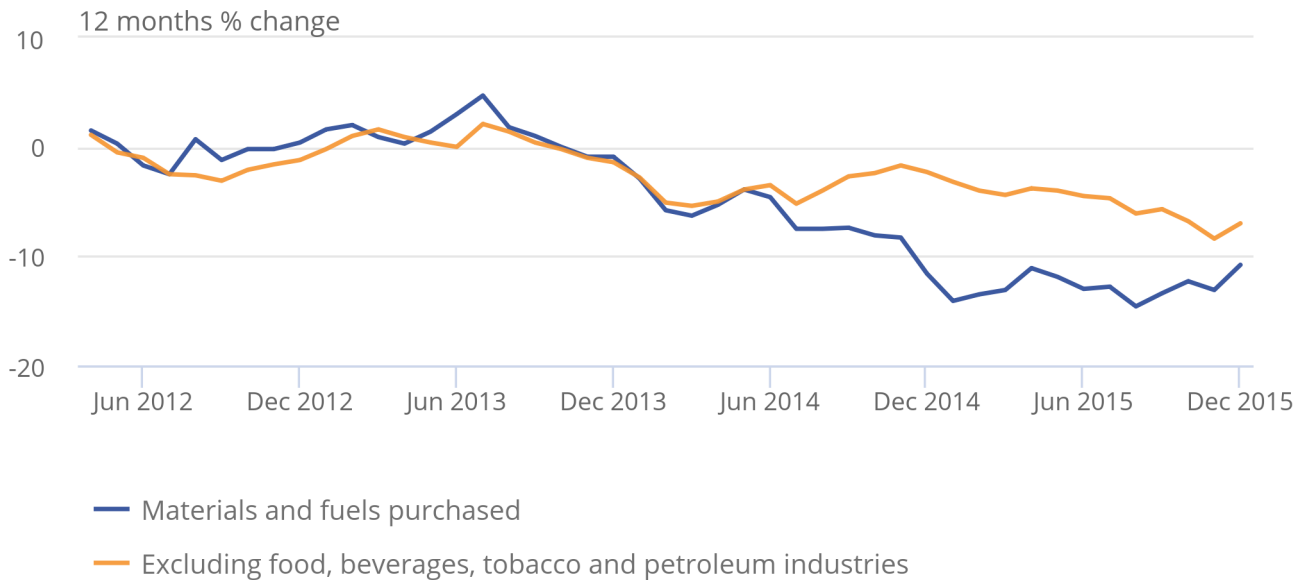
2. SA: Seasonally Adjusted.

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

UK, April 2012 to December 2015

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

UK, April 2012 to December 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, December 2015

UK	
Product group	% change
Fuel including Climate Change Levy	-8.3
Crude oil	-33.2
Home food materials	-9.0
Imported food materials	-6.0
Other home-produced materials	2.2
Imported metals	-20.0
Imported chemicals	-6.4
Imported parts and equipment	-1.9
Other imported materials	-2.1
All manufacturing	-10.8

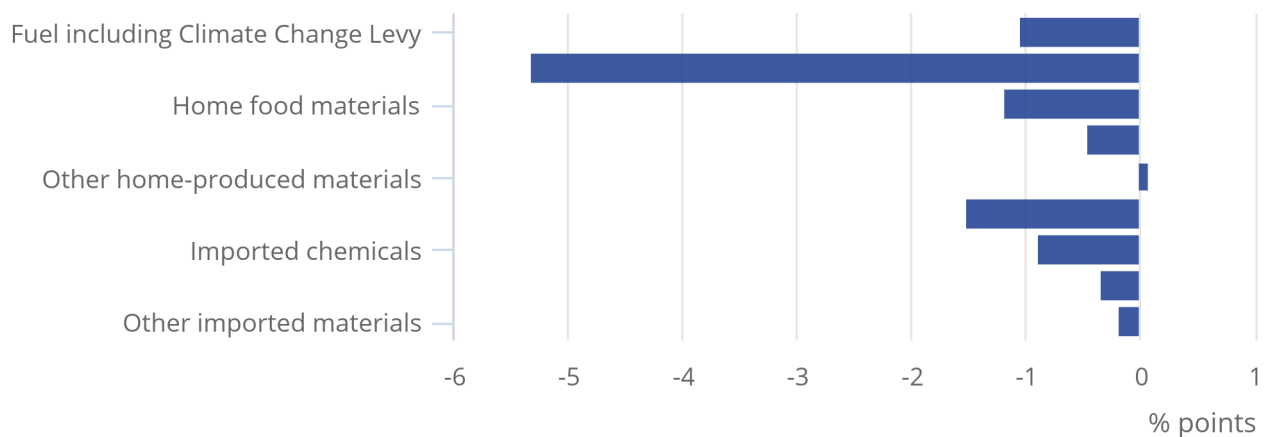
Source: Office for National Statistics

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

UK

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

UK	
Product group	% change
Fuel including Climate Change Levy	0.0
Crude oil	-7.4
Home food materials	-3.0
Imported food materials	-0.8
Other home-produced materials	-0.2
Imported metals	0.0
Imported chemicals	0.7
Imported parts and equipment	1.8
Other imported materials	1.3
All manufacturing	-0.8

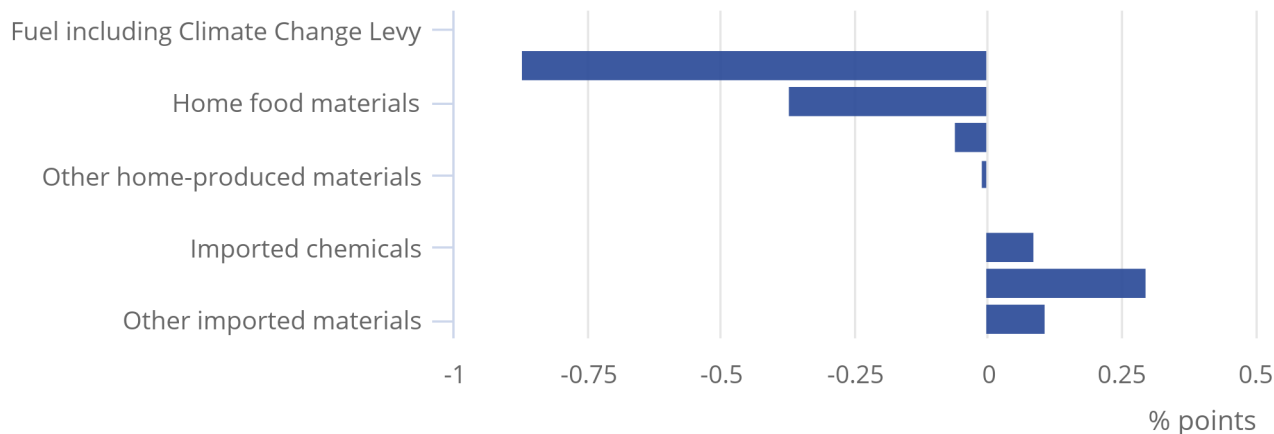
Source: Office for National Statistics

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

UK

Figure H: Input prices contribution to the 1 month growth rate, December 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 10.8% in the year to December 2015, compared with a fall of 13.1% in the year to November 2015. The main downward contributions to the index came from crude oil with much smaller, but notable, downward contributions from home produced food and imported metals.

Imported metal prices fell 20.0% in the year to December 2015; one of the largest decreases since records began in 1997. The main contribution came from imported products used in the manufacture of other basic metals and casting, which fell 20.4%. 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 an oversupply in the current market. This has led to a sharp fall in price.

The monthly input index fell 0.8% between November and December 2015, compared with a fall of 1.6% between October and November 2015. This fall was driven by decreases in the price of crude oil and home produced food, slightly offset by an increase in the price of other imported parts and equipment, driven by an increase in the price of imported motor vehicles (see Table F and Figure H).

Crude oil annual prices have been falling since October 2013. The index fell 33.2% in the year to December 2015, compared with a decrease of 40.4% in the year to November 2015. The monthly index for crude oil fell 7.4% between November and December 2015, compared with a fall of 6.5% between October and November 2015. The main contribution to both the annual and monthly indices came from imported crude petroleum and natural gas, which fell 32.9% in the year to December 2015 and 7.7% between November and December 2015.

At present a continued oversupply of oil continues to place downward pressures on prices. This oversupply has been driven by the decision by OPEC to continue high levels of production despite reduced global demand. This situation is predicted to continue into late 2016 with no signs of OPEC cutting production. An informal agreement by US congress leaders to lift the US ban on export of crude oil may also add to the current stock levels in the future.

The monthly index for home produced food showed a considerable decrease of 3.0% between November and December 2015. This decrease was driven by crop and animal production which fell 4.1% on the month, the largest decrease in the index since August 2014. This has been driven by a fall in prices for home produced chickens, due to oversupply.

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

The core input price index, in seasonally adjusted terms, increased 0.6% between November and December 2015, compared with a fall of 1.5% between October and November. In the year to December 2015, the index fell 7.1% compared with a fall of 8.4% in the year to November; these are 2 of the largest decreases seen in this index since records began in 1996.

The unadjusted index fell 7.0% in the year to December 2015, compared with a decrease of 8.4% in the year to November; as with the adjusted series these are 2 of the largest decreases seen in this index since records began in 1997. The monthly index increased 0.6% between November and December 2015, compared with a decrease of 1.2% between October and November. This increase in the monthly rate is driven by rises in other imported parts and equipment, imported chemicals and imported metals.

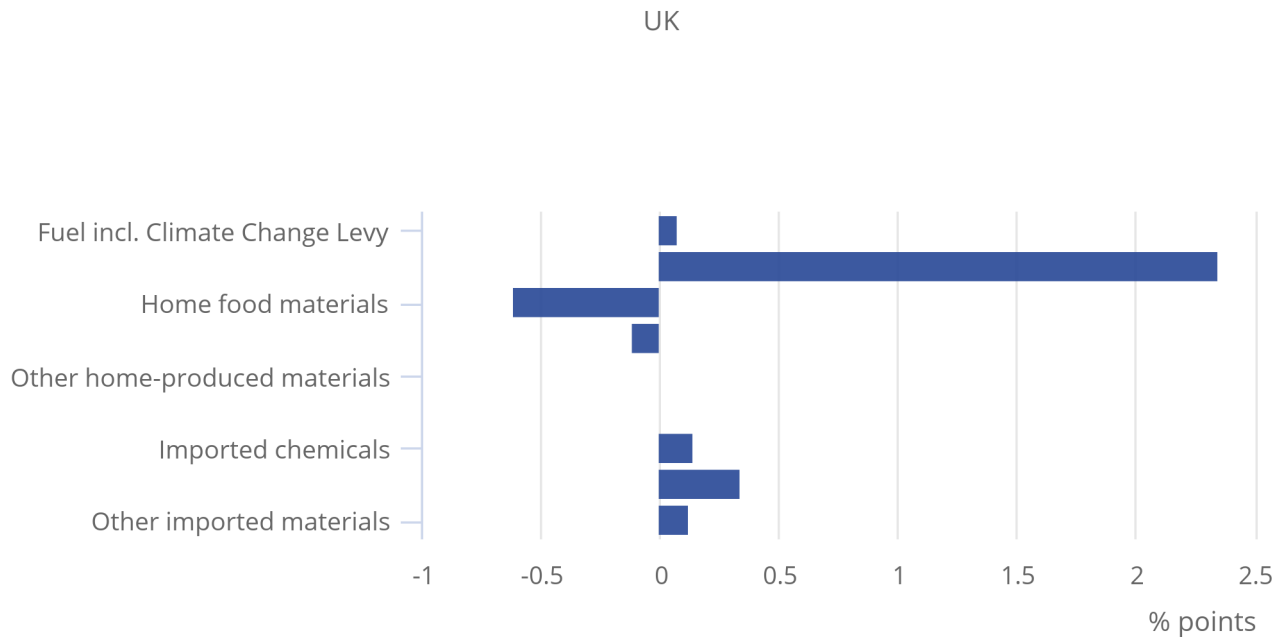
Input producer price index contribution to change in rate

The annual percentage rate for the input PPI in December 2015 fell 10.8%, compared with a decrease of 13.1% last month, resulting in an increase in the annual rate of 2.3 percentage points. This was mainly due to a significant increase from crude oil and smaller increases from other imported parts and equipment (Figure I).

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

UK

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



Source: Office for National Statistics

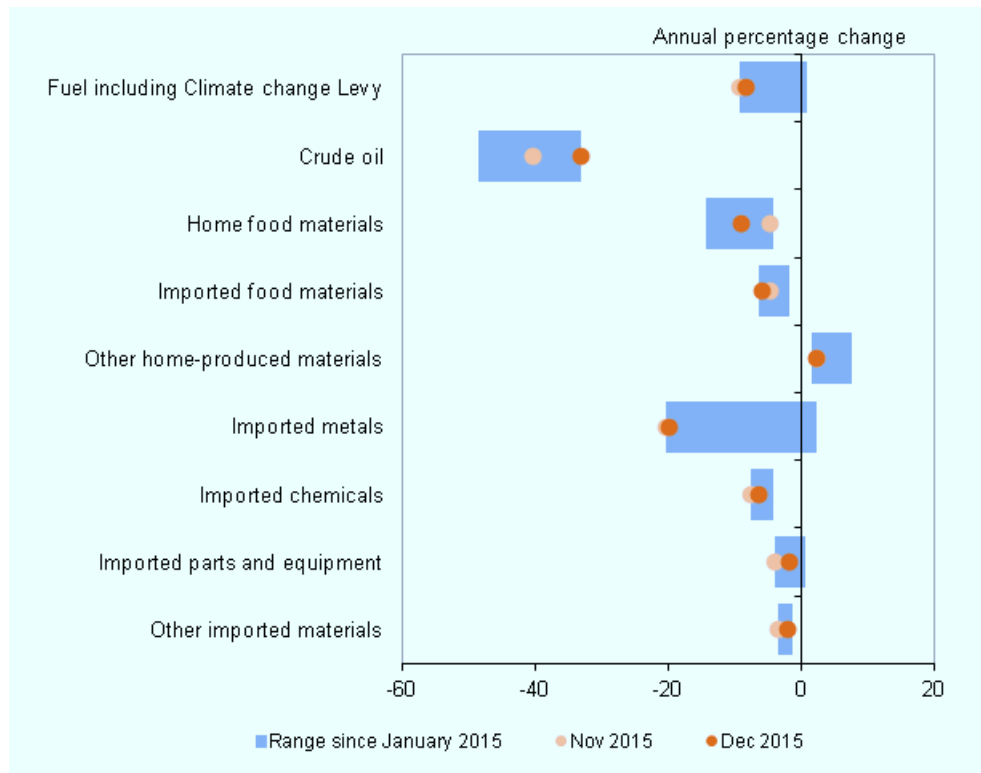
10 . Input PPI indices by grouping

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 33.2% in December 2015. Other home produced materials shows the biggest increase, ranging from rises of 7.7% in March 2015 to 1.5% in October 2015.

Imported metals has shown the largest range of price changes, ranging from 2.2% in January 2015 to -20.5% in November 2015.

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

UK



Source: Office for National Statistics

11 . Economic context

Input producer prices fell by 10.8% in the year to December 2015, following a 13.1% decrease in the year to November, continuing the recent trend of falling input prices. Output producer prices also fell in December, suggesting that lower input costs are continuing to feed into the price of manufacturers. Output producer price inflation rose slightly to -1.2% in the year to December 2015 from -1.5% in the year to November.

Much of the recent decline in input and output producer price inflation is the result of lower oil and petroleum prices, as the cost of oil, energy and of refined petroleum products has influenced the prices of manufacturers. Brent crude oil has fallen sharply in price since mid-2014 – from around \$110 per barrel in June 2014, to around \$60 per barrel in December 2014 and to less than \$40 per barrel in December 2015. As a result, crude oil and refined petroleum product prices accounted for 5.3 percentage points of the 10.8% fall in input producer prices in the year to December 2015, and for 1.1 percentage points of the 1.2% fall in output producer prices over the same period.

Alongside recent changes in oil prices, changes in currency exchange rates may also have had an impact on producer prices. A stronger pound, increasing in value by 4.7% between December 2014 and December 2015, has reduced the price of imports to the UK with a corresponding impact on the prices paid by producers for imports. However, movements in the sterling exchange rate with the US dollar and the euro have reflected the diverging paths of monetary policy in the US and eurozone. Sterling fell by 4.2% against the US dollar in the year to December 2015 (making imports more expensive from the US), but has appreciated by more than 8.5% against the euro (making imports cheaper from the eurozone) over the same period. In aggregate, changes in the prices of imported products accounted for around 3.4 percentage points of the 10.8% fall in input prices in the year to December 2015.

While the lower oil price and changes in the value of sterling have had the largest impact on producer prices, recent changes in the UK's labour market have raised the possibility of stronger wage pressures. Following strong employment growth over the past 2 years, the headline unemployment rate fell to 5.2% in the 3 months to October 2015, reducing the number of potential workers to manufacturing firms. Existing manufacturing workers have also been working longer hours; average hours worked in the manufacturing industry has recovered much of the ground lost during the economic downturn. Productivity in manufacturing – growth in which permits firms to produce more output per unit of labour input – fell by 2.0% in the year to Quarter 3 (July to Sept) 2015. However, despite these measures indicating the potential for stronger wage pressures, average weekly earnings growth in manufacturing has been relatively modest in recent months. Average weekly total pay in manufacturing grew by 1.5% in the 3 months to October 2015 when compared with the same 3 months a year earlier – unchanged from September 2015, and weaker than for the whole economy.

Lower input prices also appear to have helped the manufacturing industry to meet growing demand without raising prices. Demand for goods and services in the UK economy remains relatively strong. GDP grew by 0.4% in quarter 3 2015, the 11th consecutive quarter of positive growth. However, much of this growth was concentrated in the services industry with manufacturing output falling by 0.4% in quarter 3 2015.

12 . Revisions

For this bulletin ([Reference tables 8R and 9R \(228.5 Kb Excel sheet\)](#)) 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.

For more information about our [revisions policy](#), see our website.

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

UK, percentage change

	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	-1.2	-0.16	0.21
Total output (JVZ7) - 1 month	-0.2	-0.02	0.08
Total input (K646) - 12 months	-10.8	0.04	0.36
Total input (K646) - 1 month	-0.9	0.06	0.28

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 November 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 \(12 months\) \(2.54 Mb Excel sheet\)](#)

[Revision triangle for total output \(1 month\) \(2.5 Mb Excel sheet\)](#)

[Revision triangle for total input \(12 months\) \(2.55 Mb Excel sheet\)](#)

[Revision triangle for total input \(1 month\) \(2.55 Mb Excel sheet\)](#)

13. 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

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 \(96 Kb Excel sheet\)](#) 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](#). 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 \(228.5 Kb Excel sheet\)](#) 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 \(228.5 Kb Excel sheet\)](#)) 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

The complete run of data in the tables of this bulletin are also available to view and download in other electronic formats free of charge using [our Datasets and Reference Table service](#) (if you want the data associated with this bulletin click into Download data in this release option). Users can download the

complete release in a choice of zipped formats or view and download their own selections of individual series. There is a list of [publication dates](#) also available up to January 2017.

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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National Statistics are produced to high professional standards set out in the Code of Practice for Official Statistics. They undergo regular quality assurance reviews to ensure that they meet customer needs. They are produced free from any political interference and released according to the arrangements approved by the UK Statistics Authority.

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17. Details of the policy governing the release of new data are available by visiting www.statisticsauthority.gov.uk/assessment/code-of-practice/index.html or from the Media Relations Office email: media.relations@ons.gsi.gov.uk

These National Statistics are produced to high professional standards and released according to the arrangements approved by the UK Statistics Authority.

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		
2015 Jun	JVZ7 107.1	-	-1.5	K3BI 105.9	-	0.1	K65A 111.9	0.1	-1.8	K37Y 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	106.2	-0.1	-1.4	105.8	-0.1	0.3	110.6	-0.1	-1.2	87.7	-1.0	-17.8
Nov	106.0p	-0.2	-1.5	105.6p	-0.2	-0.1	110.4p	-0.2	-1.2	86.5p	-1.4	-16.9
Dec	105.8p	-0.2	-1.2	105.8p	0.2	0.1	110.2p	-0.2	-1.4	83.9p	-3.0	-14.2

p = provisional
r = revised

Source: Office for National Statistics

2 Net Sector Input Prices, including Climate Change Levy¹: 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	
2015 Jun	K646 96.9	-2.2	-13.0	K644 94.7	-2.5	-14.5	K647 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	93.1	-	-12.3	90.6	-0.2	-13.1	113.8	0.5	-7.0
Nov	91.6p	-1.6	-13.1	88.8p	-2.0	-13.8	115.6p	1.6	-9.2
Dec	90.9p	-0.8	-10.8	87.9p	-1.0	-11.3	115.6p	-	-8.3

¹ 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 ¹		
	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 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	106.2	-0.1	-1.4	105.8	-0.1	0.3	106.6	-0.1	-1.2
Nov	106.0p	-0.2	-1.5	105.6p	-0.2	-0.1	106.5p	-0.1	-1.2
Dec	105.8p	-0.2	-1.2	105.8p	0.2	0.1	106.3p	-0.2	-0.9

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	
			2015	2015	2015	2015	2015	1 month		12 months	
			Aug	Sep	Oct	Nov	Dec	2015	2015	2015	2015
Net sector											
Output of manufactured products	JVZ7	7200700000	106.4	106.3	106.2	106.0p	105.8p	-0.2	-0.2	-1.5	-1.2
All manufacturing, excluding duty	JVZ8	7200700010	106.8	106.7	106.6	106.5p	106.3p	-0.1	-0.2	-1.2	-0.9
All manufacturing, excluding food, beverages, tobacco and petroleum	K3BI	7200799000	105.8	105.9	105.8	105.6p	105.8p	-0.2	0.2	-0.1	0.1
Gross Sector											
Food products, beverages and tobacco, including duty	K65A	7111101280	111.2	110.7	110.6	110.4p	110.2p	-0.2	-0.2	-1.2	-1.4
Food products	K37L	7112100000	110.3	109.7	109.5	109.3p	109.0p	-0.2	-0.3	-1.6	-2.1
Tobacco products, including duty	K37Q	7112120080	143.4	143.4	145.5	146.0p	146.0p	0.3	-	3.9	3.9
Alcoholic beverages, including duty	MC6A	7229110080	111.0 B	110.5 B	110.3 B	109.8pB	109.7pB	-0.5	-0.1	-1.7	-1.3
Soft drinks, mineral waters and other bottled waters	JU5C	1107000000	104.8 B	105.5 B	105.5 B	105.4pB	105.9pB	-0.1	0.5	3.6	4.2
Textiles	K37R	7112130000	111.6	111.8	112.4	112.5p	112.5p	0.1	-	-0.2	-0.2
Wearing apparel	K37S	7112140000	112.9	112.9	112.9	112.2p	112.3p	-0.6	0.1	1.0	1.1
Leather and related products	K37T	7112150000	121.7	120.7r	119.4	119.4p	119.5p	-	0.1	-4.0	-2.2
Wood and products of wood and cork, except furniture	K37U	7112160000	114.8	114.5	114.5	114.5p	114.3p	-	-0.2	-0.2	-0.5
Paper and paper products	K37V	7112170000	106.1	106.1	105.9	105.9p	106.4p	-	0.5	-0.5	-0.2
Printing and recording services	K37W	7112180000	100.2	100.3	100.3	100.5p	100.9p	0.2	0.4	0.9	1.2
Coke and refined petroleum products, including duty	K37Y	7112190080	89.7	88.6	87.7	86.5p	83.9p	-1.4	-3.0	-16.9	-14.2
Chemicals and chemical products	K37Z	7112200000	101.3	101.0	100.3	99.6p	99.5p	-0.7	-0.1	-4.3	-4.1
Basic pharmaceutical products and pharmaceutical preparations	K382	7112210000	103.8	103.8	103.9	103.8p	103.8p	-0.1	-	1.0	1.1
Rubber and plastic products	K383	7112220000	108.1	108.3r	108.4	108.0p	108.2p	-0.4	0.2	-0.4	-0.3
Other non-metallic mineral products	K384	7112230000	111.7	111.7	111.8	111.7p	112.0p	-0.1	0.3	1.8	2.2
Basic metals	K385	7112240000	89.8	88.6	88.3	87.1p	85.9p	-1.4	-1.4	-12.2	-12.8
Fabricated metal products, except machinery and equipment	K386	7112250000	105.9r	105.9	105.9	105.8p	105.7p	-0.1	-0.1	0.6	0.6
Computer, electronic and optical products	K387	7112260000	97.9	98.0	98.0	97.9p	97.9p	-0.1	-	0.3	0.1
Electrical equipment	K388	7112270000	104.0	103.9	103.8	103.9p	104.1p	0.1	0.2	-0.1	0.1
Machinery and equipment n.e.c.	K389	7112280000	111.0	111.3r	111.6	111.4p	111.6p	-0.2	0.2	1.0	1.1
Motor vehicles, trailers and semi-trailers	K38A	7112290000	100.2	100.6	100.7	100.2p	100.6p	-0.5	0.4	-1.3	-0.9
Other transport equipment	K38B	7112300000	108.6	108.7	108.7	108.9p	109.0p	0.2	0.1	0.9	1.0
Furniture	K38C	7112310000	109.1	109.1	109.1	109.4p	109.4p	0.3	-	1.7	1.8
Other manufactured goods	K38D	7112320000	108.2	108.2	108.3	108.8p	108.6p	0.5	-0.2	0.7	0.6
Repair and installation services of machinery and equipment	K38E	7112330000	117.1	117.5	117.5	117.7p	117.8p	0.2	0.1	4.2	4.1

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 Levy¹: 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 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	105.4	0.1	-2.1
Dec	101.9	-3.3	-11.6	104.7	-0.9	-2.3	104.5r	-0.9	-2.5
2015 Jan	98.2	-3.6	-14.1	103.4	-1.2	-3.2	103.2	-1.2	-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	99.7	-0.6	-4.9
Aug	92.6	-3.0	-14.6	97.9	-1.0	-6.1	98.7r	-1.0	-6.1
Sep	93.1	0.5	-13.4	98.7	0.8	-5.7	99.3r	0.6	-5.9
Oct	93.1	-	-12.3	98.0	-0.7	-6.8	98.0	-1.3	-6.9
Nov	91.6p	-1.6	-13.1	96.8p	-1.2	-8.4	96.5p	-1.5	-8.4
Dec	90.9p	-0.8	-10.8	97.4p	0.6	-7.0	97.1p	0.6	-7.1

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 Levy¹: 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				
			Aug	Sep	Oct	Nov	Dec	2015	2015	2015	2015
Gross sector											
Other mining & quarrying products ²	MC3K	6107208000	112.3	112.2	111.9	111.6p	111.6p	-0.3	-	-1.3	-0.8
Manufacture of food products, beverages, tobacco	MC35	6107110120	106.4	106.4r	106.7	106.4p	105.5p	-0.3	-0.8	-3.3	-4.5
Preserved meat & meat products	MC3V	6107310100	106.6	106.4	107.0	106.5p	104.8p	-0.5	-1.6	-3.4	-5.4
Fish, crustaceans, molluscs, fruit & vegetables	MB4X	6107310230	104.3r	103.8r	104.8	106.2p	108.2p	1.3	1.9	-2.3	-3.3
Vegetable & animal oils and fats	MC3W	6107310400	109.5	108.9	108.6	108.2p	106.1p	-0.4	-1.9	-6.2	-8.7
Dairy products	MC3X	6107310500	103.3	103.7	104.4	104.0p	101.9p	-0.4	-2.0	-4.7	-7.1
Grain mill products, starches & starch products	MC3Y	6107310600	105.6	105.8	106.4	106.0p	104.7p	-0.4	-1.2	-3.5	-5.1
Bakery & farinaceous products	MC3Z	6107310700	107.6	107.5	107.4	106.9p	106.5p	-0.5	-0.4	-3.3	-3.4
Other food products	MB4Y	6107310800	106.8	106.8	106.8	106.3p	105.7p	-0.5	-0.6	-2.7	-3.3
Animal feeds	MC42	6107310900	107.5	107.4	107.5	107.0p	105.9p	-0.5	-1.0	-3.3	-4.5
Alcoholic Beverages	MB55	6107411016	106.0	106.1	106.2	105.6p	105.5p	-0.6	-0.1	-3.4	-2.8
Soft drinks; mineral waters & other bottled waters	MC4D	6107411070	106.8	106.8	106.6	106.2p	106.1p	-0.4	-0.1	-1.3	-1.1
Tobacco products	MC3M	6107212000	137.0	137.1	140.6	142.0p	142.3p	1.0	0.2	2.3	2.6
Manufacture of textiles & textile products; clothing	MC36	6107113140	107.7	108.0	108.1	107.8p	107.9p	-0.3	0.1	-2.5	-2.2
Textiles	MB4P	6107213000	106.4	106.6	106.6	106.2p	106.3p	-0.4	0.1	-3.2	-2.7
Wearing apparel	MC3N	6107214000	109.5	109.9	110.3	110.1p	110.3p	-0.2	0.2	-1.6	-1.3
Manufacture of leather & related products	MC3O	6107215000	110.5	109.9	109.7	109.0p	108.8p	-0.6	-0.2	-2.9	-2.7
Manufacture of wood & wood products	MC3P	6107216000	110.1	110.1	110.0	109.5p	109.5p	-0.5	-	-2.5	-2.2
Manufacture of pulp, paper & paper products, recording media & printing services	MC39	6107117180	104.9	105.1	105.1	104.8p	105.2p	-0.3	0.4	-2.6	-2.1
Pulp, paper & paper products	MB4Q	6107217000	104.9	105.1	105.1	104.7p	105.2p	-0.4	0.5	-3.6	-2.9
Printing & recording services	MC3Q	6107218000	104.9	105.0	105.0	104.9p	105.3p	-0.1	0.4	-1.5	-1.1
Manufacture of coke & refined petroleum products	MC3R	6107219000	67.6	67.4	68.3	64.6p	60.6p	-5.4	-6.2	-36.3	-29.4
Manufacture of chemicals, chemical products & man-made fibres	MC3B	6107120000	99.5	99.1r	98.3	97.1p	96.9p	-1.2	-0.2	-7.4	-6.6
Paints, varnishes & similar coatings, printing ink & mastics	MC43	6107320300	101.8	101.5	100.8	99.6p	99.5p	-1.2	-0.1	-5.9	-5.5
Soaps, detergents, cleaning & polishing preparations perfumes & toilet preparations	MC44	6107320400	103.3	103.3	103.0	102.5p	102.5p	-0.5	-	-3.0	-2.8
Other chemical products	MC45	6107320500	102.0	101.8	101.4	100.4p	100.1p	-1.0	-0.3	-6.8	-6.1
Industrial gases; other basic inorganic chemicals; fertilisers & nitrogen compounds	MC4E	6107420910	102.8r	102.5	102.0	100.7p	100.4p	-1.3	-0.3	-7.0	-6.2
Petrochemicals & man made fibres	MC4F	6107420920	98.0	97.5	96.5	95.1p	94.9p	-1.5	-0.2	-8.1	-7.1
Dyes & pigments; pesticides & other agrochemical products	MC4G	6107420930	98.3	98.6	98.4	96.6p	96.3p	-1.8	-0.3	-11.2	-9.2
Manufacture of basic pharmaceutical products & pharmaceutical preparations	MC3S	6107221000	101.8	101.7	101.6	101.1p	101.2p	-0.5	0.1	-2.7	-2.3
Manufacture of rubber & plastic products	MB4R	6107222000	101.4	101.2	100.6	99.8p	99.8p	-0.8	-	-5.0	-4.3
Manufacture of cement, lime & plaster	MC46	6107323560	108.9	109.1	108.8	108.4p	108.5p	-0.4	0.1	-2.9	-2.3
Manufacture of glass, refractory, clay, other porcelain, ceramic stone products	MB4Z	6107323990	105.9	105.9	105.8	105.0p	105.2p	-0.8	0.2	-4.8	-4.1

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 Levy¹: Materials and Fuels purchased by selected industries (not seasonally adjusted) - SIC 2007

continued

2010=100, SIC2007

			2015 Aug	2015 Sep	2015 Oct	2015 Nov	2015 Dec	% change 1 month		% change 12 months	
								2015 Nov	2015 Dec	2015 Nov	2015 Dec
Manufacture of basic metals & fabricated products	MC3F	6107124250	93.5	93.1	93.0	91.7p	91.0p	-1.4	-0.8	-10.7	-10.1
Basic iron, steel & alloys: tubes, pipes, hollow profiles	MC47	6107324130	89.8	89.6	89.0	87.1p	86.0p	-2.1	-1.3	-15.3	-14.1
Other basic metals & casting	MB52	6107324450	89.6	88.8	89.3	87.9p	86.8p	-1.6	-1.3	-14.5	-13.2
Weapons & ammunition	MC48	6107325400	102.7	102.9	102.9	102.6p	102.7p	-0.3	0.1	-1.3	-1.2
Fabricated metal products, excluding machinery & equipment & weapons & ammunition	MB53	6107325990	95.8	95.5	95.3	94.2p	93.8p	-1.2	-0.4	-8.2	-7.9
Manufacture of computer, electronic and optical products, electrical equipment	MC3G	6107126270	101.5	101.6	101.4	101.1p	101.2p	-0.3	0.1	-2.3	-2.1
Computer, electronic & optical products	MB4S	6107226000	102.0	102.2	102.1	101.9p	102.2p	-0.2	0.3	-1.4	-1.1
Electrical equipment	MB4T	6107227000	100.7	100.6	100.4	99.8p	99.9p	-0.6	0.1	-3.9	-3.4
Manufacture of machinery & equipment n.e.c	MB4U	6107228000	101.4	101.4	101.3	100.7p	100.7p	-0.6	-	-3.7	-3.5
Manufacturing of motor vehicles & other transport equipment	MC3I	6107129300	101.0	101.3	100.6	100.0p	100.4p	-0.6	0.4	-3.2	-2.5
Motor vehicles, trailers & semi trailers	MB4V	6107229000	99.4	99.7	99.0	98.2p	98.8p	-0.8	0.6	-3.9	-3.0
Ships & boats	MC49	6107330100	104.8	105.1r	105.0	104.6p	104.7p	-0.4	0.1	-2.3	-2.1
Aircraft & spacecraft & related machinery	MC4A	6107330300	106.4	106.6	105.8	105.9p	106.0p	0.1	0.1	-0.7	-0.5
Other transport equipment	MB54	6107330990	104.9	105.1	104.8	103.8p	103.8p	-1.0	-	-1.3	-1.0
Manufacture of other manufactured goods n.e.c	MC3J	6107131330	105.3	105.4	105.0	104.7p	104.8p	-0.3	0.1	-2.1	-1.8
Furniture	MC3T	6107231000	103.6	103.5	103.1	102.5p	102.5p	-0.6	-	-4.0	-3.6
Other manufacturing	MB4W	6107232000	103.4	103.3	103.2	102.9p	103.0p	-0.3	0.1	-2.3	-2.1
Repair of maintenance of ships & boats	MC4H	6107433150	106.0	106.2	106.2	105.9p	106.0p	-0.3	0.1	-1.7	-1.5
Repair & maintenance services of aircraft & spacecraft	MC4I	6107433160	114.4	114.9	114.1	114.5p	114.9p	0.4	0.3	2.1	2.3
Other repair; installation	MB56	6107433990	101.7	101.9	101.7	101.2p	101.4p	-0.5	0.2	-2.6	-2.2

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

2010=100, SIC2007

			2015 Aug	2015 Sep	2015 Oct	2015 Nov	2015 Dec	% change 1 month		% change 12 months	
								2015 Nov	2015 Dec	2015 Nov	2015 Dec
Fuel incl. CCL¹	K647	6207000060	111.5	113.2	113.8	115.6p	115.6p	1.6	-	-9.2	-8.3
Domestic coal & lignite incl. CCL	MC78	7167205005	92.0	133.1	116.1	113.2p	113.2p	-2.5	-	-28.4	-21.0
Imported coal & lignite incl. CCL	MC8U	7169205005	69.7	69.8	73.2	71.8p	71.8p	-1.9	-	-9.6	-13.3
Electricity incl. CCL	MC8F	7167335105	114.2	115.4	114.7	115.4p	115.4p	0.6	-	-4.2	-2.9
Gas incl. CCL	MC8H	7167335235	108.3	109.9	113.1	116.8p	116.8p	3.3	-	-15.9	-15.7
Fuel excl. CCL	K645	6207000020	111.8	113.4	114.0	113.8p	114.5p	-0.2	0.6	-11.0	-9.6
Domestic coal & lignite excl. CCL	MC77	7167205000	89.6	135.0	116.2	113.0p	121.6p	-2.8	7.6	-30.5	-16.8
Imported coal & lignite excl. CCL	MC8T	7169205000	68.8	69.0	67.8	70.7p	73.1p	4.3	3.4	-10.4	-11.1
Electricity excl. CCL	MC8E	7167335100	114.9	115.7	115.1	117.2p	117.2p	1.8	-	-3.5	-2.5
Gas excl. CCL	MC8G	7167335230	108.7	110.3	113.5	109.5p	111.1p	-3.5	1.5	-21.4	-20.0
Crude petroleum oils & metal ores	MC4P	6207008700	62.1	62.1	63.3	59.2p	54.8p	-6.5	-7.4	-40.4	-33.2
Domestic crude oil & metal ores	MC79	7167206070	57.8	60.3	60.7	56.0p	52.3p	-7.7	-6.6	-42.6	-33.6
Imported crude oil & metal ores	MC8V	7169206070	64.2	62.9	64.5	60.7p	56.0p	-5.9	-7.7	-39.4	-32.9
Food manufacturing:											
Home produced food materials	MB57	6207008100	100.7	100.4	100.3	100.1p	97.1p	-0.2	-3.0	-4.8	-9.0
Agricultural crop products	MC74	7167201000	101.5	101.5	101.1	100.2p	96.1p	-0.9	-4.1	-5.1	-9.7
Fish & other fish products	MC76	7167203000	87.7r	83.8r	88.2	98.9p	113.7p	12.1	15.0	2.5	1.6
Imported food materials	MC4O	6207008600	104.6	106.0	108.6	108.2p	107.3p	-0.4	-0.8	-4.6	-6.0
Agricultural crop products	MC8Q	7169201000	105.6	108.4	116.0	118.5p	119.5p	2.2	0.8	-2.9	-4.6
Fish & fish products	MC8S	7169203000	124.4	126.8	126.7	126.0p	128.3p	-0.6	1.8	-0.9	0.5
Meat & meat products	MC9F	7169310100	99.6	100.1	99.2	96.9p	94.1p	-2.3	-2.9	-3.4	-4.0
Processed fish & fish products; fruit & vegetables	MC9G	7169310230	116.6	118.2	115.2	113.7p	114.1p	-1.3	0.4	-1.6	-1.6
Vegetable, animal oils & fats	MC9H	7169310400	94.2	93.2	92.0	87.6p	83.6p	-4.8	-4.6	-17.8	-20.5
Dairy products	MC9I	7169310500	99.2	99.6	98.9	96.4p	93.6p	-2.5	-2.9	-3.6	-4.6
Grain mill products & starches	MC9J	7169310600	108.6	109.2	107.7	105.4p	103.2p	-2.1	-2.1	-4.2	-5.0
Bakery & farinaceous products	MC9K	7169310700	102.7	103.2	102.3	99.9p	97.1p	-2.3	-2.8	-3.7	-4.7
Other food products	MC9L	7169310800	106.4	106.9	105.8	103.6p	101.5p	-2.1	-2.0	-3.6	-4.4
Prepared animal feeds	MC9M	7169310900	103.6	104.1	103.0	100.6p	98.1p	-2.3	-2.5	-3.9	-4.8
Other home produced materials	MC4J	6207008200	118.6	118.2r	118.1	118.3p	118.1p	0.2	-0.2	2.2	2.2
Forestry products	MC75	7167202000	153.2	153.2	153.2	153.2p	153.2p	-	-	1.9	1.9
Other mining & quarrying products	MC7A	7167208000	116.8r	116.3r	116.1	116.5p	116.1p	0.3	-0.3	4.1	3.8
Water collection, treatment & supply	MC7R	7167236000	114.8	114.8	114.8	114.8p	114.8p	-	-	-2.1	-2.1
Imported metals	MC4K	6207008300	80.8	80.9	80.6	77.0p	77.0p	-4.5	-	-20.5	-20.0
Basic iron, steel & ferro alloys, tubes & pipes	MC9S	7169324130	84.7	84.2	82.8	80.0p	79.5p	-3.4	-0.6	-19.7	-19.2
Other basic metals & casting	MC9T	7169324450	78.9	79.2	79.6	75.6p	75.8p	-5.0	0.3	-20.9	-20.4
Imported chemicals	MC4L	6207008400	100.2	100.5r	100.2	98.1p	98.8p	-2.1	0.7	-7.5	-6.4
Paints, varnishes & coatings, printing inks & other mastics	MC9N	7169320300	95.1	96.1r	96.1	93.4p	95.1p	-2.8	1.8	-10.0	-8.0
Soap, detergents, cleaning & polishing preparations, perfumes & toilet preparations	MC9O	7169320400	94.8r	94.8r	94.0	92.2p	93.0p	-1.9	0.9	-8.4	-7.7

1 The Climate Change Levy was introduced in April 2001.

Source: Office for National Statistics

p = provisional
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7 Input Prices: detailed by commodity (not seasonally adjusted) - SIC 2007

continued

2010=100, SIC2007

			2015 Aug	2015 Sep	2015 Oct	2015 Nov	2015 Dec	% change 1 month		% change 12 months	
								2015 Nov	2015 Dec	2015 Nov	2015 Dec
Other chemical products	MC9P	7169320500	99.8	100.8	100.5	98.7p	99.5p	-1.8	0.8	-6.8	-6.2
Industrial gases, inorganic chemicals, fertilisers & nitrogen compounds	MCA3	7169420910	109.3	110.5	109.9	102.6p	102.5p	-6.6	-0.1	-12.5	-12.2
Petrochemicals & man made fibres	MCA4	7169420920	97.3	97.2r	96.9	95.0p	95.9p	-2.0	0.9	-7.9	-6.3
Dyes & pigments; pesticides & other agro-chemical products	MCA5	7169420930	98.8	100.3	100.1	97.3p	99.1p	-2.8	1.8	-8.0	-5.9
Basic pharmaceutical products & pharmaceutical preparations	MC97	7169221000	92.3	92.1	92.0	91.4p	92.0p	-0.7	0.7	-5.3	-4.4
Rubber & plastic products	MC98	7169222000	107.6	108.3	108.0	107.2p	107.5p	-0.7	0.3	-4.7	-4.4
Other imported parts & equipment	MC4N	6207008520	96.2	97.4	95.3	94.5p	96.2p	-0.8	1.8	-4.0	-1.9
Computer, electronic & optical products	MC99	7169226000	110.4	111.3	111.3	111.6p	112.7p	0.3	1.0	1.5	2.1
Electrical equipment	MC9A	7169227000	99.0	100.0	99.1	98.6p	100.0p	-0.5	1.4	-3.8	-2.6
Machinery & equipment n.e.c	MC9B	7169228000	97.7	98.9	98.7	97.6p	98.9p	-1.1	1.3	-3.8	-2.6
Motor vehicles, trailers & semi-trailers	MC9C	7169229000	96.4	98.1	90.8	89.0p	93.4p	-2.0	4.9	-8.5	-2.8
Weapons & ammunition	MC9U	7169325400	75.0	76.4	76.6	75.9p	76.3p	-0.9	0.5	-4.3	-2.9
Fabricated metal products	MC9V	7169325990	73.4	74.8	75.1	74.3p	74.6p	-1.1	0.4	-4.6	-3.4
Ships & boats	MC9W	7169330100	105.3	105.0	105.2	105.0p	105.2p	-0.2	0.2	-1.1	-0.9
Aircraft, spacecraft & related machinery	MC9X	7169330300	104.3	104.8	99.1	99.5p	100.0p	0.4	0.5	-5.2	-4.8
Other transport equipment	MC9Y	7169330990	102.9	103.2	100.7	100.8p	101.2p	0.1	0.4	-3.7	-3.3
Other imports	MC4M	6207008510	103.6	104.4	104.3	103.4p	104.7p	-0.9	1.3	-3.5	-2.1
Forestry products	MC8R	7169202000	111.0	111.5	110.2	110.1p	108.7p	-0.1	-1.3	-5.7	-5.5
Other mining & quarrying products	MC8W	7169208000	126.1	125.3	125.0	123.4p	124.9p	-1.3	1.2	-3.1	-2.7
Tobacco products	MC8X	7169212000	83.1	84.8	84.9	82.3p	84.7p	-3.1	2.9	-16.4	-13.7
Textiles	MC8Y	7169213000	105.8	107.4	107.3	106.4p	107.2p	-0.8	0.8	-4.4	-3.8
Wearing apparel	MC8Z	7169214000	101.0	103.0	106.3	103.3p	106.0p	-2.8	2.6	-4.8	-2.1
Leather & related leather products	MC92	7169215000	106.6	107.9	107.8	106.5p	107.2p	-1.2	0.7	-1.4	-0.7
Wood & wooden products	MC93	7169216000	97.9	98.3	98.1	96.5p	97.4p	-1.6	0.9	-6.7	-6.1
Paper & paper products	MC94	7169217000	97.7	98.0	98.2	97.6p	99.1p	-0.6	1.5	-3.6	-2.2
Printing & recording services	MC95	7169218000	89.2	91.0	91.1	88.4p	90.3p	-3.0	2.1	-10.3	-7.6
Coke & refined petroleum products	MC96	7169219000	118.7	121.1	121.0	119.3p	121.9p	-1.4	2.2	-0.9	4.0
Furniture	MC9D	7169231000	60.1	59.7	56.9	56.4p	56.7p	-0.9	0.5	-8.9	-8.1
Glass, refractory, clay other porcelain, ceramic stone & abrasive products	MC9R	7169323990	99.3	100.7	100.7	99.2p	100.5p	-1.5	1.3	-3.2	-2.0
Cement, lime, plaster & articles of concrete, cement & plaster	MC9Q	7169323560	99.3	100.6	100.6	99.1p	100.4p	-1.5	1.3	-3.2	-2.0
Alcoholic beverages	MC9Z	7169411016	92.4	93.7	93.7	91.5p	93.4p	-2.3	2.1	-7.1	-5.0
Soft drinks, mineral water & other bottled waters	MCA2	7169411070	98.0	99.7	99.7	96.3p	99.0p	-3.4	2.8	-9.4	-6.6
Other manufactured goods n.e.c	MC9E	7169232000	97.5	98.4	98.1	99.1p	99.1p	1.0	-	-3.3	-3.8
Imported materials											
All imported materials - total (incl Crude Oil)	K64F	6207008500	90.5	90.9	90.8	88.8p	88.6p	-2.2	-0.2	-13.5	-10.6

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 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	-	-	-	-	-	-
Nov	-	-	-	-	-	-
Dec	..	..	..	..	..	..

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

Source: Office for National Statistics

9R Net Sector Input Prices, including Climate Change Levy¹: 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 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	-	-	-	-	-	-	0.1	-	0.1
2015 Jan	-	-	-	-	-	-	-	-0.1	-
Feb	-	-	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-	-	-
Apr	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	0.1	0.1	0.1
Sep	-	-	-	-	-	-	0.1	-	0.1
Oct	-	-	-	-0.1	-0.1	-0.1	0.1	-	0.1
Nov	-	-	-	-0.1	-	-0.1	-0.1	-0.2	-0.1
Dec	..	..	..	..	..	..	..	..	..

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

Source: Office for National Statistics