Office for National Statistics

Statistical bulletin

Index of Production, UK: March 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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1 . Main points

- Production output rose by 1.4% in Quarter 1 (Jan to Mar) 2019, compared with Quarter 4 (Oct to Dec) 2018, due to rises from manufacturing, and mining and quarrying.

- The quarterly increase of 2.2% in manufacturing is due mainly to rises of 9.4% from pharmaceuticals, 2.7% from food products, beverages and tobacco, and 3.2% from metals and metal products.

- Production output rose by 0.7% between February 2019 and March 2019; the manufacturing sector provided the largest upward contribution, rising by 0.9%, its third consecutive monthly rise.

- In March 2019, the monthly increase in manufacturing output was due to rises in 8 of the 13 subsectors and follows a 1.0% rise in February 2019; the largest upward contribution came from pharmaceutical products, which rose by 4.0%.

- In Quarter 1 2019, production output increased by 0.6% compared with Quarter 1 2018; with notable rises in manufacturing of 1.2% and mining and quarrying of 6.0%, partially offset by a fall of 5.9% from electricity and gas.

2 . Things you need to know about this release

This March 2019 release contains revisions from January 2019 onwards, and is consistent with the National Accounts Revisions Policy.

This release includes Value Added Tax (VAT) data up to and including Quarter 3 (July to Sept) 2018.

On the 11 April 2019, we published the Quality assurance of administrative data (QAAD) report for Value Added Tax turnover. This looks at how we compile and use VAT data in the short-term economic output indicators.

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.

For further detail on the longer-term trend within manufacturing, please see an article titled Manufacturing sector performance, UK: 2008 to 2018, which was published on 2 April 2019. This provides an overview of the changes in the manufacturing sector between 2008 and 2018, focusing on the industries that have grown or shrunk the most.

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 5.3% and 0.4% lower respectively for Quarter 1 (Jan to Mar) 2019 than the pre-downturn gross domestic product (GDP) peak in Quarter 1 2008.

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

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

Economic downturn

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

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

Index year, 2016=100
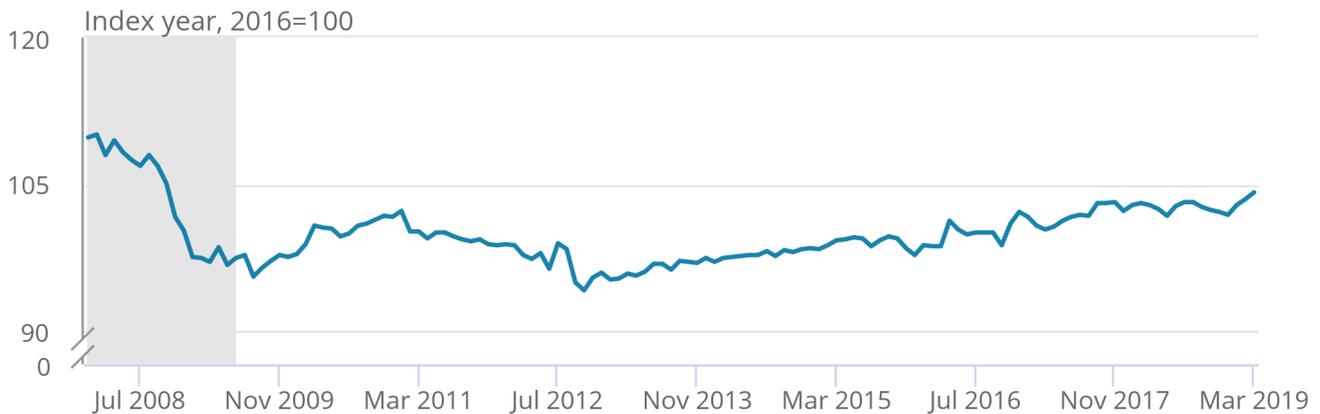
Source: Office for National Statistics – Index of Production

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, January 2008 to March 2019
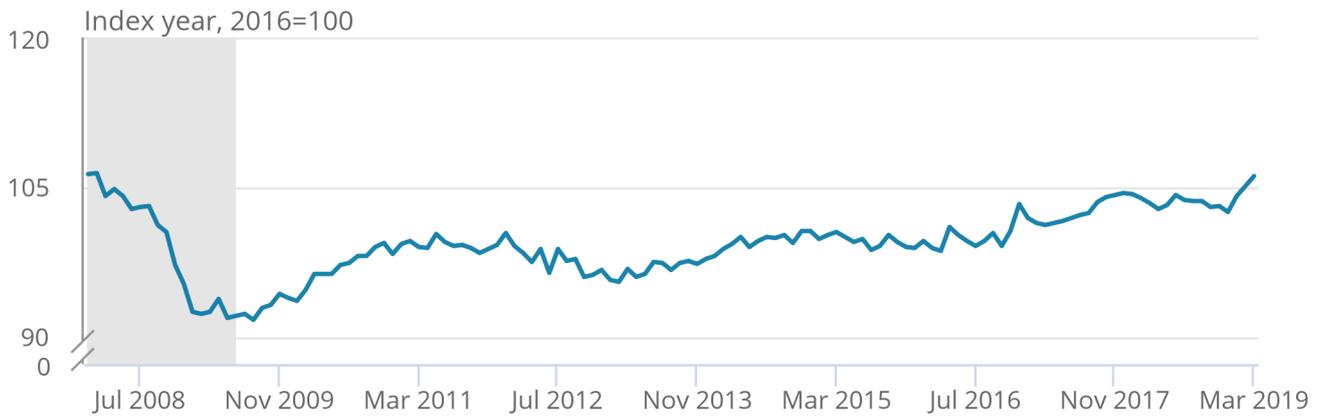
Economic downturn

Index year, 2016=100

120	
105	
90	
0	

Jul 2008   Nov 2009   Mar 2011   Jul 2012   Nov 2013   Mar 2015   Jul 2016   Nov 2017   Mar 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 March 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, March 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	1.4	1.37	0.6	0.56	0.7	0.66
Sector B	Total Mining and Quarrying	2.0	0.15	6.0	0.44	0.9	0.07
5	Coal and Lignite	12.9	0.00	-3.1	0.00	-9.5	0.00
6	Crude petroleum and Natural gas	1.5	0.08	5.2	0.27	1.7	0.09
789	Other mining and quarrying	2.9	0.07	8.0	0.18	-0.9	-0.02
Sector C	Total Manufacturing	2.2	1.61	1.2	0.87	0.9	0.68
CA	Food, beverages and tobacco	2.7	0.31	4.3	0.48	0.8	0.09
CB	Textiles and leather products	2.8	0.08	6.4	0.18	2.0	0.06
CC	Wood, paper and printing	0.4	0.02	0.4	0.02	0.8	0.04
CD	Coke and petroleum	0.2	0.00	6.0	0.05	-0.4	0.00
CE	Chemical products	3.4	0.17	5.5	0.27	0.2	0.01
CF	Pharmaceutical products	9.4	0.50	11.1	0.58	4.0	0.23
CG	Rubber and plastic products	0.4	0.02	2.8	0.16	0.0	0.00
CH	Metal products	3.2	0.26	-1.8	-0.15	-0.2	-0.01
CI	Computer, electronic and optical	4.0	0.15	4.2	0.16	-0.2	-0.01
CJ	Electrical equipment	3.8	0.08	2.3	0.05	0.3	0.01
CK	Machinery and equipment	-0.4	-0.02	-7.0	-0.36	-0.2	-0.01
CL	Transport equipment	0.9	0.10	-3.7	-0.41	1.4	0.15
CM	Other manufacturing and repair	-1.1	-0.07	-2.5	-0.17	1.8	0.12
Sector D	Total Electricity and Gas	-2.3	-0.28	-5.9	-0.72	-0.6	-0.06
35.1	Electric power generation, transmission and distribution	-2.6	-0.22	-5.6	-0.48	-0.3	-0.03
35.2-3	Manufacture of gas; distribution of gaseous fuels through mains; steam and aircon supply	-1.8	-0.06	-6.7	-0.24	-1.1	-0.04
Sector E	Total Water and Waste	-1.7	-0.12	-0.4	-0.03	-0.3	-0.02
36	Water collection, treatment and supply	-1.5	-0.03	1.7	0.03	1.0	0.02
37	Sewerage	-1.7	-0.03	-7.9	-0.16	0.5	0.01
38	Waste collection, treatment and disposal activities; materials recovery	-1.7	-0.05	3.4	0.10	-1.7	-0.05

| 39 | Remediation activities and other waste management services | -3.1 | 0.00 | 9.8 | 0.01 | -3.0 | 0.00 |

Source: Office for National Statistics

4 . What is contributing to the quarter on previous quarter increase?

Total production output for Quarter 1 (Jan to Mar) 2019, compared with Quarter 4 (Oct to Dec) 2018, increased by 1.4%, driven by rises in two of the four main sectors. This follows a fall of 0.8% during Quarter 4 2018. This is also the strongest three-monthly rise in production output since February 2017, when it rose by 1.6%.

Figure 3: Total manufacturing output increased by 2.2% during Quarter 1 (Jan to Mar) 2019

IoM quarter-on-quarter growth, seasonally adjusted, UK, Quarter 1 (Jan to Mar) 2000 to Quarter 1 (Jan to Mar) 2019

Figure 3: Total manufacturing output increased by 2.2% during Quarter 1 (Jan to Mar) 2019

IoM quarter-on-quarter growth, seasonally adjusted, UK, Quarter 1 (Jan to Mar) 2000 to Quarter 1 (Jan to Mar) 2019

Source: Office for National Statistics - Index of Production

Providing the largest upward contribution to total production output was an increase of 2.2% in manufacturing output (Figure 3), driven by widespread strength, with 11 of the 13 subsectors displaying upward contributions. This is the strongest quarterly rise since Quarter 3 (July to Sept) 1988, when it rose by 2.9%.

It is also the strongest three-monthly growth since May 2010, when it rose by 2.4%, and equals the rise in February 2017, when it rose by 2.2%.

The rise in manufacturing was due primarily to strong increases from:

- the volatile basic pharmaceutical products subsector (9.4%), due primarily to export strength during January and March 2019

- food products, beverages and tobacco (2.7%)

- basic metals and metal products (3.2%), driven by monthly strength during January 2019 from the weapons and ammunition subindustry, which increased by 25.5%

The strong growth in manufacturing is consistent with an increase in activity ahead of the UK's originally intended departure date from the European Union, and relates to the timing of deliveries from manufacturing businesses to their customers. However, we are unable to quantify the effect of this.

It should be noted that manufacturing data are not systematically adjusted for changes in inventories (stocks) of work in progress or finished goods. This adjustment process ceased in 2008 based on an assessment of the quality of the applied adjustment.

In the past we have highlighted the pharmaceuticals subsector, which often displays erratic patterns of growth. Although there is strong growth in this industry during Quarter 1 2019, there is similar and widespread growth across manufacturing. Despite the volatility within pharmaceuticals, we have received responder-led evidence that the strength over Quarter 1 2019 is due to increased exports during January and March 2019. Some of this export strength is in anticipation of the UK's exit from the European Union at the end of March 2019, before it was known that the UK's proposed exit from the European Union had been delayed to 31 October 2019.

Within food products, beverages and tobacco, meat products rose by 4.6%, due to monthly strength during January 2019; and alcoholic beverages rose by 5.7%, the strongest three-monthly growth since August 2013, due to consistent strength during Quarter 1 2019. Strong export sales of spirits such as whisky is a factor behind increased output.

Mining and quarrying rose by 2.0%, due to widespread strength throughout the sector led by oil and gas extraction (1.5%). This was due mainly to increased output during February 2019, where notable strength in the monthly index was due to newer oil fields increasing production.

The fall of 2.3% within electricity and gas supply was due mainly to a decrease of 2.6% from electricity generation and distribution due to less demand, due to warmer temperatures. The long-term average temperatures were warmer by 2.4 degrees Celsius and 1.3 degrees Celsius respectively, during February 2019 and March 2019.

The fall of 1.7% from water and waste is due mainly to widespread weakness, with all four sub-industries displaying decreased output.

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

Monthly total production output increased for the third consecutive period, rising by 0.7% in March 2019, following a rise of 0.6% during February 2019.

The strength is due primarily to manufacturing increasing by 0.9% and is supported by a rise from mining and quarrying of 0.9%. Within manufacturing, there is widespread strength this month, with 8 of the 13 subsectors rising.

Driving the strength within manufacturing were:

- pharmaceutical products, which rose by 4.0%, underpinned by an increase in nominal export turnover of 24.5%

- transport equipment, which rose by 1.4%, led by a 1.9% increase from motor vehicles, trailers and semi-trailers

- other manufacturing and repair, which rose by 1.8%, the strongest growth since September 2017

The growth of 1.9% within the motor vehicles, trailers and semi-trailers sub-industry this month, is the strongest since May 2018. This is supported by a monthly increase in nominal domestic turnover of 14.5%, in comparison to nominal export turnover, which rose by 4.5%. However, the sub-industry remains 0.3% down quarter-on-quarter. Users are 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.

The nominal turnover growth rates are published alongside this release, within our Monthly Business Survey in production industries.

The mining and quarrying sector rose by 0.9%, led by a rise of 1.7% in oil and gas extraction, continuing recent strength within this sub-industry.

Offsetting the upward contribution from mining and quarrying is the downward contribution from electricity and gas, which decreased by 0.6%. Within this sector, gas supply fell by 1.1%, due mainly to less demand due to warmer than average temperatures.

6 . What is contributing to the quarter on same quarter a year ago increase?

Total production output for Quarter 1 (Jan to Mar) 2019 has increased by 0.6%, compared with Quarter 1 2018. This was driven by a rise in two of the four main sectors.

Mining and quarrying rose by 6.0%, due mainly to the impact of an expansion in oil and gas fields coming online at the end of 2017, with production steadily rising from that point.

Electricity and gas fell by 5.9%, affected by the UK experiencing a spell of severe winter weather (the Beast from the East), with low temperatures and snowfalls during February and March 2018. This weather effect increased demand in electricity and gas during Quarter 1 2018.

Manufacturing rose by 1.2%, providing the largest upward contribution and was due to widespread strength, with 9 of the 13 subsectors increasing.

The rise in manufacturing was driven by notable increases from:

- basic pharmaceutical products at 11.1%

- food products, beverages and tobacco at 4.3%, due primarily to continued strength from alcoholic beverages, which rose by 9.8% and meat and meat products, which rose by 6.3%

- chemicals and chemical products at 5.5%, due mainly to petrochemicals with a rise of 12.7%, driven by large businesses

Partially offsetting the increase in overall manufacturing growth was a fall of 7.0% within machinery and equipment not elsewhere classified, driven by large businesses completing fewer contracts on major projects than the same time a year ago.

Total manufacturing output returns to positive growth following a period of consistent negative growth since October 2018 (Figure 4).

Figure 4: Manufacturing and production output rose for the first time since October 2018

IoP and IoM three months on same three months a year ago growth, seasonally adjusted, UK, Quarter 1 (Jan to Mar) 2010 to Quarter 1 (Jan to Mar) 2019

Figure 4: Manufacturing and production output rose for the first time since October 2018

IoP and IoM three months on same three months a year ago growth, seasonally adjusted, UK, Quarter 1 (Jan to Mar) 2010 to Quarter 1 (Jan to Mar) 2019
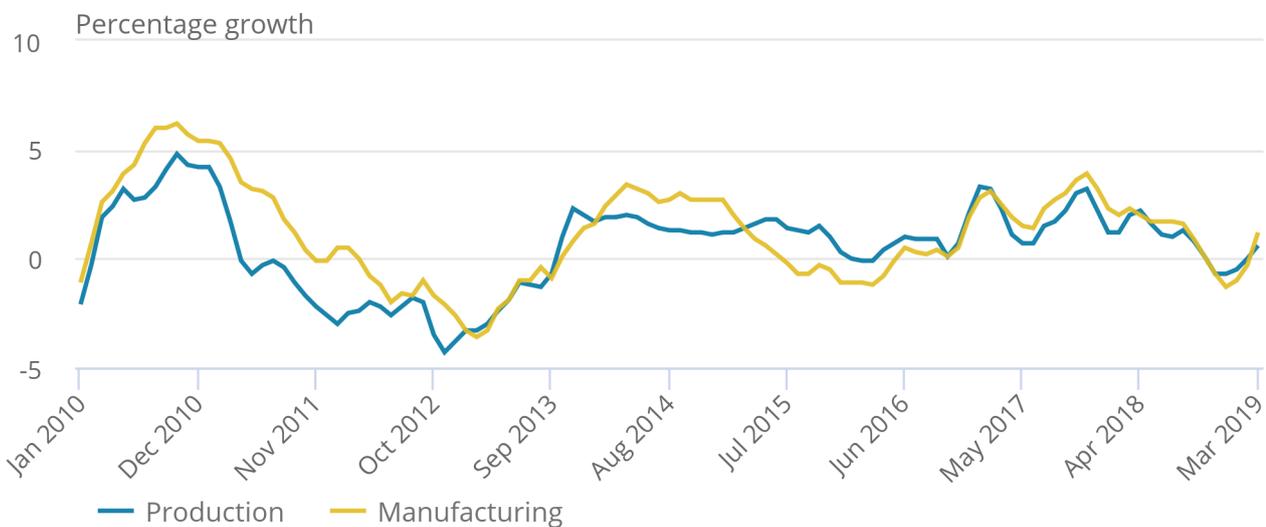
Source: Office for National Statistics - Index of Production

7 . 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 (10 May 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.

8 . 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

Output of the Production Industries,
March 2019

IOP5 Output of the Production Industries
Chained volume indices of gross value added[1]

| | 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
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	103.7	103.4	97.9	101.9	104.1	111.0	100.6	107.7	102.1	99.9
2018 Q1	103.0	100.8	103.9	100.3	100.9	101.4	111.0	99.5	110.2	101.8	100.2
Q2	102.4	103.4	103.4	96.5	101.5	103.9	111.2	101.6	107.5	101.3	98.9
Q3	103.0	105.7	103.6	98.1	103.1	106.1	110.4	100.7	107.4	102.8	100.9
Q4	102.2	104.8	102.8	96.6	102.2	105.1	111.2	100.7	105.7	102.3	99.5
2019 Q1	103.6	106.9	105.1	94.4	100.5	106.7	114.2	105.2	106.9	104.2	98.4
2018 Jan	102.9	101.6	104.3	96.9	100.4	101.9	111.5	99.2	111.0	102.6	98.1
Feb	103.1	102.0	103.9	100.6	101.0	102.7	110.5	99.9	110.2	101.7	100.7
Mar	102.9	98.9	103.4	103.4	101.3	99.7	111.1	99.4	109.3	101.0	101.8
Apr	102.5	105.9	102.8	100.0	100.3	108.6	110.0	100.2	107.7	100.5	102.0
May	101.8	101.6	103.2	94.7	101.2	101.1	111.9	101.3	107.6	101.1	97.0
Jun	102.8	102.8	104.2	95.0	103.1	102.1	111.6	103.4	107.3	102.3	97.7
Jul	103.2	106.2	103.7	98.7	103.3	107.0	111.5	101.1	107.3	102.8	101.5
Aug	103.2	107.1	103.6	98.4	103.3	107.9	110.6	100.2	107.8	102.7	101.5
Sep	102.7	103.7	103.6	97.1	102.8	103.3	109.0	100.7	107.0	103.0	99.5
Oct	102.4	105.8	103.0	97.1	102.3	105.3	110.9	100.4	105.8	102.9	99.9
Nov	102.2	103.9	103.1	96.5	102.0	103.8	111.8	101.4	105.9	102.1	99.1
Dec	101.9	104.7	102.5	96.3	102.3	106.1	111.1	100.4	105.3	101.9	99.5
2019 Jan	102.9 †	104.5 †	104.1 †	96.5 †	100.7 †	103.3 †	111.8 †	103.9 †	105.8 †	103.4	99.0
Feb	103.5	107.6	105.1	93.6	100.6	107.4	115.0	104.8	107.1	104.4	98.0
Mar	104.2	108.6	106.1	93.0	100.2	109.3	115.7	106.8	107.7	104.8	98.2

Percentage change, latest year on previous year

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	0.8	4.3	0.9	-0.6	-1.4	6.5	7.8	1.8	1.3	-0.2	1.3

Percentage change, latest month on same month a year ago

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	1.2	2.3	2.4	-4.2	-2.8	3.4	9.2	-0.6	6.7	1.0	-2.4
Feb	2.3	3.6	2.5	3.7	-3.1	6.2	7.5	2.5	5.0	0.5	3.2
Mar	2.5	-1.6	2.1	11.7	-3.7	0.1	13.1	0.7	5.6	-0.1	6.5
Apr	1.8	7.6	1.4	3.5	-3.0	13.7	11.2	1.3	4.3	-1.3	5.2
May	0.5	1.5	1.5	-4.0	-2.2	2.7	10.6	2.7	2.9	-0.6	-2.2
Jun	1.1	-1.5	2.2	-3.2	-0.2	-2.1	6.9	4.0	2.5	0.6	-2.6
Jul	1.3	4.8	1.4	-0.4	-	7.3	11.7	3.3	-	0.9	2.4
Aug	1.3	7.7	1.2	-1.2	0.7	10.1	6.8	1.7	0.9	1.0	2.6
Sep	-0.4	1.5	-	-4.0	-	1.5	1.4	2.4	-1.9	-	-1.5
Oct	-0.7	2.5	-1.0	-0.2	-1.3	1.7	5.5	1.2	-3.1	-0.5	0.6
Nov	-1.0	2.3	-1.1	-2.7	-0.5	3.2	7.0	1.2	-2.2	-2.0	-0.3
Dec	-0.4	24.0	-1.8	-4.6	-0.2	38.0	4.2	1.3	-4.2	-1.9	5.0
2019 Jan	- †	2.8 †	-0.2 †	-0.4 †	0.3 †	1.4 †	0.2 †	4.8 †	-4.7 †	0.8	0.9
Feb	0.4	5.5	1.2	-7.0	-0.4	4.6	4.1	4.9	-2.9	2.7 †	-2.7
Mar	1.3	9.8	2.6	-10.0	-1.0	9.6	4.1	7.5	-1.5	3.7	-3.5

1 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.

	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

Percentage change, latest month on previous month

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	0.6	20.3	-0.1	-4.1	-2.1	32.5	4.6	-	1.0	-1.2	3.5
	Feb	0.2	0.4	-0.4	3.8	0.6	0.8	-1.0	0.8	-0.7	-0.9	2.7
	Mar	-0.2	-3.0	-0.5	2.8	0.2	-2.9	0.6	-0.6	-0.8	-0.7	1.1
	Apr	-0.4	7.0	-0.5	-3.3	-0.9	8.9	-1.0	0.9	-1.5	-0.5	0.2
	May	-0.7	-4.0	0.3	-5.2	0.9	-6.9	1.7	1.0	-0.1	0.5	-5.0
	Jun	1.0	1.2	1.0	0.2	1.9	1.0	-0.3	2.1	-0.2	1.2	0.8
	Jul	0.4	3.3	-0.5	4.0	0.2	4.8	-0.1	-2.2	-	0.5	3.9
	Aug	-0.1	0.9	-0.1	-0.4	0.1	0.9	-0.9	-0.9	0.5	-0.1	-
	Sep	-0.4	-3.2	-	-1.3	-0.5	-4.3	-1.5	0.5	-0.8	0.2	-1.9
	Oct	-0.3	2.0	-0.6	-	-0.5	1.9	1.8	-0.3	-1.1	-	0.3
	Nov	-0.2	-1.8	0.1	-0.6	-0.2	-1.5	0.8	1.0	0.1	-0.8	-0.8
	Dec	-0.3	0.8	-0.5	-0.1	0.3	2.3	-0.6	-0.9	-0.6	-0.2	0.5
2019	Jan	1.0 [†]	-0.2	1.5 [†]	0.2 [†]	-1.6 [†]	-2.6	0.7 [†]	3.5 [†]	0.5 [†]	1.5	-0.6 [†]
	Feb	0.6	3.0 [†]	1.0	-3.0	-0.2	4.0	2.9	0.9	1.2	1.0	-1.0
	Mar	0.7	0.9	0.9	-0.6	-0.3	1.7	0.5	1.8	0.6	0.3	0.2

Percentage change, latest 3 months on same 3 months a year ago[2]

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	-3.1	2.3	-2.4	-0.2	-5.4	5.4	-1.6	6.8	1.6	-3.3
	Feb	1.2	-2.7	2.0	0.4	-1.6	-4.0	6.6	-0.7	5.8	0.8	-1.2
	Mar	2.0	1.4	2.3	3.5	-3.2	3.2	9.9	0.8	5.8	0.4	2.4
	Apr	2.2	3.2	2.0	6.2	-3.3	6.6	10.6	1.5	5.0	-0.3	5.0
	May	1.6	2.5	1.7	3.5	-3.0	5.4	11.6	1.5	4.3	-0.7	3.1
	Jun	1.1	2.5	1.7	-1.3	-1.8	4.6	9.5	2.7	3.2	-0.4	0.1
	Jul	1.0	1.6	1.7	-2.5	-0.8	2.6	9.7	3.3	1.8	0.3	-0.8
	Aug	1.3	3.6	1.6	-1.6	0.1	5.0	8.4	3.0	1.1	0.9	0.8
	Sep	0.8	4.6	0.9	-1.9	0.2	6.2	6.5	2.5	-0.3	0.7	1.2
	Oct	0.1	3.8	0.1	-1.8	-0.2	4.3	4.5	1.8	-1.3	0.2	0.5
	Nov	-0.7	2.1	-0.7	-2.3	-0.6	2.1	4.6	1.6	-2.4	-0.8	-0.4
	Dec	-0.7	8.7	-1.3	-2.5	-0.7	12.2	5.6	1.2	-3.2	-1.5	1.7
2019	Jan	-0.5 [†]	8.8 [†]	-1.0 [†]	-2.6 [†]	-0.1 [†]	12.1	3.7 [†]	2.4 [†]	-3.7 [†]	-1.0 [†]	1.8 [†]
	Feb	-	10.0	-0.3	-4.0	-0.1	12.6	2.8	3.7	-3.9	0.5	1.0
	Mar	0.6	6.0	1.2	-5.9	-0.4	5.2	2.8	5.7	-3.0	2.4	-1.8

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.

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

IOP5 continued **Output of the Production Industries**
Chained volume indices of gross value added[1]

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

Percentage change, latest 3 months on previous 3 months[2]

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	-5.6	1.0	-0.3	-1.1	-8.0	2.0	0.8	1.3	0.8	-2.4
Feb	-0.3	-6.2	0.3	0.3	-1.6	-8.0	3.7	0.2	1.4	-0.8	-2.0
Mar	0.1	4.6	-0.3	1.1	-1.9	8.3	5.4	-	1.0	-2.0	2.5
Apr	-	6.6	-0.9	2.3	-1.0	11.3	2.8	0.3	-0.6	-2.4	4.2
May	-0.4	6.3	-1.1	-0.1	-0.4	9.9	1.4	0.9	-2.0	-1.8	2.4
Jun	-0.6	2.5	-0.5	-3.7	0.6	2.5	0.1	2.2	-2.4	-0.5	-1.3
Jul	-0.2	1.2	0.3	-5.1	1.6	-0.2	1.0	2.1	-1.5	1.0	-2.7
Aug	0.6	3.2	0.7	-2.0	2.3	2.5	0.2	1.3	-0.7	1.7	-
Sep	0.6	2.2	0.2	1.6	1.6	2.1	-0.7	-0.9	-0.2	1.5	2.0
Oct	0.1	1.9	-0.3	1.4	0.3	2.0	-1.4	-1.5	-0.5	0.8	1.6
Nov	-0.6	-0.8	-0.6	-0.5	-0.8	-1.5	-0.6	-0.7	-1.1	0.1	-0.8
Dec	-0.8	-0.8	-0.7	-1.5	-0.9	-1.0	0.8	0.1	-1.6	-0.5	-1.4
2019 Jan	-0.4 †	-1.1	-0.1 †	-1.1 †	-1.1	-1.1 †	1.3 †	1.5 †	-1.1 †	-0.4	-1.1
Feb	0.3	1.1 †	0.7	-1.4	-1.1 †	1.4	1.9	2.2	-0.2	0.6 †	-0.7 †
Mar	1.4	2.0	2.2	-2.3	-1.7	1.5	2.6	4.4	1.1	1.9	-1.1

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2 Any apparent inconsistencies between these tables and the latest GDP estimate 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

Output of the Production Industries
Chained volume indices of gross value added[1]

Seasonally adjusted 2016 = 100

	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
Section	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	102.7	102.6	102.2	97.3	103.0	98.6
2018 Q1	101.5	99.3	102.1	93.5	102.3	97.6
Q2	102.6	103.4	102.4	96.2	101.6	101.6
Q3	103.7	104.8	102.2	100.3	103.7	96.3
Q4	103.1	102.8	102.2	99.0	104.4	99.0
2019 Q1	105.9	105.7	102.5	99.1	108.0	108.4
2018 Jan	101.2	100.4	102.4	94.4	102.2	97.4
Feb	101.5	97.4	102.3	91.1	103.6	98.9
Mar	101.8	100.2	101.8	95.1	101.0	96.4
Apr	101.9	101.8	101.3	96.8	100.4	98.9
May	102.9	104.3	103.0	94.6	101.8	99.7
Jun	103.0	104.2	102.8	97.4	102.7	106.3
Jul	103.8	106.3	103.9	97.0	104.1	94.9
Aug	104.0	104.7	100.8	102.1	101.6	95.9
Sep	103.2	103.3	102.1	101.8	105.4	98.2
Oct	103.7	102.4	101.2	99.2	103.9	98.2
Nov	102.9	102.6	104.0	99.0	103.7	101.3
Dec	102.7	103.4	101.3	98.8	105.7	97.6
2019 Jan	105.0 ᵀ	103.9 ᵀ	102.7 ᵀ	99.1 ᵀ	107.1 ᵀ	105.8 ᵀ
Feb	105.9	105.5	102.1	99.4	108.3	107.5
Mar	106.8	107.6	102.9	99.0	108.5	111.8

Percentage change, latest year on previous year

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	1.8	-0.2	0.4	-3.8	0.4	4.3

Percentage change, latest month on same month a year ago

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	-0.6	-0.5	-7.7	-1.6	0.1
Feb	0.7	-5.0	1.7	-10.9	3.0	10.4
Mar	0.4	-4.2	-0.9	-8.0	-1.7	5.4
Apr	-	0.1	-0.5	-6.9	-3.7	6.5
May	2.9	2.5	1.2	-10.0	-0.6	4.0
Jun	2.0	2.5	1.7	-6.8	-0.7	10.2
Jul	2.7	3.3	3.6	2.1	1.6	3.5
Aug	3.3	1.6	-0.1	5.2	-2.1	2.0
Sep	3.2	0.3	0.1	-0.3	1.3	4.0
Oct	2.6	-0.1	-0.8	-2.6	2.8	1.0
Nov	1.0	-1.5	0.8	0.8	1.0	3.4
Dec	1.9	-0.8	-1.8	0.7	5.2	1.7
2019 Jan	3.8 ᵀ	3.5 ᵀ	0.3 ᵀ	5.0 ᵀ	4.8 ᵀ	8.6 ᵀ
Feb	4.3	8.4	-0.2	9.1	4.5	8.7
Mar	4.9	7.5	1.1	4.0	7.4	16.0

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ᵀ 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[1]

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
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	99.9	101.9	114.8	96.7	111.6	104.2	106.3
2018 Q1	98.3	104.8	115.0	98.1	116.5	106.4	107.0
Q2	99.6	100.7	115.1	96.0	111.9	104.0	106.2
Q3	100.9	102.3	114.0	96.1	109.3	104.8	106.4
Q4	100.8	99.7	115.3	96.7	108.8	101.5	105.5
2019 Q1	101.1	102.9	119.9	100.4	108.3	102.5	104.3
2018 Jan	99.3	103.8	115.6	100.1	119.1	107.3	108.1
Feb	97.5	106.4	114.6	97.9	113.8	107.5	105.6
Mar	98.2	104.2	114.9	96.3	116.6	104.4	107.2
Apr	97.5	101.6	113.8	96.6	114.2	103.7	106.1
May	98.9	99.1	116.3	96.8	110.9	104.5	105.9
Jun	102.2	101.3	115.2	94.5	110.8	103.9	106.7
Jul	101.6	101.8	115.3	96.2	109.4	104.2	106.5
Aug	100.5	102.7	114.8	96.3	109.9	105.3	106.4
Sep	100.6	102.5	111.9	95.8	108.7	104.8	106.3
Oct	100.6	101.9	115.0	96.7	108.5	101.4	105.7
Nov	101.0	98.6	115.4	96.6	109.0	101.2	107.0
Dec	100.7	98.7	115.3	96.9	108.9	101.9	103.8
2019 Jan	100.9 T	102.1 T	117.0 T	99.3 T	108.7 T	101.2 T	102.9 T
Feb	101.3	103.4	121.4	100.7	108.3	102.4	104.1
Mar	101.3	103.2	121.2	101.1	108.1	103.8	106.0

Percentage change, latest year on previous year

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	-0.2	0.2	10.0	-7.6	1.8	0.4	-0.7

Percentage change, latest month on same month a year ago

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	-1.0	4.4	12.6	-2.9	13.4	3.5	2.9
Feb	-1.8	7.9	12.0	-7.3	2.5	4.1	-1.5
Mar	-2.1	5.4	18.3	-4.2	9.7	2.3	0.7
Apr	-2.7	2.8	15.9	-7.7	9.6	-0.5	3.2
May	-1.7	-0.9	13.8	-5.8	2.6	1.4	1.9
Jun	3.8	-0.9	6.7	-11.5	6.4	4.6	-0.8
Jul	2.4	2.0	14.5	-10.9	0.5	-2.3	-1.6
Aug	0.7	1.1	9.0	-5.6	0.1	1.9	-1.5
Sep	0.1	0.5	0.3	-10.4	-4.4	1.0	-4.1
Oct	-0.1	-3.3	6.1	-8.2	-4.3	-5.5	-0.8
Nov	-1.4	-6.1	7.3	-8.0	-5.5	-2.5	-0.9
Dec	1.1	-9.3	5.5	-8.5	-6.1	-2.9	-5.1
2019 Jan	1.6 T	-1.6 T	1.3 T	-0.8 T	-8.7 T	-5.7 T	-4.8 T
Feb	3.8	-2.8	5.9	2.9	-4.9	-4.7	-1.4
Mar	3.1	-1.0	5.5	5.0	-7.3	-0.6	-1.2

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† 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[1]

continued

	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
Section	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

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	0.3	-3.7	-0.8	-3.8	1.7	1.5
	Feb	0.4	-3.0	-0.1	-3.5	1.4	1.5
	Mar	0.3	2.9	-0.5	4.4	-2.5	-2.5
	Apr	-	1.6	-0.4	1.7	-0.6	2.6
	May	1.0	2.5	1.6	-2.3	1.4	0.8
	Jun	0.1	-0.1	-0.2	2.9	0.9	6.7
	Jul	0.8	2.1	1.1	-0.4	1.3	-10.8
	Aug	0.2	-1.5	-3.0	5.2	-2.4	1.1
	Sep	-0.8	-1.3	1.3	-0.3	3.8	2.4
	Oct	0.5	-0.9	-0.9	-2.6	-1.4	-0.1
	Nov	-0.8	0.2	2.8	-0.2	-0.3	3.1
	Dec	-0.2	0.7	-2.6	-0.2	2.0	-3.6
2019	Jan	2.2 [†]	0.5 [†]	1.3 [†]	0.3 [†]	1.3 [†]	8.4 [†]
	Feb	0.9	1.5	-0.5	0.3	1.1	1.6
	Mar	0.8	2.0	0.8	-0.4	0.2	4.0

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

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	3.7	0.9	-6.7	-	-7.5
	Feb	0.4	-0.1	0.7	-7.5	0.1	-2.5
	Mar	0.6	-3.3	0.1	-8.9	-0.1	5.2
	Apr	0.4	-3.0	0.1	-8.6	-0.8	7.4
	May	1.1	-0.6	-0.1	-8.3	-2.0	5.3
	Jun	1.6	1.7	0.8	-7.9	-1.7	6.9
	Jul	2.5	2.8	2.1	-5.1	0.1	5.9
	Aug	2.7	2.5	1.7	-	-0.4	5.3
	Sep	3.1	1.7	1.2	2.3	0.3	3.1
	Oct	3.0	0.6	-0.3	0.7	0.6	2.3
	Nov	2.3	-0.5	-	-0.7	1.7	2.8
	Dec	1.8	-0.8	-0.6	-0.4	3.0	2.0
2019	Jan	2.2 [†]	0.4 [†]	-0.3	2.1	3.7 [†]	4.6 [†]
	Feb	3.3	3.6	-0.6	4.8 [†]	4.8	6.4
	Mar	4.3	6.4	0.4	6.0	5.5	11.1

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IOP5 continued
Output of the Production Industries
Chained volume indices of gross value added[1]

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 month on previous month

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	-0.3	-4.6	5.7	-5.4	2.7	2.3	-1.2
Feb	-1.8	2.5	-0.8	-2.2	-4.5	0.1	-2.4
Mar	0.7	-2.0	0.2	-1.6	2.5	-2.8	1.6
Apr	-0.7	-2.5	-1.0	0.4	-2.1	-0.7	-1.1
May	1.4	-2.5	2.2	0.2	-2.9	0.8	-0.2
Jun	3.3	2.2	-0.9	-2.4	-0.1	-0.5	0.8
Jul	-0.6	0.5	0.1	1.8	-1.2	0.3	-0.2
Aug	-1.0	0.9	-0.5	0.2	0.4	1.1	-0.1
Sep	0.1	-0.2	-2.5	-0.6	-1.1	-0.6	-0.1
Oct	0.1	-0.6	2.8	1.0	-0.2	-3.2	-0.6
Nov	0.4	-3.2	0.3	-0.1	0.5	-0.1	1.3
Dec	-0.3	0.1	-	0.3	-0.1	0.7	-3.0
2019 Jan	0.2 †	3.5 †	1.5 †	2.5 †	-0.2 †	-0.7 †	-0.9 †
Feb	0.4	1.2	3.7	1.4	-0.4	1.2	1.1
Mar	-	-0.2	-0.2	0.3	-0.2	1.4	1.8

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

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	-0.1	4.9	7.2	-0.1	11.9	3.4	5.4
Feb	-1.2	5.3	8.9	-2.6	8.5	3.7	2.2
Mar	-1.6	5.9	14.2	-4.8	8.4	3.3	0.7
Apr	-2.2	5.3	15.3	-6.4	7.2	2.0	0.8
May	-2.2	2.4	15.9	-5.9	7.2	1.1	1.9
Jun	-0.2	0.3	12.0	-8.4	6.1	1.8	1.4
Jul	1.5	-	11.5	-9.4	3.1	1.1	-0.2
Aug	2.3	0.7	10.0	-9.4	2.3	1.3	-1.3
Sep	1.0	1.2	7.7	-9.0	-1.3	0.1	-2.4
Oct	0.2	-0.6	5.1	-8.1	-2.9	-0.9	-2.1
Nov	-0.5	-3.0	4.5	-8.9	-4.7	-2.4	-1.9
Dec	-0.1	-6.2	6.3	-8.2	-5.3	-3.6	-2.3
2019 Jan	0.4 †	-5.7 †	4.6 †	-5.8 †	-6.8 †	-3.7 †	-3.6 †
Feb	2.1	-4.6	4.2	-2.3	-6.6	-4.4	-3.8
Mar	2.8	-1.8	4.2	2.3	-7.0	-3.7	-2.5

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Output of the Production Industries
Chained volume indices of gross value added[1]

Seasonally adjusted 2016 = 100

		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
Section		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

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	0.1	1.3	-3.4	-1.2	2.0
	Feb	0.2	-2.5	0.2	-6.1	-0.5	1.0
	Mar	0.2	-4.2	-0.6	-5.9	0.9	0.5
	Apr	0.4	-3.1	-1.1	-2.6	-0.1	1.0
	May	1.0	1.4	-0.6	1.0	-1.0	0.9
	Jun	1.0	4.1	0.2	2.9	-0.6	4.2
	Jul	1.5	5.2	1.4	2.1	1.2	2.3
	Aug	1.4	2.9	0.5	3.5	1.7	0.7
	Sep	1.1	1.3	-0.1	4.2	2.0	-5.2
	Oct	0.4	-1.4	-1.8	4.9	0.8	-2.8
	Nov	-0.3	-2.2	-0.1	1.2	1.5	0.2
	Dec	-0.5	-1.9	-0.1	-1.3	0.7	2.8
2019	Jan	-0.1 †	-0.1 †	1.3	-2.1 †	1.8	4.2 †
	Feb	1.3	1.5	-0.4	-0.9	2.6 †	4.4
	Mar	2.7	2.8	0.4	0.2	3.4	9.4

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IOP5 Output of the Production Industries
Chained volume indices of gross value added [1]

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

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	0.1	2.8	2.2	-1.1	4.1	0.5	0.1
Feb	-2.4	2.1	3.7	-4.3	1.9	1.6	-0.7
Mar	-2.6	-1.5	6.1	-7.0	1.4	1.0	-0.9
Apr	-2.7	-1.7	3.3	-6.5	-1.7	-0.2	-2.0
May	-0.6	-4.4	1.6	-4.6	-2.1	-2.3	-1.2
Jun	1.2	-3.9	0.1	-2.1	-3.9	-2.3	-0.7
Jul	3.2	-3.2	1.0	-1.1	-3.9	-0.9	0.1
Aug	3.2	0.3	0.1	-0.9	-3.4	0.3	0.1
Sep	1.3	1.6	-0.9	0.1	-2.3	0.7	0.1
Oct	-0.3	1.6	-1.5	0.5	-1.2	-0.4	-0.2
Nov	-0.7	-0.9	-0.9	0.7	-1.2	-2.0	-0.2
Dec	-0.1	-2.5	1.1	0.7	-0.5	-3.1	-0.8
2019 Jan	0.3 [†]	-2.5 [†]	1.8 [†]	1.4 [†]	-0.1 [†]	-2.3 [†]	-1.5 [†]
Feb	0.2	0.4	3.3	2.7	-0.1	-0.6	-2.6
Mar	0.4	3.2	4.0	3.8	-0.4	0.9	-1.1

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Office for National Statistics

Revisions to Output of the Production Industries, March 2019

IOP5R

Output of the Production Industries
Chained volume indices of gross value added[1]

| | 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
2014	-	-	-	-	-	-	-	-	-	-	-
2015	-	-	-	-	-	-	-	-	-	-	-
2016	-	-	-	-	-	-	-	-	-	-	-
2017	-	-	-	-	-	-	-	-	-	-	-
2018	-	-	-	-	-	-	-	-	-	-	-
2017 Q4	-	-	-	-	-	-	-	-	-	-	-
2018 Q1	-	-	-	-	-	-	-	-	-	-	-
Q2	-	-	-	-	-	-	-	-	-	-	-
Q3	-	-	-	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-	-	-	-
2017 Dec	-	-	-	-	-	-	-	-	-	-	-
2018 Jan	-	-	-	-	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-	-	-	-	-
Apr	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-	-	-	-	-
2019 Jan	0.3	-0.1	0.5	-0.3	0.1	-0.1	0.3	0.8	0.6	-	-0.2
Feb	0.2	0.6	0.6	-2.0	0.3	-0.1	1.0	1.3	0.8	-	-1.3

Percentage change, latest year on previous year

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

Percentage change, latest month on same month a year ago

2016 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	-	-	-	-	-	-	-	-	-	-	-
2019 Jan	0.3	-0.1	0.5	-0.4	0.1	-0.1	0.3	0.8	0.5	-	-0.2
Feb	0.3	0.6	0.6	-2.1	0.4	-	0.9	1.3	0.7	0.1	-1.3

1 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.

IOP5R
continued

Output of the Production Industries
Chained volume indices of gross value added[1]

	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

Percentage change, latest month on previous month

2016 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	-	-	-	-	-	-	-	-	-	-	-
2019 Jan	0.3	-	0.4	-0.3	0.1	-	0.3	0.8	0.6	-	-0.2
Feb	-	0.7	0.1	-1.7	0.2	-	0.6	0.5	0.2	-	-1.1

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

2016 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	-	-	-	-	-	-	-	-	-	-	-
2019 Jan	0.1	-0.1	0.2	-0.1	0.1	-	0.1	0.3	0.2	0.1	-0.1
Feb	0.2	0.2	0.3	-0.8	0.2	-	0.4	0.7	0.4	-	-0.5

1   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

IOP5R
continued

Output of the Production Industries
Chained volume indices of gross value added[1]

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

Percentage change, latest 3 months on previous 3 months

2016 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	-	-	-	-	-	-	-	-	-	-	-
2019 Jan	0.1	-	0.2	-0.1	-	-0.1	0.1	0.3	0.2	-	-
Feb	0.1	0.2	0.3	-0.8	0.1	-0.1	0.4	0.7	0.4	0.1	-0.5

1 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

IOP5R
continued

Output of the Production Industries
Chained volume indices of gross value added[1]

Seasonally adjusted 2016 = 100

	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
Section	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 Dec	-	-	-	-	-	-
2018 Jan	-	-	-	-	-	-
Feb	-	-	-	-	-	-
Mar	-	-	-	-	-	-
Apr	-	-	-	-	-	-
May	-	-	-	-	-	-
Jun	-	-	-	-	-	-
Jul	-	-	-	-	-	-
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-
Oct	-	-	-	-	-	-
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
2019 Jan	0.3	0.3	0.2	-0.1	0.1	2.1
Feb	0.2	0.4	-0.1	-0.3	0.8	3.8

Percentage change, latest year on previous year

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

Percentage change, latest month on same month a year ago

2016 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	-	-	-	-	-	-
2019 Jan	0.3	0.3	0.2	-0.1	0.1	2.1
Feb	0.2	0.4	-0.1	-0.3	0.7	3.9

1 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.

IOP5R
continued

Output of the Production Industries
Chained volume indices of gross value added[1]

	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
2014	-	-	-	-	-	-	-
2015	-	-	-	-	-	-	-
2016	-	-	-	-	-	-	-
2017	-	-	-	-	-	-	-
2018	-	-	-	-	-	-	-
2017 Q4	-	-	-	-	-	-	-
2018 Q1	-	-	-	-	-	-	-
Q2	-	-	-	-	-	-	-
Q3	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-
2017 Dec	-	-	-	-	-	-	-
2018 Jan	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-
Apr	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-
2019 Jan	-0.8	1.1	0.3	0.3	-0.3	0.8	0.5
Feb	-1.6	0.8	1.3	-0.2	-0.9	1.4	0.6

Percentage change, latest year on previous year

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

Percentage change, latest month on same month a year ago

2016 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	-	-	-	-	-	-	-
2019 Jan	-0.8	1.1	0.3	0.3	-0.2	0.7	0.4
Feb	-1.8	0.7	1.1	-0.2	-0.9	1.4	0.5

1 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.

IOP5R
_{continued}

Output of the Production Industries
Chained volume indices of gross value added[1]

	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
Section	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

		CA	CB	CC	CD	CE	CF
2016	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	-	-	-	-	-	-
2019	Jan	0.2	0.3	0.1	-0.1	0.1	2.1
	Feb	-	0.1	-0.1	-0.2	0.6	1.7

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

		CA	CB	CC	CD	CE	CF
2016	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	-	-	-	-	-	-
2019	Jan	0.1	0.1	-	-	0.1	0.7
	Feb	0.1	0.2	-	-0.1	0.3	2.1

1   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.

Output of the Production Industries
Chained volume indices of gross value added[1]

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 month on previous month

2016	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	-	-	-	-	-	-	-
2019	Jan	-0.8	1.1	0.3	0.3	-0.3	0.8	0.4
	Feb	-0.9	-0.4	0.8	-0.5	-0.6	0.7	-

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

2016	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	-	-	-	-	-	-	-
2019	Jan	-0.3	0.3	0.1	0.1	-0.1	0.2	0.2
	Feb	-0.9	0.6	0.5	-	-0.3	0.7	0.3

1   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.

IOP5R
_{continued}

Output of the Production Industries
Chained volume indices of gross value added[1]

Seasonally adjusted 2016 = 100

	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
Section	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 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	-	-	-	-	-	-
2019 Jan	0.1	0.1	-	-0.1	-	0.7
Feb	0.2	0.3	-	-0.1	0.3	1.9

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1 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.

IOP5R
_{continued}

Output of the Production Industries
Chained volume indices of gross value added[1]

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

		CG	CH	CI	CJ	CK	CL	CM
2016	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	-	-	-	-	-	-	-
2019	Jan	-0.2	0.3	0.1	0.1	-0.1	0.2	0.1
	Feb	-0.8	0.6	0.4	-	-0.4	0.7	0.3

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