

Statistical bulletin

# Index of Production, UK: January 2019

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.



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Release date:  
12 March 2019

Next release:  
10 April 2019

## Table of contents

1. [Main points](#)
2. [Things you need to know about this release](#)
3. [Production in detail](#)
4. [What is contributing to the three-monthly decrease?](#)
5. [What is contributing to the month on previous month increase?](#)
6. [What is contributing to the three months on same three months a year ago decrease?](#)
7. [Upcoming releases](#)
8. [Links to related statistics](#)
9. [Quality and methodology](#)

# 1 . Main points

- Production output fell by 0.8% in the three months to January 2019, compared with the three months to October 2018, due to falls in three main sectors.
- The three-monthly decrease of 0.7% in manufacturing is due mainly to large falls of 4.0% from basic metals and metal products and 2.0% from transport equipment.
- Production output rose by 0.6% between December 2018 and January 2019; the manufacturing sector provided the largest upward contribution, rising by 0.8%, its first monthly rise since June 2018.
- In January 2019, the monthly increase in manufacturing output was due to rises in 8 of the 13 subsectors and follows a 0.7% fall in December 2018; the largest upward contribution came from pharmaceuticals, which rose by 5.7%.
- In the three months to January 2019, production output decreased by 1.0% compared with the same three months to January 2018; driven by a fall of 1.5% from manufacturing.

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

This January 2019 release contains no revisions and is consistent with the [National Accounts Revisions Policy](#). Further to this release, the Quarterly national accounts published on 29 March 2019 will include revised production data from January 2018 to December 2018. These revised data will also include Value Added Tax (VAT) data for the first time in Quarter 3 (July to Sept) 2018.

This release includes VAT data for Quarter 2 (April to June) 2018.

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 13.8% of the [output approach to the measurement of GDP](#).

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

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.

## 3 . Production in detail

Figures 1 and 2 show that growth for the Index of Production (IoP) and Index of Manufacturing (IoM) was more pronounced from the beginning of 2010, as the economy recovered, before a downturn during 2012. Production and manufacturing output have risen since then but remain 6.8% and 2.7% lower respectively for the three months to January 2019 than the pre-downturn gross domestic product (GDP) peak in Quarter 1 (Jan to Mar) 2008.

**Figure 1: The Index of Production remains below its pre-economic downturn peak**

Index of Production, seasonally adjusted, UK, January 2008 to January 2019

Economic downturn

Figure 1: The Index of Production remains below its pre-economic downturn peak

Index of Production, seasonally adjusted, UK, January 2008 to January 2019



Source: Office for National Statistics – Index of Production

Notes:

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

**Figure 2: The Index of Manufacturing remains below its pre-economic downturn peak**

Index of Manufacturing, seasonally adjusted, UK, January 2008 to January 2019

Figure 2: The Index of Manufacturing remains below its pre-economic downturn peak

Index of Manufacturing, seasonally adjusted, UK, January 2008 to January 2019



Source: Office for National Statistics – Index of Production

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 sectors for January 2019.

Table 1: Growths and contributions to production, three months on previous three months, three months on same three months a year ago, month on previous month  
UK, January 2019, seasonally adjusted estimates

Sector	Summary Description	Three months on previous three months		Three months on same three months a year ago		Month on previous month	
		Growth (%)	Contribution to production (% points)	Growth (%)	Contribution to production (% points)	Growth (%)	Contribution to production (% points)
IoP	Index of Production	-0.8	-0.83	-1.0	-1.02	0.6	0.62
Sector B	Total Mining and Quarrying	-1.7	-0.13	5.6	0.40	0.8	0.06
5	Coal and Lignite	-1.9	0.00	-7.2	0.00	20.9	0.01
6	Crude petroleum and Natural gas	-1.7	-0.09	6.8	0.33	-0.5	-0.02
789	Other mining and quarrying	-1.5	-0.04	3.2	0.07	3.4	0.08
Sector C	Total Manufacturing	-0.7	-0.49	-1.5	-1.11	0.8	0.59
CA	Food, beverages and tobacco	-0.3	-0.04	2.1	0.23	1.3	0.15
CB	Textiles and leather products	0.0	0.00	-1.8	-0.05	0.9	0.03
CC	Wood, paper and printing	1.5	0.08	1.8	0.09	0.0	0.00
CD	Coke and petroleum	-2.1	-0.02	2.1	0.02	0.4	0.00
CE	Chemical products	1.1	0.05	3.1	0.15	0.0	0.00
CF	Pharmaceutical products	1.6	0.08	1.4	0.07	5.7	0.30
CG	Rubber and plastic products	0.6	0.03	0.5	0.03	1.5	0.09
CH	Metal products	-4.0	-0.34	-7.6	-0.66	1.5	0.12
CI	Computer, electronic and optical	0.9	0.03	6.3	0.23	1.8	0.07
CJ	Electrical equipment	-1.1	-0.02	-9.1	-0.22	1.4	0.03
CK	Machinery and equipment	-0.9	-0.04	-7.6	-0.38	-0.4	-0.02
CL	Transport equipment	-2.0	-0.22	-3.8	-0.42	-1.4	-0.15
CM	Other manufacturing and repair	-1.5	-0.10	-3.0	-0.20	-0.5	-0.03
Sector D	Total Electricity and Gas	-1.7	-0.21	-2.2	-0.27	0.3	0.04
35.1	Electric power generation, transmission and distribution	-2.3	-0.21	-2.3	-0.20	0.1	0.01
35.2-3	Manufacture of gas; distribution of gaseous fuels through mains; steam and aircon supply	-0.1	0.00	-2.0	-0.07	0.9	0.03
Sector E	Total Water and Waste	0.0	0.00	-0.5	-0.03	-0.9	-0.06
36	Water collection, treatment and supply	-1.5	-0.03	-0.9	-0.02	0.8	0.02
37	Sewerage	-1.4	-0.03	-5.5	-0.12	0.1	0.00
38	Waste collection, treatment and disposal activities; materials recovery	1.9	0.06	3.4	0.10	-2.5	-0.08

39	Remediation activities and other waste management services	0.4	0.00	7.7	0.00	-5.4	0.00
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Source: Office for National Statistics - Index of Production

## 4 . What is contributing to the three-monthly decrease?

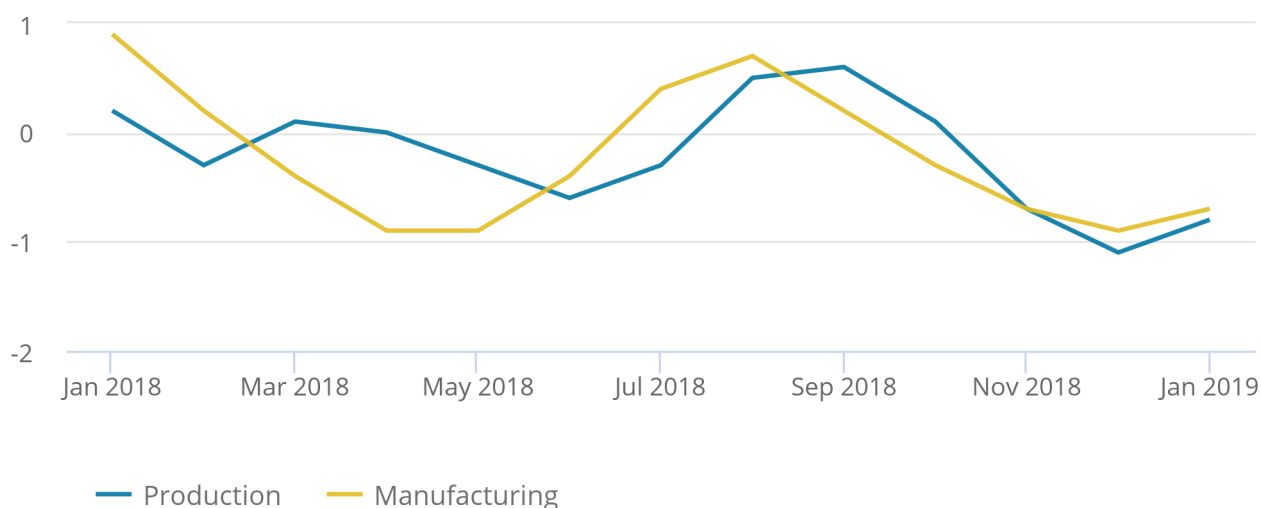
Total production output for the three months to January 2019, compared with the three months to October 2018, decreased by 0.8% (Figure 3), driven by falls in three of the four main sectors.

**Figure 3: Total production output decreased by 0.8% in the three months to January 2019**

IoP and IoM three-month on three-month growth, seasonally adjusted, UK, January 2018 to January 2019

### Figure 3: Total production output decreased by 0.8% in the three months to January 2019

IoP and IoM three-month on three-month growth, seasonally adjusted, UK, January 2018 to January 2019



Source: Office for National Statistics - Index of Production

Providing the largest downward contribution to total production output was a decline of 0.7% in manufacturing output (Figure 3). This was the fourth consecutive three-monthly fall, with 7 of the 13 subsectors displaying downward contributions. The fall in manufacturing is due primarily to strong decreases from basic metals and metal products, which fell by 4.0% and transport equipment, which fell by 2.0%.

Within basic metals, fabricated metal products fell by 4.5%, continuing the recent three-monthly weakness in this sub-industry from November 2018, due mainly to widespread falls from large businesses (with employment greater than 150 persons on average) across the industry.

Within transport equipment, weakness is driven by a 4.0% fall in the motor vehicles, trailers and semi-trailers sub-industry. The weakness is attributed to the impact of shutdowns within this industry during November and December 2018. Users are also directed to the [December 2018 Index of Production bulletin](#), which highlights a number of factors behind a weakening in demand for new cars in the UK since the end of 2016. Additionally, data provided by the Society of Motor Manufacturers and Traders (SMMT) indicates that [car manufacturing has fallen for January 2019](#) compared with January 2018.

Other manufacturing and repair fell by 1.5%, with decreases in three of the five sub-industries.

The fall of 1.7% within electricity and gas supply was due mainly to a decrease of 2.3% from electricity generation and distribution, due to less demand. The temperatures in November and December 2018 were above the long-term average by 1.1 degrees Celsius and 1.9 degrees Celsius respectively.

Mining and quarrying fell by 1.7%, driven by a decrease of 1.7% in oil and gas extraction. This was due mainly to increased output during the three months to October 2018, where notable strength in the monthly index in August 2018 was due to less maintenance taking place than in August 2017. In addition, there was maintenance in November 2018, further reducing output during the most recent three months.

## 5 . What is contributing to the month on previous month increase?

Monthly total production output increased for the first time since July 2018, rising by 0.6% in January 2019, following a fall of 0.5% during December 2018.

The strength is due primarily to manufacturing increasing by 0.8% and is supported by rises from mining and quarrying of 0.8% and electricity and gas of 0.3%.

Within manufacturing, there is widespread strength this month, with 8 of the 13 subsectors rising, with two subsectors remaining flat. Of these, pharmaceuticals, which can be highly volatile, provided the largest positive contribution, with an increase of 5.7%.

There was also a rise of 1.3% from food, beverages and tobacco, following a weaker December 2018, driven by widespread growth in 8 of the 11 sub-industries. This is the strongest growth since a rise of 1.3% in December 2016.

Providing notable strength within basic metals and metal products was a 17.4% rise for weapons and ammunition, the strongest rise since March 2017, when it rose by 25.7%. However, this sub-industry can be highly erratic, with strength this month due mainly to high-value orders from large businesses.

Partially offsetting overall growth in manufacturing was a fall of 1.4% from transport equipment. Within this sector, motor vehicles, trailers and semi-trailers fell by 2.3%.

The mining and quarrying sector rose by 0.8%, led by a rise of 3.4% in other mining and quarrying, due mainly to the cumulative impact of strength from large businesses.

Totally offsetting the upward contribution from mining and quarrying is the largest downward contribution from the water and waste sector, which decreased by 0.9%. Within this sector, waste collection fell by 2.5%, due mainly to strength in December 2018, when output rose by 2.1%, caused by large businesses (with employment greater than 150 persons on average) experiencing less of a decrease in turnover than expected into December 2018.

## 6 . What is contributing to the three months on same three months a year ago decrease?

Total production output for the three months to January 2019 has decreased by 1.0%, compared with the same three months to January 2018. This was driven by a fall in output from three of the four main sectors.

The electricity and gas sector fell by 2.2%, due primarily to reduced demand following warmer than average temperatures during November and December 2018.

Providing the largest downward contribution was manufacturing, which fell by 1.5%.

The fall in manufacturing was driven by notable decreases from:

- basic metals and metal products, at 7.6%, due primarily to a fall of 6.8% within fabricated metals; this was caused by cumulative weakness from a number of large businesses, underpinned by a fall in export turnover of 18.3%
- transport equipment, at 3.8%, due mainly to the impact of shutdowns and reduced production within motor vehicles, trailers and semi-trailers, which fell by 5.3%
- machinery and equipment not elsewhere classified, at 7.6%, due mainly to export-driven strength displayed during the three months to January 2018

Partially offsetting the decline in overall manufacturing growth was a rise of 6.3% within computer, electronic and optical products. This continued the recent strength within this subsector and was driven by large businesses manufacturing instruments for measuring, testing and navigation.

The food, beverages and tobacco subsector rose by 2.1%, underpinned by strong nominal export growth of 21.9% within alcoholic beverages and tobacco products, as reported in our Monthly Business Survey. Anecdotal evidence suggests that the value of [Scotch Whiskey exports were up by 7.8% for 2018](#) compared with 2017.

Manufacturing output fell for the third consecutive period for the latest three months compared with the same three months a year ago. It is helpful to understand the longer-term trend, which shows that since growth peaked in November 2017 at 3.9%, manufacturing output has slowed, effectively supporting a similar decline in total production output (Figure 4).

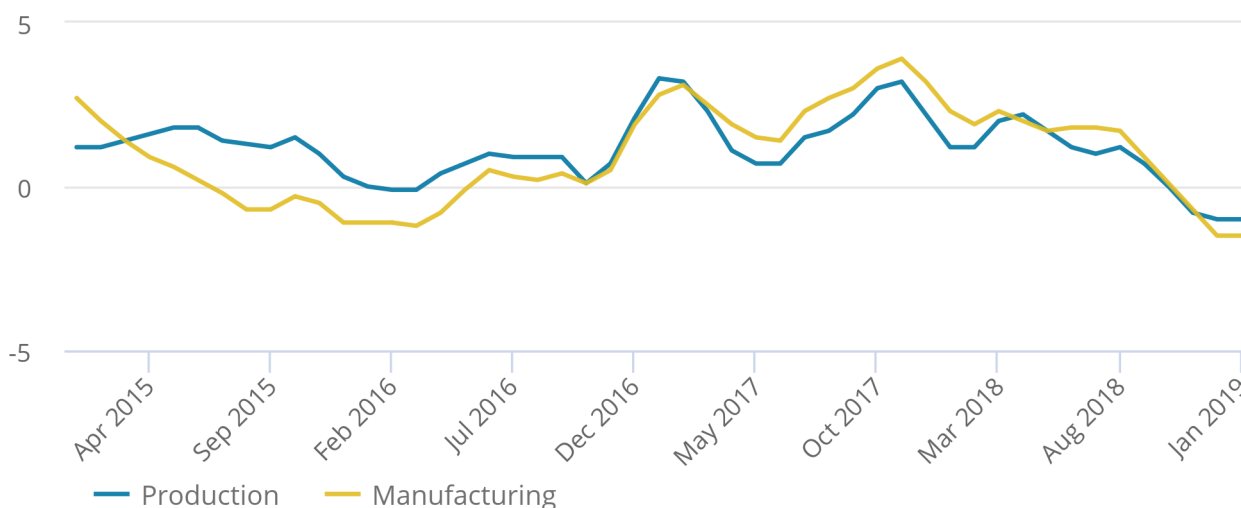


## Figure 4: Manufacturing output fell for the third consecutive period for the three months to January 2019 compared with the same three months a year ago

IoP and IoM three-months on three-months a year ago growth, seasonally adjusted, UK, January 2015 to January 2019

### Figure 4: Manufacturing output fell for the third consecutive period for the three months to January 2019 compared with the same three months a year ago

IoP and IoM three-months on three-months a year ago growth, seasonally adjusted, UK, January 2015 to January 2019



Source: Office for National Statistics - Index of Production

## 7 . Upcoming releases

An article titled, Manufacturing sector performance, UK: 2008 to 2018, will be published on 26 March 2019.

## 8 . Links to related statistics

Alongside this publication we publish the [Index of Services \(IoS\)](#) and [Construction output in Great Britain](#), allowing for an estimate of [monthly gross domestic product \(GDP\)](#), which is also published today (12 March 2019).

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 2015 equals 100 basis, while UK data are calculated on a 2016 equals 100 basis.

## 9 . Quality and methodology

The Index of Production (IoP) measures the UK output in the mining and quarrying; manufacturing; energy supply; and water supply and waste management industries. The IoP estimates are based mainly on data from the Monthly Business Survey (MBS).

In addition, from the [Index of Production, UK: November 2017](#) bulletin published in January 2018, Value Added Tax (VAT) data have been included across 64 production industries for small- and medium-sized businesses. For further information as to the use of VAT turnover within the national accounts, please see [VAT turnover data in National Accounts: background and methodology](#) (published on 19 March 2018).

On 11 October 2018, we published an article on the [future use of VAT](#) as part of the economic review, which considers the strategic collection model for administrative and survey data for short-term indicators, including the Index of Production.

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 [Monthly Business Survey \(MBS\) turnover in 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 many 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 HM Revenue and Customs (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](#).

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 BEIS for fuel industries and from 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 \(XLS, 715KB\)](#).

Revisions to the Index of Production can be made for a variety of reasons. The most common include:

- late responses to surveys and administrative sources
- forecasts being replaced by actual data
- revisions to seasonal adjustment factors, which are re-estimated every month and reviewed annually
- HMRC VAT returns replacing MBS data for small and medium-sized businesses when VAT estimates become available every quarter

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 2016 equals 100](#)
- [Index of Production and industry sectors to four decimal places](#)
- [Monthly Business Survey 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

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

## 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 2016 = 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	75.4	726.2	126.0	72.4	52.6	49.3	204.4	240.5	267.9	219.9	
	K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K24O	K24T	
2014	97.9	92.3	99.6	96.9	91.5	85.8	99.0	99.4	98.4	102.6	93.4	
2015	99.0	99.7	99.6	97.9	94.7	95.8	98.9	99.9	97.4	102.4	97.9	
2016	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
2017	101.8	99.4	102.5	98.4	103.4	97.8	102.9	98.8	106.3	102.3	98.6	
2018	102.6	102.1	103.4	99.0	101.0	101.3	112.7	100.7	107.8	102.0	99.6	
2017 Q4	102.9	96.4	104.2	99.2	102.9	93.7	105.4	99.5	109.1	103.8	97.8	
2018 Q1	103.0	100.9	103.8	101.4	100.4	101.2	112.1	99.4	110.0	101.9	100.8	
Q2	102.4	101.9	103.4	97.8	100.8	101.3	113.6	101.4	107.9	101.4	98.9	
Q3	103.0	103.6	103.7	99.4	101.6	102.5	112.4	101.1	107.6	102.7	100.4	
Q4	101.9	102.1	102.7	97.4	101.2	100.3	112.5	100.8	105.8	101.9	98.3	
2017 Nov	103.2	101.6	104.2	99.1	102.5	100.5	104.5	100.2	108.4	104.2	99.3	
Dec	102.3	84.5	104.4	101.0	102.6	76.9	106.6	99.2	109.8	103.8	94.8	
2018 Jan	103.0	103.1	104.2	97.8	100.2	103.8	110.9	99.2	110.5	102.7	99.2	
Feb	103.1	101.2	103.8	101.6	100.3	101.2	111.7	99.8	109.9	101.8	100.9	
Mar	103.0	98.4	103.4	104.7	100.7	98.6	113.5	99.2	109.5	101.2	102.3	
Apr	102.6	105.5	102.9	101.2	99.5	107.7	112.8	100.0	108.0	100.7	102.4	
May	101.9	100.2	103.2	96.0	100.7	98.6	114.6	101.0	107.9	101.2	97.0	
Jun	102.7	100.0	104.2	96.2	102.3	97.6	113.5	103.2	107.7	102.3	97.2	
Jul	103.2	103.7	103.9	100.1	101.7	102.9	114.2	101.5	107.7	102.7	100.9	
Aug	103.1	105.4	103.6	99.5	102.2	104.8	112.9	100.6	108.0	102.6	101.1	
Sep	102.6	101.8	103.5	98.7	101.0	99.7	110.3	101.1	106.9	102.8	99.1	
Oct	102.3	103.4	103.0	98.2	100.8	101.1	112.3	100.4	106.2	102.9	99.0	
Nov	101.9	101.2	102.9	97.2	101.0	99.1	113.2	101.3	106.0	101.7	97.9	
Dec	101.5	101.7	102.2	96.9	101.9	100.8	112.1	100.7	105.1	101.0	98.0	
2019 Jan	102.1	102.5	103.0	97.2	101.1	100.4	113.1	102.6	105.2	102.1	98.2	
<b>Percentage change, latest year on previous year</b>												
2014	1.5	0.6	2.9	-6.0	0.7	-1.1	6.3	0.5	3.0	5.0	-3.5	
2015	1.2	8.0	-	1.0	3.4	11.7	-0.1	0.5	-1.0	-0.2	4.8	
2016	1.0	0.3	0.4	2.1	5.6	4.3	1.2	0.1	2.6	-2.3	2.2	
2017	1.8	-0.6	2.5	-1.6	3.4	-2.2	2.9	-1.2	6.3	2.3	-1.4	
2018	0.7	2.7	0.9	0.6	-2.3	3.6	9.5	1.8	1.4	-0.3	1.0	
<b>Percentage change, latest month on same month a year ago</b>												
2016 Nov	2.5	-1.0	1.6	8.5	6.6	0.8	1.8	0.8	3.2	0.8	4.6	
Dec	4.5	0.2	4.4	8.6	4.1	2.3	4.7	2.8	5.9	4.5	4.9	
2017 Jan	3.0	3.5	2.3	5.3	5.7	4.7	4.1	0.2	5.7	0.7	4.4	
Feb	2.2	-0.2	2.6	-1.3	7.0	-1.8	4.7	-3.5	8.9	1.8	-1.0	
Mar	1.6	1.6	2.7	-7.3	7.3	0.3	0.4	-0.6	5.3	2.8	-3.7	
Apr	-0.6	-0.8	0.4	-8.3	4.2	-3.9	-2.4	-4.2	3.0	1.6	-5.0	
May	0.9	0.8	1.5	-2.8	1.9	-0.6	0.8	-2.4	4.7	1.9	-1.4	
Jun	1.8	2.6	2.3	-2.6	2.8	2.2	7.5	0.3	3.6	3.1	-0.5	
Jul	1.8	-6.8	3.2	-0.4	2.3	-10.8	-0.9	-	7.4	2.8	-3.9	
Aug	1.7	-5.3	2.7	0.5	2.0	-8.0	3.3	0.1	6.2	2.1	-2.3	
Sep	3.0	0.5	3.1	4.2	2.4	-	7.4	-1.2	7.5	2.9	2.0	
Oct	4.4	10.7	5.0	-2.1	2.9	14.2	3.1	1.9	9.6	3.7	2.1	
Nov	2.2	2.3	3.5	-4.9	1.1	1.9	3.8	-0.1	8.1	3.1	-3.1	
Dec	0.1	-14.1	1.1	2.0	1.2	-21.5	3.2	-3.8	5.6	0.9	-4.4	
2018 Jan	1.3	3.8	2.2	-3.2	-3.0	5.3	8.6	-0.6	6.2	1.0	-1.3	
Feb	2.2	2.7	2.3	4.7	-3.8	4.6	8.7	2.4	4.7	0.6	3.4	
Mar	2.6	-2.1	2.2	13.0	-4.2	-1.0	15.5	0.5	5.8	-	7.0	
Apr	1.9	7.3	1.5	4.8	-3.8	12.8	14.0	1.0	4.6	-1.1	5.6	
May	0.6	0.1	1.6	-2.7	-2.7	0.2	13.3	2.4	3.2	-0.4	-2.2	
Jun	1.0	-4.2	2.2	-2.0	-0.9	-6.4	8.6	3.7	2.8	0.6	-3.1	
Jul	1.3	2.3	1.6	1.0	-1.5	3.2	14.3	3.7	0.4	0.8	1.7	
Aug	1.3	6.0	1.3	-	-0.4	6.9	9.0	2.1	1.1	0.9	2.2	
Sep	-0.5	-0.4	-	-2.4	-1.7	-2.1	2.6	2.8	-1.9	-0.1	-2.0	
Oct	-0.8	0.2	-1.0	0.9	-2.7	-2.4	6.9	1.3	-2.7	-0.6	-0.3	
Nov	-1.3	-0.4	-1.2	-1.9	-1.5	-1.4	8.4	1.2	-2.1	-2.3	-1.5	
Dec	-0.9	20.4	-2.1	-4.1	-0.6	31.2	5.1	1.5	-4.3	-2.7	3.4	
2019 Jan	-0.9	-0.6	-1.1	-0.7	0.8	-3.3	1.9	3.4	-4.8	-0.6	-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 2016 = 100

		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
Section		B+C+D+E	B	C	D	E	06	MIG-CD	MIG-CND	MIG-CAG	MIG-IG	MIG-NRG
Latest weight		1 000.0	75.4	726.2	126.0	72.4	52.6	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>												
2016	Nov	2.3	6.5	1.5	4.9	0.7	8.8	-1.3	3.0	0.6	1.3	5.4
	Dec	1.2	-1.0	2.6	-5.0	-0.1	-0.7	2.7	2.8	3.8	1.8	-3.3
2017	Jan	-0.5	1.0	-1.4	2.1	2.0	0.6	-1.1	-3.2	-	-1.3	1.3
	Feb	-0.9	-0.8	-0.5	-4.0	0.9	-1.8	0.6	-2.3	0.9	-0.4	-2.9
	Mar	-0.5	2.1	-0.2	-4.5	0.8	3.0	-4.3	1.3	-1.3	-	-2.1
	Apr	0.3	-2.1	0.2	4.3	-1.6	-4.2	0.6	0.3	-0.2	0.7	1.5
	May	0.6	1.7	0.3	2.1	0.1	3.1	2.3	-0.3	1.2	-0.2	2.3
	Jun	0.4	4.2	0.2	-0.5	-0.2	6.0	3.2	0.8	0.2	-	1.2
	Jul	0.2	-2.8	0.4	1.0	-	-4.5	-4.4	-1.6	2.4	0.2	-1.2
	Aug	-0.1	-1.9	0.1	0.4	-0.6	-1.7	3.7	0.7	-0.4	-0.2	-0.2
	Sep	1.3	2.8	1.1	1.6	0.1	3.9	3.8	-0.2	2.1	1.2	2.2
	Oct	-	1.0	0.5	-3.8	0.8	1.7	-2.2	0.8	0.1	0.6	-1.8
	Nov	0.1	-1.6	0.2	1.8	-1.1	-2.9	-0.6	1.0	-0.8	0.7	-
	Dec	-0.9	-16.9	0.2	1.9	0.1	-23.5	2.1	-1.0	1.4	-0.3	-4.5
2018	Jan	0.7	22.1	-0.2	-3.2	-2.3	35.0	4.1	-	0.6	-1.1	4.6
	Feb	-	-1.9	-0.4	3.8	0.1	-2.5	0.7	0.6	-0.5	-0.9	1.8
	Mar	-	-2.7	-0.3	3.0	0.4	-2.6	1.6	-0.7	-0.3	-0.6	1.4
	Apr	-0.4	7.3	-0.5	-3.3	-1.2	9.2	-0.7	0.8	-1.4	-0.5	0.1
	May	-0.7	-5.1	0.3	-5.1	1.2	-8.5	1.7	1.1	-0.1	0.5	-5.3
	Jun	0.8	-0.3	0.9	0.2	1.6	-0.9	-1.0	2.1	-0.2	1.0	0.2
	Jul	0.5	3.7	-0.3	4.0	-0.6	5.3	0.6	-1.7	0.1	0.5	3.8
	Aug	-0.1	1.6	-0.2	-0.6	0.4	1.9	-1.1	-0.8	0.3	-0.2	0.2
	Sep	-0.5	-3.4	-0.1	-0.8	-1.2	-4.8	-2.3	0.4	-1.0	0.2	-2.0
	Oct	-0.3	1.6	-0.5	-0.5	-0.1	1.3	1.8	-0.7	-0.6	0.1	-0.1
	Nov	-0.3	-2.2	-0.1	-0.9	0.1	-1.9	0.8	0.9	-0.2	-1.1	-1.2
	Dec	-0.5	0.5	-0.7	-0.4	1.0	1.8	-1.0	-0.7	-0.9	-0.7	0.1
2019	Jan	0.6	0.8	0.8	0.3	-0.9	-0.5	0.9	1.9	0.1	1.0	0.2
<b>Percentage change, latest 3 months on same 3 months a year ago<sup>2</sup></b>												
2016	Nov	0.7	-2.6	0.5	1.5	6.1	-0.9	3.5	-1.4	2.7	-0.8	0.3
	Dec	2.1	-2.8	1.9	5.0	5.3	-1.3	4.2	-0.2	3.9	1.3	2.0
2017	Jan	3.3	0.9	2.8	7.5	5.5	2.6	3.5	1.3	4.9	2.0	4.7
	Feb	3.2	1.2	3.1	4.1	5.6	1.7	4.5	-0.2	6.8	2.3	2.8
	Mar	2.3	1.6	2.5	-1.2	6.7	1.0	3.1	-1.3	6.6	1.7	-0.2
	Apr	1.1	0.2	1.9	-5.7	6.1	-1.8	0.9	-2.8	5.7	2.0	-3.3
	May	0.7	0.5	1.5	-6.2	4.4	-1.4	-0.4	-2.4	4.3	2.1	-3.4
	Jun	0.7	0.9	1.4	-4.6	2.9	-0.8	1.9	-2.1	3.8	2.2	-2.3
	Jul	1.5	-1.3	2.3	-1.9	2.3	-3.4	2.4	-0.7	5.2	2.6	-2.0
	Aug	1.7	-3.3	2.7	-0.9	2.4	-5.7	3.3	0.1	5.7	2.6	-2.2
	Sep	2.2	-4.0	3.0	1.4	2.3	-6.4	3.3	-0.4	7.0	2.6	-1.4
	Oct	3.0	1.7	3.6	0.8	2.4	1.5	4.6	0.2	7.8	2.9	0.6
	Nov	3.2	4.4	3.9	-1.0	2.1	5.1	4.8	0.2	8.4	3.2	0.3
	Dec	2.2	-0.5	3.2	-1.7	1.7	-2.2	3.4	-0.8	7.8	2.5	-1.8
2018	Jan	1.2	-2.6	2.3	-2.1	-0.3	-4.7	5.2	-1.5	6.6	1.6	-3.0
	Feb	1.2	-2.5	1.9	1.1	-1.9	-3.9	6.8	-0.7	5.5	0.8	-0.8
	Mar	2.0	1.5	2.3	4.6	-3.7	3.0	10.9	0.8	5.6	0.5	3.0
	Apr	2.2	2.6	2.0	7.4	-3.9	5.4	12.7	1.3	5.0	-0.2	5.3
	May	1.7	1.7	1.7	4.9	-3.6	3.9	14.2	1.3	4.5	-0.5	3.4
	Jun	1.2	1.0	1.8	-	-2.5	1.9	11.9	2.4	3.5	-0.3	-
	Jul	1.0	-0.6	1.8	-1.2	-1.7	-1.1	12.0	3.3	2.2	0.3	-1.2
	Aug	1.2	1.3	1.7	-0.3	-0.9	1.1	10.6	3.2	1.5	0.8	0.3
	Sep	0.7	2.6	0.9	-0.5	-1.2	2.6	8.5	2.9	-0.1	0.5	0.6
	Oct	-	1.9	0.1	-0.5	-1.6	0.7	6.1	2.1	-1.2	-	-
	Nov	-0.8	-0.2	-0.7	-1.1	-2.0	-2.0	5.9	1.8	-2.3	-1.0	-1.2
	Dec	-1.0	5.9	-1.5	-1.7	-1.6	7.1	6.8	1.3	-3.0	-1.9	0.5
2019	Jan	-1.0	5.6	-1.5	-2.2	-0.5	6.8	5.1	2.0	-3.7	-1.9	0.3

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 2016 = 100

		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
Section		B+C+D+E	B	C	D	E	06	MIG-CD	MIG-CND	MIG-CAG	MIG-IG	MIG-NRG
Latest weight		1 000.0	75.4	726.2	126.0	72.4	52.6	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>												
2016	Nov	-0.1	-6.7	0.6	0.4	0.2	-9.1	1.5	0.6	-0.1	1.2	-2.1
	Dec	0.6	-7.8	1.3	2.4	0.6	-10.3	1.6	1.7	0.6	1.7	-1.5
2017	Jan	2.0	-1.0	2.2	3.0	1.5	-1.3	1.2	2.7	2.2	2.1	1.6
	Feb	1.6	0.6	2.2	-1.2	2.2	0.7	1.8	1.1	3.9	1.6	-0.5
	Mar	0.3	2.6	0.5	-3.9	3.1	2.6	-0.9	-1.6	2.8	0.1	-1.8
	Apr	-1.0	0.1	-0.6	-5.9	2.2	-1.1	-2.0	-2.7	1.2	-0.5	-4.0
	May	-0.8	1.0	-0.8	-3.1	1.0	0.1	-3.1	-1.4	-0.5	-0.4	-1.9
	Jun	0.3	1.5	0.1	0.9	-0.8	1.1	0.5	0.4	-	0.4	1.0
	Jul	1.0	2.8	0.6	3.4	-0.9	3.6	1.8	0.3	1.5	0.3	2.9
	Aug	1.0	2.0	0.7	3.1	-0.9	2.9	3.1	-0.1	2.4	0.2	2.3
	Sep	1.0	0.1	1.1	2.2	-0.5	0.4	2.1	-0.8	3.4	0.4	0.9
	Oct	1.0	-0.3	1.4	0.7	-0.3	0.3	3.5	-	2.7	0.9	0.2
	Nov	1.3	0.7	1.7	0.3	-0.1	1.3	3.0	0.6	2.4	1.8	0.4
	Dec	0.6	-4.5	1.5	-0.8	-	-6.2	1.7	1.3	1.3	1.6	-1.9
2018	Jan	0.2	-5.1	0.9	-	-1.2	-7.3	1.9	0.9	1.1	0.8	-2.0
	Feb	-0.3	-6.0	0.2	1.0	-1.9	-7.9	3.9	0.2	1.1	-0.8	-1.6
	Mar	0.1	4.6	-0.4	2.2	-2.4	8.0	6.3	-0.1	0.8	-1.9	3.1
	Apr	-	5.5	-0.9	3.2	-1.6	9.4	5.0	0.1	-0.4	-2.3	4.2
	May	-0.3	5.3	-0.9	0.5	-0.8	8.2	3.6	0.6	-1.4	-1.7	2.3
	Jun	-0.6	1.0	-0.4	-3.5	0.4	0.1	1.4	2.0	-1.9	-0.5	-1.9
	Jul	-0.3	-0.4	0.4	-4.9	1.4	-2.8	1.3	2.3	-1.3	0.8	-3.4
	Aug	0.5	1.6	0.7	-2.0	1.8	0.1	-0.1	1.7	-0.6	1.5	-0.8
	Sep	0.6	1.7	0.2	1.7	0.8	1.1	-1.0	-0.3	-0.3	1.3	1.5
	Oct	0.1	2.2	-0.3	1.4	-0.3	2.2	-2.0	-1.2	-0.7	0.7	1.4
	Nov	-0.7	-0.8	-0.7	-0.6	-1.1	-1.8	-1.4	-0.8	-1.3	-	-1.1
	Dec	-1.1	-1.4	-0.9	-2.0	-0.4	-2.1	0.1	-0.3	-1.6	-0.8	-2.1
2019	Jan	-0.8	-1.7	-0.7	-1.7	-	-1.7	0.9	0.8	-1.5	-1.1	-1.7

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

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

continued

Seasonally adjusted 2016 = 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	111.5	29.8	53.6	9.9	48.6	55.1
	K22B	K22P	K22T	K22X	K22Z	K239
2014	99.4	103.6	101.0	98.9	100.4	97.0
2015	99.3	102.7	101.7	101.4	105.9	97.8
2016	100.0	100.0	100.0	100.0	100.0	100.0
2017	100.9	102.8	101.9	101.1	102.7	94.6
2018	102.9	101.2	103.4	97.2	103.0	97.7
2017 Q4	101.3	103.7	102.8	99.4	101.4	97.0
2018 Q1	101.6	99.3	102.4	93.4	102.3	97.0
Q2	102.8	102.0	102.7	96.2	101.6	100.8
Q3	103.8	102.6	104.3	100.3	103.8	96.1
Q4	103.3	100.8	104.4	98.9	104.4	97.0
2017 Nov	101.9	104.2	103.2	98.2	102.6	97.9
Dec	100.8	104.2	103.2	98.1	100.5	96.0
2018 Jan	101.2	100.8	102.7	94.2	102.0	97.2
Feb	101.6	97.4	102.4	91.0	103.6	98.3
Mar	102.0	99.7	102.0	95.1	101.2	95.6
Apr	102.2	100.3	101.3	96.7	100.4	97.9
May	102.9	103.4	103.3	94.6	101.5	99.1
Jun	103.1	102.4	103.6	97.3	103.0	105.2
Jul	104.0	104.5	105.9	97.0	104.1	94.5
Aug	104.0	102.4	103.1	102.1	102.3	95.6
Sep	103.4	100.9	103.9	101.8	105.1	98.2
Oct	103.9	100.7	102.9	99.2	104.0	96.6
Nov	103.0	100.7	106.0	98.9	103.9	99.3
Dec	103.0	101.1	104.3	98.7	105.4	95.2
2019 Jan	104.4	102.1	104.3	99.1	105.4	100.6
<b>Percentage change, latest year on previous year</b>						
2014	4.2	-2.6	1.1	-8.9	2.8	-4.8
2015	-0.1	-0.9	0.8	2.5	5.4	0.9
2016	0.7	-2.6	-1.7	-1.4	-5.5	2.2
2017	0.9	2.8	1.9	1.1	2.7	-5.4
2018	1.9	-1.5	1.6	-3.9	0.4	3.3
<b>Percentage change, latest month on same month a year ago</b>						
2016 Nov	-0.4	-4.1	-1.8	-4.4	-6.1	10.0
Dec	0.9	-2.8	1.8	-4.0	-1.6	15.9
2017 Jan	0.8	-6.8	2.6	-2.0	1.5	4.0
Feb	-	1.9	2.5	1.2	0.1	-10.5
Mar	3.6	6.2	4.3	13.6	4.6	-10.0
Apr	1.9	-2.4	1.9	15.9	4.8	-15.5
May	-1.3	4.1	1.1	4.1	3.3	-4.5
Jun	0.7	4.2	1.2	2.8	6.5	-0.6
Jul	1.4	4.5	0.8	-4.9	2.4	-1.3
Aug	1.0	3.9	0.6	-0.1	4.5	-1.1
Sep	-0.9	3.3	1.9	0.6	2.3	-3.8
Oct	1.8	3.7	2.4	-1.7	0.6	3.6
Nov	2.4	6.3	2.1	-8.3	2.7	-6.3
Dec	-	5.5	0.9	-3.9	-1.2	-15.1
2018 Jan	0.7	-0.2	-0.1	-7.9	-1.7	-0.2
Feb	0.7	-4.9	1.9	-11.0	3.1	9.7
Mar	0.6	-4.7	-0.7	-8.1	-1.5	4.5
Apr	0.3	-1.4	-0.5	-7.0	-3.7	5.4
May	3.0	1.7	1.5	-10.1	-0.9	3.4
Jun	2.1	0.8	2.4	-6.8	-0.5	9.1
Jul	3.0	1.5	5.5	2.0	1.6	3.1
Aug	3.3	-0.6	2.2	5.2	-1.4	1.6
Sep	3.5	-2.1	1.9	-0.3	1.0	4.0
Oct	2.8	-1.8	0.9	-2.6	2.8	-0.6
Nov	1.0	-3.4	2.7	0.8	1.2	1.4
Dec	2.2	-3.0	1.1	0.6	4.9	-0.9
2019 Jan	3.1	1.2	1.5	5.1	3.3	3.6

<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 2016 = 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	59.7	84.4	33.6	23.5	44.9	107.6	64.0
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z
2014	101.6	102.0	102.3	104.0	115.6	90.7	95.6
2015	98.7	102.3	100.2	104.3	100.7	96.0	94.8
2016	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2017	100.1	101.7	104.5	104.7	109.6	103.8	107.0
2018	99.8	101.5	117.4	96.5	111.5	103.6	106.5
2017 Q4	100.9	106.4	108.4	105.4	114.9	105.3	108.0
2018 Q1	98.4	104.6	116.6	98.9	116.4	105.6	106.7
Q2	99.6	100.5	118.6	96.7	111.9	103.4	106.7
Q3	100.8	102.0	117.2	95.5	108.9	104.0	106.9
Q4	100.6	98.9	117.1	94.9	108.7	101.3	105.8
2017 Nov	102.4	105.0	107.5	105.0	115.3	103.8	108.0
Dec	99.6	108.8	109.3	105.8	116.0	105.0	109.4
2018 Jan	99.6	103.8	114.9	101.4	119.3	106.6	107.1
Feb	97.5	105.8	116.5	98.7	113.3	106.7	105.5
Mar	98.1	104.4	118.3	96.6	116.6	103.7	107.4
Apr	97.7	101.5	117.7	97.7	114.0	103.1	106.5
May	99.0	98.9	120.2	98.1	110.8	103.8	106.2
Jun	102.0	101.1	118.0	94.2	110.9	103.2	107.6
Jul	101.5	101.7	119.3	95.4	109.4	103.5	107.2
Aug	100.4	102.3	118.3	95.5	109.3	104.6	106.9
Sep	100.5	101.9	114.0	95.5	108.2	104.0	106.6
Oct	100.5	101.7	117.2	96.1	109.5	100.9	106.1
Nov	100.8	98.0	117.5	94.5	108.4	101.2	107.1
Dec	100.4	97.0	116.6	94.1	108.1	101.7	104.1
2019 Jan	101.9	98.5	118.7	95.4	107.6	100.3	103.6
<b>Percentage change, latest year on previous year</b>							
2014	13.1	1.5	3.9	-3.2	4.2	3.4	5.6
2015	-2.8	0.3	-2.1	0.3	-12.8	5.8	-0.8
2016	1.3	-2.3	-0.2	-4.1	-0.7	4.2	5.5
2017	0.1	1.7	4.5	4.7	9.6	3.8	7.0
2018	-0.3	-0.2	12.4	-7.9	1.7	-0.2	-0.5
<b>Percentage change, latest month on same month a year ago</b>							
2016 Nov	4.0	-0.3	2.8	3.0	6.0	3.3	4.0
Dec	2.6	7.0	7.2	2.1	6.7	4.2	9.0
2017 Jan	0.4	-3.1	3.7	1.8	7.6	6.1	7.6
Feb	-0.5	-2.7	5.1	3.8	15.3	8.7	10.5
Mar	1.6	-0.8	0.2	1.3	6.2	3.6	9.4
Apr	-1.9	-0.4	-2.9	4.4	2.7	2.1	4.7
May	0.6	0.3	1.7	5.3	9.9	0.8	5.3
Jun	-0.9	3.3	10.9	8.0	6.9	-2.2	5.0
Jul	0.6	-0.2	0.7	11.5	9.7	7.3	7.4
Aug	0.9	1.4	5.6	5.6	8.3	1.6	8.4
Sep	0.1	2.9	12.9	8.3	12.5	3.2	7.7
Oct	0.2	9.8	6.5	4.6	14.4	8.0	4.9
Nov	1.2	7.0	6.9	0.1	12.5	3.3	8.1
Dec	-0.7	3.5	2.4	2.6	9.9	3.4	5.4
2018 Jan	-0.6	4.4	11.9	-1.7	13.5	2.7	1.9
Feb	-1.9	7.3	13.8	-6.5	2.0	3.3	-1.5
Mar	-2.2	5.5	21.8	-3.9	9.7	1.6	0.9
Apr	-2.6	2.7	19.8	-6.7	9.3	-1.0	3.6
May	-1.6	-1.2	17.6	-4.5	2.5	0.8	2.2
Jun	3.6	-1.1	9.2	-11.8	6.5	3.9	-0.1
Jul	2.3	1.9	18.3	-11.6	0.5	-3.0	-1.0
Aug	0.5	0.7	12.4	-6.4	-0.4	1.1	-1.0
Sep	-	-0.1	2.1	-10.7	-4.8	0.3	-3.8
Oct	-0.2	-3.5	8.1	-8.8	-3.5	-5.9	-0.4
Nov	-1.5	-6.6	9.3	-10.0	-6.0	-2.5	-0.8
Dec	0.8	-10.8	6.6	-11.1	-6.9	-3.1	-4.9
2019 Jan	2.3	-5.1	3.3	-5.9	-9.7	-5.8	-3.3

<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.

# IOP5 Output of the Production Industries

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

continued

Seasonally adjusted 2016 = 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	111.5	29.8	53.6	9.9	48.6	55.1
	K22B	K22P	K22T	K22X	K22Z	K239
<b>Percentage change, latest month on previous month</b>						
2016 Nov	0.2	-0.8	1.4	3.4	-0.6	11.4
Dec	1.3	0.7	1.2	-4.6	1.8	8.2
2017 Jan	-0.3	2.3	0.6	0.2	2.1	-13.9
Feb	0.3	1.4	-2.2	-0.1	-3.1	-8.0
Mar	0.5	2.1	2.1	1.1	2.3	2.1
Apr	0.5	-2.7	-0.9	0.6	1.4	1.6
May	-1.9	-	-0.1	1.1	-1.7	3.2
Jun	1.0	-0.1	-0.6	-0.7	1.0	0.7
Jul	0.1	1.3	-0.8	-9.0	-1.0	-5.0
Aug	-0.3	0.1	0.5	2.1	1.3	2.7
Sep	-0.7	-	1.1	5.2	0.3	0.4
Oct	1.1	-0.5	0.1	-0.3	-2.8	2.9
Nov	0.8	1.7	1.2	-3.6	1.5	0.8
Dec	-1.1	-	-	-	-2.1	-2.0
2018 Jan	0.4	-3.3	-0.5	-4.0	1.5	1.2
Feb	0.4	-3.4	-0.3	-3.5	1.6	1.2
Mar	0.4	2.4	-0.5	4.5	-2.3	-2.7
Apr	0.3	0.6	-0.6	1.8	-0.8	2.4
May	0.7	3.2	1.9	-2.3	1.1	1.2
Jun	0.2	-1.0	0.3	2.9	1.4	6.2
Jul	0.9	2.1	2.2	-0.4	1.1	-10.2
Aug	-	-2.0	-2.6	5.3	-1.7	1.2
Sep	-0.6	-1.5	0.8	-0.3	2.7	2.7
Oct	0.4	-0.2	-1.0	-2.6	-1.0	-1.7
Nov	-0.9	-	3.0	-0.2	-0.1	2.8
Dec	0.1	0.5	-1.6	-0.2	1.4	-4.2
2019 Jan	1.3	0.9	-	0.4	-	5.7
<b>Percentage change, latest 3 months on same 3 months a year ago</b>						
2016 Nov	-0.2	-4.1	-1.6	-5.0	-4.5	0.6
Dec	-0.1	-4.3	-0.5	-4.9	-4.1	6.1
2017 Jan	0.5	-4.6	0.9	-3.5	-2.1	10.1
Feb	0.6	-2.7	2.3	-1.6	-	3.0
Mar	1.4	0.2	3.1	3.9	2.1	-5.7
Apr	1.8	1.8	2.9	9.9	3.2	-12.1
May	1.4	2.5	2.4	10.9	4.2	-10.2
Jun	0.4	1.8	1.4	7.3	4.9	-7.2
Jul	0.3	4.3	1.0	0.7	4.0	-2.1
Aug	1.0	4.2	0.9	-0.7	4.4	-1.0
Sep	0.5	3.9	1.1	-1.5	3.0	-2.1
Oct	0.6	3.6	1.6	-0.4	2.5	-0.5
Nov	1.1	4.4	2.1	-3.2	1.9	-2.3
Dec	1.4	5.2	1.8	-4.7	0.7	-6.5
2018 Jan	1.0	3.8	1.0	-6.7	-0.1	-7.5
Feb	0.4	0.1	0.9	-7.6	-	-2.8
Mar	0.7	-3.3	0.3	-9.0	-0.1	4.5
Apr	0.5	-3.7	0.2	-8.7	-0.8	6.5
May	1.3	-1.5	0.1	-8.4	-2.0	4.4
Jun	1.8	0.3	1.1	-7.9	-1.7	6.0
Jul	2.7	1.3	3.2	-5.2	0.1	5.2
Aug	2.8	0.6	3.4	-	-0.1	4.7
Sep	3.2	-0.4	3.2	2.3	0.4	2.9
Oct	3.2	-1.5	1.7	0.7	0.8	1.6
Nov	2.4	-2.4	1.8	-0.7	1.7	1.6
Dec	2.0	-2.7	1.5	-0.4	3.0	-
2019 Jan	2.1	-1.8	1.8	2.1	3.1	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.

# IOP5 Output of the Production Industries

continued

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

Seasonally adjusted 2016 = 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	59.7	84.4	33.6	23.5	44.9	107.6	64.0
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z
<b>Percentage change, latest month on previous month†</b>							
2016 Nov	0.6	2.3	-1.2	4.1	3.4	1.2	-1.7
Dec	-0.9	7.1	6.1	-1.7	3.0	1.0	3.9
2017 Jan	-	-5.4	-3.8	-	-0.5	2.2	1.3
Feb	-0.9	-0.8	-0.3	2.4	5.7	-0.5	2.0
Mar	1.0	0.4	-5.1	-4.8	-4.3	-1.2	-0.7
Apr	-0.1	-0.1	1.1	4.2	-1.9	2.1	-3.4
May	0.4	1.2	4.1	-1.9	3.7	-1.1	1.1
Jun	-2.1	2.2	5.7	4.0	-3.7	-3.5	3.6
Jul	0.7	-2.4	-6.7	1.0	4.5	7.4	0.6
Aug	0.6	1.8	4.5	-5.5	0.8	-3.1	-0.3
Sep	0.7	0.4	6.0	4.8	3.6	0.3	2.6
Oct	0.2	3.3	-2.9	-1.4	-0.2	3.4	-3.8
Nov	1.7	-0.4	-0.8	-0.3	1.7	-3.2	1.3
Dec	-2.7	3.7	1.7	0.8	0.6	1.1	1.3
2018 Jan	-	-4.6	5.1	-4.2	2.8	1.5	-2.1
Feb	-2.2	1.9	1.4	-2.6	-5.0	0.1	-1.5
Mar	0.7	-1.3	1.6	-2.2	2.8	-2.8	1.7
Apr	-0.5	-2.8	-0.5	1.1	-2.2	-0.6	-0.8
May	1.3	-2.6	2.1	0.4	-2.8	0.7	-0.3
Jun	3.1	2.3	-1.8	-3.9	0.1	-0.6	1.3
Jul	-0.5	0.6	1.1	1.2	-1.4	0.3	-0.3
Aug	-1.1	0.6	-0.8	0.1	-0.1	1.0	-0.3
Sep	0.1	-0.4	-3.7	-	-1.0	-0.5	-0.3
Oct	-	-0.2	2.8	0.6	1.2	-3.0	-0.4
Nov	0.3	-3.6	0.2	-1.6	-1.0	0.2	0.9
Dec	-0.4	-1.0	-0.8	-0.4	-0.3	0.6	-2.8
2019 Jan	1.5	1.5	1.8	1.4	-0.4	-1.4	-0.5
<b>Percentage change, latest 3 months on same 3 months a year ago†</b>							
2016 Nov	3.0	-3.0	1.8	-2.4	2.7	2.4	7.9
Dec	3.0	0.7	4.5	0.5	4.8	2.7	8.3
2017 Jan	2.3	1.1	4.6	2.3	6.8	4.5	6.8
Feb	0.8	0.3	5.3	2.6	9.8	6.3	9.0
Mar	0.5	-2.2	3.0	2.3	9.6	6.1	9.1
Apr	-0.3	-1.3	0.8	3.2	8.0	4.8	8.2
May	0.1	-0.3	-0.3	3.7	6.2	2.2	6.4
Jun	-0.7	1.1	3.1	5.9	6.5	0.3	5.0
Jul	0.1	1.1	4.4	8.2	8.8	1.9	5.9
Aug	0.2	1.5	5.7	8.3	8.3	2.2	6.9
Sep	0.5	1.4	6.4	8.4	10.2	4.0	7.8
Oct	0.4	4.7	8.3	6.1	11.7	4.3	7.0
Nov	0.5	6.5	8.7	4.2	13.1	4.8	6.9
Dec	0.3	6.7	5.2	2.4	12.2	4.9	6.1
2018 Jan	-	4.9	7.0	0.4	12.0	3.1	5.1
Feb	-1.1	5.0	9.3	-1.9	8.4	3.2	1.9
Mar	-1.6	5.7	15.8	-4.0	8.3	2.6	0.4
Apr	-2.2	5.2	18.4	-5.7	6.9	1.3	0.9
May	-2.2	2.3	19.7	-5.1	7.1	0.5	2.2
Jun	-0.2	0.1	15.4	-7.7	6.1	1.2	1.9
Jul	1.4	-0.1	14.9	-9.4	3.1	0.5	0.3
Aug	2.1	0.5	13.2	-10.0	2.1	0.6	-0.7
Sep	0.9	0.8	10.7	-9.6	-1.6	-0.6	-2.0
Oct	0.1	-1.0	7.5	-8.7	-2.9	-1.6	-1.8
Nov	-0.6	-3.5	6.5	-9.8	-4.8	-2.8	-1.7
Dec	-0.3	-7.0	8.0	-10.0	-5.4	-3.9	-2.0
2019 Jan	0.5	-7.6	6.3	-9.1	-7.6	-3.8	-3.0

<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>

Seasonally adjusted 2016 = 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	111.5	29.8	53.6	9.9	48.6	55.1
	K22B	K22P	K22T	K22X	K22Z	K239

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

2016	Nov	-0.1	0.5	0.4	4.5	1.9	4.0
	Dec	-0.3	-0.6	1.1	4.7	0.3	8.8
2017	Jan	0.3	-	2.1	3.1	1.3	9.7
	Feb	0.8	1.9	1.6	-1.8	1.3	1.2
	Mar	1.0	4.2	1.1	-1.5	1.7	-10.6
	Apr	1.1	3.6	-0.3	-0.6	0.7	-13.0
	May	0.3	1.9	0.2	1.9	1.1	-6.6
	Jun	-	-1.0	-0.5	1.8	1.0	2.5
	Jul	-0.7	-0.8	-0.6	-1.6	0.2	3.7
	Aug	-0.2	-0.1	-1.3	-5.1	-	0.7
	Sep	-0.4	1.3	-0.5	-6.2	-	-1.8
	Oct	-0.1	0.7	0.5	-1.2	0.2	0.6
	Nov	0.1	0.7	1.6	1.9	-0.6	2.6
	Dec	0.7	0.6	1.8	1.3	-1.9	3.9
2018	Jan	0.7	0.2	1.4	-3.5	-1.2	1.9
	Feb	0.2	-2.4	0.4	-6.2	-0.5	0.6
	Mar	0.3	-4.2	-0.4	-6.0	0.9	-
	Apr	0.6	-3.9	-1.1	-2.7	-	0.2
	May	1.2	0.3	-0.6	1.1	-1.0	0.4
	Jun	1.2	2.8	0.3	3.0	-0.7	3.9
	Jul	1.4	4.4	2.3	2.1	1.1	2.4
	Aug	1.3	1.9	2.0	3.5	2.0	1.0
	Sep	1.0	0.5	1.5	4.2	2.2	-4.6
	Oct	0.4	-2.0	-0.9	4.9	0.9	-2.8
	Nov	-0.3	-2.3	0.1	1.2	1.1	-0.4
	Dec	-0.5	-1.7	0.1	-1.3	0.6	0.9
2019	Jan	-0.3	-	1.5	-2.1	1.1	1.6

<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 2016 = 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	59.7	84.4	33.6	23.5	44.9	107.6	64.0	
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z	
<b>Percentage change, latest 3 months on previous 3 months</b>								
2016	Nov	1.8	-2.0	1.4	4.1	1.6	-0.8	0.5
	Dec	1.4	-	3.5	5.6	1.9	-0.1	0.7
2017	Jan	0.6	2.5	3.2	5.0	3.9	1.4	1.5
	Feb	-0.7	3.4	3.5	2.4	6.3	2.7	3.8
	Mar	-0.7	-0.8	-2.3	0.1	4.9	2.6	4.4
	Apr	-0.6	-2.0	-4.0	-0.1	2.7	1.2	2.5
	May	0.5	-1.7	-4.6	-1.3	-1.0	0.3	-0.9
	Jun	-0.2	1.4	2.1	1.6	-1.8	-0.8	-1.3
	Jul	-0.6	1.9	4.5	2.2	-0.2	-0.1	1.1
	Aug	-1.2	1.9	5.6	2.9	1.3	0.1	3.4
	Sep	0.1	0.7	3.0	0.9	5.0	2.4	4.0
	Oct	0.9	2.3	4.6	-1.0	4.9	1.7	1.7
	Nov	2.1	2.9	4.3	0.1	6.1	1.7	0.4
	Dec	1.1	5.2	2.4	-0.2	3.8	0.7	-1.0
2018	Jan	0.2	2.8	2.0	-0.7	4.1	0.3	-0.3
	Feb	-2.3	1.9	4.0	-3.6	1.8	1.1	-1.0
	Mar	-2.5	-1.6	7.5	-6.2	1.3	0.3	-1.2
	Apr	-2.8	-1.8	6.2	-6.2	-1.9	-0.6	-1.6
	May	-0.7	-4.3	4.5	-4.5	-2.1	-2.4	-0.6
	Jun	1.2	-4.0	1.8	-2.3	-3.9	-2.1	0.1
	Jul	3.1	-3.2	1.4	-1.8	-3.7	-0.9	0.5
	Aug	3.1	0.1	-0.2	-2.4	-3.4	0.2	0.5
	Sep	1.2	1.5	-1.2	-1.2	-2.6	0.6	0.1
	Oct	-0.4	1.4	-2.2	-0.2	-1.2	-0.3	-0.4
	Nov	-0.7	-1.2	-1.9	0.3	-1.1	-1.7	-0.6
	Dec	-0.2	-3.0	-0.1	-0.6	-0.3	-2.7	-1.0
2019	Jan	0.6	-4.0	0.9	-1.1	-0.9	-2.0	-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.

- [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](#)

# IOP5R

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

Seasonally adjusted 2016 = 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	75.4	726.2	126.0	72.4	52.6	49.3	204.4	240.5	267.9	219.9
	K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K24O	K24T
2014	-	-	-	-	-	-	-	-	-	-	-
2015	-	-	-	-	-	-	-	-	-	-	-
2016	-	-	-	-	-	-	-	-	-	-	-
2017	-	-	-	-	-	-	-	-	-	-	-
2018	-	-	-	-	-	-	-	-	-	-	-
2017 Q4	-	-	-	-	-	-	-	-	-	-	-
2018 Q1	-	-	-	-	-	-	-	-	-	-	-
Q2	-	-	-	-	-	-	-	-	-	-	-
Q3	-	-	-	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-	-	-	-
2017 Oct	-	-	-	-	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-	-	-	-	-
2018 Jan	-	-	-	-	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-	-	-	-	-
Apr	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-	-	-	-	-
<b>Percentage change, latest year on previous year</b>											
2014	-	-	-	-	-	-	-	-	-	-	-
2015	-	-	-	-	-	-	-	-	-	-	-
2016	-	-	-	-	-	-	-	-	-	-	-
2017	-	-	-	-	-	-	-	-	-	-	-
2018	-	-	-	-	-	-	-	-	-	-	-
<b>Percentage change, latest month on same month a year ago</b>											
2016 Oct	-	-	-	-	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-	-	-	-	-
2017 Jan	-	-	-	-	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-	-	-	-	-
Apr	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-	-	-	-	-
2018 Jan	-	-	-	-	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-	-	-	-	-
Apr	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-	-	-	-	-

<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 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	75.4	726.2	126.0	72.4	52.6	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>											
2016	Oct	-	-	-	-	-	-	-	-	-	-
	Nov	-	-	-	-	-	-	-	-	-	-
	Dec	-	-	-	-	-	-	-	-	-	-
2017	Jan	-	-	-	-	-	-	-	-	-	-
	Feb	-	-	-	-	-	-	-	-	-	-
	Mar	-	-	-	-	-	-	-	-	-	-
	Apr	-	-	-	-	-	-	-	-	-	-
	May	-	-	-	-	-	-	-	-	-	-
	Jun	-	-	-	-	-	-	-	-	-	-
	Jul	-	-	-	-	-	-	-	-	-	-
	Aug	-	-	-	-	-	-	-	-	-	-
	Sep	-	-	-	-	-	-	-	-	-	-
	Oct	-	-	-	-	-	-	-	-	-	-
	Nov	-	-	-	-	-	-	-	-	-	-
	Dec	-	-	-	-	-	-	-	-	-	-
2018	Jan	-	-	-	-	-	-	-	-	-	-
	Feb	-	-	-	-	-	-	-	-	-	-
	Mar	-	-	-	-	-	-	-	-	-	-
	Apr	-	-	-	-	-	-	-	-	-	-
	May	-	-	-	-	-	-	-	-	-	-
	Jun	-	-	-	-	-	-	-	-	-	-
	Jul	-	-	-	-	-	-	-	-	-	-
	Aug	-	-	-	-	-	-	-	-	-	-
	Sep	-	-	-	-	-	-	-	-	-	-
	Oct	-	-	-	-	-	-	-	-	-	-
	Nov	-	-	-	-	-	-	-	-	-	-
	Dec	-	-	-	-	-	-	-	-	-	-
<b>Percentage change, latest 3 months on same 3 months a year ago</b>											
2016	Oct	-	-	-	-	-	-	-	-	-	-
	Nov	-	-	-	-	-	-	-	-	-	-
	Dec	-	-	-	-	-	-	-	-	-	-
2017	Jan	-	-	-	-	-	-	-	-	-	-
	Feb	-	-	-	-	-	-	-	-	-	-
	Mar	-	-	-	-	-	-	-	-	-	-
	Apr	-	-	-	-	-	-	-	-	-	-
	May	-	-	-	-	-	-	-	-	-	-
	Jun	-	-	-	-	-	-	-	-	-	-
	Jul	-	-	-	-	-	-	-	-	-	-
	Aug	-	-	-	-	-	-	-	-	-	-
	Sep	-	-	-	-	-	-	-	-	-	-
	Oct	-	-	-	-	-	-	-	-	-	-
	Nov	-	-	-	-	-	-	-	-	-	-
	Dec	-	-	-	-	-	-	-	-	-	-
2018	Jan	-	-	-	-	-	-	-	-	-	-
	Feb	-	-	-	-	-	-	-	-	-	-
	Mar	-	-	-	-	-	-	-	-	-	-
	Apr	-	-	-	-	-	-	-	-	-	-
	May	-	-	-	-	-	-	-	-	-	-
	Jun	-	-	-	-	-	-	-	-	-	-
	Jul	-	-	-	-	-	-	-	-	-	-
	Aug	-	-	-	-	-	-	-	-	-	-
	Sep	-	-	-	-	-	-	-	-	-	-
	Oct	-	-	-	-	-	-	-	-	-	-
	Nov	-	-	-	-	-	-	-	-	-	-
	Dec	-	-	-	-	-	-	-	-	-	-

<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 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	75.4	726.2	126.0	72.4	52.6	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>											
2016	Oct	-	-	-	-	-	-	-	-	-	-
	Nov	-	-	-	-	-	-	-	-	-	-
	Dec	-	-	-	-	-	-	-	-	-	-
2017	Jan	-	-	-	-	-	-	-	-	-	-
	Feb	-	-	-	-	-	-	-	-	-	-
	Mar	-	-	-	-	-	-	-	-	-	-
	Apr	-	-	-	-	-	-	-	-	-	-
	May	-	-	-	-	-	-	-	-	-	-
	Jun	-	-	-	-	-	-	-	-	-	-
	Jul	-	-	-	-	-	-	-	-	-	-
	Aug	-	-	-	-	-	-	-	-	-	-
	Sep	-	-	-	-	-	-	-	-	-	-
	Oct	-	-	-	-	-	-	-	-	-	-
	Nov	-	-	-	-	-	-	-	-	-	-
	Dec	-	-	-	-	-	-	-	-	-	-
2018	Jan	-	-	-	-	-	-	-	-	-	-
	Feb	-	-	-	-	-	-	-	-	-	-
	Mar	-	-	-	-	-	-	-	-	-	-
	Apr	-	-	-	-	-	-	-	-	-	-
	May	-	-	-	-	-	-	-	-	-	-
	Jun	-	-	-	-	-	-	-	-	-	-
	Jul	-	-	-	-	-	-	-	-	-	-
	Aug	-	-	-	-	-	-	-	-	-	-
	Sep	-	-	-	-	-	-	-	-	-	-
	Oct	-	-	-	-	-	-	-	-	-	-
	Nov	-	-	-	-	-	-	-	-	-	-
	Dec	-	-	-	-	-	-	-	-	-	-

<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	111.5	29.8	53.6	9.9	48.6	55.1
	K22B	K22P	K22T	K22X	K22Z	K239
2014	-	-	-	-	-	-
2015	-	-	-	-	-	-
2016	-	-	-	-	-	-
2017	-	-	-	-	-	-
2018	-	-	-	-	-	-
2017 Q4	-	-	-	-	-	-
2018 Q1	-	-	-	-	-	-
Q2	-	-	-	-	-	-
Q3	-	-	-	-	-	-
Q4	-	-	-	-	-	-
2017 Oct	-	-	-	-	-	-
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
2018 Jan	-	-	-	-	-	-
Feb	-	-	-	-	-	-
Mar	-	-	-	-	-	-
Apr	-	-	-	-	-	-
May	-	-	-	-	-	-
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-
Oct	-	-	-	-	-	-
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
<b>Percentage change, latest year on previous year</b>						
2014	-	-	-	-	-	-
2015	-	-	-	-	-	-
2016	-	-	-	-	-	-
2017	-	-	-	-	-	-
2018	-	-	-	-	-	-
<b>Percentage change, latest month on same month a year ago</b>						
2016 Oct	-	-	-	-	-	-
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
2017 Jan	-	-	-	-	-	-
Feb	-	-	-	-	-	-
Mar	-	-	-	-	-	-
Apr	-	-	-	-	-	-
May	-	-	-	-	-	-
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-
Oct	-	-	-	-	-	-
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
2018 Jan	-	-	-	-	-	-
Feb	-	-	-	-	-	-
Mar	-	-	-	-	-	-
Apr	-	-	-	-	-	-
May	-	-	-	-	-	-
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-
Oct	-	-	-	-	-	-
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-

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

# IOP5R

continued

## Output of the Production Industries

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

Seasonally adjusted 2016 = 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	59.7	84.4	33.6	23.5	44.9	107.6	64.0
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z
2014	-	-	-	-	-	-	-
2015	-	-	-	-	-	-	-
2016	-	-	-	-	-	-	-
2017	-	-	-	-	-	-	-
2018	-	-	-	-	-	-	-
2017 Q4	-	-	-	-	-	-	-
2018 Q1	-	-	-	-	-	-	-
Q2	-	-	-	-	-	-	-
Q3	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-
2017 Oct	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-
2018 Jan	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-
Apr	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-

### Percentage change, latest year on previous year

2014	-	-	-	-	-	-	-
2015	-	-	-	-	-	-	-
2016	-	-	-	-	-	-	-
2017	-	-	-	-	-	-	-
2018	-	-	-	-	-	-	-

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

2016 Oct	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-
2017 Jan	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-
Apr	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-
2018 Jan	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-
Apr	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-

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# IOP5R

continued

## Output of the Production Industries

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

Seasonally adjusted 2016 = 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	111.5	29.8	53.6	9.9	48.6	55.1
	K22B	K22P	K22T	K22X	K22Z	K239

### Percentage change, latest month on previous month

2016	Oct	-	-	-	-	-
	Nov	-	-	-	-	-
	Dec	-	-	-	-	-
2017	Jan	-	-	-	-	-
	Feb	-	-	-	-	-
	Mar	-	-	-	-	-
	Apr	-	-	-	-	-
	May	-	-	-	-	-
	Jun	-	-	-	-	-
	Jul	-	-	-	-	-
	Aug	-	-	-	-	-
	Sep	-	-	-	-	-
	Oct	-	-	-	-	-
	Nov	-	-	-	-	-
	Dec	-	-	-	-	-
2018	Jan	-	-	-	-	-
	Feb	-	-	-	-	-
	Mar	-	-	-	-	-
	Apr	-	-	-	-	-
	May	-	-	-	-	-
	Jun	-	-	-	-	-
	Jul	-	-	-	-	-
	Aug	-	-	-	-	-
	Sep	-	-	-	-	-
	Oct	-	-	-	-	-
	Nov	-	-	-	-	-
	Dec	-	-	-	-	-

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

2016	Oct	-	-	-	-	-
	Nov	-	-	-	-	-
	Dec	-	-	-	-	-
2017	Jan	-	-	-	-	-
	Feb	-	-	-	-	-
	Mar	-	-	-	-	-
	Apr	-	-	-	-	-
	May	-	-	-	-	-
	Jun	-	-	-	-	-
	Jul	-	-	-	-	-
	Aug	-	-	-	-	-
	Sep	-	-	-	-	-
	Oct	-	-	-	-	-
	Nov	-	-	-	-	-
	Dec	-	-	-	-	-
2018	Jan	-	-	-	-	-
	Feb	-	-	-	-	-
	Mar	-	-	-	-	-
	Apr	-	-	-	-	-
	May	-	-	-	-	-
	Jun	-	-	-	-	-
	Jul	-	-	-	-	-
	Aug	-	-	-	-	-
	Sep	-	-	-	-	-
	Oct	-	-	-	-	-
	Nov	-	-	-	-	-
	Dec	-	-	-	-	-

<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	59.7	84.4	33.6	23.5	44.9	107.6	64.0
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z

**Percentage change, latest month on previous month†**

2016	Oct	-	-	-	-	-	-
	Nov	-	-	-	-	-	-
	Dec	-	-	-	-	-	-
2017	Jan	-	-	-	-	-	-
	Feb	-	-	-	-	-	-
	Mar	-	-	-	-	-	-
	Apr	-	-	-	-	-	-
	May	-	-	-	-	-	-
	Jun	-	-	-	-	-	-
	Jul	-	-	-	-	-	-
	Aug	-	-	-	-	-	-
	Sep	-	-	-	-	-	-
	Oct	-	-	-	-	-	-
	Nov	-	-	-	-	-	-
	Dec	-	-	-	-	-	-
2018	Jan	-	-	-	-	-	-
	Feb	-	-	-	-	-	-
	Mar	-	-	-	-	-	-
	Apr	-	-	-	-	-	-
	May	-	-	-	-	-	-
	Jun	-	-	-	-	-	-
	Jul	-	-	-	-	-	-
	Aug	-	-	-	-	-	-
	Sep	-	-	-	-	-	-
	Oct	-	-	-	-	-	-
	Nov	-	-	-	-	-	-
	Dec	-	-	-	-	-	-

**Percentage change, latest 3 months on same 3 months a year ago†**

2016	Oct	-	-	-	-	-	-
	Nov	-	-	-	-	-	-
	Dec	-	-	-	-	-	-
2017	Jan	-	-	-	-	-	-
	Feb	-	-	-	-	-	-
	Mar	-	-	-	-	-	-
	Apr	-	-	-	-	-	-
	May	-	-	-	-	-	-
	Jun	-	-	-	-	-	-
	Jul	-	-	-	-	-	-
	Aug	-	-	-	-	-	-
	Sep	-	-	-	-	-	-
	Oct	-	-	-	-	-	-
	Nov	-	-	-	-	-	-
	Dec	-	-	-	-	-	-
2018	Jan	-	-	-	-	-	-
	Feb	-	-	-	-	-	-
	Mar	-	-	-	-	-	-
	Apr	-	-	-	-	-	-
	May	-	-	-	-	-	-
	Jun	-	-	-	-	-	-
	Jul	-	-	-	-	-	-
	Aug	-	-	-	-	-	-
	Sep	-	-	-	-	-	-
	Oct	-	-	-	-	-	-
	Nov	-	-	-	-	-	-
	Dec	-	-	-	-	-	-

<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.

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continued

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

Seasonally adjusted 2016 = 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	111.5	29.8	53.6	9.9	48.6	55.1
	K22B	K22P	K22T	K22X	K22Z	K239

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

2016	Oct	-	-	-	-	-
	Nov	-	-	-	-	-
	Dec	-	-	-	-	-
2017	Jan	-	-	-	-	-
	Feb	-	-	-	-	-
	Mar	-	-	-	-	-
	Apr	-	-	-	-	-
	May	-	-	-	-	-
	Jun	-	-	-	-	-
	Jul	-	-	-	-	-
	Aug	-	-	-	-	-
	Sep	-	-	-	-	-
	Oct	-	-	-	-	-
	Nov	-	-	-	-	-
	Dec	-	-	-	-	-
2018	Jan	-	-	-	-	-
	Feb	-	-	-	-	-
	Mar	-	-	-	-	-
	Apr	-	-	-	-	-
	May	-	-	-	-	-
	Jun	-	-	-	-	-
	Jul	-	-	-	-	-
	Aug	-	-	-	-	-
	Sep	-	-	-	-	-
	Oct	-	-	-	-	-
	Nov	-	-	-	-	-
	Dec	-	-	-	-	-

<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 2016 = 100

	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
Section	CG	CH	CI	CJ	CK	CL	CM
Latest weight	59.7	84.4	33.6	23.5	44.9	107.6	64.0
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z

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

2016	Oct	-	-	-	-	-	-
	Nov	-	-	-	-	-	-
	Dec	-	-	-	-	-	-
2017	Jan	-	-	-	-	-	-
	Feb	-	-	-	-	-	-
	Mar	-	-	-	-	-	-
	Apr	-	-	-	-	-	-
	May	-	-	-	-	-	-
	Jun	-	-	-	-	-	-
	Jul	-	-	-	-	-	-
	Aug	-	-	-	-	-	-
	Sep	-	-	-	-	-	-
	Oct	-	-	-	-	-	-
	Nov	-	-	-	-	-	-
	Dec	-	-	-	-	-	-
2018	Jan	-	-	-	-	-	-
	Feb	-	-	-	-	-	-
	Mar	-	-	-	-	-	-
	Apr	-	-	-	-	-	-
	May	-	-	-	-	-	-
	Jun	-	-	-	-	-	-
	Jul	-	-	-	-	-	-
	Aug	-	-	-	-	-	-
	Sep	-	-	-	-	-	-
	Oct	-	-	-	-	-	-
	Nov	-	-	-	-	-	-
	Dec	-	-	-	-	-	-

<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:** 10th April 2019  
**Issued by:** Office for National Statistics, Government Buildings, Cardiff Road, Newport NP10 8XG

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