

Statistical bulletin

# Index of Production, UK: November 2017

Movements in the volume of production for the UK production industries: manufacturing, mining and quarrying, energy supply, and water and waste management. Figures are seasonally adjusted.



Contact:  
Mark Stephens  
indexofproduction@ons.gsi.gov.  
uk  
+44 (0) 1633 456387

Release date:  
10 January 2018

Next release:  
9 February 2018

## Table of contents

1. [Main points](#)
2. [Things you need to know about this release](#)
3. [Index of Production \(IoP\) main figures and the longer-term trend](#)
4. [What is contributing to the three months-on-previous three months increase?](#)
5. [What is contributing to the three months-on-previous three months a year ago increase?](#)
6. [What is contributing to the month-on-month increase?](#)
7. [Revisions to Index of Production](#)
8. [Links to related statistics](#)
9. [What's new in this release?](#)
10. [Quality and methodology](#)

# 1 . Main points

- This is the first Index of Production release to incorporate Value Added Tax (VAT), using data from over 75,000 businesses across 64 industries, on top of the returns from the 6,000 sample each month from the Monthly Business Survey.
- In the three months to November 2017, the Index of Production was estimated to have increased by 1.2% compared with the three months to August 2017, due mainly to a rise of 1.4% in manufacturing.
- There was strong broad-based growth across manufacturing in the three months to November 2017; the largest contribution came from machinery and equipment not elsewhere classified, which included renewable energy equipment, with an increase of 5.6%.
- Total production output increased by 3.3% for the three months to November 2017 compared with the same three months to November 2016, with manufacturing providing the largest upward contribution, increasing by 3.9%; within this sector, transport equipment provided the largest upward contribution, increasing by 6.7%.
- In November 2017, total production was estimated to have increased by 0.4% compared with October 2017; energy supply provided the largest contribution, increasing by 3.2%, due mainly to the temperature being warmer than average in October 2017 and colder than average in November 2017.
- The earliest period open for revision in this release was January 2016; revisions to Index of Production data up to Quarter 3 (July to Sept) 2017 are consistent with [Quarterly national accounts: July to September 2017](#), published on 22 December 2017.

## 2 . Things you need to know about this release

The Index of Production (IoP) is an important economic indicator and one of the short-term measures of economic activity in the UK. It is used in the compilation of gross domestic product (GDP); the production industries' weight accounts for 14.0% of the [output approach to the measurement of GDP](#).

This was the first time Value Added Tax (VAT) data were used in the IoP publication. The VAT data were used to supplement data from the Monthly Business Survey (MBS) from January 2016 to June 2017. VAT data were introduced across 64 production industries for small- and medium-sized businesses. Further information on the use of VAT can be found in section 9.

The IoP measures the UK output in the mining and quarrying; manufacturing; energy supply; and water supply and waste management industries. The IoP estimates are mainly based on the MBS of approximately 6,000 businesses. For periods January 2016 to June 2017, these have been supplemented with turnover data from HM Revenue and Customs (HMRC) VAT returns. For the mining and quarrying, and energy supply sectors, and two manufacturing industries namely coke and refined petroleum, and basic iron and steel, we receive volume data from the [Department for Business, Energy and Industrial Strategy \(BEIS\)](#) and the [International Steel Statistics Bureau \(ISSB\)](#) respectively. Unless otherwise stated, all estimates included in this release are based on seasonally adjusted data.

The current price non-seasonally adjusted estimates of industries collected by the MBS can be found in the MBS production industries dataset, which was published alongside this release. Note that the [MBS production industries dataset](#) does not contain data from VAT returns, which have been included in the IoP.

The [MBS production industries dataset](#) produces the proportion of turnover from exports by industry and level of turnover and exports (£ millions). However, this is not always comparable with UK trade statistics, for a number of reasons. These include, but are not limited to:

- different data sources – MBS are based on a survey of businesses; UK trade in goods uses administrative data collected by HMRC
- different concepts being measured – MBS reports the value of exports as a proportion of the industry's turnover; the UK trade in goods data report the change in ownership between the UK and other countries
- time lag – there can be time lags between the sale of a product reported in MBS and the movements of that product reported by UK trade

Further information on UK trade and how data on it are compiled can be found in the “Things you need to know about this release” section of the [UK trade release](#).

This release was open to revision from January 2016. This is in line with the updated [National Accounts Revisions Policy](#). The use of VAT data as a replacement for the MBS data for some small- and medium-sized businesses has created revisions across the period where VAT turnover has been implemented, from January 2016 to June 2017.

Revisions can be made for a variety of reasons; the most common include:

- late responses to surveys and administrative sources, or changes to original returns
- forecasts being replaced by actual data
- revisions to seasonal adjustment factors, which are re-estimated every month and reviewed annually

Care should be taken when using the month-on-month growth rates as data can often be volatile; longer-term growth rates and examination of the time series allow for better interpretation of the statistics.

Summary information can be found in the [Quality and Methodology Information report](#).

### **3 . Index of Production (IoP) main figures and the longer-term trend**

Figures 1 and 2 show that both the Index of Production (IoP) and Index of Manufacturing (IoM) followed a broadly upward trend following the economic downturn. Growth was more pronounced from the beginning of 2010, as the economy recovered, before a downturn during 2012. Since then, both production and manufacturing output have risen but remain below their level reached in the pre-downturn gross domestic product (GDP) peak in Quarter 1 (Jan to Mar) 2008, by 5.1% and 1.1% respectively in the three months to November 2017.

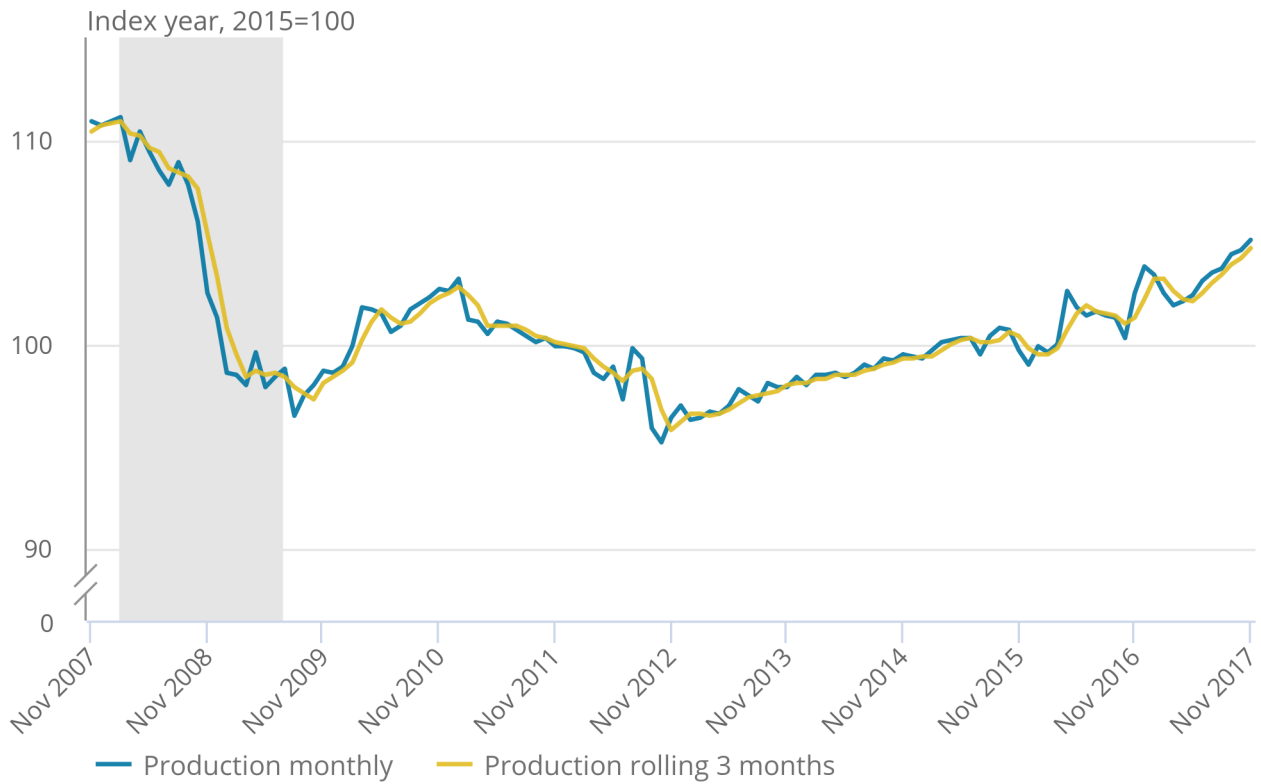
## Figure 1: Index of Production in UK

Seasonally adjusted, November 2007 to November 2017

Economic  
downturn

## Figure 1: Index of Production in UK

Seasonally adjusted, November 2007 to November 2017



Source: Primarily Monthly Business Survey (Production and Services) - Office for National Statistics

### Notes:

1. Quarter 1 (Jan to Mar) 2008 to Quarter 2 (Apr to June) 2009 – UK economic downturn.

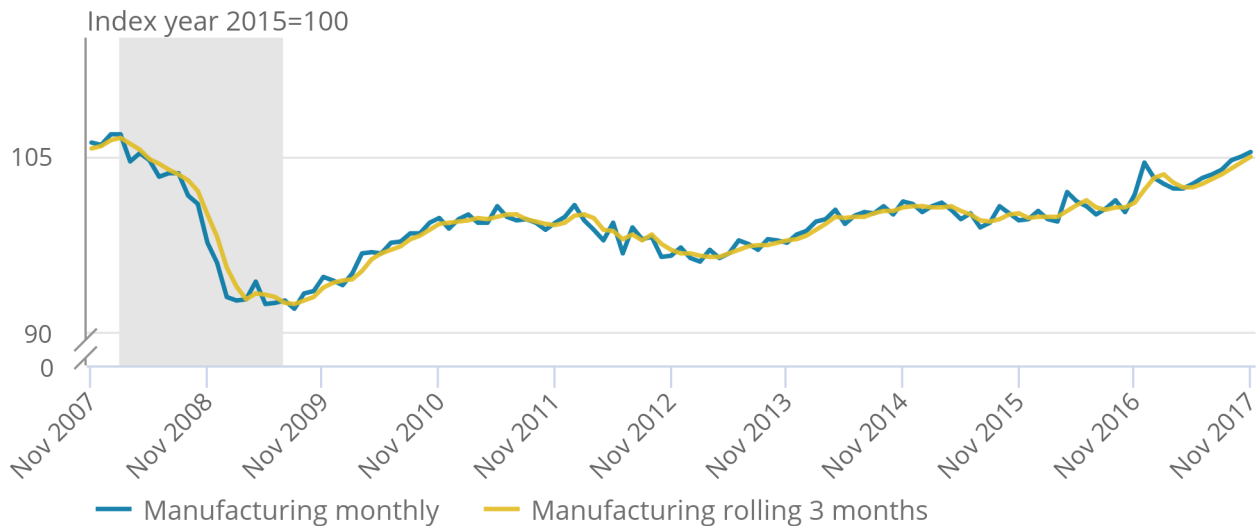
## Figure 2: Index of Manufacturing in UK

Seasonally adjusted, November 2007 to November 2017

Economic  
downturn

## Figure 2: Index of Manufacturing in UK

Seasonally adjusted, November 2007 to November 2017



Source: Primarily Monthly Business Survey (Production and Services) - Office for National Statistics

### Notes:

1. Quarter 1 (Jan to Mar) 2008 to Quarter 2 (Apr to June) 2009 – UK economic downturn.

Table 1 shows the growth rates and contributions for the IoP and main sectors for November 2017. The three months-on-previous three months estimate of total production rose by 1.2% in November 2017, with rises in three of the four main sectors. Manufacturing provided the largest upward contribution, increasing by 1.4% and was supported by rises in mining and quarrying, and energy supply.

The monthly estimate of total production increased by 0.4%. There were rises in two of the four main sectors, with energy supply providing the largest upward contribution, increasing by 3.2%. This was supported by manufacturing, which rose by 0.4%.

**Table 1: Index of Production headline growth rates and contributions, November 2017, UK**

Description	% of production <sup>1</sup>	Month on previous month growth (%)	Contribution to production (% points)	Most recent 3 months on previous 3 months growth (%)	Contribution to production (% points)
IoP	100.0	0.4	0.44	1.2	1.21
Mining and quarrying	8.7	-1.4	-0.12	2.1	0.19
Manufacturing	72.0	0.4	0.26	1.4	1.02
Electricity, gas, steam and air conditioning	12.0	3.2	0.36	0.7	0.09
Water supply, sewerage and waste management	7.2	-0.8	-0.06	-1.0	-0.08

Source: Office for National Statistics

Notes:

1. "% of production" column does not add up to 100 due to rounding.

## 4 . What is contributing to the three months-on-previous three months increase?

In the three months on previous three months to November 2017, total production was estimated to have increased by 1.2% (Table 2); this followed an increase of 1.2% in the three months to October 2017 and was the fifth consecutive increase.

Manufacturing provided the largest upward contribution to total production, rising by 1.4%, due to broad-based strength within the sector and following an increase of 1.3% in the three months to October 2017. Out of the 13 sub-sectors, 12 experienced growth over this period. Machinery and equipment not elsewhere classified provided the largest contribution, rising by 5.6%, the strongest growth since November 2010 when it rose by 6.4%. Evidence collected from some of the larger businesses in this industry confirmed that increased turnover was due to work carried out on large-scale projects including renewable energy. In the three months to November 2017, compared with the three months to August 2017, increases in export turnover of 5.3% and domestic turnover of 13.4% were reported by this industry; this was published today in the [Monthly Business Survey \(MBS\) production industries dataset](#). However, it is important to note that this dataset is based on current prices and does not reflect the impact of price changes, and is not seasonally adjusted.

The increase of 2.1% in transport equipment was a continuation of the recent strength in the index level for this sub-sector, as evidenced in our [UK Index of Production: October 2017 bulletin](#). Motor vehicles, trailers and semi-trailers provided the largest contribution to growth in this sub-sector; there was a strong increase in exports during October 2017, which contributed to the rise and has offset some of the fall seen in the month of November 2017, where domestic production of motor vehicles fell.

**Table 2: Growths and contributions to production, 3 months-on-previous 3 months, November 2017, UK**

<b>Sector</b>	<b>Summary description</b>	<b>3 months on previous 3 months growth (percentage)</b>	<b>Contribution to production (percentage points)</b>
IoP	Index of Production	1.2	1.21
<b>Sector B</b>	<b>Total Mining and Quarrying</b>	<b>2.1</b>	<b>0.19</b>
5	Coal and Lignite	-8.6	0.00
6	Crude petroleum and Natural gas	3.0	0.20
789	Other mining and quarrying	-0.6	-0.01
<b>Sector C</b>	<b>Total Manufacturing</b>	<b>1.4</b>	<b>1.02</b>
CA	Food, beverages and tobacco	0.4	0.04
CB	Textiles and leather products	-5.9	-0.15
CC	Wood, paper and printing	0.2	0.01
CD	Coke and petroleum	3.0	0.04
CE	Chemical products	1.7	0.08
CF	Pharmaceutical products	1.5	0.07
CG	Rubber and plastic products	0.9	0.05
CH	Metal products	2.6	0.21
CI	Computer, electronic and optical	2.0	0.07
CJ	Electrical equipment	0.7	0.02
CK	Machinery and equipment	5.6	0.25
CL	Transport equipment	2.1	0.22
CM	Other manufacturing and repair	1.4	0.10
<b>Sector D</b>	<b>Total Electricity and Gas</b>	<b>0.7</b>	<b>0.09</b>
35.1	Electric power generation, transmission and distribution	0.5	0.04
35.2-3	Manufacture of gas; distribution of gaseous fuels through mains; steam and aircon supply	1.3	0.05
<b>Sector E</b>	<b>Total Water</b>	<b>-1.0</b>	<b>-0.08</b>
36	Water collection, treatment and supply	-1.0	-0.02
37	Sewerage	-1.1	-0.03
38	Waste collection, treatment and disposal activities; materials recovery	-0.9	-0.03
39	Remediation activities and other waste management services	-2.0	0.00

Source: Office for National Statistics

## **5 . What is contributing to the three months-on-previous three months a year ago increase?**

Total production increased by 3.3% in the three months to November 2017, compared with the same three months to November 2016 (Table 3). This is the 21st consecutive increase since March 2016.

The largest upwards contribution came from manufacturing, which increased by 3.9%, due mainly to broad-based strength, with 9 of the 13 sub-sectors increasing. This was the strongest increase since March 2011, when it increased by 4.6%. This was supported by increases of 7.5% in mining and quarrying and 0.9% in water supply and waste management.



**Table 3: Growths and contributions to production, 3 months-on-previous 3 months a year ago, November 2017, UK**

<b>Sector</b>	<b>Summary description</b>	<b>3 months on previous 3 months a year ago growth (percentage)</b>	<b>Contribution to production (percentage points)</b>
IoP	Index of Production	3.3	3.30
<b>Sector B</b>	<b>Total Mining and Quarrying</b>	<b>7.5</b>	<b>0.63</b>
5	Coal and Lignite	-38.1	0.00
6	Crude petroleum and Natural gas	8.3	0.54
789	Other mining and quarrying	5.2	0.10
<b>Sector C</b>	<b>Total Manufacturing</b>	<b>3.9</b>	<b>2.77</b>
CA	Food, beverages and tobacco	2.1	0.25
CB	Textiles and leather products	-0.5	-0.01
CC	Wood, paper and printing	3.0	0.15
CD	Coke and petroleum	-2.0	-0.03
CE	Chemical products	5.2	0.24
CF	Pharmaceutical products	-2.1	-0.11
CG	Rubber and plastic products	-1.0	-0.06
CH	Metal products	4.3	0.36
CI	Computer, electronic and optical	8.5	0.28
CJ	Electrical equipment	1.4	0.03
CK	Machinery and equipment	9.7	0.43
CL	Transport equipment	6.7	0.70
CM	Other manufacturing and repair	7.5	0.53
<b>Sector D</b>	<b>Total Electricity and Gas</b>	<b>-1.4</b>	<b>-0.17</b>
35.1	Electric power generation, transmission and distribution	-0.1	-0.01
35.2-3	Manufacture of gas; distribution of gaseous fuels through mains; steam and aircon supply	-4.1	-0.16
<b>Sector E</b>	<b>Total Water</b>	<b>0.9</b>	<b>0.07</b>
36	Water collection, treatment and supply	-0.9	-0.02
37	Sewerage	2.2	0.05
38	Waste collection, treatment and disposal activities; materials recovery	1.4	0.04
39	Remediation activities and other waste management services	-5.5	0.00

Source: Office for National Statistics

## 6 . What is contributing to the month-on-month increase?

The monthly estimate of total production increased by 0.4% in November 2017 (Table 4). This is the eighth consecutive monthly rise and there were rises in two of the four main sectors.

Energy supply provided the largest upward contribution, increasing by 3.2%. Within this sector, gas distribution and supply rose by 6.1%. The variation in the average temperature in November 2017 compared with October 2017 contributed to this rise. The [Met Office](#) reported that for November 2017, the provisional UK mean temperature was 5.8 degrees Celsius, which was 0.4 degrees Celsius below the 1981 to 2010 long-term average. For October 2017, the temperature was 11.3 degrees Celsius, this was 1.8 degrees Celsius above the 1981 to 2010 long-term average.

Manufacturing output also provided an upward contribution to the month-on-month increase, rising by 0.4%, continuing the recent increases in this sector, rising for the seventh consecutive month.

Partially offsetting the broad-based strength within manufacturing was a fall of 3.4% in transport equipment. The downward contribution came from a decrease of 7.1% in motor vehicles, trailers and semi-trailers; the largest fall since August 2014 when it fell by 7.7%. In the Monthly Business Survey (MBS), containing non-seasonally adjusted current price data, a decrease in export turnover of 9.9% was reported by this sub-industry for November 2017 compared with October 2017. This was published in our [MBS production industries dataset](#). The fall in export turnover followed a rise in October 2017 to a record level, exceeding £4.0 billion for the first time, while the value of exports fell back to £3.7 billion in November 2017. Further commentary on the relative strength of exports, in comparison with home turnover for this sub-industry, can be found in our [UK Index of Production: October 2017 bulletin](#).

**Table 4: Growths and contributions to production, month-on-previous month, November 2017, UK**

<b>Sector</b>	<b>Summary description</b>	<b>Month on previous month growth (percentage)</b>	<b>Contribution to production (percentage points)</b>
IoP	Index of Production	0.4	0.44
Sector B	Total Mining and Quarrying	-1.4	-0.12
5	Coal and Lignite	3.1	0.00
6	Crude petroleum and Natural gas	-2.0	-0.14
789	Other mining and quarrying	0.7	0.01
Sector C	Total Manufacturing	0.4	0.26
CA	Food, beverages and tobacco	1.0	0.11
CB	Textiles and leather products	1.5	0.04
CC	Wood, paper and printing	0.7	0.03
CD	Coke and petroleum	-2.2	-0.03
CE	Chemical products	1.6	0.07
CF	Pharmaceutical products	0.3	0.01
CG	Rubber and plastic products	1.6	0.09
CH	Metal products	0.4	0.03
CI	Computer, electronic and optical	1.0	0.03
CJ	Electrical equipment	-0.9	-0.02
CK	Machinery and equipment	1.4	0.06
CL	Transport equipment	-3.4	-0.38
CM	Other manufacturing and repair	2.8	0.20
Sector D	Total Electricity and Gas	3.2	0.36
35.1	Electric power generation, transmission and distribution	1.9	0.15
35.2-3	Manufacture of gas; distribution of gaseous fuels through mains; steam and aircon supply	6.1	0.21
Sector E	Total Water	-0.8	-0.06
36	Water collection, treatment and supply	-1.5	-0.03
37	Sewerage	-1.6	-0.04
38	Waste collection, treatment and disposal activities; materials recovery	0.2	0.01
39	Remediation activities and other waste management services	0.5	0.00

Source: Office for National Statistics

## 7 . Revisions to Index of Production

In this release, periods back to January 2016 were open for revision. The revisions are consistent with the revisions to Index of Production (IoP) already published in the [Quarterly national accounts: July to September 2017](#), published on 22 December 2017.

This release contains the incorporation for the first time of administrative Value Added Tax (VAT) turnover to estimate the output of small businesses, from January 2016 to June 2017. VAT data were introduced across 64 production industries for small- and medium-sized businesses. Further information on the use of VAT data can be found in section 9.

As this was the first IoP publication following the introduction of VAT data along with the usual reasons for revisions to data from January 2016, there may be larger revisions than in an ordinary publication (see Table IOP5R, which shows the revisions to IoP estimates against the previously published data).

There was an upward revision for the month of October 2017 to total IoP, from 0.0% to 0.2%. This was mainly due to an upward revision in manufacturing, from 0.1% to 0.3%. Out of the 13 manufacturing sub-sectors, 8 were revised upwards, due mainly to late responses to the Monthly Business Survey.

## 8 . Links to related statistics

The corresponding price indices used to deflate the Index of Production (IoP) are published in the monthly publication of [UK producer price inflation](#). Product sales by manufacturers are published on an annual basis in [UK manufacturers' sales by product \(Prodcom\)](#) statistical bulletins; estimates are in current prices, unlike the chained volume measures published in the IoP release.

The data published by the Department for Business, Energy and Industrial Strategy (BEIS) in [Energy trends](#) are used to measure the mining and quarrying, electricity and gas, and the manufacture of coke and refined petroleum products sectors within this release.

The IoP follows the [Eurostat short-term statistics \(STS\)](#) regulation for measuring output in production. The latest release of [industrial production](#) and [output in manufacturing](#) are available from Eurostat and are updated monthly. It should be noted that an accurate comparison cannot be made between our publication and the Eurostat publication without re-indexing the data to the same base year, as Eurostat data are calculated on a 2010 equals 100 basis, while UK data are calculated on a 2015 equals 100 basis.

Outside the EU, the US Census Bureau releases [Manufacturing and Trade Inventories and Sales](#) reports. Accurate comparisons cannot be made between our publication and the US Census Bureau release, as the UK data are calculated at chained volume indices, which take into account price changes, while the US publication is not adjusted for price changes.

## 9 . What's new in this release?

This was the first release, along with the [Quarterly national accounts: July to September 2017](#), to use Value Added Tax (VAT) data for periods January 2016 to June 2017. This has been used alongside the Monthly Business Survey data in the production of gross domestic product (GDP). Further information on the use of VAT data was published on 22 December 2017 in an article, [VAT turnover implementation into UK National Accounts: December 2017 update](#). The supply of VAT turnover data will be updated at the final estimate of GDP within the quarter, in the Quarterly national accounts publication.

We published the [Short-term economic indicators commentary](#) alongside this release (on 10 January 2018), presenting new information on economic conditions in November 2017, with data available for output in production, construction and the trade balance.

We published the [Monthly economic commentary: December 2017 on 22 December 2017](#), presenting analysis of the latest estimate of gross domestic product, and economic commentary for prices, short-term indicators and labour market indicators to complement theme day economic commentary.

## 10 . Quality and methodology

The majority of data used to compile the manufacturing sector, and therefore the Index of Production (IoP), are collected via the Monthly Business Survey (MBS). Since the Index of Production: November 2017 publication, the IoP also contains Value Added Tax (VAT) returns for 76,390 businesses across 64 production industries. The MBS samples around 6,000 businesses every month, this is now supplemented with VAT returns. The data collected on the MBS are turnover excluding VAT and exports for some applicable industries. The data collected on the VAT returns are also turnover excluding VAT. These data are then deflated using [Producer Price Indices \(PPI\)](#). Within the manufacturing sector we also receive direct volume data from the Department for Business, Energy and Industrial Strategy (BEIS) for fuel industries and the [International Steel Statistics Bureau](#) for steel industries.

The mining and quarrying sector is comprised mainly of data from BEIS, including volume of oil and gas extraction and coal extraction. The data used to produce the energy sector are also from BEIS and include energy and gas supply output. A comprehensive list of the IoP source data can be found in the [Gross domestic product \(GDP\(O\)\) source catalogue](#).

Within the suite of datasets published monthly alongside this release, you will find:

- [Output of the production industries \(IOP5\) publication tables](#)
- [Revisions to output of the production industries \(IOP5R\)](#)
- [Monthly Business Survey response rates](#) for production industries for this publication
- [Revision triangle](#) – monitors the size of monthly and three-monthly revisions
- [Index of Production weights 2015 equals 100](#)
- [Index of Production and sectors to four decimal places](#)
- [Monthly Business Survey \(MBS\) turnover in production industries](#)
- [Export proportions for manufacturing industries](#)

The [Index of Production Quality and Methodology Information report](#) contains important information on:

- the strengths and limitations of the data and how it compares with related data
- uses and users of the data
- how the output was created
- the quality of the output including the accuracy of the data

At present the Quality and Methodology Information report is being updated to reflect the inclusion of VAT data and will be published later this year.

## Index of Production Release Tables

Pages 2-11 Table IoP5, index values and growth rates for industry groups and manufacturing sub-sectors

Pages 12-21 Table IoP5R, revisions to index values and growth rates for industry groups and manufacturing sub-sectors

- [Page 1](#) Output by Broad industry groups and Main industrial groupings  
Percentage change, latest year on previous year  
Percentage change, latest month on same month a year ago
- [Page 2](#) Percentage change, latest month on previous month  
Percentage change, latest 3 months on same 3 months a year ago
- [Page 3](#) Percentage change, latest 3 months on previous 3 months
- [Page 4](#) Output by Manufacturing sub-sectors part 1  
Percentage change, latest year on previous year  
Percentage change, latest month on same month a year ago
- [Page 5](#) Output by Manufacturing sub-sectors part 2  
Percentage change, latest year on previous year  
Percentage change, latest month on same month a year ago
- [Page 6](#) Percentage change, latest month on previous month part 1  
Percentage change, latest 3 months on same 3 months a year ago
- [Page 7](#) Percentage change, latest month on previous month part 2  
Percentage change, latest 3 months on same 3 months a year ago
- [Page 8](#) Percentage change, latest 3 months on previous 3 months part 1
- [Page 9](#) Percentage change, latest 3 months on previous 3 months part 2
- [Enquiries](#)



# IOP5 Output of the Production Industries

Chained volume indices of gross value added<sup>1</sup>

Seasonally adjusted 2015 = 100

Section	Broad industry groups					Main industrial groupings					
	Production industries B+C+D+E	Mining and quarrying B	Manufacturing C	Electricity, gas, steam and air conditioning D	Water supply, sewerage and waste management E	Oil and gas extraction 06	Consumer durables MIG-CD	Consumer non-durables MIG-CND	Capital goods MIG-CAG	Intermediate goods MIG-IG	Energy MIG-NRG
Latest weight	1 000.0	87.1	720.5	120.3	72.1	65.1	49.3	204.4	240.5	267.9	219.9
	K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K24O	K24T
2012	98.0	94.6	98.1	105.3	92.2	98.5	95.5	99.8	97.1	96.1	102.4
2013	97.3	91.9	97.2	105.1	96.1	90.5	94.2	98.9	98.1	95.4	98.8
2014	98.8	92.5	100.0	99.0	96.7	89.5	100.1	99.5	101.0	100.2	95.5
2015	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2016	101.3	100.0 <sup>†</sup>	100.9	102.6	105.2 <sup>†</sup>	104.2 <sup>†</sup>	101.8 <sup>†</sup>	100.5 <sup>†</sup>	103.3 <sup>†</sup>	98.1 <sup>†</sup>	102.5 <sup>†</sup>
2016 Q3	101.4	105.5 <sup>†</sup>	100.6	101.0 <sup>†</sup>	105.8 <sup>†</sup>	111.4 <sup>†</sup>	101.8 <sup>†</sup>	99.2	103.8 <sup>†</sup>	97.7 <sup>†</sup>	103.8 <sup>†</sup>
2016 Q4	102.2 <sup>†</sup>	96.5	102.1 <sup>†</sup>	104.1	107.0	99.5	103.7	101.0 <sup>†</sup>	104.5	99.5	102.3
2017 Q1	102.6	99.3	102.7	100.4	109.4	102.7	105.1	99.7	107.5	99.6	101.0
2017 Q2	102.5	100.4	102.6	100.2	108.4	103.1	105.1	100.2	107.3	99.5	101.2
2017 Q3	103.9	103.3	103.9	101.6	107.8	106.6	107.7	99.8	110.7	100.5	102.6
2016 Sep	101.3 <sup>†</sup>	101.9 <sup>†</sup>	101.2	99.0 <sup>†</sup>	105.4 <sup>†</sup>	106.4 <sup>†</sup>	101.5 <sup>†</sup>	100.0 <sup>†</sup>	104.5 <sup>†</sup>	98.0 <sup>†</sup>	101.4 <sup>†</sup>
2016 Oct	100.3	92.9	100.2	102.5	106.5	94.5	103.6	98.0	103.0	98.0	99.9
2016 Nov	102.5	98.7	101.7 <sup>†</sup>	107.2	107.3	102.2	102.2	100.9	103.4	99.5	104.9
2016 Dec	103.8	97.9	104.4	102.7	107.1	101.8	105.4	104.2	107.2	101.0	102.1
2017 Jan	103.4	99.8	103.1	104.0	108.8	103.6	106.0	100.8	107.4	100.1	103.2
2017 Feb	102.5	98.2	102.6	100.9	109.4	101.0	106.7	99.0	108.1	99.5	100.8
2017 Mar	101.9	100.0	102.2	96.4	110.0	103.3	102.5	99.4	107.0	99.0	99.0
2017 Apr	102.1	98.6	102.2	100.6	107.7	100.8	102.5	99.8	106.5	99.5	100.3
2017 May	102.4	99.3	102.6	100.4	108.6	101.6	105.2	99.8	107.4	99.6	101.1
2017 Jun	103.1	103.3	103.1	99.6	108.9	106.9	107.6	100.9	108.1	99.6	102.2
2017 Jul	103.5	103.0	103.4	101.0	108.7	105.9	104.6	99.9	110.1	100.0	101.9
2017 Aug	103.7	102.6	103.8	101.6	108.0	105.8	108.9	100.3	110.1	100.1	102.3
2017 Sep	104.4	104.2	104.6	102.3	106.7	108.0	109.7	99.2	112.0	101.3	103.6
2017 Oct	104.6	106.4	104.9	99.5	108.2	111.1	106.9	99.9	112.4	101.3	103.1
2017 Nov	105.1	104.9	105.3	102.6	107.3	108.9	107.7	100.9	112.1	101.9	103.9
<b>Percentage change, latest year on previous year</b>											
2012	-2.7	-11.0	-1.4	-0.9	-0.1	-14.2	-2.6	-3.8	1.3	-	-8.9
2013	-0.7	-2.8	-1.0	-0.2	4.2	-8.2	-1.3	-0.9	0.9	-0.7	-3.5
2014	1.5	0.6	2.9	-5.8	0.6	-1.0	6.3	0.6	3.0	5.1	-3.4
2015	1.2	8.1	-	1.0	3.4	11.7	-0.1	0.5	-1.0	-0.2	4.8
2016	1.3	- <sup>†</sup>	0.9	2.6	5.2 <sup>†</sup>	4.2 <sup>†</sup>	1.8 <sup>†</sup>	0.5 <sup>†</sup>	3.3 <sup>†</sup>	-1.9 <sup>†</sup>	2.5 <sup>†</sup>
<b>Percentage change, latest month on same month a year ago</b>											
2015 Sep	1.5	8.9	-	2.6	3.3	14.2	-4.5	0.9	-0.3	-1.4	6.6
2015 Oct	1.5	7.2	-	3.9	3.9	10.7	-4.9	2.5	-1.5	-0.8	6.3
2015 Nov	0.2	9.7	-1.6	0.7	3.4	16.0	-3.3	-0.9	-2.9	-2.5	6.6
2015 Dec	-0.3	7.0	-1.3	-7.2	7.8	14.2	-5.2	0.2	-1.4	-4.0	1.5
2016 Jan	0.6 <sup>†</sup>	1.6 <sup>†</sup>	0.2 <sup>†</sup>	-3.3 <sup>†</sup>	7.7 <sup>†</sup>	7.8 <sup>†</sup>	-3.5 <sup>†</sup>	-0.4 <sup>†</sup>	2.9	-2.8	1.2 <sup>†</sup>
2016 Feb	-0.1	7.7	-1.1	-4.0	5.0	17.9	0.9	2.0	-1.3 <sup>†</sup>	-5.1 <sup>†</sup>	3.2
2016 Mar	-0.1	3.4	-1.5	1.6	5.1	11.0	-0.9	-1.9	1.5	-5.3	4.2
2016 Apr	2.4	-0.8	1.5	9.7	3.9	3.8	3.5	4.7	2.7	-3.4	5.9
2016 May	1.4	-5.1	1.5	4.2	6.4	-2.8	4.1	0.1	4.4	-1.4	1.2
2016 Jun	1.1	0.2	0.6	3.8	3.3	4.3	-3.7	1.4	3.9	-4.1	3.3
2016 Jul	2.0	7.7	1.2	3.0	3.0	15.0	1.5	-1.3	6.2	-2.4	5.8
2016 Aug	1.0	-2.1	1.2	1.2	5.4	0.9	3.0	-0.1	4.0	-1.3	-0.3
2016 Sep	0.5	-	0.5	-2.0	6.3	2.9	2.8	-0.6	2.8	-1.6	-0.4
2016 Oct	-0.4	-9.3	0.1	-0.1	5.7	-8.3	6.6	-3.7	3.2	-0.9	-2.9
2016 Nov	2.8	-2.1	2.1	8.1	6.7	-0.4	2.4	1.5	3.9	1.0	3.9
2016 Dec	4.8	-	4.8	9.7	4.4	2.1	4.9	4.0	5.9	4.3	5.5
2017 Jan	3.5	4.2	2.8	5.9	5.8	5.6	6.1	0.9	5.6	1.6	4.9
2017 Feb	2.9	-0.7	3.1	2.2	7.0	-1.9	7.0	-2.3	8.7	2.3	0.8
2017 Mar	1.9	1.3	2.8	-5.9	6.8	0.2	2.9	-	5.1	2.6	-2.5
2017 Apr	-0.5	-0.7	0.3	-7.2	3.4	-2.8	-0.6	-3.5	2.7	1.4	-4.4
2017 May	0.7	-0.4	1.4	-3.8	1.8	-1.9	2.7	-1.5	3.8	1.8	-2.3
2017 Jun	1.6	1.7	2.4	-3.8	3.2	0.7	8.2	1.2	3.1	2.9	-1.1
2017 Jul	1.9	-5.6	3.4	-1.5	2.4	-9.1	2.5	1.5	6.7	2.9	-4.0
2017 Aug	2.3	-2.7	3.3	0.2	2.2	-5.1	7.0	1.2	6.1	2.6	-1.5
2017 Sep	3.1	2.3	3.3	3.3	1.2	1.5	8.1	-0.8	7.2	3.3	2.2
2017 Oct	4.3	14.5	4.7	-2.9	1.6	17.6	3.1	2.0	9.1	3.3	3.2
2017 Nov	2.5	6.3	3.5	-4.2	-	6.6	5.4	-	8.5	2.5	-1.0

<sup>1</sup> Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.

<sup>†</sup> indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.

# IOP5 Output of the Production Industries

continued

Chained volume indices of gross value added<sup>1</sup>

Seasonally adjusted 2015 = 100

Section	Broad industry groups					Main industrial groupings					
	Production industries	Mining and quarrying	Manufacturing	Electricity, gas, steam and air conditioning	Water supply, sewerage and waste management	Oil and gas extraction	Consumer durables	Consumer non-durables	Capital goods	Intermediate goods	Energy
	B+C+D+E	B	C	D	E	06	MIG-CD	MIG-CND	MIG-CAG	MIG-IG	MIG-NRG
Latest weight	1 000.0	87.1	720.5	120.3	72.1	65.1	49.3	204.4	240.5	267.9	219.9
	K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K24O	K24T
<b>Percentage change, latest month on previous month</b>											
2015 Sep	0.3	-5.5	1.4	0.9	-1.1	-6.5	-0.1	1.5	1.9	0.7	-2.2
Oct	-0.1	0.6	-0.6	1.5	1.7	-0.3	-1.6	1.0	-1.8	-0.6	1.1
Nov	-0.9	-1.6	-0.5	-3.3	-0.2	2.7	-2.2	-0.4	-0.4	-0.5	-1.9
Dec	-0.7	-2.9	0.1	-5.7	2.1	-2.8	0.7	0.8	1.8	-1.7	-4.2
2016 Jan	0.9 <sup>†</sup>	-2.1 <sup>†</sup>	0.7 <sup>†</sup>	4.9 <sup>†</sup>	0.1 <sup>†</sup>	-1.5 <sup>†</sup>	-0.5 <sup>†</sup>	-0.3 <sup>†</sup>	0.4 <sup>†</sup>	1.8	1.7 <sup>†</sup>
Feb	-0.3	3.2	-0.8	0.6	-0.5	5.0	-0.2	1.4	-2.2	-1.3 <sup>†</sup>	1.5
Mar	0.4	-0.2	-0.1	3.8	0.7	0.1	-0.1	-1.8	2.4	-0.7	1.6
Apr	2.6	0.6	2.4	5.8	1.2	0.5	3.6	4.0	2.0	1.6	3.3
May	-0.8	0.3	-0.7	-3.7	2.3	-	-0.7	-2.1	-0.3	-0.3	-1.5
Jun	-0.3	1.9	-0.4	-0.8	-1.1	2.5	-3.0	-1.5	1.3	-1.0	-
Jul	0.1	7.4	-0.7	-1.0	0.7	9.8	2.7	-1.3	-1.6	0.5	2.7
Aug	-0.2	-3.3	0.5	-1.1	-0.5	-4.3	-0.4	0.6	0.6	0.4	-2.2
Sep	-0.1	-3.4	0.7	-2.4	-0.2	-4.6	-0.2	0.9	0.7	0.4	-2.3
Oct	-1.0	-8.8	-1.0	3.5	1.1	-11.2	2.1	-2.0	-1.4	-	-1.5
Nov	2.2	6.2	1.5	4.6	0.7	8.1	-1.4	3.0	0.4	1.5	5.0
Dec	1.3	-0.9	2.7	-4.2	-0.2	-0.4	3.1	3.3	3.7	1.6	-2.7
2017 Jan	-0.4	2.0	-1.2	1.3	1.5	1.8	0.6	-3.3	0.1	-0.9	1.1
Feb	-0.8	-1.6	-0.5	-3.0	0.6	-2.5	0.7	-1.8	0.7	-0.6	-2.4
Mar	-0.6	1.8	-0.4	-4.4	0.6	2.3	-3.9	0.5	-1.0	-0.5	-1.7
Apr	0.2	-1.3	-	4.3	-2.1	-2.4	-	0.4	-0.4	0.4	1.3
May	0.4	0.6	0.4	-0.1	0.8	0.8	2.6	-	0.8	0.1	0.7
Jun	0.6	4.1	0.5	-0.8	0.3	5.2	2.2	1.2	0.6	-	1.1
Jul	0.4	-0.3	0.4	1.4	-0.1	-0.9	-2.7	-1.0	1.9	0.4	-0.3
Aug	0.2	-0.3	0.3	0.6	-0.7	-0.1	4.0	0.4	0.1	0.1	0.4
Sep	0.6	1.5	0.7	0.7	-1.2	2.0	0.8	-1.1	1.7	1.1	1.3
Oct	0.2	2.1	0.3	-2.7	1.4	2.9	-2.6	0.7	0.4	0.1	-0.5
Nov	0.4	-1.4	0.4	3.2	-0.8	-2.0	0.8	1.0	-0.2	0.6	0.8
<b>Percentage change, latest 3 months on same 3 months a year ago<sup>2</sup></b>											
2015 Sep	1.2	13.1	-0.7	-1.0	5.7	19.0	-1.9	0.2	-1.6	-1.5	6.7
Oct	1.6	11.8	-0.2	1.3	4.2	17.4	-3.8	0.9	-0.7	-1.4	7.4
Nov	1.1	8.6	-0.5	2.4	3.5	13.6	-4.3	0.8	-1.6	-1.6	6.5
Dec	0.5	7.9	-0.9	-0.9	5.0	13.6	-4.5	0.6	-1.9	-2.4	4.8
2016 Jan	0.1	6.1 <sup>†</sup>	-0.9	-3.3 <sup>†</sup>	6.2 <sup>†</sup>	12.6 <sup>†</sup>	-4.1 <sup>†</sup>	-0.4 <sup>†</sup>	-0.5	-3.1	3.1 <sup>†</sup>
Feb	-	5.4	-0.7 <sup>†</sup>	-4.8	6.8	13.2	-2.7	0.6	-	-4.0 <sup>†</sup>	2.0
Mar	0.1 <sup>†</sup>	4.2	-0.8	-1.9	5.9	12.1	-1.2	-0.1	1.0	-4.4	2.8
Apr	0.7	3.3	-0.4	2.3	4.7	10.6	1.2	1.6	1.0	-4.6	4.4
May	1.2	-1.0	0.5	5.1	5.1	3.7	2.2	1.0	2.9	-3.4	3.7
Jun	1.7	-1.9	1.2	5.9	4.5	1.7	1.3	2.1	3.6	-3.0	3.4
Jul	1.5	0.9	1.1	3.7	4.2	5.4	0.6	0.1	4.8	-2.6	3.4
Aug	1.4	1.9	1.0	2.7	3.9	6.5	0.2	-	4.7	-2.6	2.9
Sep	1.2	1.8	0.9	0.7	4.9	6.1	2.4	-0.7	4.3	-1.8	1.7
Oct	0.4	-3.8	0.6	-0.3	5.8	-1.4	4.1	-1.5	3.3	-1.3	-1.2
Nov	1.0	-3.8	0.9	1.9	6.2	-1.9	3.9	-0.9	3.3	-0.5	0.2
Dec	2.4	-3.8	2.3	5.7	5.6	-2.2	4.6	0.6	4.3	1.4	2.1
2017 Jan	3.7	0.7	3.2	7.9	5.6	2.4	4.5	2.2	5.2	2.3	4.8
Feb	3.8	1.1	3.5	5.9	5.7	1.9	6.0	0.9	6.7	2.7	3.7
Mar	2.8	1.6	2.9	0.6	6.5	1.2	5.3	-0.5	6.5	2.1	1.0
Apr	1.4	-0.1	2.1	-3.8	5.7	-1.5	3.0	-2.0	5.5	2.1	-2.1
May	0.7	-	1.5	-5.7	4.0	-1.5	1.6	-1.7	3.9	1.9	-3.1
Jun	0.6	0.2	1.4	-5.0	2.8	-1.3	3.3	-1.3	3.2	2.0	-2.6
Jul	1.4	-1.5	2.4	-3.0	2.5	-3.6	4.4	0.4	4.5	2.5	-2.5
Aug	1.9	-2.3	3.0	-1.7	2.6	-4.7	5.9	1.3	5.3	2.8	-2.2
Sep	2.4	-2.1	3.3	0.6	2.0	-4.4	5.8	0.6	6.7	2.9	-1.2
Oct	3.2	4.3	3.8	0.2	1.7	4.0	6.1	0.8	7.5	3.1	1.3
Nov	3.3	7.5	3.9	-1.4	0.9	8.3	5.5	0.4	8.3	3.0	1.4

1 Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.  
2 Any apparent inconsistencies between these tables and the latest GDP estimate are due to rounding.

<sup>†</sup> indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.

# IOP5 Output of the Production Industries

continued

Chained volume indices of gross value added<sup>1</sup>

Seasonally adjusted 2015 = 100

Section	Broad industry groups						Main industrial groupings					
	Production industries	Mining and quarrying	Manufacturing	Electricity, gas, steam and air conditioning	Water supply, sewerage and waste management	Oil and gas extraction	Consumer durables	Consumer non-durables	Capital goods	Intermediate goods	Energy	
	B+C+D+E	B	C	D	E	06	MIG-CD	MIG-CND	MIG-CAG	MIG-IG	MIG-NRG	
Latest weight	1 000.0	87.1	720.5	120.3	72.1	65.1	49.3	204.4	240.5	267.9	219.9	
	K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K24O	K24T	
<b>Percentage change, latest 3 months on previous 3 months<sup>2</sup></b>												
2015	Sep	-	1.4	-0.4	0.7	-	2.2	-1.1	0.4	-0.8	-1.2	1.6
	Oct	0.6	1.4	0.5	1.5	-1.7	2.3	-2.5	0.7	1.4	-0.8	2.1
	Nov	0.3	-1.7	0.7	1.1	-1.6	-1.5	-2.3	1.5	1.1	-0.8	0.3
	Dec	-0.4	-3.1	0.1	-1.8	0.5	-3.1	-0.3	0.6	0.7	-1.3	-1.9
2016	Jan	-1.1	-5.6 <sup>T</sup>	-0.2	-4.2 <sup>T</sup>	1.9 <sup>T</sup>	-5.2 <sup>T</sup>	1.8 <sup>T</sup>	-0.6 <sup>T</sup>	0.4 <sup>T</sup>	-1.2	-4.1 <sup>T</sup>
	Feb	-0.9 <sup>T</sup>	-4.1	-0.3	-4.0	2.4	-2.7	1.5	-0.1	0.4	-1.5 <sup>T</sup>	-3.5
	Mar	-	-2.5	-	1.4	1.3	-0.3	0.6	-0.2	0.8	-0.7	-0.2
	Apr	1.2	0.8	0.4	6.4	1.1	3.2	0.8	1.6	0.9	-0.7	3.5
	May	2.0	1.8	1.0 <sup>T</sup>	8.5	2.0	3.2	1.7	0.9	2.2	-0.1	5.0
	Jun	2.1	2.4	1.4	5.6	2.7	3.0	2.0	1.3	3.0	0.1	3.9
	Jul	0.9	4.5	0.3	0.2	2.8	5.3	0.5	-1.6	2.1	-	2.1
	Aug	-	6.2	-0.4	-2.5	1.1	7.7	-0.7	-2.3	0.9	-0.3	1.1
	Sep	-0.5	5.3	-0.6	-4.2	0.3	6.7	0.1	-2.3	-0.2	0.1	-0.1
	Oct	-0.6	-3.2	-	-2.4	-0.2	-4.3	0.9	-0.8	-	0.6	-2.5
	Nov	-0.1	-7.1	0.6	0.4	0.6	-9.3	1.3	0.5	-0.3	1.3	-2.3
	Dec	0.8	-8.5	1.5	3.1	1.2	-10.7	1.9	1.9	0.7	1.9	-1.4
2017	Jan	2.2	-1.3	2.4	3.6	1.8	-1.5	2.2	3.0	2.1	2.4	1.7
	Feb	1.9	0.8	2.4	-0.4	1.9	1.1	3.5	1.7	3.8	1.7	-
	Mar	0.4	2.9	0.6	-3.5	2.3	3.2	1.3	-1.3	2.8	-	-1.3
	Apr	-1.0	0.1	-0.7	-5.1	1.2	-0.8	-0.6	-2.5	1.1	-0.9	-3.3
	May	-1.1	0.7	-1.0	-3.3	0.3	-0.2	-2.5	-1.6	-0.6	-0.9	-1.9
	Jun	-0.1	1.1	-0.1	-0.2	-1.0	0.4	-	0.4	-0.2	-	0.2
	Jul	0.8	2.9	0.7	1.0	-0.3	3.0	1.8	0.8	1.2	0.4	1.7
	Aug	1.3	3.7	1.1	1.6	-0.2	4.2	3.5	0.7	2.3	0.6	2.0
	Sep	1.3	2.9	1.3	1.4	-0.5	3.3	2.5	-0.4	3.2	0.9	1.4
	Oct	1.2	2.5	1.3	0.8	-1.0	3.3	2.5	-0.4	2.8	1.2	1.3
	Nov	1.2	2.1	1.4	0.7	-1.0	3.0	1.0	-0.4	2.5	1.6	1.4

<sup>1</sup> Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.

<sup>2</sup> Any apparent inconsistencies between these tables and the latest GDP estimate are due to rounding.

<sup>T</sup> indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.

# IOP5 Output of the Production Industries

Chained volume indices of gross value added<sup>1</sup>

continued

Seasonally adjusted 2015 = 100

Section	Food products, beverages and tobacco	Textiles, wearing apparel and leather products	Wood and paper products and printing	Coke and refined petroleum products	Chemicals and chemical products	Basic pharmaceutical products and preparations
	CA	CB	CC	CD	CE	CF
Latest weight	114.5	26.8	50.3	13.0	49.5	51.1
	K22B	K22P	K22T	K22X	K22Z	K239
2012	97.6	108.4	96.0	109.2	93.1	107.2
2013	95.9	103.6	98.2	107.1	92.1	104.4
2014	100.0	100.9	99.3	97.5	94.6	99.2
2015	100.0	100.0	100.0	100.0	100.0	100.0
2016	101.1 †	97.6 †	98.7 †	98.5 †	94.3 †	103.5 †
2016 Q3	101.0 †	96.8 †	98.6 †	98.4 †	94.6 †	99.4 †
Q4	101.2	96.4	99.8	102.2	95.0	108.1
2017 Q1	102.6	98.6	101.9	99.2	96.8	97.8
Q2	102.7	98.8	101.1	100.3	97.8	100.0
Q3	102.7	100.7	102.4	97.3	99.0	97.6
2016 Sep	101.7 †	97.8 †	98.6 †	100.5 †	95.9 †	102.3
Oct	100.5	96.1	98.5	102.4	94.7	97.7 †
Nov	100.8	95.0	99.9	104.1	94.4	108.8
Dec	102.3	98.1	101.1	100.0	96.1	117.8
2017 Jan	102.1	97.2	102.8	98.9	97.9	102.1
Feb	102.7	98.4	100.6	98.2	95.5	95.6
Mar	103.1	100.3	102.3	100.6	96.9	95.6
Apr	103.8	96.7	101.0	96.6	98.1	97.4
May	102.4	99.5	101.4	101.9	96.7	99.0
Jun	101.9	100.2	100.9	102.3	98.4	103.7
Jul	103.4	104.7	101.3	93.1	97.4	95.4
Aug	103.1	100.5	103.2	96.9	98.7	98.7
Sep	101.7	97.0	102.8	101.7	100.8	98.8
Oct	103.4	94.6	101.2	100.7	98.7	101.6
Nov	104.4	96.0	101.9	98.5	100.2	101.9

## Percentage change, latest year on previous year

2012	-2.6	-3.4	-5.3	-10.1	-1.9	-5.8
2013	-1.7	-4.4	2.2	-1.9	-1.1	-2.7
2014	4.2	-2.6	1.1	-8.9	2.7	-5.0
2015	-	-0.9	0.7	2.5	5.7	0.8
2016	1.1 †	-2.4 †	-1.3 †	-1.5 †	-5.7 †	3.5 †

## Percentage change, latest month on same month a year ago

2015 Sep	0.7	2.6	-0.8	9.9	4.2	1.8
Oct	-0.5	6.8	-1.6	13.9	5.2	8.6
Nov	-0.5	2.9	1.0	14.8	4.4	-2.7
Dec	-1.1	6.9	0.8	2.9	2.5	-1.0
2016 Jan	0.1 †	11.2 †	-3.6 †	4.9 †	-3.9 †	-3.2 †
Feb	1.5	-1.1	-4.6	-2.7	-7.9	6.7
Mar	-1.0	-5.4	-3.8	-3.8	-8.6	0.9
Apr	2.5	1.7	-2.0	0.2	-8.3	15.3
May	3.6	-11.1	0.4	9.1	-3.3	-2.2
Jun	2.6	-7.5	0.4	11.2	-7.6	4.3
Jul	1.1	-5.7	-	-3.7	-5.6	-3.6
Aug	0.4	2.7	-0.1	-6.3	-6.3	-0.4
Sep	0.7	-2.1	-1.6	-4.6	-4.6	1.6
Oct	-0.1	-5.2	-0.9	-7.7	-5.1	-6.8
Nov	0.4	-3.8	-1.3	-6.1	-6.2	11.9
Dec	1.4	-0.1	1.8	-4.1	-1.4	18.8
2017 Jan	1.1	-7.5	4.2	-3.1	1.9	6.0
Feb	0.8	0.5	4.0	-0.4	1.3	-7.3
Mar	4.0	4.4	5.3	12.6	4.4	-7.9
Apr	2.6	-5.8	2.5	5.9	4.9	-13.0
May	-	5.0	2.0	2.6	3.4	-3.7
Jun	0.7	4.9	2.2	2.3	7.3	2.6
Jul	2.7	8.9	3.0	-5.8	3.2	-1.4
Aug	2.3	4.1	4.4	1.1	5.5	-0.5
Sep	-	-0.8	4.3	1.2	5.2	-3.4
Oct	2.9	-1.6	2.8	-1.7	4.2	4.0
Nov	3.6	1.1	2.0	-5.4	6.2	-6.3

<sup>1</sup> Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.

† indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.

# IOP5 Output of the Production Industries

Chained volume indices of gross value added<sup>1</sup>

continued

Seasonally adjusted 2015 = 100

Section	Rubber and plastic products and non-metallic mineral products	Basic metals and metal products	Computer, electronic and optical products	Electrical equipment	Machinery and equipment not elsewhere classified	Transport equipment	Other manufacturing and repair
	CG	CH	CI	CJ	CK	CL	CM
Latest weight	58.5	87.6	33.0	21.7	44.0	102.9	67.4
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z
2012	93.5	101.1	100.4	108.0	124.9	84.9	91.2
2013	90.9	98.2	98.3	103.0	110.1	91.4	95.4
2014	102.9	99.8	102.2	99.7	114.8	94.5	100.7
2015	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2016	101.6 †	98.6	101.4 †	97.1 †	100.7	103.8 †	106.0 †
2016 Q3	101.0 †	98.3 †	100.8 †	94.5 †	101.1 †	104.3 †	106.8 †
Q4	102.5	98.6	104.5	100.1	102.8	104.5	107.3
2017 Q1	101.7	97.2	104.9	97.6	107.1	108.1	110.8
Q2	101.4	97.4	106.3	98.8	105.1	106.9	109.9
Q3	101.2	97.9	109.0	99.4	108.3	110.5	114.4
2016 Sep	102.2	97.2 †	100.2 †	95.8 †	101.4 †	104.3 †	108.6 †
Oct	102.3 †	95.0	103.3	98.3	100.6	103.1	107.2
Nov	103.1	97.4	102.0	102.0	102.6	104.6	105.3
Dec	102.1	103.5	108.3	100.0	105.1	105.7	109.6
2017 Jan	102.5	98.2	106.7	98.2	105.3	108.5	110.1
Feb	101.0	97.0	106.6	99.7	109.7	108.6	111.2
Mar	101.7	96.6	101.3	94.8	106.4	107.2	110.9
Apr	101.7	95.9	102.0	98.9	105.2	109.0	107.3
May	102.5	96.4	106.3	97.1	107.8	107.3	109.1
Jun	100.0	99.8	110.7	100.4	102.2	104.5	113.3
Jul	100.9	96.5	105.0	101.5	107.0	112.0	112.9
Aug	101.0	98.1	109.4	96.2	107.4	109.7	114.0
Sep	101.6	99.0	112.5	100.4	110.6	110.0	116.3
Oct	100.7	101.3	109.0	100.4	111.0	113.3	112.8
Nov	102.3	101.7	110.0	99.5	112.5	109.5	115.9
<b>Percentage change, latest year on previous year</b>							
2012	-4.2	2.9	0.5	10.9	1.1	4.4	-6.3
2013	-2.8	-2.8	-2.1	-4.7	-11.8	7.6	4.6
2014	13.2	1.6	3.9	-3.2	4.3	3.4	5.5
2015	-2.8	0.2	-2.1	0.3	-12.9	5.8	-0.7
2016	1.6 †	-1.4	1.4 †	-2.9 †	0.7	3.8 †	6.0 †
<b>Percentage change, latest month on same month a year ago</b>							
2015 Sep	-3.7	-0.8	-6.5	2.4	-13.1	7.4	-0.4
Oct	-4.2	-0.6	-4.2	5.7	-15.2	8.8	-8.0
Nov	-3.8	-5.1	-6.0	-1.4	-13.6	4.8	-3.9
Dec	-4.6	-3.2	-8.8	-3.6	-11.8	4.6	0.5
2016 Jan	0.2	-1.3 †	-0.2 †	-0.4 †	-4.7 †	4.7 †	2.5 †
Feb	-0.4 †	-4.2	-	-1.7	-6.2	-	1.3
Mar	-1.3	-3.8	-2.0	-5.2	-1.6	4.4	0.5
Apr	3.3	-5.1	2.4	-4.5	-1.3	7.6	0.9
May	1.9	1.1	3.6	-6.1	1.7	5.7	4.7
Jun	0.5	-4.9	-5.8	-5.0	-0.6	5.4	8.7
Jul	0.3	1.0	1.3	-4.4	2.6	5.9	8.9
Aug	2.6	0.3	0.5	-4.8	2.7	3.1	9.6
Sep	2.6	-2.9	0.4	-5.9	1.2	2.3	7.8
Oct	2.8	-3.3	4.9	-2.2	3.9	-0.4	13.4
Nov	4.1	0.4	4.5	3.0	5.6	3.1	5.4
Dec	2.6	6.6	7.5	2.0	6.0	4.2	9.3
2017 Jan	1.2	-2.2	6.4	-0.1	7.5	6.9	6.0
Feb	-0.1	-2.5	8.1	0.9	13.3	10.2	8.6
Mar	1.5	-1.9	3.2	-1.6	5.4	5.1	6.7
Apr	-1.9	-1.7	-0.5	1.9	2.1	3.0	3.1
May	1.2	-2.2	4.2	2.8	8.0	1.2	3.5
Jun	-0.8	2.0	11.9	4.7	3.8	-1.0	3.2
Jul	0.6	-2.3	3.6	8.0	6.9	8.7	5.9
Aug	0.3	-0.7	8.6	2.7	5.5	3.8	8.4
Sep	-0.6	1.9	12.2	4.9	9.1	5.5	7.1
Oct	-1.6	6.7	5.5	2.2	10.4	9.9	5.2
Nov	-0.8	4.4	7.9	-2.5	9.7	4.6	10.1

<sup>1</sup> Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.

† indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.

# IOP5 Output of the Production Industries

continued

Chained volume indices of gross value added<sup>1</sup>

Seasonally adjusted 2015 = 100

Section	Food products, beverages and tobacco	Textiles, wearing apparel and leather products	Wood and paper products and printing	Coke and refined petroleum products	Chemicals and chemical products	Basic pharmaceutical products and preparations
	CA	CB	CC	CD	CE	CF
Latest weight	114.5	26.8	50.3	13.0	49.5	51.1
	K22B	K22P	K22T	K22X	K22Z	K239
<b>Percentage change, latest month on previous month</b>						
2015 Sep	0.7	6.4	1.3	3.0	0.5	1.1
Oct	-0.5	1.5	-0.8	5.2	-0.7	4.1
Nov	-0.1	-2.7	1.9	-	0.9	-7.2
Dec	0.5	-0.5	-2.0	-6.0	-3.2	2.1
2016 Jan	- <sup>T</sup>	7.0 <sup>T</sup>	-0.6 <sup>T</sup>	-2.0 <sup>T</sup>	-1.3 <sup>T</sup>	-2.9 <sup>T</sup>
Feb	0.9	-6.8	-2.0	-3.5	-1.9	7.1
Mar	-2.8	-1.8	0.4	-9.4	-1.6	0.6
Apr	2.1	6.8	1.5	2.2	0.8	7.9
May	1.3	-7.7	0.9	8.9	-	-8.2
Jun	-1.2	0.8	-0.7	0.6	-2.0	-1.7
Jul	-0.6	0.7	-0.5	-1.1	2.9	-4.2
Aug	0.1	0.3	0.5	-3.1	-0.9	2.4
Sep	1.0	1.3	-0.3	4.9	2.4	3.2
Oct	-1.2	-1.7	-0.1	1.9	-1.2	-4.5
Nov	0.4	-1.2	1.4	1.6	-0.4	11.4
Dec	1.4	3.3	1.2	-4.0	1.8	8.3
2017 Jan	-0.2	-0.9	1.6	-1.0	2.0	-13.3
Feb	0.6	1.2	-2.1	-0.8	-2.5	-6.4
Mar	0.3	2.0	1.7	2.4	1.5	-0.1
Apr	0.7	-3.7	-1.2	-3.9	1.3	1.9
May	-1.3	2.9	0.4	5.5	-1.4	1.7
Jun	-0.5	0.8	-0.5	0.3	1.7	4.7
Jul	1.4	4.5	0.4	-9.0	-1.0	-8.0
Aug	-0.3	-4.0	1.8	4.1	1.3	3.4
Sep	-1.3	-3.5	-0.3	5.0	2.1	0.1
Oct	1.7	-2.5	-1.5	-1.0	-2.1	2.9
Nov	1.0	1.5	0.7	-2.2	1.6	0.3
<b>Percentage change, latest 3 months on same 3 months a year ago</b>						
2015 Sep	-0.2	1.6	-1.4	8.9	5.6	0.3
Oct	-0.1	2.1	-1.6	10.6	5.7	3.1
Nov	-0.1	4.1	-0.5	12.9	4.6	2.5
Dec	-0.7	5.5	0.1	10.4	4.0	1.5
2016 Jan	-0.5 <sup>T</sup>	7.0 <sup>T</sup>	-0.6 <sup>T</sup>	7.4	0.9 <sup>T</sup>	-2.3 <sup>T</sup>
Feb	0.2	5.6	-2.5	1.6	-3.2	0.8
Mar	0.2	1.4	-4.0	-0.5 <sup>T</sup>	-6.8	1.4
Apr	1.0	-1.6	-3.4	-2.1	-8.2	7.5
May	1.7	-5.1	-1.8	1.8	-6.8	4.4
Jun	2.9	-5.8	-0.4	6.8	-6.4	5.6
Jul	2.4	-8.2	0.2	5.1	-5.5	-0.6
Aug	1.4	-3.7	0.1	-0.1	-6.5	0.1
Sep	0.7	-1.8	-0.6	-4.9	-5.5	-0.8
Oct	0.4	-1.6	-0.8	-6.2	-5.3	-1.9
Nov	0.4	-3.7	-1.3	-6.2	-5.3	2.0
Dec	0.6	-3.1	-0.1	-6.0	-4.2	7.7
2017 Jan	1.0	-3.9	1.5	-4.5	-2.0	12.3
Feb	1.1	-2.5	3.4	-2.6	0.6	5.6
Mar	2.0	-1.1	4.5	2.6	2.5	-3.3
Apr	2.5	-0.4	3.9	5.8	3.5	-9.5
May	2.2	1.0	3.2	6.9	4.2	-8.3
Jun	1.1	1.2	2.2	3.5	5.2	-5.0
Jul	1.1	6.3	2.4	-0.3	4.6	-0.8
Aug	1.9	6.0	3.2	-0.8	5.3	0.3
Sep	1.7	4.0	3.9	-1.2	4.6	-1.8
Oct	1.7	0.6	3.8	0.2	4.9	-
Nov	2.1	-0.5	3.0	-2.0	5.2	-2.1

<sup>1</sup> Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.

<sup>T</sup> indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.

# IOP5 Output of the Production Industries

continued

Chained volume indices of gross value added<sup>1</sup>

Seasonally adjusted 2015 = 100

Section	Rubber and plastic products and non-metallic mineral products	Basic metals and metal products	Computer, electronic and optical products	Electrical equipment	Machinery and equipment not elsewhere classified	Transport equipment	Other manufacturing and repair
	CG	CH	CI	CJ	CK	CL	CM
Latest weight	58.5	87.6	33.0	21.7	44.0	102.9	67.4
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z

## Percentage change, latest month on previous month

2015	Sep	1.6	1.4	-0.3	3.3	1.1	-0.5	4.9
	Oct	-0.1	-1.8	-1.4	-1.2	-3.4	1.5	-6.1
	Nov	-0.5	-1.2	-0.9	-1.4	0.3	-1.9	5.7
	Dec	0.5	0.1	3.3	-1.0	2.2	-0.1	0.4
2016	Jan	1.8	3.4 <sup>†</sup>	-0.4 <sup>†</sup>	0.3 <sup>†</sup>	-1.3 <sup>†</sup>	0.1 <sup>†</sup>	3.6 <sup>†</sup>
	Feb	-0.1 <sup>†</sup>	-1.0	-1.7	0.5	-1.1	-2.9	-1.4
	Mar	-0.9	-1.1	-0.4	-2.5	4.3	3.5	1.5
	Apr	3.5	-0.8	4.4	0.8	2.0	3.7	0.1
	May	-2.3	1.0	-0.4	-2.7	-3.1	0.1	1.2
	Jun	-0.5	-0.7	-3.1	1.5	-1.5	-0.3	4.2
	Jul	-0.5	0.9	2.5	-2.0	1.7	-2.5	-2.8
	Aug	0.3	0.1	-0.7	-0.2	1.7	2.6	-1.4
	Sep	1.5	-1.7	-0.5	2.2	-0.4	-1.2	3.3
	Oct	0.2	-2.2	3.1	2.6	-0.8	-1.2	-1.3
	Nov	0.8	2.6	-1.3	3.8	1.9	1.5	-1.8
	Dec	-1.0	6.3	6.2	-2.0	2.5	1.0	4.1
2017	Jan	0.4	-5.2	-1.5	-1.8	0.1	2.7	0.5
	Feb	-1.5	-1.2	-0.2	1.5	4.2	-	1.0
	Mar	0.7	-0.4	-4.9	-4.9	-3.0	-1.2	-0.3
	Apr	-	-0.7	0.7	4.3	-1.1	1.6	-3.3
	May	0.9	0.5	4.3	-1.8	2.5	-1.6	1.6
	Jun	-2.5	3.5	4.1	3.4	-5.3	-2.6	3.9
	Jul	0.9	-3.3	-5.2	1.1	4.8	7.1	-0.3
	Aug	0.1	1.7	4.2	-5.2	0.3	-2.0	0.9
	Sep	0.6	0.9	2.8	4.4	3.0	0.3	2.0
	Oct	-0.9	2.4	-3.1	-	0.4	3.0	-3.0
	Nov	1.6	0.4	1.0	-0.9	1.4	-3.4	2.8

## Percentage change, latest 3 months on same 3 months a year ago

2015	Sep	-4.5	-1.2	-2.7	0.6	-14.0	6.8	-3.9
	Oct	-4.7	-1.3	-3.8	3.4	-13.5	9.2	-5.5
	Nov	-3.9	-2.2	-5.6	2.2	-14.0	7.0	-4.1
	Dec	-4.2	-3.0	-6.4	0.1	-13.5	6.0	-3.9
2016	Jan	-2.8	-3.2 <sup>†</sup>	-5.1 <sup>†</sup>	-1.8 <sup>†</sup>	-10.2 <sup>†</sup>	4.7 <sup>†</sup>	-0.4 <sup>†</sup>
	Feb	-1.6	-2.9	-3.2	-1.9	-7.7 <sup>†</sup>	3.1	1.4
	Mar	-0.5 <sup>†</sup>	-3.1	-0.7	-2.4	-4.2	3.1	1.4
	Apr	0.5	-4.4	0.1	-3.8	-3.0	4.0	0.9
	May	1.3	-2.7	1.3	-5.2	-0.5	5.9	2.0
	Jun	1.9	-3.1	-	-5.2	-0.1	6.3	4.7
	Jul	0.9	-1.0	-0.4	-5.1	1.2	5.7	7.4
	Aug	1.1	-1.3	-1.4	-4.7	1.6	4.8	9.0
	Sep	1.8	-0.5	0.7	-5.0	2.2	3.7	8.7
	Oct	2.7	-2.0	1.9	-4.3	2.6	1.6	10.2
	Nov	3.2	-2.0	3.2	-1.7	3.6	1.7	8.8
	Dec	3.2	1.2	5.6	0.9	5.2	2.3	9.3
2017	Jan	2.6	1.5	6.1	1.6	6.4	4.8	6.9
	Feb	1.2	0.6	7.3	0.9	8.9	7.1	7.9
	Mar	0.8	-2.2	5.9	-0.2	8.7	7.4	7.1
	Apr	-0.2	-2.1	3.5	0.4	6.8	6.0	6.1
	May	0.2	-1.9	2.3	1.0	5.1	3.1	4.5
	Jun	-0.5	-0.6	5.1	3.1	4.6	1.1	3.3
	Jul	0.3	-0.8	6.5	5.2	6.3	2.9	4.2
	Aug	-	-0.4	8.0	5.1	5.4	3.8	5.8
	Sep	0.1	-0.4	8.1	5.2	7.2	6.0	7.1
	Oct	-0.6	2.5	8.8	3.2	8.3	6.4	6.9
	Nov	-1.0	4.3	8.5	1.4	9.7	6.7	7.5

<sup>1</sup> Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding

<sup>†</sup> indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.

# IOP5 Output of the Production Industries

continued

Chained volume indices of gross value added<sup>1</sup>

Seasonally adjusted 2015 = 100

Section	Food products, beverages and tobacco	Textiles, wearing apparel and leather products	Wood and paper products and printing	Coke and refined petroleum products	Chemicals and chemical products	Basic pharmaceutical products and preparations
	CA	CB	CC	CD	CE	CF
Latest weight	114.5	26.8	50.3	13.0	49.5	51.1
	K22B	K22P	K22T	K22X	K22Z	K239
<b>Percentage change, latest 3 months on previous 3 months</b>						
2015 Sep	1.6	-4.8	-0.2	14.1	0.8	0.5
Oct	1.6	-5.3	0.9	12.4	1.4	0.9
Nov	1.2	0.3	1.7	11.0	0.5	2.0
Dec	0.3	0.8	0.8	5.1	-0.9	0.2
2016 Jan	0.1 <sup>†</sup>	2.3 <sup>†</sup>	0.3 <sup>†</sup>	-0.4	-2.0 <sup>†</sup>	-4.0 <sup>†</sup>
Feb	0.6	0.4	-2.1	-6.8 <sup>†</sup>	-4.3	-1.3
Mar	-	0.2	-2.5	-11.1	-4.9	0.7
Apr	-0.1	-1.8	-2.3	-12.0	-4.6	8.9
May	-0.4	-2.6	0.2	-8.2	-2.8	6.6
Jun	1.0	-2.1	1.5	0.2	-1.5	4.1
Jul	0.7	-3.4	1.4	6.8	-0.3	-5.7
Aug	-	-1.8	0.2	5.3	-	-6.7
Sep	-0.6	-0.8	-0.4	1.6	1.8	-5.5
Oct	-0.5	1.4	-0.2	0.2	1.6	-0.5
Nov	0.1	0.2	0.4	4.2	1.9	3.9
Dec	0.2	-0.4	1.3	3.8	0.4	8.7
2017 Jan	0.8	-	2.7	1.4	1.5	9.9
Feb	1.3	1.7	2.5	-3.3	1.6	2.2
Mar	1.4	2.3	2.0	-2.9	1.8	-9.5
Apr	1.4	1.7	-	-2.5	0.7	-12.2
May	0.7	0.9	0.1	0.7	0.8	-7.5
Jun	0.1	0.1	-0.8	1.0	1.0	2.3
Jul	-0.6	3.1	-0.1	0.6	0.7	3.3
Aug	-0.3	3.0	0.2	-2.3	1.0	2.0
Sep	-	2.0	1.3	-3.0	1.3	-2.4
Oct	0.1	-4.0	1.2	0.7	1.9	0.3
Nov	0.4	-5.9	0.2	3.0	1.7	1.5

<sup>1</sup> Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.

<sup>†</sup> indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.



# IOP5 Output of the Production Industries

Chained volume indices of gross value added<sup>1</sup>

continued

Seasonally adjusted 2015 = 100

Section	Rubber and plastic products and non-metallic mineral products	Basic metals and metal products	Computer, electronic and optical products	Electrical equipment	Machinery and equipment not elsewhere classified	Transport equipment	Other manufacturing and repair
	CG	CH	CI	CJ	CK	CL	CM
Latest weight	58.5	87.6	33.0	21.7	44.0	102.9	67.4
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z

## Percentage change, latest 3 months on previous 3 months

2015	Sep	-0.8	-2.3	-1.2	-1.5	-1.6	1.0	-3.3
	Oct	-0.8	-0.4	-1.7	0.3	0.4	3.5	-2.8
	Nov	-0.1	-1.3	-3.1	1.2	-0.5	2.4	0.1
	Dec	0.1	-1.3	-1.1	-0.3	-1.2	1.6	0.1
2016	Jan	0.9	-0.8	0.1 <sup>†</sup>	-1.8 <sup>†</sup>	-0.6 <sup>†</sup>	-1.2 <sup>†</sup>	4.5 <sup>†</sup>
	Feb	1.3	0.6	1.3	-2.0	-0.1	-1.8	3.9
	Mar	1.5 <sup>†</sup>	2.0 <sup>†</sup>	0.1	-1.4	0.9	-1.4	5.3
	Apr	1.7	0.3	0.2	-1.1	2.3	0.7	2.1
	May	1.1	-0.8	1.0	-2.5	3.4	4.1	2.2
	Jun	1.1	-1.4	2.1	-2.0	1.9	5.1	2.9
	Jul	-0.8	-0.1	1.1	-2.7	-0.8	2.6	3.6
	Aug	-1.1	0.3	-0.6	-1.5	-1.2	0.1	2.6
	Sep	-0.9	0.3	-0.4	-1.4	0.7	-1.4	0.4
	Oct	0.9	-1.4	0.6	1.2	1.8	-0.5	-0.3
	Nov	1.9	-2.0	1.5	4.4	1.4	-0.7	-0.2
	Dec	1.5	0.4	3.7	6.0	1.6	0.1	0.5
2017	Jan	0.9	2.8	4.2	4.3	3.0	1.9	1.3
	Feb	-0.7	3.2	5.3	0.6	5.1	3.4	3.1
	Mar	-0.8	-1.4	0.3	-2.6	4.3	3.5	3.2
	Apr	-1.1	-3.2	-2.3	-2.3	2.7	1.9	1.4
	May	0.1	-3.3	-3.7	-2.4	-0.2	0.2	-1.1
	Jun	-0.3	0.1	1.4	1.3	-1.9	-1.1	-0.8
	Jul	-0.3	1.1	3.9	1.9	-1.4	-0.3	1.8
	Aug	-1.3	1.9	5.0	2.5	-0.9	0.8	3.9
	Sep	-0.2	0.5	2.5	0.6	3.1	3.4	4.1
	Oct	-0.1	2.0	2.7	-0.6	3.8	2.9	2.3
	Nov	0.9	2.6	2.0	0.7	5.6	2.1	1.4

<sup>1</sup> Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding

<sup>†</sup> indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.

- [Page 1](#) Output by Broad industry groups and Main industrial groupings  
Percentage change, latest year on previous year  
Percentage change, latest month on same month a year ago
- [Page 2](#) Percentage change, latest month on previous month  
Percentage change, latest 3 months on same 3 months a year ago
- [Page 3](#) Percentage change, latest 3 months on previous 3 months
- [Page 4](#) Output by Manufacturing sub-sectors part 1  
Percentage change, latest year on previous year  
Percentage change, latest month on same month a year ago
- [Page 5](#) Output by Manufacturing sub-sectors part 2  
Percentage change, latest year on previous year  
Percentage change, latest month on same month a year ago
- [Page 6](#) Percentage change, latest month on previous month part 1  
Percentage change, latest 3 months on same 3 months a year ago
- [Page 7](#) Percentage change, latest month on previous month part 2  
Percentage change, latest 3 months on same 3 months a year ago
- [Page 8](#) Percentage change, latest 3 months on previous 3 months part 1
- [Page 9](#) Percentage change, latest 3 months on previous 3 months part 2
- [Enquiries](#)

Section	Broad industry groups					Main industrial groupings					
	Production industries	Mining and quarrying	Manufacturing	Electricity, gas, steam and air conditioning	Water supply, sewerage and waste management	Oil and gas extraction	Consumer durables	Consumer non-durables	Capital goods	Intermediate goods	Energy
	B+C+D+E	B	C	D	E	06	MIG-CD	MIG-CND	MIG-CAG	MIG-IG	MIG-NRG
Latest weight	1 000.0	87.1	720.5	120.3	72.1	65.1	49.3	204.4	240.5	267.9	219.9
	K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K24O	K24T
2012	-	-	-	-	-	-	-	-	-	-	-
2013	-	-	-	-	-	-	-	-	-	-	-
2014	-	-	-	-	-	-	-	-	-	-	-
2015	-	-	-	-	-	-	-	-	-	-	-
2016	-	1.0	-	-	-0.1	0.2	0.9	0.1	0.6	-0.3	0.1
2016 Q3	-	1.2	-	-0.1	-0.1	0.4	0.3	-	0.8	-0.5	0.1
2016 Q4	0.1	1.4	0.1	-0.5	0.1	0.5	1.0	0.2	0.6	-0.1	-0.1
2017 Q1	0.3	1.4	0.1	0.1	0.4	0.4	1.6	-	1.0	-0.2	0.2
2017 Q2	0.4	1.9	0.3	0.2	0.5	0.5	2.4	0.1	1.2	0.1	0.3
2017 Q3	0.7	2.7	0.5	0.5	-0.9	1.1	3.2	0.3	1.2	0.6	0.7
2016 Aug	0.1	1.2	-	-0.1	-0.2	0.6	-0.5	-	0.8	-0.3	0.1
2016 Sep	0.1	1.4	-	-0.6	0.3	0.4	0.4	0.2	0.8	-0.6	-0.2
2016 Oct	-	1.2	-	-0.3	0.3	0.3	2.0	0.1	0.8	-0.6	-0.1
2016 Nov	0.1	1.4	0.1	-0.7	0.3	0.4	1.0	-	0.6	-0.1	-0.3
2016 Dec	0.3	1.6	0.3	-0.4	0.4	0.9	0.1	0.5	0.4	0.3	-
2017 Jan	0.3	1.5	0.2	-	0.2	0.4	1.6	0.3	0.9	-0.2	0.1
2017 Feb	0.2	1.2	0.1	0.1	0.4	0.1	1.6	-	1.2	-0.4	0.1
2017 Mar	0.3	1.8	-	0.4	0.5	0.5	1.5	-0.2	0.9	-0.3	0.4
2017 Apr	0.3	1.6	0.1	0.3	0.5	0.3	1.4	-0.2	0.8	-0.1	0.2
2017 May	0.4	1.9	0.4	0.1	0.7	0.5	2.6	-	1.5	-	0.4
2017 Jun	0.7	2.2	0.6	0.2	0.4	0.8	3.2	0.3	1.3	0.6	0.4
2017 Jul	0.7	2.8	0.5	0.2	0.4	1.1	2.8	0.3	1.3	0.5	0.5
2017 Aug	0.6	3.0	0.5	0.3	-0.9	1.4	3.5	0.3	1.2	0.4	0.7
2017 Sep	0.6	2.4	0.6	1.1	-2.1	0.8	3.2	0.1	1.3	0.7	0.9
2017 Oct	0.8	1.8	0.8	1.6	-2.1	-	3.2	0.1	1.8	0.8	1.0
<b>Percentage change, latest year on previous year</b>											
2012	-	-	-	-	-	-	-	-	-	-	-
2013	-	-	-	-	-	-	-	-	-	-	-
2014	-	-	-	-	-	-	-	-	-	-	-
2015	-	-	-	-	-	-	-	-	-	-	-
2016	-	1.0	-	-	-0.1	0.2	0.9	0.1	0.5	-0.3	0.1
<b>Percentage change, latest month on same month a year ago</b>											
2015 Aug	-	-	-	-	-	-	-	-	-	-	-
2015 Sep	-	-	-	-	-	-	-	-	-	-	-
2015 Oct	-	-	-	-	-	-	-	-	-	-	-
2015 Nov	-	-	-	-	-	-	-	-	-	-	-
2015 Dec	-	-	-	-	-	-	-	-	-	-	-
2016 Jan	0.1	0.6	0.1	0.2	-0.3	0.2	0.5	0.4	-	-	0.3
2016 Feb	0.1	0.5	0.1	0.5	-0.1	-0.4	1.5	0.5	0.5	-0.2	0.2
2016 Mar	-	0.8	-0.1	0.5	-0.3	-0.3	0.9	0.1	0.3	-0.5	0.3
2016 Apr	0.2	0.8	0.2	0.5	0.1	-0.2	2.2	0.3	0.7	-0.3	0.2
2016 May	-	0.8	-0.1	0.3	0.6	-	1.3	-0.2	0.8	-0.6	0.2
2016 Jun	-0.2	1.0	-0.3	0.2	-0.6	0.3	-0.4	-0.4	0.5	-0.7	0.3
2016 Jul	-0.1	0.9	-0.1	0.2	-0.5	0.5	1.0	-0.2	0.7	-0.7	0.2
2016 Aug	0.1	1.1	-	-0.2	-0.2	0.5	-0.4	-0.1	0.8	-0.3	0.1
2016 Sep	-	1.3	-	-0.6	0.3	0.3	0.4	0.2	0.8	-0.6	-0.2
2016 Oct	-	1.1	-	-0.3	-0.4	0.3	2.1	-	0.8	-0.6	-0.1
2016 Nov	0.1	1.3	-	-0.7	0.3	0.3	1.0	-	0.6	-0.1	-0.3
2016 Dec	0.3	1.6	0.3	-0.5	0.4	0.8	0.1	0.4	0.4	0.2	-0.1
2017 Jan	0.2	1.0	0.1	-0.3	0.5	0.2	1.1	-0.1	0.8	-0.1	-0.1
2017 Feb	-	0.8	-	-0.4	0.5	0.5	0.1	-0.5	0.7	-0.2	-0.1
2017 Mar	0.2	1.0	0.2	-0.1	0.8	0.7	0.6	-0.2	0.4	0.3	0.2
2017 Apr	-	0.9	-0.1	-0.1	0.5	0.5	-0.7	-0.5	0.2	0.1	0.1
2017 May	0.4	1.0	0.4	-0.2	-	0.6	1.3	-	0.7	0.5	0.1
2017 Jun	0.8	1.2	1.0	-	0.8	0.5	3.5	0.9	0.7	1.4	0.2
2017 Jul	0.7	1.7	0.7	-0.1	0.9	0.6	1.9	0.6	0.4	1.4	0.2
2017 Aug	0.5	1.7	0.5	0.5	-0.6	0.7	3.9	0.4	0.4	0.7	0.6
2017 Sep	0.6	1.0	0.6	1.7	-2.3	0.4	2.8	-0.1	0.5	1.2	1.2
2017 Oct	0.7	0.5	0.8	1.9	-1.5	-0.3	1.0	-	0.9	1.4	1.1

<sup>1</sup> Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.

<sup>†</sup> indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.

Section	Broad industry groups					Main industrial groupings					
	Production industries	Mining and quarrying	Manufacturing	Electricity, gas, steam and air conditioning	Water supply, sewerage and waste management	Oil and gas extraction	Consumer durables	Consumer non-durables	Capital goods	Intermediate goods	Energy
	B+C+D+E	B	C	D	E	06	MIG-CD	MIG-CND	MIG-CAG	MIG-IG	MIG-NRG
Latest weight	1 000.0	87.1	720.5	120.3	72.1	65.1	49.3	204.4	240.5	267.9	219.9
	K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K24O	K24T
<b>Percentage change, latest month on previous month</b>											
2015	Aug	-	-	-	-	-	-	-	-	-	-
	Sep	-	-	-	-	-	-	-	-	-	-
	Oct	-	-	-	-	-	-	-	-	-	-
	Nov	-	-	-	-	-	-	-	-	-	-
	Dec	-	-	-	-	-	-	-	-	-	-
2016	Jan	0.2	0.5	0.1	0.2	-0.4	0.2	0.5	0.4	0.1	0.1
	Feb	-	-0.2	-	0.3	0.3	-0.6	1.0	0.1	0.4	-0.2
	Mar	-0.2	0.3	-0.2	-	-0.2	0.1	-0.6	-0.3	-0.1	-0.3
	Apr	0.2	-	0.2	-0.1	0.4	-	1.3	0.3	0.3	0.3
	May	-0.1	0.1	-0.2	-0.1	0.5	0.3	-0.8	-0.5	0.1	-0.3
	Jun	-0.2	0.1	-0.2	-0.1	-1.1	0.3	-1.6	-0.3	-0.2	-0.2
	Jul	0.1	-0.1	0.1	-	-	0.2	1.3	0.3	0.2	0.1
	Aug	0.1	0.2	0.2	-0.4	0.3	0.1	-1.4	0.1	-	0.5
	Sep	-	0.2	-	-0.5	0.6	-0.2	0.9	0.2	-	-0.3
	Oct	-	-0.1	-	0.3	-0.7	-0.1	1.7	-0.1	-	-0.1
	Nov	0.1	0.1	0.1	-0.4	0.6	0.1	-1.0	-0.1	-0.2	0.5
	Dec	0.2	0.2	0.3	0.3	0.1	0.4	-1.0	0.5	-0.2	0.4
2017	Jan	-	-0.2	-0.1	0.4	-0.2	-0.4	1.4	-0.1	0.4	-0.4
	Feb	-	-0.3	-0.1	0.1	0.2	-0.3	0.1	-0.4	0.3	-0.2
	Mar	-	0.5	-0.1	0.4	0.1	0.4	-0.1	-0.1	-0.3	0.1
	Apr	-	-	0.1	-0.2	-	-0.1	-0.1	-	-	0.1
	May	0.3	0.2	0.3	-0.1	0.1	0.2	1.2	0.2	0.6	0.1
	Jun	0.2	0.3	0.3	0.1	-0.2	0.2	0.4	0.5	-0.2	0.6
	Jul	-	0.5	-	-	0.1	0.3	-0.1	-	-	-0.1
	Aug	-0.1	0.3	-0.1	0.1	-1.2	0.3	0.5	-	0.1	-0.1
	Sep	-0.1	-0.7	-	0.7	-1.1	-0.7	-0.3	-0.3	-	0.2
	Oct	0.2	-0.6	0.2	0.6	-	-0.7	-	-	0.5	0.2
<b>Percentage change, latest 3 months on same 3 months a year ago</b>											
2015	Aug	-	-	-	-	-	-	-	-	-	-
	Sep	-	-	-	-	-	-	-	-	-	-
	Oct	-	-	-	-	-	-	-	-	-	-
	Nov	-	-	-	-	-	-	-	-	-	-
	Dec	-	-	-	-	-	-	-	-	-	-
2016	Jan	-	0.3	-	0.1	-0.2	0.1	0.1	0.1	-	-
	Feb	-	0.4	0.1	0.3	-0.1	-0.1	0.6	0.3	0.1	-0.1
	Mar	0.1	0.6	-	0.4	-0.3	-0.2	1.0	0.3	0.3	-0.2
	Apr	0.1	0.7	-	0.5	-	-0.3	1.6	0.3	0.5	-0.3
	May	0.1	0.8	-	0.4	0.1	-0.2	1.5	0.1	0.6	-0.4
	Jun	0.1	0.9	-0.1	0.4	-	-	1.1	-	0.6	-0.5
	Jul	-0.1	0.9	-0.2	0.3	-0.2	0.3	0.7	-0.2	0.7	-0.6
	Aug	-	1.1	-0.2	0.1	-0.4	0.4	-	-0.2	0.7	-0.6
	Sep	-	1.1	-0.1	-0.2	-0.1	0.4	0.3	-0.1	0.8	-0.5
	Oct	0.1	1.2	-	-0.4	-0.1	0.4	0.7	-	0.8	-0.5
	Nov	0.1	1.3	-	-0.6	-	-0.3	1.1	0.1	0.7	-0.4
	Dec	0.1	1.4	0.1	-0.5	0.1	0.5	1.0	0.2	0.6	-0.2
2017	Jan	0.2	1.4	0.1	-0.4	0.4	0.5	0.8	0.2	0.6	-
	Feb	0.2	1.1	0.1	-0.3	0.5	0.5	0.4	-	0.6	-
	Mar	0.2	0.9	0.1	-0.3	0.6	0.4	0.6	-0.3	0.7	-0.1
	Apr	0.1	0.8	0.1	-0.2	0.6	0.6	-0.1	-0.5	0.5	0.1
	May	0.2	0.9	0.2	-0.2	0.4	0.6	0.3	-0.2	0.5	0.3
	Jun	0.4	1.1	0.5	-0.2	0.4	0.5	1.2	0.1	0.5	0.7
	Jul	0.6	1.4	0.7	-0.1	0.6	0.6	2.2	0.5	0.6	1.1
	Aug	0.7	1.5	0.7	0.1	0.4	0.5	3.1	0.6	0.5	1.2
	Sep	0.6	1.5	0.6	0.6	-0.6	0.5	2.8	0.2	0.5	1.1
	Oct	0.6	1.1	0.7	1.4	-1.5	0.3	2.6	0.1	0.6	1.2

<sup>1</sup> Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.

<sup>†</sup> indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.

**Output of the Production Industries**  
Chained volume indices of gross value added<sup>1</sup>

Seasonally adjusted 2015 = 100

Section	Broad industry groups					Main industrial groupings					
	Production industries	Mining and quarrying	Manufacturing	Electricity, gas, steam and air conditioning	Water supply, sewerage and waste management	Oil and gas extraction	Consumer durables	Consumer non-durables	Capital goods	Intermediate goods	Energy
	B+C+D+E	B	C	D	E	06	MIG-CD	MIG-CND	MIG-CAG	MIG-IG	MIG-NRG
Latest weight	1 000.0	87.1	720.5	120.3	72.1	65.1	49.3	204.4	240.5	267.9	219.9
	K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K24O	K24T
<b>Percentage change, latest 3 months on previous 3 months</b>											
2015											
Aug	-	-	-	-	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-	-	-	-	-
2016											
Jan	-	0.2	-	0.1	-0.2	0.1	0.1	0.2	0.1	-	0.1
Feb	0.1	0.3	-	0.3	-0.1	-0.1	0.7	0.3	0.1	-0.1	0.1
Mar	0.1	0.6	-	0.4	-0.3	-0.1	0.9	0.3	0.4	-0.3	0.2
Apr	0.1	0.4	-	0.4	-	-0.3	1.4	0.2	0.6	-0.3	0.1
May	-	0.5	-0.1	0.2	0.3	-0.1	0.8	-0.2	0.4	-0.4	0.1
Jun	-0.1	0.2	-0.2	-0.1	0.3	0.1	0.2	-0.4	0.3	-0.3	-
Jul	-0.1	0.3	-0.3	-0.3	-0.1	0.5	-0.9	-0.6	0.1	-0.4	-
Aug	-0.2	0.3	-0.1	-0.3	-0.5	0.7	-1.4	-0.4	0.1	-0.2	-
Sep	-	0.3	0.1	-0.4	-0.2	0.5	-0.7	-	0.1	-	-0.2
Oct	0.1	0.4	0.2	-0.6	0.1	0.1	-	0.3	0.1	0.2	-0.3
Nov	0.1	0.4	0.1	-0.7	0.5	-0.1	1.1	0.3	-	0.2	-0.4
Dec	0.1	0.3	0.2	-0.3	0.2	0.1	0.7	0.2	-0.2	0.4	-0.1
2017											
Jan	0.2	0.2	0.2	-	0.4	0.2	0.2	0.2	-0.2	0.5	0.1
Feb	0.3	0.1	0.3	0.4	0.3	0.1	-0.1	0.2	0.1	0.3	0.3
Mar	0.1	-	-	0.6	0.3	-0.2	0.5	-0.1	0.4	-0.1	0.3
Apr	-	-	-0.1	0.6	0.2	-0.3	0.6	-0.4	0.3	-0.3	0.3
May	-	0.3	-	0.4	0.2	-	0.7	-0.3	0.2	-0.1	0.2
Jun	0.2	0.5	0.2	0.1	-	0.2	0.8	-0.1	0.1	0.4	0.1
Jul	0.3	0.7	0.5	-0.1	-	0.5	1.3	0.3	0.3	0.6	0.2
Aug	0.4	0.9	0.4	-0.1	-0.5	0.6	1.3	0.5	0.2	0.7	0.2
Sep	0.2	0.8	0.2	0.3	-1.2	0.4	0.7	0.2	0.1	0.4	0.4
Oct	-	-	0.1	0.8	-2.0	-0.2	0.3	-0.1	0.1	0.3	0.5

<sup>1</sup> Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.

<sup>†</sup> indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.

Section	Food products, beverages and tobacco	Textiles, wearing apparel and leather products	Wood and paper products and printing	Coke and refined petroleum products	Chemicals and chemical products	Basic pharmaceutical products and preparations
	CA	CB	CC	CD	CE	CF
Latest weight	114.5	26.8	50.3	13.0	49.5	51.1
	K22B	K22P	K22T	K22X	K22Z	K239
2012	-	-	-	-	-	-
2013	-	-	-	-	-	-
2014	-	-	-	-	-	-
2015	-	-	-	-	-	-
2016	-0.4	2.0	-1.0	0.1	-2.9	0.1
2016 Q3	-0.6	-0.2	-0.6	-0.4	-3.6	0.2
Q4	-0.3	-0.2	-0.4	-0.1	-2.9	-0.4
2017 Q1	0.7	-4.6	-0.2	0.2	-2.6	-0.8
Q2	0.9	-5.7	0.1	0.7	-2.3	-1.3
Q3	1.3	-5.1	0.4	1.2	-2.3	-1.4
2016 Aug	-0.7	-1.0	-0.6	-0.7	-3.6	0.3
Sep	-0.4	0.3	-0.3	-0.3	-3.8	-
Oct	-0.4	0.4	-0.4	-0.4	-3.3	-0.7
Nov	-0.4	-0.5	-0.6	-0.1	-3.3	-0.3
Dec	-0.1	-0.5	-	0.1	-1.9	-
2017 Jan	0.6	-2.4	-	0.1	-2.6	-0.7
Feb	0.8	-5.6	-0.4	0.2	-2.6	-1.0
Mar	0.9	-5.7	-0.3	0.3	-2.8	-0.9
Apr	0.7	-5.9	-0.2	0.6	-2.3	-1.2
May	0.8	-6.0	0.1	0.6	-2.4	-1.3
Jun	1.2	-5.2	0.4	1.0	-2.5	-1.1
Jul	1.3	-5.0	0.3	0.8	-2.5	-1.3
Aug	1.5	-4.1	0.4	1.2	-2.6	-1.2
Sep	1.2	-6.0	0.6	1.5	-1.7	-1.6
Oct	1.8	-6.5	0.5	1.1	-2.6	-1.6
<b>Percentage change, latest year on previous year</b>						
2012	-	-	-	-	-	-
2013	-	-	-	-	-	-
2014	-	-	-	-	-	-
2015	-	-	-	-	-	-
2016	-0.4	2.0	-1.0	0.1	-2.9	0.1
<b>Percentage change, latest month on same month a year ago</b>						
2015 Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-
Oct	-	-	-	-	-	-
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
2016 Jan	-0.2	4.3	-1.2	0.1	-1.1	0.6
Feb	-	4.3	-1.0	0.2	-2.0	0.2
Mar	-0.3	4.4	-1.2	0.3	-3.1	0.2
Apr	-0.2	6.5	-1.4	0.5	-3.2	0.4
May	-0.3	3.9	-2.1	0.7	-3.3	0.2
Jun	-0.6	1.5	-1.5	1.0	-3.2	-0.2
Jul	-0.6	0.2	-1.0	-0.3	-3.3	0.3
Aug	-0.7	-1.1	-0.6	-0.6	-3.6	0.4
Sep	-0.4	0.3	-0.4	-0.2	-3.8	-
Oct	-0.5	0.4	-0.5	-0.4	-3.3	-0.8
Nov	-0.4	-0.6	-0.5	-	-3.3	-0.4
Dec	-0.1	-0.5	-0.1	0.1	-2.0	-
2017 Jan	0.7	-6.2	1.3	0.1	-1.5	-1.3
Feb	0.7	-10.6	0.6	-	-0.6	-1.1
Mar	1.2	-11.2	1.0	-	0.4	-1.1
Apr	0.8	-12.6	1.2	0.1	1.2	-1.4
May	1.1	-11.3	2.3	-0.1	0.9	-1.6
Jun	1.8	-7.3	2.0	-	1.0	-0.9
Jul	1.8	-5.4	1.4	1.1	0.9	-1.6
Aug	2.2	-3.2	1.0	1.9	1.3	-1.7
Sep	1.6	-6.4	1.0	1.8	2.4	-1.6
Oct	2.3	-7.3	1.0	1.5	0.8	-0.8

<sup>1</sup> Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.

<sup>†</sup> indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.

Section	Rubber and plastic products and non-metallic mineral products	Basic metals and metal products	Computer, electronic and optical products	Electrical equipment	Machinery and equipment not elsewhere classified	Transport equipment	Other manufacturing and repair
	CG	CH	CI	CJ	CK	CL	CM
Latest weight	58.5	87.6	33.0	21.7	44.0	102.9	67.4
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z
2012	-	-	-	-	-	-	-
2013	-	-	-	-	-	-	-
2014	-	-	-	-	-	-	-
2015	-	-	-	-	-	-	-
2016	-0.6	-	1.4	2.0	-	0.2	1.3
2016 Q3	-0.7	0.2	1.0	2.5	-0.1	0.5	1.7
Q4	0.3	-	1.3	3.1	-0.1	-0.1	2.3
2017 Q1	0.8	-	2.6	-	-	-0.3	2.7
Q2	2.1	0.1	2.9	-0.2	0.1	-0.2	3.5
Q3	1.8	0.8	3.3	-0.8	0.1	0.2	3.3
2016 Aug	-0.7	1.3	0.1	2.5	-0.4	0.7	1.6
Sep	-	-0.6	0.8	2.6	0.2	0.6	2.0
Oct	0.5	-1.3	2.6	3.3	0.7	-0.1	2.2
Nov	0.2	0.2	1.4	3.4	-0.2	-0.2	2.3
Dec	0.3	1.3	0.1	2.4	-0.8	-0.2	2.6
2017 Jan	0.6	0.3	2.5	0.7	-0.4	-0.2	2.5
Feb	0.8	0.1	2.9	-	0.9	-0.2	2.6
Mar	1.2	-0.1	2.2	-0.7	-0.4	-0.4	2.9
Apr	2.1	-0.7	1.8	-	-0.4	-0.4	3.0
May	2.2	-0.5	3.3	0.3	0.3	-0.1	4.0
Jun	1.9	1.5	3.6	-0.7	0.1	0.1	3.4
Jul	1.6	1.3	3.0	-1.0	-	0.1	3.6
Aug	1.7	0.4	3.4	-1.5	0.4	0.5	2.9
Sep	2.1	0.7	3.4	-	0.1	0.3	3.2
Oct	1.7	1.3	3.6	0.5	1.0	0.5	3.7
<b>Percentage change, latest year on previous year</b>							
2012	-	-	-	-	-	-	-
2013	-	-	-	-	-	-	-
2014	-	-	-	-	-	-	-
2015	-	-	-	-	-	-	-
2016	-0.6	-	1.4	2.0	-	0.2	1.3
<b>Percentage change, latest month on same month a year ago</b>							
2015 Aug	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-
2016 Jan	-	0.2	0.7	0.7	0.1	0.2	-0.5
Feb	-0.1	-0.2	2.7	1.1	0.1	0.3	-0.2
Mar	-0.6	-0.6	1.6	0.7	0.2	0.3	0.1
Apr	-0.7	-0.1	3.3	0.8	0.1	0.1	0.5
May	-2.1	0.1	2.1	1.3	0.2	0.2	1.0
Jun	-2.2	-0.1	-0.6	1.6	-0.1	0.3	2.0
Jul	-1.4	-0.1	1.9	2.5	-0.2	0.2	1.4
Aug	-0.6	1.3	0.1	2.6	-0.4	0.8	1.8
Sep	-0.1	-0.7	0.8	2.5	0.2	0.6	1.9
Oct	0.5	-1.3	2.6	3.3	0.7	-0.1	2.4
Nov	0.2	0.2	1.4	3.5	-0.2	-0.1	2.4
Dec	0.3	1.4	0.1	2.5	-0.8	-0.2	2.6
2017 Jan	0.5	0.1	1.8	0.1	-0.7	-0.5	3.0
Feb	1.0	0.3	0.1	-1.2	0.8	-0.6	2.7
Mar	1.9	0.4	0.7	-1.5	-0.6	-0.7	2.7
Apr	2.6	-0.6	-1.5	-0.9	-0.5	-0.4	2.3
May	4.1	-0.7	1.2	-1.2	0.2	-0.4	2.7
Jun	4.1	1.7	4.4	-2.6	0.1	-0.1	1.2
Jul	3.0	1.4	1.1	-3.9	0.1	-0.3	2.1
Aug	2.3	-0.8	3.2	-4.4	0.7	-0.3	1.0
Sep	2.0	1.3	2.5	-2.8	-0.1	-0.3	1.1
Oct	1.1	2.9	0.9	-2.9	0.3	0.6	1.2

<sup>1</sup> Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.

<sup>†</sup> indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.

Section	Food products, beverages and tobacco	Textiles, wearing apparel and leather products	Wood and paper products and printing	Coke and refined petroleum products	Chemicals and chemical products	Basic pharmaceutical products and preparations
	CA	CB	CC	CD	CE	CF
Latest weight	114.5	26.8	50.3	13.0	49.5	51.1
	K22B	K22P	K22T	K22X	K22Z	K239
<b>Percentage change, latest month on previous month</b>						
2015 Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-
Oct	-	-	-	-	-	-
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
2016 Jan	-0.2	4.2	-1.3	0.1	-1.1	0.6
Feb	0.1	0.5	0.2	0.1	-1.0	-0.4
Mar	-0.4	0.3	-0.3	0.1	-1.1	0.1
Apr	0.2	2.0	-0.1	0.2	-0.2	0.2
May	-	-2.1	-0.8	0.2	0.1	-0.1
Jun	-0.3	-2.8	0.6	0.2	-0.1	-0.4
Jul	-	-1.5	0.4	-1.2	-0.1	0.5
Aug	-0.1	-1.3	0.4	-0.4	-0.4	-
Sep	0.4	1.2	0.2	0.5	-0.1	-0.3
Oct	-0.1	0.2	-0.1	-0.1	0.5	-0.7
Nov	0.1	-1.0	-0.2	0.3	-0.1	0.6
Dec	0.2	0.1	0.6	0.1	1.5	0.3
2017 Jan	0.8	-1.9	-0.1	0.1	-0.6	-0.5
Feb	0.1	-3.1	-0.3	0.1	-0.1	-0.4
Mar	-	0.1	0.1	0.1	-0.1	-
Apr	-0.1	-0.5	0.1	0.3	0.6	-0.3
May	0.2	0.1	0.3	-	-0.2	-
Jun	0.3	0.9	0.3	0.3	-0.1	0.3
Jul	-	0.4	-	-0.1	-	-0.3
Aug	0.2	0.7	-0.1	0.3	-0.1	-
Sep	-0.2	-2.0	0.4	0.3	0.9	-0.4
Oct	0.6	-0.6	-0.1	-0.3	-0.9	0.2
<b>Percentage change, latest 3 months on same 3 months a year ago</b>						
2015 Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-
Oct	-	-	-	-	-	-
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
2016 Jan	-0.1	1.4	-0.4	-	-0.4	0.2
Feb	-	3.0	-0.7	-	-1.0	0.3
Mar	-0.2	4.4	-1.1	0.2	-2.1	0.3
Apr	-0.2	5.1	-1.1	0.4	-2.7	0.3
May	-0.3	4.9	-1.6	0.5	-3.2	0.3
Jun	-0.4	3.9	-1.7	0.7	-3.2	0.2
Jul	-0.5	1.8	-1.6	0.4	-3.2	0.1
Aug	-0.6	0.2	-1.1	-0.1	-3.4	0.2
Sep	-0.6	-0.2	-0.7	-0.4	-3.6	0.2
Oct	-0.5	-0.1	-0.4	-0.4	-3.5	-0.1
Nov	-0.4	0.1	-0.5	-0.3	-3.5	-0.4
Dec	-0.3	-0.2	-0.3	-0.1	-2.8	-0.3
2017 Jan	0.1	-2.5	0.2	-	-2.3	-0.5
Feb	0.5	-5.7	0.7	-	-1.4	-0.9
Mar	0.9	-9.3	1.0	-	-0.6	-1.2
Apr	1.0	-11.5	0.9	-	0.3	-1.2
May	1.0	-11.8	1.5	-	0.8	-1.3
Jun	1.2	-10.5	1.8	-	1.0	-1.3
Jul	1.5	-7.9	1.9	0.4	0.9	-1.3
Aug	1.9	-5.2	1.4	1.0	1.1	-1.3
Sep	1.9	-5.0	1.1	1.6	1.5	-1.6
Oct	2.0	-5.6	1.0	1.7	1.4	-1.3

<sup>1</sup> Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.

<sup>†</sup> indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.



## Output of the Production Industries

Chained volume indices of gross value added<sup>1</sup>

Seasonally adjusted 2015 = 100

Section	Rubber and plastic products and non-metallic mineral products	Basic metals and metal products	Computer, electronic and optical products	Electrical equipment	Machinery and equipment not elsewhere classified	Transport equipment	Other manufacturing and repair
	CG	CH	CI	CJ	CK	CL	CM
Latest weight	58.5	87.6	33.0	21.7	44.0	102.9	67.4
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z
<b>Percentage change, latest month on previous month</b>							
2015 Aug	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-
2016 Jan	-	0.2	0.8	0.7	0.2	0.3	-0.5
Feb	-0.1	-0.4	2.0	0.4	-0.1	0.1	0.4
Mar	-0.5	-0.5	-1.1	-0.3	0.1	-	0.3
Apr	-	0.6	1.8	0.2	-0.1	-0.3	0.4
May	-1.3	0.2	-1.3	0.5	-	0.2	0.4
Jun	-0.3	-0.3	-2.7	0.3	-0.2	0.1	0.9
Jul	0.9	0.1	2.6	0.9	-0.1	-	-0.6
Aug	0.7	1.4	-1.8	0.2	-0.2	0.5	0.4
Sep	0.5	-1.9	0.7	-	0.5	-0.1	0.2
Oct	0.7	-0.7	1.8	0.7	0.4	-0.7	0.3
Nov	-0.3	1.6	-1.2	0.1	-0.9	-0.1	0.1
Dec	0.1	1.2	-1.4	-1.0	-0.6	-	0.1
2017 Jan	0.2	-1.0	2.2	-1.7	0.3	-	-
Feb	0.2	-0.2	0.3	-0.8	1.3	-0.1	-
Mar	0.4	-0.2	-0.4	-0.7	-1.2	-0.1	0.3
Apr	0.8	-0.6	-0.4	0.8	0.1	-0.1	0.1
May	0.2	0.2	1.5	0.3	0.7	0.2	0.8
Jun	-0.3	2.1	0.1	-1.1	-0.3	0.2	-0.7
Jul	-0.3	-0.1	-0.4	-0.2	-	-0.1	0.3
Aug	0.1	-0.9	0.3	-0.6	0.3	0.4	-0.7
Sep	0.3	0.2	-0.1	1.7	-0.2	-0.2	0.2
Oct	-0.4	0.7	0.3	0.5	0.8	0.2	0.5
<b>Percentage change, latest 3 months on same 3 months a year ago</b>							
2015 Aug	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-
2016 Jan	-	0.1	0.2	0.2	-	0.1	-0.2
Feb	-	-	1.1	0.6	0.1	0.2	-0.2
Mar	-0.2	-0.2	1.7	0.9	0.1	0.4	-0.2
Apr	-0.5	-0.3	2.5	0.9	0.2	0.2	0.1
May	-1.1	-0.2	2.3	1.0	0.1	0.2	0.5
Jun	-1.7	-0.1	1.6	1.2	0.1	0.3	1.1
Jul	-1.9	-	1.1	1.8	-	0.3	1.5
Aug	-1.5	0.3	0.5	2.2	-0.2	0.5	1.7
Sep	-0.7	0.2	0.9	2.5	-0.1	0.5	1.6
Oct	-	-0.2	1.1	2.8	0.2	0.4	2.0
Nov	0.3	-0.6	1.6	3.1	0.3	0.2	2.2
Dec	0.4	0.1	1.3	3.1	-0.1	-0.1	2.5
2017 Jan	0.3	0.5	1.1	2.0	-0.5	-0.2	2.7
Feb	0.6	0.6	0.6	0.4	-0.2	-0.4	2.7
Mar	1.1	0.3	0.9	-0.8	-0.1	-0.5	2.8
Apr	1.8	-	-0.3	-1.2	-0.1	-0.6	2.6
May	2.8	-0.2	0.1	-1.2	-0.3	-0.5	2.7
Jun	3.6	0.2	1.3	-1.6	-0.1	-0.3	2.1
Jul	3.7	0.8	2.2	-2.5	0.2	-0.3	2.0
Aug	3.1	0.7	2.9	-3.7	0.3	-0.2	1.5
Sep	2.4	0.6	2.3	-3.7	0.3	-0.3	1.4
Oct	1.8	1.0	2.3	-3.4	0.3	-	1.1

<sup>1</sup> Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding

<sup>†</sup> indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.

Section	Food products, beverages and tobacco	Textiles, wearing apparel and leather products	Wood and paper products and printing	Coke and refined petroleum products	Chemicals and chemical products	Basic pharmaceutical products and preparations
	CA	CB	CC	CD	CE	CF
Latest weight	114.5	26.8	50.3	13.0	49.5	51.1
	K22B	K22P	K22T	K22X	K22Z	K239
<b>Percentage change, latest 3 months on previous 3 months</b>						
2015 Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-
Oct	-	-	-	-	-	-
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
2016 Jan	-0.1	1.4	-0.4	-	-0.3	0.2
Feb	-	2.8	-0.8	0.1	-1.0	0.2
Mar	-0.2	4.3	-1.2	0.1	-2.1	0.3
Apr	-0.2	3.8	-0.8	0.3	-2.5	0.1
May	-0.2	2.3	-0.8	0.4	-2.3	-
Jun	-0.1	-0.2	-0.5	0.5	-1.2	-0.2
Jul	-0.3	-3.2	-0.4	0.1	-0.4	-0.1
Aug	-0.4	-5.1	0.5	-0.5	-0.2	-0.1
Sep	-0.3	-4.5	1.0	-1.2	-0.4	0.1
Oct	-0.1	-2.2	1.1	-0.9	-0.3	-0.2
Nov	0.2	-0.3	0.6	-0.2	-	-0.6
Dec	0.3	-	0.4	0.3	0.7	-0.7
2017 Jan	0.6	-1.1	0.3	0.5	1.0	-0.2
Feb	0.8	-3.0	0.3	0.3	1.1	-0.2
Mar	1.0	-4.5	0.1	0.3	0.2	-0.4
Apr	0.7	-4.7	-0.1	0.4	0.1	-0.7
May	0.4	-3.0	-	0.4	-	-0.6
Jun	0.2	-1.1	0.3	0.4	0.3	-0.4
Jul	0.3	0.5	0.5	0.4	0.1	-0.1
Aug	0.5	1.2	0.5	0.5	-	-
Sep	0.4	0.8	0.3	0.5	0.2	-0.2
Oct	0.4	-0.3	0.2	0.5	0.2	-0.3

<sup>1</sup> Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.

<sup>†</sup> indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.

## Output of the Production Industries

Chained volume indices of gross value added<sup>1</sup>

Seasonally adjusted 2015 = 100

Section	Rubber and plastic products and non-metallic mineral products	Basic metals and metal products	Computer, electronic and optical products	Electrical equipment	Machinery and equipment not elsewhere classified	Transport equipment	Other manufacturing and repair
	CG	CH	CI	CJ	CK	CL	CM
Latest weight	58.5	87.6	33.0	21.7	44.0	102.9	67.4
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z
<b>Percentage change, latest 3 months on previous 3 months</b>							
2015 Aug	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-
2016 Jan	-	-	0.3	0.2	0.1	0.1	-0.1
Feb	-	-	1.1	0.6	0.1	0.2	-0.2
Mar	-0.3	-0.2	1.7	0.8	0.2	0.3	-0.2
Apr	-0.5	-0.4	2.3	0.7	0.1	0.2	0.4
May	-1.0	-0.2	1.2	0.4	0.1	-	0.8
Jun	-1.3	0.2	-0.1	0.5	-0.1	-0.1	1.4
Jul	-1.3	0.3	-1.4	1.0	-0.1	-	1.2
Aug	-0.3	0.5	-1.9	1.3	-0.4	0.2	1.1
Sep	0.9	0.3	-0.6	1.3	-0.1	0.3	0.4
Oct	1.8	-0.2	0.1	1.0	0.2	0.1	0.4
Nov	1.6	-0.9	1.1	0.9	0.4	-0.3	0.4
Dec	1.1	-0.1	0.3	0.5	-0.1	-0.7	0.7
2017 Jan	0.4	0.9	0.1	-0.8	-0.7	-0.5	0.5
Feb	0.3	1.3	0.2	-2.2	-0.3	-0.3	0.3
Mar	0.5	-	1.1	-3.2	0.2	-0.1	0.3
Apr	1.0	-0.8	0.9	-2.5	0.5	-0.1	0.3
May	1.2	-1.1	0.7	-1.2	-	-0.1	0.7
Jun	1.2	-	0.3	-0.1	-	0.1	0.7
Jul	0.6	1.0	0.9	-0.2	-	0.3	0.8
Aug	-	1.6	0.8	-1.0	0.3	0.5	-0.1
Sep	-0.2	0.7	0.3	-0.6	0.1	0.4	-0.3
Oct	-0.1	0.1	-	0.2	0.4	0.4	-0.5

<sup>1</sup> Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding

<sup>†</sup> indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.



**Next publication:** 9th February 2018  
**Issued by:** Office for National Statistics, Government Buildings, Cardiff Road, Newport NP10 8XG

**Media contact:**  
Tel: Media Relations Office +44 (0) 845 6041858  
Emergency on-call +44 (0) 7867 906553  
Email: [press.office@ons.gsi.gov.uk](mailto:press.office@ons.gsi.gov.uk)

**Statistical contact:**  
Name: Mark Stephens  
Tel: Mark Stephens +44 (0) 1633 456387  
Email: [indexofproduction@ons.gsi.gov.uk](mailto:indexofproduction@ons.gsi.gov.uk)

**Contact us:**  
Tel: +44 (0) 845 601 3034  
Email: [info@ons.gsi.gov.uk](mailto:info@ons.gsi.gov.uk)  
Website: [www.statistics.gov.uk](http://www.statistics.gov.uk)  
Twitter: [www.twitter.com/statisticsONS](http://www.twitter.com/statisticsONS)