

Producer price inflation, UK: November 2023

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

- Producer input prices fell by 2.6% in the year to November 2023, unchanged from a fall of 2.6% in the year to October 2023.
- Producer output (factory gate) prices fell by 0.2% in the year to November 2023, up from a revised fall of 0.3% in the year to October 2023.
- On a monthly basis, producer input prices fell by 0.3% and output prices fell by 0.1% in November 2023.
- Annual producer price inflation rates have been slightly falling since June 2023; however, index levels for both input and output prices remain substantially higher than their 2021 levels, the last time producer price inflation was stable.

2 . Producer price inflation rates

The annual inflation rate of the input Producer Price Index (PPI) was negative for the sixth consecutive month, while the annual inflation rate of the output PPI was negative for the fourth time in the last five months (Figure 1).

The index levels for both input and output prices have remained high since mid-2022 (Figure 2). The small changes seen in the past few months, when compared with the broadly stable values over the past year, have created a fall in the annual inflation rate, even though the index levels remain high. We explain this in further detail in our [Beware base effects blog post](#).

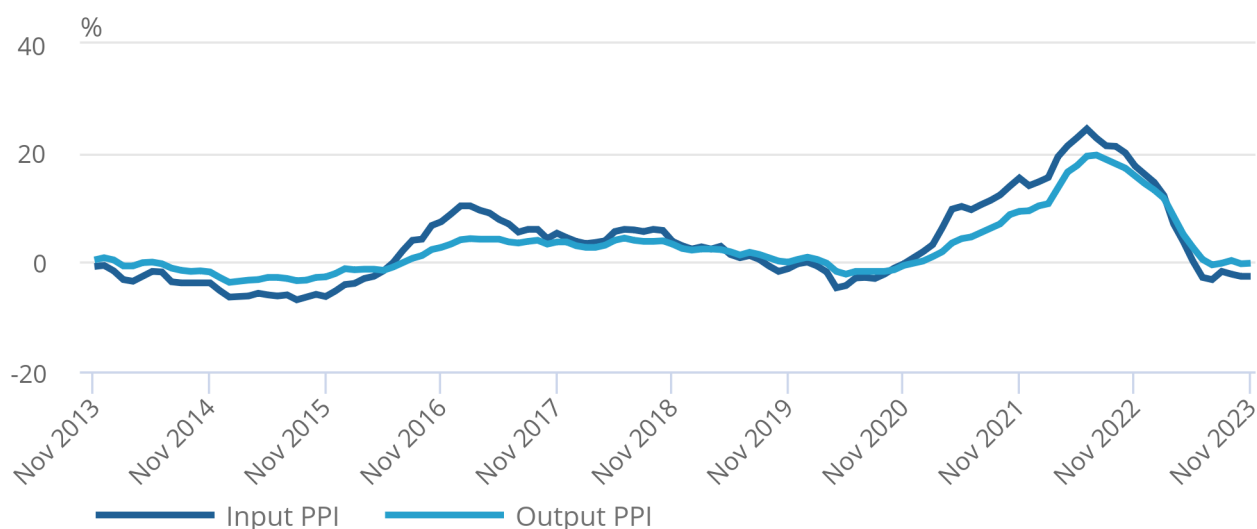
The figures for both October and November 2023 are provisional, and figures for the latest 12 months are subject to revisions as additional survey data are returned and validated. Effective response rates at time of first publishing can be found in [Section 8: Strengths and limitations](#).

Figure 1: Annual input and output PPI inflation rates were both negative in November 2023

Input and output Producer Price Index (PPI) annual inflation rates, UK, November 2013 to November 2023

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Input and output Producer Price Index (PPI) annual inflation rates, UK, November 2013 to November 2023



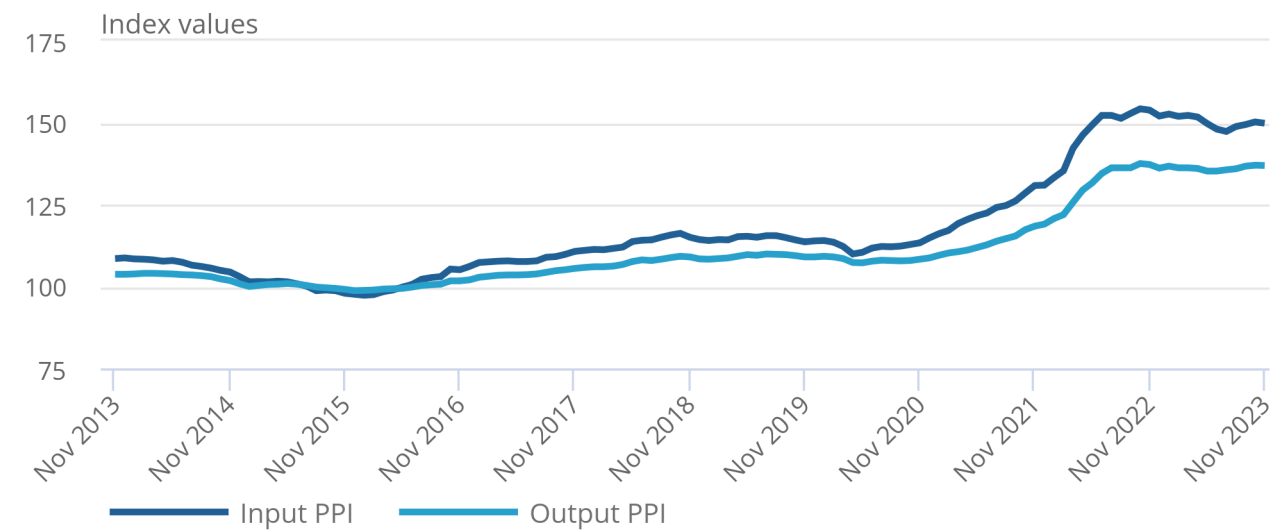
Source: Producer Price Index (PPI) from the Office for National Statistics

Figure 2: The input and output PPI levels remained stable in November 2023

Input and output producer price inflation index values, UK, November 2013 to November 2023

Figure 2: The input and output PPI levels remained stable in November 2023

Input and output producer price inflation index values, UK, November 2013 to November 2023



Source: Producer Price Index (PPI) from the Office for National Statistics

3 . Input producer price inflation

The annual inflation rate of producer input prices was negative 2.6% in the year to November 2023, which is unchanged from October 2023. The monthly producer input inflation rate was negative 0.3% in November 2023, following a revised inflation rate of 0.5% in October 2023 (Table 1).

Table 1: Input producer prices, index values, inflation rates and percentage point change to the annual inflation rate
UK, November 2022 to November 2023

	PPI Index (2015=100)	Monthly inflation rate	Annual inflation rate	Change in the annual inflation rate (percentage points)
2022 Nov	153.8	-0.3	17.6	-2.4
Dec	152.0	-1.1	16.1	-1.5
2023 Jan	152.6	0.4	14.6	-1.5
Feb	151.9	-0.5	12.2	-2.4
Mar	152.2	0.2	7.0	-5.2
Apr	151.7	-0.3	3.8	-3.2
May	149.7	-1.3	0.2	-3.6
Jun	148.0	-1.2	-2.8	-3.0
Jul	147.3	-0.5	-3.2	-0.4
Aug	148.8	1.0	-1.7	1.5
Sep	149.4	0.4	-2.2	-0.5
Oct	150.2	0.5	-2.6	-0.4
Nov	149.8	-0.3	-2.6	0.0

Source: Producer Price Index (PPI) from the Office for National Statistics

Notes

1. Rates may not correspond to index value changes because of rounding.

The largest downward contributions to the annual input inflation rate in November 2023 came from inputs of chemicals and inputs of metals, which contributed 1.36 and 1.06 percentage points, respectively (Figure 3). Chemical and metal prices fell by 8.3% and 2.6%, respectively, in the year to November 2023 (Table 2).

Inputs of other parts and equipment provided the largest upward contribution, at 1.23 percentage points.

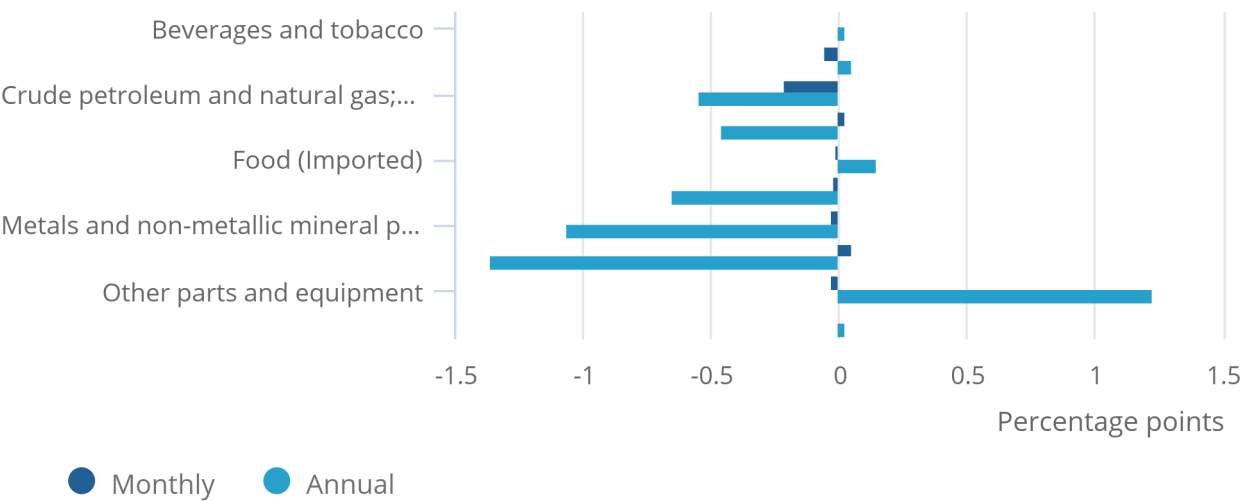
As indicated in our [Classification review of the Energy Bills Discount Scheme statement](#), the data relating to the inputs of fuel now reflect the impact of the [Energy Bills Discount Scheme \(EBDS\)](#), which took effect from April 2023.

Figure 3: Chemicals and metals provided the largest downward contributions to the annual inflation rate of input PPI in November 2023

Input Producer Price Index (PPI), contribution to monthly and annual inflation rate, UK, November 2023

Figure 3: Chemicals and metals provided the largest downward contributions to the annual inflation rate of input PPI in November 2023

Input Producer Price Index (PPI), contribution to monthly and annual inflation rate, UK, November 2023



Source: Producer Price Index (PPI) from the Office for National Statistics

Notes:

1. Contributions to the rate may not add up to the rate exactly because of rounding.
2. Fuel covers electricity and gas (D35), and coal (B05), of the [classification of products by activity \(CPA 2.1\)](#)

Table 2: Input producer prices, inflation rates
UK, October and November 2023

Product group	October 2023		November 2023	
	Monthly inflation rate	Annual inflation rate	Monthly inflation rate	Annual inflation rate
Beverages and tobacco	0.0	10.1	0.4	9.3
Fuel	0.1	15.5	-1.0	2.4
Crude petroleum and natural gas; Metal ores	3.1	-10.2	-3.2	-6.3
Food (Domestic)	0.5	-2.3	0.2	-2.6
Food (Imported)	0.8	9.2	-0.4	8.1
Other produced material	0.2	-6.2	-0.2	-4.8
Metals and non-metallic mineral products	0.3	-3.4	-0.1	-2.6
Chemicals	0.3	-8.0	0.3	-8.3
Other parts and equipment	0.5	1.4	-0.2	1.6
Other inputs	0.4	3.0	-0.2	2.5
Manufactured products	0.5	-2.6	-0.3	-2.6

Source: Producer Price Index (PPI) from the Office for National Statistics

Positive and negative contributions to the input Producer Price Index (PPI) annual rate offset each other this month. By far, the largest downward contribution was inputs of fuel, at 0.56 percentage points (Figure 4). This reflected a 1% fall in fuel prices between October and November 2023 (compared with a rise of 11.7% a year ago).

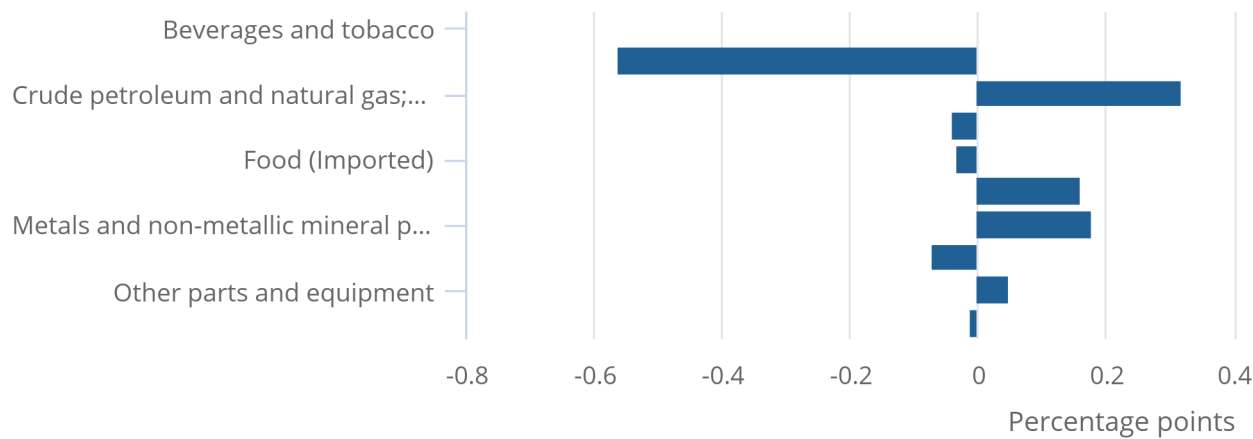
Three of the 10 product groups for input Producer Price Index (PPI) showed significant upward contributions to the change in the annual inflation rate, with inputs of crude petroleum providing the largest, at 0.32 percentage points. Crude petroleum prices fell by 3.2% between October and November 2023; however, the annual inflation rate rose from negative 10.2% in October to negative 6.3% in November.

Figure 4: Fuel provided the largest downward contribution to the change in the annual inflation rate of input PPI whilst crude petroleum provided the largest upward contribution

Input Producer Price Index (PPI), contribution to change in the annual inflation rate, UK, November 2023

Figure 4: Fuel provided the largest downward contribution to the change in the annual inflation rate of input PPI whilst crude petroleum provided the largest upward contribution

Input Producer Price Index (PPI), contribution to change in the annual inflation rate, UK, November 2023



Source: Producer Price Index (PPI) from the Office for National Statistics

Notes:

- 1. Contributions to the rate may not add up to the rate exactly because of rounding.

The prices of materials and fuels imported by UK manufacturing fell by 1.1% between October and November 2023, compared with a revised increase of 0.9% between September and October. The annual inflation rate was negative 2.5% in November, up from a revised rate of negative 3.8% in October (Table 3).

Table 3: Imported materials and fuels purchased and sterling effective exchange rate, index values, inflation rates and percentage point change to the annual inflation rate
UK, November 2022 to November 2023

	PPI Index (2015=100)	Monthly inflation rate	Annual inflation rate	Change in the annual inflation rate (percentage points)	Sterling Index (Jan 2005=100)	Monthly rate	Annual rate
2022 Nov	147.1	-2.4	19.7	-4.6	78.1	1.5	-4.1
Dec	144.0	-2.1	16.6	-3.1	79.0	1.2	-2.9
2023 Jan	145.5	1.0	17.3	0.7	78.3	-1.0	-5.3
Feb	146.0	0.4	14.7	-2.6	77.8	-0.6	-5.8
Mar	145.1	-0.6	8.5	-6.2	78.3	0.6	-4.3
Apr	143.7	-1.0	5.2	-3.3	79.3	1.3	-2.4
May	141.7	-1.4	1.1	-4.1	80.1	1.0	0.3
Jun	139.7	-1.5	-2.7	-3.8	81.7	2.0	3.0
Jul	138.6	-0.8	-3.1	-0.4	82.6	1.1	4.6
Aug	140.7	1.5	-2.1	1.0	82.3	-0.3	4.1
Sep	143.7	2.1	-4.0	-1.9	81.4	-1.1	6.7
Oct	145.0	0.9	-3.8	0.2	80.5	-1.1	4.6
Nov	143.4	-1.1	-2.5	1.3	81.0	0.6	3.7

Source: Producer Price Index (PPI) from the Office for National Statistics

Notes

1. Rates may not correspond to index value changes because of rounding.
2. Total imports (GD74) represents roughly one-fifth of overall materials and fuels (input prices) in terms of index weight.

4 . Output producer price inflation

The annual inflation rate of producer output (factory gate) prices was negative 0.2% in the year to November 2023, up from a revised fall of 0.3% in the year to October 2023.

The monthly producer output inflation rate was negative 0.1% in November 2023, following an upwardly revised monthly inflation rate of 0.3% in October 2023 (Table 4).

Table 4: Output producer prices, index values, inflation rates and percentage point change to the annual inflation rate
UK, November 2022 to November 2023

All manufactured products (GB7S)				
	PPI Index (2015=100)	Monthly inflation rate	Annual inflation rate	Change in the annual rate (percentage points)
2022 Nov	137.2	-0.2	15.8	-1.4
Dec	136.1	-0.8	14.4	-1.4
2023 Jan	136.7	0.5	13.2	-1.2
Feb	136.2	-0.4	11.7	-1.5
Mar	136.2	0.1	8.4	-3.3
Apr	136.0	-0.2	5.1	-3.3
May	135.2	-0.6	2.7	-2.4
Jun	135.2	0.0	0.5	-2.2
Jul	135.6	0.3	-0.5	-1.0
Aug	135.9	0.3	-0.2	0.3
Sep	136.7	0.5	0.3	0.5
Oct	137.0	0.3	-0.3	-0.6
Nov	136.9	-0.1	-0.2	0.1

Source: Producer Price Index (PPI) from the Office for National Statistics

Notes

1. Rates may not correspond to index value changes because of rounding.

The largest downward contribution to the annual output inflation rate in November 2023 came from coke and refined petroleum products, which contributed 1.70 percentage points (Figure 5). This product group saw a price fall of 12.8% in the year to November (Table 5), up from a 16.3% fall in the year to October.

Despite providing the second-largest downward contribution to the annual rate, prices for basic metals, fabricated metal products and machinery increased by 2.6% in the year to November 2023. The downward contribution was caused by the 2023 weight for this product group being lower than its weight in 2022. We provide more information in our [Chain-linking in business prices article](#) and in [Section 5 of our Producer price inflation, UK: February 2023](#) bulletin.

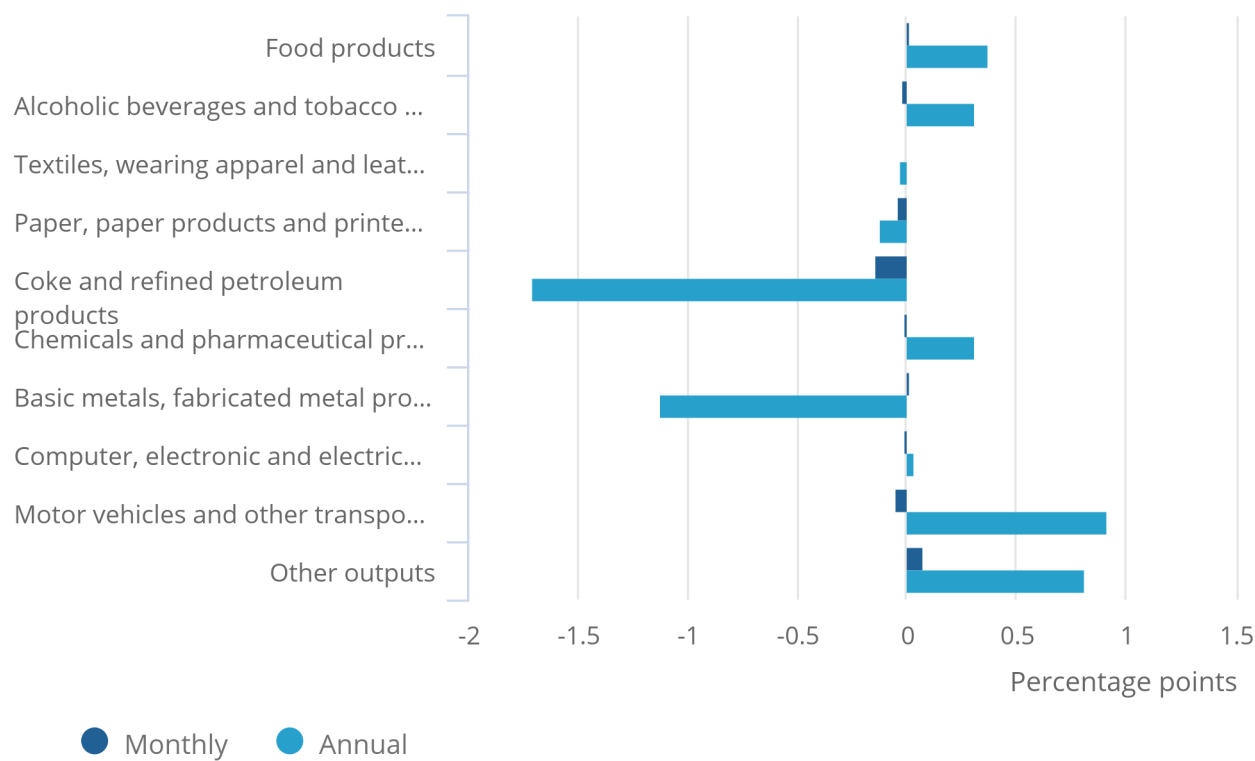
The largest offsetting upward contributions to the annual output inflation rate in November 2023 came from motor vehicles and other transport equipment, and other outputs, which contributed 0.92 and 0.81 percentage points, respectively.

Figure 5: Petroleum provided the largest downward contribution to the annual inflation rate of output PPI in November 2023

Output Producer Price Index (PPI), contribution to monthly and annual inflation rate, UK, November 2023

Figure 5: Petroleum provided the largest downward contribution to the annual inflation rate of output PPI in November 2023

Output Producer Price Index (PPI), contribution to monthly and annual inflation rate, UK, November 2023



Source: Producer Price Index (PPI) from the Office for National Statistics

Notes:

- Contributions to the rate may not add up to the rate exactly because of rounding.

Table 5: Output producer prices, inflation rates
UK, October and November 2023

Product group	October 2023		November 2023	
	Monthly inflation rate	Annual inflation rate	Monthly inflation rate	Annual inflation rate
Food products	-0.1	2.8	0.1	2.1
Alcoholic beverages and tobacco products	-0.1	13.6	-0.4	12.5
Textiles, wearing apparel and leather products	-0.4	5.7	1.2	7.4
Paper, paper products and printed material	-0.2	-2.7	-0.6	-3.4
Coke and refined petroleum products	3.8	-16.3	-1.9	-12.8
Chemicals and pharmaceutical preparations	0.1	-10.1	0.0	-12.5
Basic metals, fabricated metal products and machinery	0.3	2.4	0.1	2.6
Computer, electronic and electrical products	0.0	3.4	0.1	3.5
Motor vehicles and other transport equipment	0.1	0.8	-0.4	0.9
Other outputs	0.0	3.0	0.4	3.1
Manufactured products	0.3	-0.3	-0.1	-0.2

Source: Producer Price Index (PPI) from the Office for National Statistics

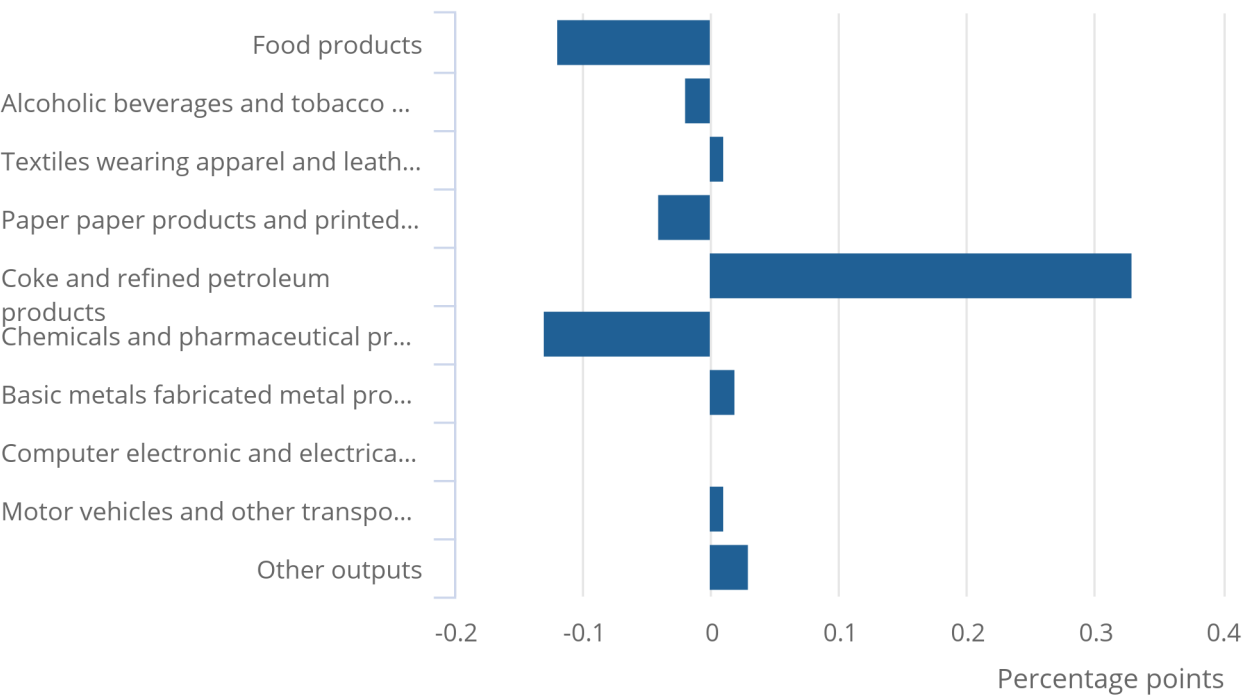
Coke and refined petroleum products provided the largest upward contribution to the change in the annual inflation rate at 0.33 percentage points (Figure 6).

Figure 6: Petroleum products provided the largest upward contribution to the change in the annual output inflation rate

Output Producer Price Index (PPI), contribution to change in the annual inflation rate, UK, November 2023

Figure 6: Petroleum products provided the largest upward contribution to the change in the annual output inflation rate

Output Producer Price Index (PPI), contribution to change in the annual inflation rate, UK, November 2023



Source: Producer Price Index (PPI) from the Office for National Statistics

Notes:

- 1. Contributions to the rate may not add up to the rate exactly because of rounding.

5 . Producer price inflation data

[Producer price inflation time series](#)

Dataset | Released 20 December 2023

A comprehensive selection of data on input and output indices. Contains producer price indices of materials and fuels purchased and output of manufacturing industry by broad sector.

[Output and input producer price inflation: contributions to the annual rates](#)

Dataset | Released 20 December 2023

Contributions to the annual inflation rates of input and output producer price inflation by component and overall inflation rates.

[Producer price inflation](#)

Dataset MM22 | Released 20 December 2023

UK price movement data at all manufacturing, aggregated industry and product group levels. Data supplied from individual manufacturers, importers and exporters. Monthly, quarterly and annual data.

6 . Glossary

Weight

This is the importance of the price of interest relative to other prices collected. With annual chain-linking, this is updated every year using business turnover data.

Index value

Price level in a specific basket of goods.

Annual growth rate

The annual inflation rate.

Link factor

A smoothing factor applied to create a continuous series following a weights change.

Contribution

A measure of influence that the index has on the overall growth rate. This depends on both the magnitude of the weight and the inflation rate. A positive contribution is an index that is attributed to a change in the annual growth rate value. Where the contribution is positive but the growth is negative, this indicates that the index is reducing the annual growth rate (for example, the growth rate would be higher if this index had a lower weight).

Producer price inflation

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).

If the producer price inflation rate is a positive value, this indicates that prices have risen, while a negative value indicates that prices have fallen.

Input prices

The input price measures the price of materials and fuels bought by UK manufacturers for processing. It includes materials and fuels that are both imported or sourced within the domestic market. It is not limited to materials used in the final product but includes what is required by businesses in their normal day-to-day running, such as fuels.

Output prices

The factory gate price (output price) is the amount received by UK producers for the goods that they sell to the domestic market. It includes the margin that businesses make on goods, in addition to costs such as labour, raw materials and energy, as well as interest on loans, site or building maintenance, or rent.

Services producer price inflation

Quarterly estimates monitoring the changes in prices charged for services provided to UK-based customers for a range of industries.

7 . Measuring the data

Producer prices development plan

The Office for Statistics Regulation (OSR) quality report of the Producer Price Indices (PPI) was published in July 2023. The report notes the excellent progress made recently in bringing PPI in line with methodological best practice, but also highlights areas that need to be improved.

Read the [full OSR report](#).

The [Producer prices development plan](#) was published in October 2023 detailing the work that will be undertaken over the next year to improve the quality of PPI data and continue to meet user needs.

The Producer Price Index

The PPI uses contributions to identify how indices influence the overall inflation rate. This section gives additional information on the calculation and how to interpret it.

Example scenarios

The following gives examples of how weight and inflation rate changes most commonly affect the contribution. In PPI, the weights usually have greater influence on the contribution, as these tend to show greater change than the annual inflation rate:

- decrease in weight and in inflation rate – contribution is negative
- decrease in weight, increase in inflation rate – contribution is usually negative
- no change in weight or inflation rate – no change
- no change in weight, increase in inflation rate – contribution is usually positive
- increase in weight, decrease in inflation rate – contribution is usually positive
- increase in weight, no change in inflation rate – contribution is positive
- increase in weight, increase in inflation rate – contribution is positive

Contributions are calculated using the following formula:

$$\frac{(\text{weight} \times \text{index value} \times \text{link factor}) \text{ for current year} - (\text{weight} \times \text{index value} \times \text{link factor}) \text{ for previous year}}{\text{chain linked value for the overall index}}$$

Quality and methodology information (QMI) on strengths, limitations, appropriate uses, and how the data were created is available in our [Producer price indices QMI](#) and our [Services Producer Price Inflation QMI](#).

Other useful documentation from the Office for National Statistics for the PPI and the Services Producer Price Index (SPPI) are:

- [Producer Price Indices methods changes article](#)
- [Chain-linking in business prices article](#)
- [Producer price weight changes article](#)
- [Services producer price weight changes article](#)
- [Guidance on using indices in Indexation Clauses \(PDF, 197KB\)](#)
- [PPI methods and guidance \(PDF, 1.14MB\)](#)
- [SPPI user guidance and methodology article](#)
- [PPI standard errors: 2017 datasets](#)
- [UK SPPI standard errors: 2016 to 2017 article](#)

Sterling effective exchange rate

The sterling effective exchange rate measures changes in the strength of sterling relative to baskets of other currencies. The sterling effective exchange rate is only indicative of the rates applied to producer prices. This is because the sterling effective exchange rate is a trade-weighted index that represents all UK trade, whereas producer prices reflect transactions in the manufacturing sector.

Data revisions policy

Figures for the latest two months are provisional, and the latest 12 months are subject to revisions because of late and revised respondent data. The PPI revision policy is now in line with that of the national accounts. Published information on our [revisions policy](#) and revisions triangles shows how estimates are revised over time.

8 . Strengths and limitations

Strengths

These data:

- provide users with valuable insight into the changes in the prices of goods and services bought and sold by UK manufacturers
- are comprehensive, covering many products at a much greater level of detail than other surveys
- are internationally comparable with any country using the classification by product activity (CPA) or the central product classification (CPC) systems
- are created using a rotational sampling method to enable many new products and new respondents to be included
- are chain-linked annually to improve results in deflation by reducing substitution bias

Limitations

The limitations are that:

- some products are produced by only a small number of manufacturers, meaning that there may not be enough manufacturers for a detailed and robust analysis, and the sector may be volatile, requiring some estimation
- the data can be revised for 12 months
- the data for the latest two months of the Producer Price Index (PPI) and two quarters of the Services Producer Price Index (SPPI) are provisional

Response rates in November 2023

The response rates for the domestic PPI, Import Price Index (IPI) and Export Price Index (EPI) all increased between October and November 2023 (Table 6).

Table 6: Producer Price Index (PPI), Import Price Index (IPI) and Export Price Index (EPI) overall effective response rates at time of first publishing
Percentage, UK, November 2022 to November 2023

Weighted response			
	PPI (domestic)	IPI	EPI
November 2022	78.0	73.3	71.7
December 2022	78.2	72.9	73.7
January 2023	77.9	71.7	73.9
February 2023	78.1	78.9	78.2
March 2023	77.8	75.4	74.7
April 2023	78.9	79.3	74.6
May 2023	78.3	82.2	75.8
June 2023	76.1	80.4	77.7
July 2023	74.8	82.4	72.2
August 2023	79.0	83.9	77.3
September 2023	80.3	80.8	73.4
October 2023	81.0	81.3	75.0
November 2023	84.7	84.6	78.9

Source: Producer Price Index (PPI) from the Office for National Statistics

9 . Related links

[Consumer price inflation, UK](#)

Bulletin | Released monthly

Price indices, percentage changes and weights for the different measures of consumer price inflation.

[UK House Price Index](#)

Bulletin | Released monthly

Monthly house price inflation in the UK, calculated using data from HM Land Registry, Registers of Scotland, and Land and Property Services Northern Ireland.

[Construction output in Great Britain: September 2023, new orders and Construction Output Price Indices, July to September 2023](#)

Bulletin | Released 10 November 2023

Short-term measures of output by construction industry in September 2023, contracts awarded for new construction work in Great Britain and a summary of the Construction Output Price Indices (OPIs) in the UK for Quarter 3 (July to Sept) 2023.

[GDP monthly estimate, UK](#)

Bulletin | Released monthly

Gross domestic product (GDP) measures the value of goods and services produced in the UK. It estimates the size of and growth in the economy.

10 . Cite this statistical bulletin

Office for National Statistics (ONS), released 20 December 2023, ONS website, statistical bulletin, [Producer price inflation, UK: November 2023](#)

Table 1: Output prices: summary (not seasonally adjusted) - CPA 2.1

2015=100, CPA 2.1

Manufactured Products for Domestic Market, excluding duty				Manufactured products excluding food beverages, tobacco, & petroleum products for domestic market				Coke and refined petroleum products, excluding duty				Food products, beverages and tobacco, excluding duty			
percentage change over				percentage change over				percentage change over				percentage change over			
Index (2015=100)	1 mth	12 mths		Index (2015=100)	1 mth	12 mths		Index (2015=100)	1 mth	12 mths		Index (2015=100)	1 mth	12 mths	
6150333333				6150333390				6140190000				6150888897			
	GB7S				GBBV				G6ST				GBA6		
2023 May	135.2	-0.6	2.7	134.4	-0.5	3.9		179.2	-5.9	-31.5		134.1	0.1	11.7	
Jun	135.2r	-	0.5	134.4r	-	3.2		178.8	-0.2	-39.3		134.1r	-	9.4	
Jul	135.6r	0.3	-0.5	134.6r	0.1	2.4		185.5	3.7	-38.4		134.1r	-	7.5	
Aug	135.9r	0.3	-0.2	134.4r	-0.1	1.7		201.4	8.6	-29.4		133.3	-0.6	6.0	
Sep	136.7	0.5	0.3	134.4	-	1.0		219.8	9.1	-17.2		132.9	-0.3	4.8	
Oct	137.0p	0.3	-0.3	134.5p	0.1	0.4		228.2p	3.8	-16.3		132.8p	-0.1	3.7	
Nov	136.9p	-0.1	-0.2	134.5p	-	0.2		223.8p	-1.9	-12.8		133.0p	0.2	3.0	

Source: Office for National Statistics

p = provisional
r = revised

Manufactured Products for Domestic Market, including duty				Food products, beverages and tobacco, including duty				Coke and refined petroleum products, including duty			
percentage change over				percentage change over				percentage change over			
Index (2015=100)	1 mth	12 mths		Index (2015=100)	1 mth	12 mths		Index (2015=100)	1 mth	12 mths	
6158333333				6158888897				6148190000			
	GD73				GBA7				G6SU		
2023 May	131.2	-0.8	-0.4	133.9	0.1	11.8		128.1	-3.1	-19.6	
Jun	131.2r	-0.1	-3.4	133.9	-	9.4		127.7	-0.3	-25.9	
Jul	131.7r	0.4	-4.4	134.0	-	7.6		130.2	1.9	-26.4	
Aug	132.6r	0.7	-3.1	133.2r	-0.6	6.3		136.1	4.5	-20.0	
Sep	134.0	1.1	-1.3	132.9	-0.3	5.0		143.4	5.4	-11.2	
Oct	134.7p	0.5	-1.6	132.7p	-0.1	3.9		146.7p	2.3	-10.2	
Nov	134.5p	-0.2	-1.2	133.2p	0.3	3.4		145.0p	-1.2	-8.2	

Source: Office for National Statistics

p = provisional
r = revised

Table 2: Gross sector input prices, including Climate Change Levy¹: summary (not seasonally adjusted) - CPA 2.1

2015=100, CPA 2.1

2015=100, CFA 2.1													
All manufacturing (materials and fuel purchased)				All Manufacturing (materials and fuel purchased) excluding food, beverages, tobacco & petroleum			Materials purchased by manufacturing industry			Fuels purchased by manufacturing industry			
percentage change over				percentage change over			percentage change over			percentage change over			
Index (2015=100)		1 mth	12 mths	Index (2015=100)		1 mth	12 mths	Index (2015=100)		1 mth	12 mths	Index (2015=100)	
7390333333				7390333392			7390333397			7390333394			
2023	May	GHIP		GHIO			GHIK			GHIM			
		149.7	-1.3	0.2	146.9	-1.3	2.3	146.3	-1.2	-1.3	260.4	-4.2	39.5
	Jun	148.0	-1.2	-2.8	145.6	-0.9	0.6	144.4	-1.3	-4.5	264.7	1.6	41.5
	Jul	147.3	-0.5	-3.2	144.7	-0.6	-0.1	143.9	-0.3	-4.7	256.8	-3.0	33.2
	Aug	148.8r	1.0	-1.7	144.6	-0.1	-0.9	145.3	1.0	-2.8	259.6	1.1	24.0
	Sep	149.4	0.4	-2.2	144.9	0.2	-2.0	146.1	0.5	-3.2	257.2	-0.9	19.2
	Oct	150.2p	0.5	-2.6	145.3p	0.3	-2.2	146.9p	0.6	-3.4	257.4p	0.1	16.2
Nov	149.8p	-0.3	-2.6	145.2p	-0.1	-2.6	146.6p	-0.2	-2.9	254.9p	-1.0	3.7	

Source: Office for National Statistics

¹ The Climate Change Levy was introduced in April 2001.

p = provisional

r = revised

2015=100.CPA 2.1

Source: Office for National Statistics

p = provisional
r = revised

Table 4: Input prices, excl Climate Change Levy¹: materials and fuels purchased by selected industries (not seasonally adjusted) - CPA2.1

										2015=100, CPA 2.1	
							Percentage change 1 month		Percentage change 12 months		
		2023 Jul	2023 Aug	2023 Sep	2023 Oct	2023 Nov	2023 Oct	2023 Nov	2023 Oct	2023 Nov	
Gross sector											
Other mining & quarrying products	GHEA	7390080000	158.0	159.5	160.3	160.8p	160.1p	0.4	-0.5	2.9	1.0
Manufacture of food products, beverages, tobacco	GHHV	7390888897	147.2	147.1	146.8	147.6p	147.7p	0.5	0.1	0.2	-0.7
Preserved meat & meat products	GHEF	7390101000	144.1r	144.3r	143.5	143.9p	144.1p	0.3	0.1	-3.2	-3.3
Fish, crustaceans, molluscs, fruit & vegetables	GHEH	7390333387	144.6	142.0r	143.4	144.7p	144.0p	0.9	-0.5	1.0	-1.0
Vegetable & animal oils & fats	GHEJ	7390104000	196.3	200.0	199.2	201.4p	200.9p	1.1	-0.2	4.7	0.6
Dairy products	GHEL	7390105000	147.7	148.1r	147.5	148.0p	148.6p	0.3	0.4	-7.4	-7.3
Grain mill products, starches & starch products	GHEN	7390106000	153.2	153.8r	153.1	154.5p	154.9p	0.9	0.3	0.6	-0.2
Bakery & farinaceous products	GHEP	7390107000	150.5	150.5	150.4	151.3p	151.5p	0.6	0.1	4.0	2.7
Other food products	GHER	7390108000	146.4	146.6	146.6	147.2p	147.2p	0.5	-	6.7	5.4
Animal feeds	GHET	7390109000	148.0r	147.9r	147.0	147.4p	147.6p	0.3	0.1	-3.3	-3.7
Alcoholic Beverages	GHEV	7390333384	149.2	149.5	149.4	150.6p	150.2p	0.8	-0.3	6.4	4.6
Soft drinks; mineral waters & other bottled waters	GHEX	7390110700	136.5	136.0	135.9	136.0p	136.8p	0.1	0.5	4.0	3.4
Tobacco products	GHEZ	7390120000	147.0	147.7	147.7	148.2p	148.5p	0.3	0.2	-8.0	-7.9
Manufacture of textiles & textile products; clothing	GHHW	7390888895	133.0	133.0	133.6	133.2p	134.1p	-0.3	0.7	2.3	2.6
Textiles	GHFB	7390130000	135.1	135.0	135.4	135.1p	135.9p	-0.3	0.6	1.9	1.8
Wearing apparel	GHFD	7390140000	129.3	129.5	130.5	129.8p	130.8p	-0.5	0.8	3.0	4.0
Manufacture of leather & related products	GHFF	7390150000	135.2	134.4r	134.9	135.2p	135.2p	0.2	-	1.9	1.6
Manufacture of wood & wood products	GHFH	7390160000	154.4	154.6	154.2	153.4p	153.0p	-0.5	-0.2	-5.5	-5.5
Manufacture of pulp, paper & paper products, recording media & printing services	GHHZ	7390888892	143.9	143.4	143.3	142.9p	142.8p	-0.3	-	-2.1	-3.0
Pulp, paper & paper products	GHFJ	7390170000	148.0	147.5	147.4	147.0p	147.0p	-0.3	-	-2.5	-3.5
Printing & recording services	GHFL	7390180000	138.4	138.0	137.8	137.4p	137.2p	-0.3	-0.1	-1.5	-2.4
Manufacture of coke & refined petroleum products	GHFN	7390190000	177.9	206.5	213.5	219.7p	213.5p	2.9	-2.8	-10.3	-6.5
Manufacture of chemicals, chemical products & man-made fibres	GHIB	7390888890	151.2r	150.6r	150.8	151.8p	151.3p	0.7	-0.3	-10.7	-12.6
Paints, varnishes & similar coatings, printing ink & mastics	GHFP	7390203000	146.8r	145.3r	144.8	145.3p	145.2p	0.3	-	-5.7	-8.6
Soaps, detergents, cleaning & polishing preparations, perfumes & toilet preparations	GHFR	7390204000	139.4	138.7r	138.9	138.9p	139.2p	-	0.2	-0.5	-0.9
Other chemical products	GHFT	7390205000	140.0r	138.2r	138.4	139.0p	139.0p	0.4	-	-2.0	-2.6
Industrial gases; other basic inorganic chemicals; fertilisers & nitrogen compounds	GHFV	7390333378	162.8r	161.9r	161.4	162.0p	161.3p	0.4	-0.4	-18.5	-22.5
Petrochemicals & man made fibres	GHFX	7390333377	154.3r	154.2r	154.8	156.5p	155.8p	1.1	-0.4	-13.2	-14.2
Dyes & pigments; pesticides & other agrochemical products	GHFZ	7390333376	154.0r	154.5	154.1	155.2p	154.3p	0.7	-0.6	-2.8	-8.8
Manufacture of basic pharmaceutical products & pharmaceutical preparations	GHGB	7390210000	126.3	126.0r	126.0	126.4p	126.4p	0.3	-	-1.2	-0.9
Manufacture of rubber & plastic products	GHGD	7390220000	147.1	146.1	145.9	146.2p	146.6p	0.2	0.2	-3.3	-3.9
Manufacture of cement, lime & plaster	GHGF	7390333375	160.0	160.5	160.5	161.1p	160.6p	0.4	-0.3	4.0	1.3
Manufacture of glass, refractory, clay, other porcelain, ceramic stone products	GHGH	7390333374	156.1	157.1	157.6	158.4p	157.5p	0.5	-0.6	1.9	-0.3
Manufacture of basic metals & fabricated products	GHIF	7390888884	170.3	171.1r	171.7	172.2p	171.8p	0.3	-0.2	-3.2	-3.4
Basic iron, steel & alloys: tubes, pipes, hollow profiles	GHGJ	7390333369	183.6	184.4r	184.5	185.4p	184.9p	0.5	-0.3	-6.5	-7.5
Other basic metals & casting	GHGL	7390333368	181.1	184.2r	187.0	187.3p	186.1p	0.2	-0.6	-3.1	-2.8
Weapons & ammunition	GHGN	7390254000	145.2	145.2	145.5	145.8p	145.8p	0.2	-	3.9	3.6
Fabricated metal products, excluding machinery & equipment & weapons & ammunition	GHGP	7390333365	163.8	163.7	163.7	164.1p	164.0p	0.3	-0.1	-2.6	-2.7
Manufacture of computer, electronic & optical products, electrical equipment	GHIG	7390888883	137.9r	137.9r	138.4	138.7p	138.8p	0.2	0.1	0.5	0.8
Computer, electronic & optical products	GHGR	7390260000	134.8r	134.8	135.3	135.5p	135.6p	0.2	0.1	0.6	0.7
Electrical equipment	GHGT	7390270000	141.4	141.5r	141.9	142.3p	142.5p	0.3	0.1	0.5	0.8
Manufacture of machinery & equipment n.e.c	GHGV	7390280000	146.5	146.4	146.6	147.0p	147.0p	0.3	-	-0.2	0.2
Manufacturing of motor vehicles & other transport equipment	GHII	7390888881	137.4r	137.6r	138.4	139.0p	138.8p	0.4	-0.1	-1.1	-0.8
Motor vehicles, trailers & semi trailers	GHGX	7390290000	133.7	133.5	133.8	134.1p	134.2p	0.2	0.1	-0.2	-0.1
Ships & boats	GHGZ	7390301000	144.5r	144.3r	144.2	144.3p	143.9p	0.1	-0.3	-1.0	-1.1
Aircraft & spacecraft & related machinery	GHHB	7390303000	145.6	146.5	148.5	149.9p	149.0p	0.9	-0.6	-3.1	-2.1
Other transport equipment	GHHD	7390333358	125.9	127.1	127.4	127.6p	127.7p	0.1	0.1	2.2	2.4
Manufacture of other manufactured goods n.e.c	GHIJ	7390888880	149.6	149.7r	150.3	150.0p	150.0p	-0.2	-	-1.9	-1.7
Furniture	GHHF	7390310000	150.6	150.6	150.7	150.1p	150.1p	-0.4	-	-3.0	-2.6
Other manufacturing	GHHH	7390320000	148.8	149.0r	149.9	150.0p	149.9p	0.1	-	-1.1	-1.0
Repair & maintenance of ships & boats	GHHJ	7390331500	144.0r	143.8r	143.1	143.1p	143.1p	-	-	-4.1	-3.6
Repair & maintenance services of aircraft & spacecraft	GHHL	7390331600	113.4	114.6	117.2	118.9p	117.5p	1.4	-1.2	-2.6	-1.9
Other repair; installation	GHHN	7390333355	136.1	137.3	138.1	138.7p	138.6p	0.4	-0.1	-0.3	-0.4

Source: Office for National Statistics

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

p = provisional
r = revised

Table 5: Input prices: detailed by commodity (not seasonally adjusted) - CPA 2.1

		2015=100, CPA 2.1									
							Percentage change 1 month		Percentage change 12 months		
		2023 Jul	2023 Aug	2023 Sep	2023 Oct	2023 Nov	2023 Oct	2023 Nov	2023 Oct	2023 Nov	
Fuel excl. CCL	FSQ3 7490222295	266.9	270.0r	267.9	268.1p	265.5p	0.1	-1.0	15.5	2.4	
Mining of coal & lignite excl. CCL	GHDW 7390050000	174.7	180.2r	186.8	188.6p	188.3p	1.0	-0.2	-8.5	-9.6	
Electricity excl. CCL	GHHP 7390351000	253.9	257.7	256.0	255.4p	253.5p	-0.3	-0.8	12.7	1.9	
Gas excl. CCL	GHHR 7390444499	240.6	248.9	246.1	255.0p	246.9p	3.6	-3.2	19.4	4.3	
Crude Oil	FSQ4 7490444498	176.5	208.9	215.4	222.1p	214.9p	3.1	-3.2	-10.2	-6.3	
Domestic crude oil & metal ores	GGT3 7190222295	178.1	216.8	216.8	224.6p	224.6p	3.6	-	-11.8	-4.1	
Imported crude oil & metal ores	GHBV 7290222295	173.8	195.1	213.2	217.7p	197.6p	2.1	-9.2	-7.1	-10.5	
Home produced food:	FSP7 7190351000	141.4r	141.0r	140.4	141.1p	141.4p	0.5	0.2	-2.3	-2.6	
Products of agriculture, hunting and related services	GGO7 7190010000	147.1r	148.7r	147.7	148.7p	149.6p	0.7	0.7	-11.5	-10.8	
Fish & other fish products	GGs8 7190030000	136.0r	120.0r	125.2	128.8p	124.9p	2.9	-3.0	-3.3	-8.6	
Preserved meat and meat products	GH2M 7190101000	129.0r	128.0r	126.9	126.9p	126.5p	-	-0.3	5.3	4.7	
Processed fish & fish products; fruit & vegetables	GH7R 7190333387	129.7	129.4	129.4	128.6p	129.8p	-0.6	1.0	8.3	8.9	
Vegetable & animal oils and fats	GH7S 7190104000	192.1	193.1	188.9	190.1p	189.0p	0.6	-0.6	-3.9	-7.0	
Dairy products	GH8A 7190105000	148.8	145.7	146.1	145.0p	144.9p	-0.8	-0.1	-10.4	-10.9	
Grain mill products, starches and starch products	GH8B 7190106000	146.4	145.8	145.2	148.0p	148.8p	1.9	0.6	5.9	5.9	
Bakery and Farinaceous products	GH8C 7190107000	133.2	132.8	133.6	133.3p	133.4p	-0.2	-	7.3	6.0	
Other Food products	GH8L 7190108000	124.5	124.9	125.2	125.6p	126.1p	0.3	0.5	9.4	8.5	
Prepared animal feeds	GH98 7190109000	150.3r	148.5r	146.8	145.0p	144.4p	-1.2	-0.4	-7.2	-8.4	
Imported food materials	FSP9 7490333354	170.8r	171.6	172.5	173.9p	173.3p	0.8	-0.4	9.2	8.1	
Agricultural crop products	GHBQ 7290010000	133.0r	130.5r	130.7	131.0p	131.2p	0.2	0.2	-3.2	-4.0	
Fish & fish products	GHBS 7290030000	153.8	164.8	168.8	171.3p	169.2p	1.5	-1.2	8.7	5.8	
Meat & meat products	GHBX 7290101000	193.1	191.9	190.1	188.4p	185.8p	-0.9	-1.4	6.9	6.3	
Processed fish & fish products, fruit & vegetables	GHBY 7290333387	136.4	136.9r	138.9	139.4p	137.9p	0.4	-1.1	2.7	1.6	
Vegetable & animal oils & fats	GHBZ 7290104000	225.4	238.5	248.0	251.3p	255.3p	1.3	1.6	27.6	21.5	
Dairy products	GHCA 7290105000	171.3	171.3	160.4	161.7p	161.6p	0.8	-0.1	-3.3	-3.9	
Grain mill products & starches	GHCB 7290106000	188.4	188.8	190.4	192.6p	193.4p	1.2	0.4	15.6	17.0	
Bakery & farinaceous products	GHCC 7290107000	184.7	184.7	184.2	185.4p	185.8p	0.7	0.2	19.7	20.0	
Other food products	GHCD 7290108000	244.8	248.0	251.8	259.1p	257.5p	2.9	-0.6	29.4	27.7	
Prepared animal feeds	GHCE 7290109000	173.2	173.1	169.5	172.0p	172.9p	1.5	0.5	-2.7	-1.9	
Other home produced materials	FSQ2 7490333353	145.9	147.4	149.5	149.7p	149.5p	0.2	-0.2	-6.2	-4.8	
Forestry products	GGP2 7190020000	173.5	173.5	169.1	169.1p	169.1p	-	-	-21.9	-21.9	
Other mining & quarrying products exc agg	GH2L 7190080000	148.5r	149.6	149.2	149.4p	148.2p	0.1	-0.8	9.5	4.4	
Textiles	GHAE 7190130000	125.5	125.4	126.0	125.3p	127.2p	-0.6	1.5	6.0	8.3	
Wearing Apparel	GHAF 7190140000	114.2	114.4	114.4	114.4p	114.8p	-	0.4	3.7	3.0	
Leather and related products	GHAG 7190150000	126.4	126.4	127.7	128.5p	128.5p	0.6	-	6.0	6.0	
Wood and products of wood and cork, exc furniture	GHAH 7190160000	154.1	154.2	153.6	151.8p	151.9p	-1.2	0.1	-4.4	-4.0	
Paper and paper products	GHAJ 7190170000	133.4	132.3	132.2	131.8p	131.7p	-0.4	-	-6.6	-6.9	
Coke & refined petroleum products	GHAK 7190190000	185.5	201.4	219.8	228.2p	223.8p	3.8	-1.9	-16.3	-12.8	
Water collection, treatment & supply	GHPB 7190360000	121.8	121.8	121.8	121.8p	121.8p	-	-	9.8	9.8	

Source: Office for National Statistics

p = provisional
r = revised

Table 5: Input prices: detailed by commodity (not seasonally adjusted) - CPA 2.1

										2015=100, CPA 2.1	
							Percentage change 1 month		Percentage change 12 months		
			2023 Jul	2023 Aug	2023 Sep	2023 Oct	2023 Nov	2023 Oct	2023 Nov	2023 Oct	2023 Nov
Inputs of Metals and Non-Metallic Mineral products	FSQ8	7390333351	169.4	169.1	169.6	170.2p	169.9p	0.3	-0.1	-3.4	-2.6
Cement, lime, plaster and articles of concrete, cement & plaster	GHGF	7390333375	160.0	160.5	160.5	161.1p	160.6p	0.4	-0.3	4.0	1.3
Glass, refractory clay, porcelain, ceramic and stone products	GHGH	7390333374	156.1	157.1	157.6	158.4p	157.5p	0.5	-0.6	1.9	-0.3
Basic iron, steel & alloys, tubes, pipes, hollow profiles and fittings	GHGJ	7390333369	183.6	184.4r	184.5	185.4p	184.9p	0.5	-0.3	-6.5	-7.5
Other basic metals & casting	GHGL	7390333368	181.1	184.2r	187.0	187.3p	186.1p	0.2	-0.6	-3.1	-2.8
Weapons & ammunition	GHGN	7390254000	145.2	145.2	145.5	145.8p	145.8p	0.2	-	3.9	3.6
Fabricated metal products excluding weapons & ammunition	GHGP	7390333365	163.8	163.7	163.7	164.1p	164.0p	0.3	-0.1	-2.6	-2.7
Inputs of Chemicals	FSQ7	7490333352	137.6	136.2	136.0	136.4p	136.8p	0.3	0.3	-8.0	-8.3
Paints, varnishes & coatings, printing inks & other mastics	GHFP	7390203000	146.8r	145.3r	144.8	145.3p	145.2p	0.3	-	-5.7	-8.6
Soap, detergents, cleaning & polishing preparations, perfumes & toilet preparations	GHFR	7390204000	139.4	138.7r	138.9	138.9p	139.2p	-	0.2	-0.5	-0.9
Other chemical products	GHFT	7390205000	140.0r	138.2r	138.4	139.0p	139.0p	0.4	-	-2.0	-2.6
Industrial gases, inorganic chemicals, fertilisers & nitrogen compounds	GHFV	7390333378	162.8r	161.9r	161.4	162.0p	161.3p	0.4	-0.4	-18.5	-22.5
Petrochemicals	GHFX	7390333377	154.3r	154.2r	154.8	156.5p	155.8p	1.1	-0.4	-13.2	-14.2
Dyes & pigments; pesticides & other agro-chemical products	GHFZ	7390333376	154.0r	154.5	154.1	155.2p	154.3p	0.7	-0.6	-2.8	-8.8
Basic pharmaceutical products & pharmaceutical preparations	GHGB	7390210000	126.3	126.0r	126.0	126.4p	126.4p	0.3	-	-1.2	-0.9
Rubber & plastic products	GHGD	7390220000	147.1	146.1	145.9	146.2p	146.6p	0.2	0.2	-3.3	-3.9
Other parts & equipment	FSQ9	7490333349	122.1r	122.5r	123.3	123.9p	123.7p	0.5	-0.2	1.4	1.6
Computer, electronic & optical products	GHGR	7390260000	134.8r	134.8	135.3	135.5p	135.6p	0.2	0.1	0.6	0.7
Electrical equipment	GHGT	7390270000	141.4	141.5r	141.9	142.3p	142.5p	0.3	0.1	0.5	0.8
Machinery & equipment n.e.c	GHGV	7390280000	146.5	146.4	146.6	147.0p	147.0p	0.3	-	-0.2	0.2
Motor vehicles, trailers & semi-trailers	GHGX	7390290000	133.7	133.5	133.8	134.1p	134.2p	0.2	0.1	-0.2	-0.1
Ships & boats	GHGZ	7390301000	144.5r	144.3r	144.2	144.3p	143.9p	0.1	-0.3	-1.0	-1.1
Aircraft, spacecraft & related machinery	GHHB	7390303000	145.6	146.5	148.5	149.9p	149.0p	0.9	-0.6	-3.1	-2.1
Other transport equipment	GHHD	7390333358	125.9	127.1	127.4	127.6p	127.7p	0.1	0.1	2.2	2.4
Other Inputs	FSQ6	7490111196	120.9	120.9	121.1	121.6p	121.3p	0.4	-0.2	3.0	2.5
Printing & recording services	GHFL	7390180000	138.4	138.0	137.8	137.4p	137.2p	-0.3	-0.1	-1.5	-2.4
Furniture	GHHF	7390310000	150.6	150.6	150.7	150.1p	150.1p	-0.4	-	-3.0	-2.6
Other manufactured goods n.e.c	GHHH	7390320000	148.8	149.0r	149.9	150.0p	149.9p	0.1	-	-1.1	-1.0
Repair & maintenance of ships and boats	GHHJ	7390331500	144.0r	143.8r	143.1	143.1p	143.1p	-	-	-4.1	-3.6
Repair & maintenance of aircraft and spaceships	GHHL	7390331600	113.4	114.6	117.2	118.9p	117.5p	1.4	-1.2	-2.6	-1.9
Rest of repair and installation	GHHN	7390333355	136.1	137.3	138.1	138.7p	138.6p	0.4	-0.1	-0.3	-0.4
Imported materials:											
Total Imports	GD74	8170111199	138.6	140.7	143.7	145.0p	143.4p	0.9	-1.1	-3.8	-2.5

Source: Office for National Statistics

p = provisional
r = revised

Table 6R: Output prices: revisions (not seasonally adjusted) - CPA 2.1

2015=100, CPA 2.1

Output of manufactured products				All manufacturing excluding food, beverages, tobacco and petroleum			
	Index (2015=100)	percentage change over			Index (2015=100)	percentage change over	
		1 mth	12 mths			1 mth	12 mths
	6150333333				6150333390		
	GB7S				GBBV		
2022 Nov	-	-	-		-	-	-
Dec	-	-	-		-	-	-
2023 Jan	-	-	-		-	-	-
Feb	-	-	-		-	-	-
Mar	-	-	-		-	-	-
Apr	-	-0.1	-		-	-	-
May	-	-	-		-	-	-
Jun	0.2	0.1	0.2		0.3	0.2	0.2
Jul	0.2	-	0.1		0.3	-	0.2
Aug	0.2	-	0.2		0.3	-	0.2
Sep	0.2	-0.1	0.1		0.3	-	0.2
Oct	0.4	0.2	0.3		0.3	-	0.2

Source: Office for National Statistics

Please see Statistical Bulletin section entitled "Revisions" for further information