

Statistical bulletin

Index of Production, UK: June 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 fell by 1.4% for Quarter 2 (Apr to Jun) 2019, compared with Quarter 1 (Jan to Mar) 2019 reversing the 1.1% increase in Quarter 1 2019.
- To add further context to the volatility in growth during Quarter 1 2019 and Quarter 2 2019, the six months to June 2019 compared to the six months to December 2018 results in 0.0% growth in both the Index of Production and Index of Manufacturing.
- The quarterly fall in manufacturing of 1.4% is the strongest fall since Quarter 1 2009, due mainly to widespread weakness with 10 of the 13 subsectors decreasing; led by strong decreases from transport equipment (5.2%), chemicals and chemical products (6.2%) and basic metals (2.4%).
- Production output fell by 0.1% between May 2019 and June 2019 despite rises from three of the four main sectors; the manufacturing sector provided the only downward contribution, falling by 0.2%.
- Monthly manufacturing output highlights a mixed picture with only 7 of the 13 subsectors falling, so overall growth is due mainly to falls in basic metals (2.8%) and computer, electronic and optical products (3.5%).
- For Quarter 2 (Apr to Jun) 2019 compared with Quarter 2 2018, production output decreased by 0.5%, with falls in manufacturing (0.9%) and electricity and gas (0.3%); partially offset by rises in mining and quarrying (1.9%) and water and waste of (0.9%).

2 . Things you need to know about this release

This June 2019 release contains revisions from April 2019 onwards, and is consistent with the [national accounts revisions policy](#).

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 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.

Blue Book 2019

Each year we produce an annual update to the UK National Accounts in the Blue Book and Pink Book and the associated releases. As already announced, the Blue Book and Pink Book 2019-consistent datasets will be published on 30 September 2019.

Details have already been provided on the scope in the article [Latest developments and changes to be implemented in Blue Book and Pink Book 2019](#). Indicative impacts on headline gross domestic product (GDP) components for the years 1997 to 2016 were published on 27 June 2019 in the article Blue Book 2019 indicative impacts on GDP current price and chained volume measure estimates: 1997 to 2016.

This year, due to the very demanding set of changes being put through in the annual update, we are exceptionally not going to fully reconcile 2017 annual data, instead producing an indicative balance to allow further time for final quality assurance of the data.

Consequently, the reference year and last base year for all chained volume measure series will remain as 2016.

3 . Production in detail

Figure 1 shows 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 7.1% and 3.4% lower respectively for June 2019 than the pre-downturn peak in February 2008.

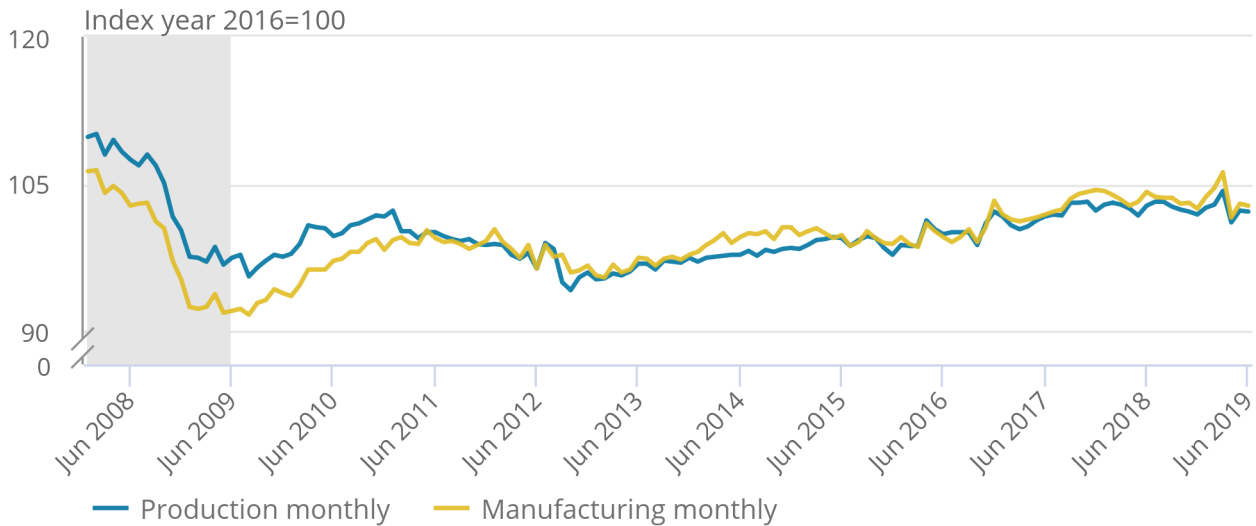
For further detail on the longer-term trend within manufacturing, please see an article titled [Manufacturing sector performance, UK: 2008 to 2018](#), which was published on 2 April 2019. This provides an overview of the changes in the manufacturing sector between 2008 and 2018 focusing on the industries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

Figure 1: The Index of Production and the Index of Manufacturing remain below their pre-economic downturn peak

Index of Production and Index of Manufacturing, seasonally adjusted, UK, January 2008 to June 2019

Figure 1: The Index of Production and the Index of Manufacturing remain below their pre-economic downturn peak

Index of Production and Index of Manufacturing, seasonally adjusted, UK, January 2008 to June 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 IoP and production sectors for June 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, June 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	-1.41	-0.5	-0.52	-0.1	-0.09
Sector B	Total Mining and Quarrying	-0.4	-0.03	1.9	0.15	0.1	0.01
5	Coal and Lignite	-11.0	0.00	-16.6	-0.01	-21.3	-0.01
6	Crude petroleum and Natural gas	-0.1	-0.01	0.8	0.04	0.6	0.03
789	Other mining and quarrying	-0.7	-0.02	4.8	0.11	-0.7	-0.02
Sector C	Total Manufacturing	-2.3	-1.75	-0.9	-0.70	-0.2	-0.15
CA	Food, beverages and tobacco	-1.7	-0.20	1.4	0.16	-1.1	-0.13
CB	Textiles and leather products	0.0	0.00	2.9	0.09	1.6	0.05
CC	Wood, paper and printing	-2.0	-0.11	-1.6	-0.09	0.2	0.01
CD	Coke and petroleum	-6.5	-0.07	0.0	0.00	-4.4	-0.04
CE	Chemical products	-6.2	-0.33	-0.6	-0.03	-0.1	0.00
CF	Pharmaceutical products	-3.3	-0.19	-1.1	-0.06	3.8	0.21
CG	Rubber and plastic products	-0.8	-0.05	1.9	0.11	0.4	0.02
CH	Metal products	-2.4	-0.21	-0.1	-0.01	-2.8	-0.24
CI	Computer, electronic and optical	0.3	0.01	4.7	0.18	-3.5	-0.14
CJ	Electrical equipment	5.1	0.12	12.5	0.28	-0.6	-0.01
CK	Machinery and equipment	-1.7	-0.08	-5.9	-0.30	0.4	0.02
CL	Transport equipment	-5.2	-0.57	-7.7	-0.86	2.2	0.23
CM	Other manufacturing and repair	-1.1	-0.07	-2.6	-0.18	-1.9	-0.13
Sector D	Total Electricity and Gas	2.5	0.29	-0.3	-0.04	0.3	0.03

35.1	Electric power generation, transmission and distribution	2.2	0.19	-1.7	-0.15	0.3	0.02
35.2-3	Manufacture of gas; distribution of gaseous fuels through mains; steam and aircon supply	3.2	0.11	3.4	0.11	0.3	0.01
Sector E	Total Water and Waste	1.0	0.07	0.9	0.06	0.3	0.02
36	Water collection, treatment and supply	-0.4	-0.01	-0.5	-0.01	-0.8	-0.02
37	Sewerage	3.0	0.06	-3.9	-0.08	0.5	0.01
38	Waste collection, treatment and disposal activities; materials recovery	0.5	0.02	5.1	0.15	1.0	0.03
39	Remediation activities and other waste management services	3.9	0.00	9.0	0.01	-2.2	0.00

Source: Office for National Statistics - Index of Production

4 . What is contributing to the quarterly decrease?

Total production output for Quarter 2 (Apr to Jun) 2019 decreased by 1.4%, following a rise of 1.1% in Quarter 1 (Jan to Mar) 2019. The fall during Quarter 2 2019 is the strongest since Quarter 4 (Oct to Dec) 2012, when output fell by 2.3%. To add further context to the volatility in growth during Quarter 1 2019 and Quarter 2 2019, the six months to June 2019 compared to the six months to December 2018 results in 0.0% growth in both the index of production and index of manufacturing.

Providing the largest downward contribution and notable weakness is total manufacturing output, which fell by 2.3%, the strongest quarterly fall since Quarter 1 2009, when it fell by 5.4%. The negative growth in Quarter 2 2019 is consistent with the widespread early completion of orders that took place during Quarter 1 2019, in advance of the proposed departure date from the European Union at the end of March 2019. However, we are unable to quantify the effect of this and subsequently how much of the decline during Quarter 2 2019 is due to genuine weakness.

10 of the 13 subsectors display downward contributions to manufacturing growth (Figure 2), led by:

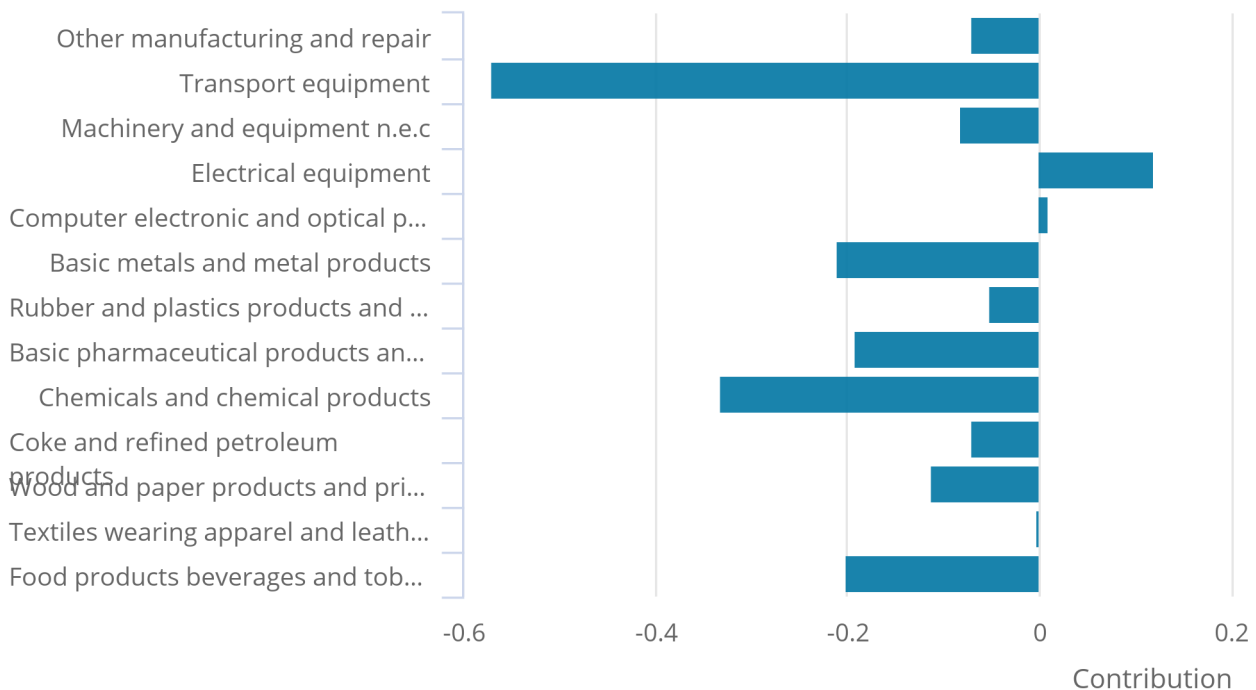
- Transport equipment (5.2%), see below for further commentary
- Chemicals and chemical products (6.2%) due to widespread weakness, resulting in the strongest quarterly fall since Quarter 1 2016
- Basic metals (2.4%) due to widespread weakness

Figure 2: There is widespread weakness across manufacturing with 10 of the 13 subsectors decreasing

Contribution to the Index of Production by manufacturing industries, three-month on three-month, seasonally adjusted, UK, June 2019

Figure 2: There is widespread weakness across manufacturing with 10 of the 13 subsectors decreasing

Contribution to the Index of Production by manufacturing industries, three-month on three-month, seasonally adjusted, UK, June 2019



Source: Office for National Statistics - Index of Production

The decline of 5.2% in transport equipment is led by a continuation of longer-term weakness within motor vehicles, trailers and semi-trailers, which fell by 9.5%. This is the largest quarterly fall within this sub-industry since Quarter 1 2009, when it fell by 23.3%. The most recent quarterly weakness was due mainly to the impact of planned shutdowns within this industry in April 2019.

In addition, weak domestic sales and a gradual decline in export sales within motor vehicles, trailers and semi-trailers, since a peak in October 2017 (see our [Monthly Business Survey turnover in production industries dataset](#) for more information), have also contributed to the recent decline in the index level, with anecdotal evidence from respondents confirming weakening domestic and global demand.

Mining and quarrying output decreased by 0.4%. This was due mainly to notable strength during Quarter 1 2019, with strong growth in the monthly index (1.7%) during March 2019, due to newer oil fields increasing production.

The increase of 2.5% within electricity and gas supply was driven by an increase of 2.2% from electricity generation and distribution, supported by gas distribution, which increased by 3.2%.

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

Despite rises from three of the four main sectors, monthly total production output fell by 0.1% in June 2019, due to a decrease in manufacturing of 0.2%.

Growth within manufacturing during June 2019 highlights a mixed picture, with only 7 of the 13 subsectors displaying negative output. Therefore, it is the largest downward contributions that drive overall weakness, led by:

- Basic metals (2.8%), driven by a strong fallback in weapons and ammunition (19.9%), following notable strength during May 2019; this sub-industry can be volatile due to the completion of high value contracts
- Computer, electronic and optical products (3.5%), the strongest fall since July 2017 due mainly to cumulative weakness from large businesses
- Food, beverages and tobacco (1.1%) due mainly to weakness from meat products, alcoholic beverages and soft drinks
- Other manufacturing and repair (1.9%) due to a strong decline from the manufacture of furniture (4.2%), the strongest fall since August 2015

Partially offsetting overall weakness within manufacturing and providing the largest upward contributions, were pharmaceutical products (3.8%) and transport equipment (2.2%).

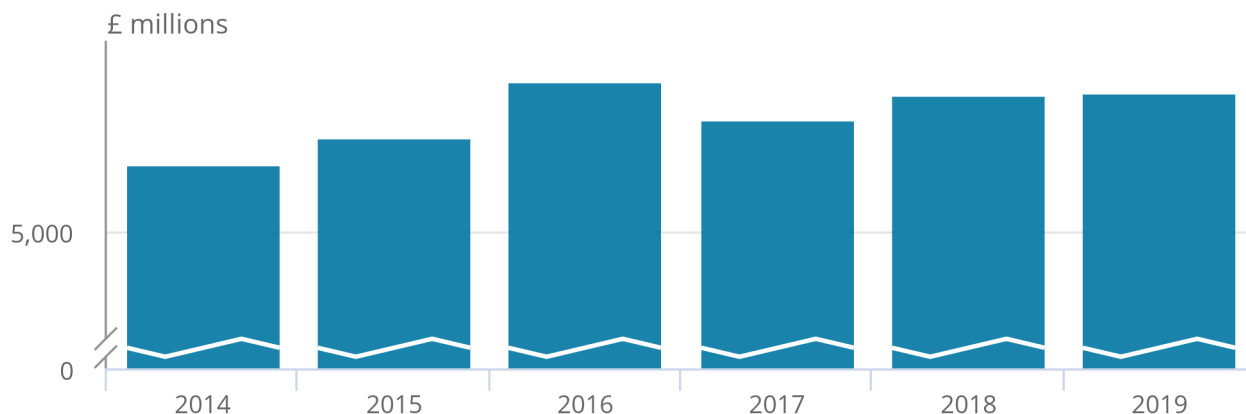
Within transport equipment, motor vehicles, trailers and semi-trailers rose by 5.1%. Despite the recent fluctuations in the monthly index for this subindustry, during April 2019 and May 2019, nominal total turnover during June 2019 has returned to normal levels compared with the previous five years (see Figure 3).

Figure 3: A return to normal turnover figures is seen in the nominal data for motor vehicles, trailers and semi-trailers

Total nominal turnover values for motor vehicles, trailers and semi-trailers, June 2014-2019, UK non-seasonally adjusted

Figure 3: A return to normal turnover figures is seen in the nominal data for motor vehicles, trailers and semi-trailers

Total nominal turnover values for motor vehicles, trailers and semi-trailers, June 2014-2019, UK non-seasonally adjusted



Source: Office for National Statistics - Monthly Business Survey

There were minimal upward contributions from the remaining three main sectors.

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

Total production output for Quarter 2 (Apr to June) 2019 decreased by 0.5%, compared with Quarter 2 (2018).

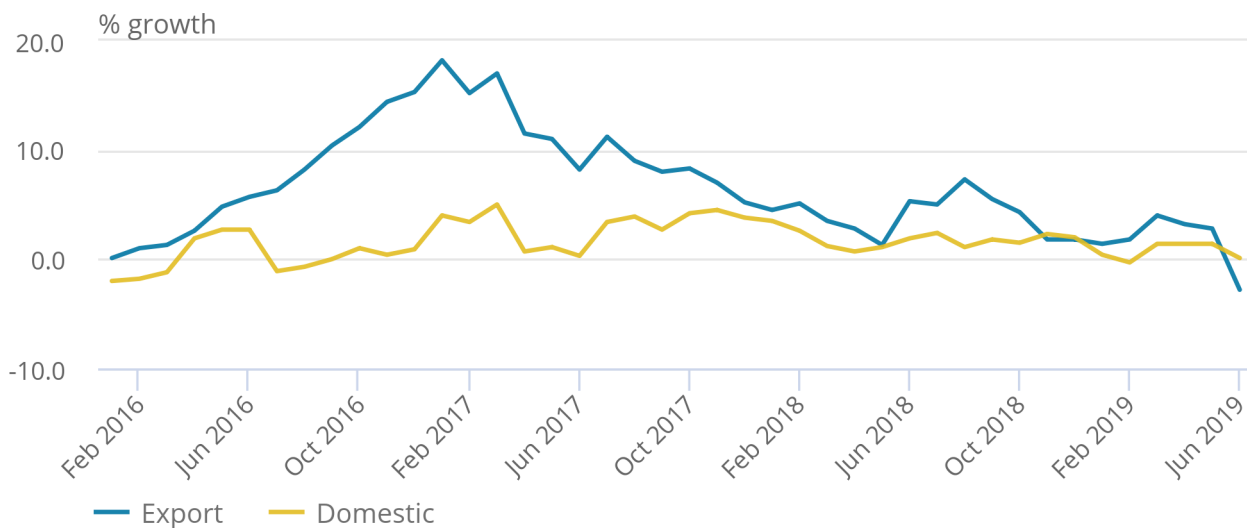
Providing the largest downward contribution was manufacturing, which fell by 0.9%, with 7 of the 13 subsectors decreasing. Weaker output is largely due to the significant decline in the monthly index during April 2019. Also underpinning overall weakness is a further decline in nominal total export turnover, which has fallen by 2.8% during Quarter 2 2019 compared with Quarter 2 2018. In contrast nominal total domestic turnover remains stagnant at 0.1% (Figure 4).

Figure 4: Following a peak in January 2017, total manufacturing export turnover has gradually declined to a negative growth rate for Quarter 2 2019 compared with Quarter 2 2018

Total manufacturing export and domestic turnover, Quarter 1 (Jan to Mar 2016) to Quarter 2 (Apr to Jun) 2019, current price, non-seasonally adjusted, UK

Figure 4: Following a peak in January 2017, total manufacturing export turnover has gradually declined to a negative growth rate for Quarter 2 2019 compared with Quarter 2 2018

Total manufacturing export and domestic turnover, Quarter 1 (Jan to Mar 2016) to Quarter 2 (Apr to Jun) 2019, current price, non-seasonally adjusted, UK



Source: Office for National Statistics - Monthly Business Survey

Within manufacturing, transport equipment fell by 7.7%, due to the ongoing decline in the index of motor vehicles, trailers and semi-trailers, which fell by 14.1%. Underpinning much of the weakness within this subindustry, is a decrease in nominal total turnover of 9.6% for Quarter 2 2019 compared with Quarter 2 2018, which was heavily influenced by significant weakness from both export and domestic turnover during April 2019 (see our [Monthly Business Survey turnover in production industries dataset](#)).

Also providing a notable downwards contribution was machinery and equipment, which fell by 5.9%, a continuation of ongoing weakness since August 2018.

Providing the largest upward contribution was mining and quarrying, which rose by 1.9%, due mainly to widespread strength within other mining and quarrying, which increased by 4.8% and supported by a rise of 0.8% from oil and gas extraction, a continuation of strength where an expansion in oil and gas fields coming online at the end of 2017, has steadily increased production from that point.

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 (9 August 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 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.

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](#).

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IOP5 Output of the Production Industries

Chained volume indices of gross value added¹

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	102.3	103.3	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 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	107.4	102.3	99.5	
2019 Q1	103.3	105.8	104.8	93.9	101.4	104.9	114.4	104.1	106.3	104.7	97.9	
Q2	101.9	105.4	102.4	96.3	102.4	104.8	115.0	101.6	102.9	103.3	98.9	
2018 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	102.6	102.8	103.7	96.9	101.3	101.0	111.8	102.6	105.4	103.5	98.8	
Feb	102.9	106.4	104.6	92.1	101.1	105.6	115.0	103.1	106.3	104.7	97.0	
Mar	104.3	108.2	106.2	92.7	101.9	108.2	116.3	106.5	107.1	105.8	97.8	
Apr	101.1 [†]	105.0 [†]	101.6 [†]	95.6 [†]	101.5 [†]	103.6 [†]	114.9	102.8 [†]	99.3 [†]	103.4 [†]	98.1 [†]	
May	102.3	105.5	103.0	96.4	102.7	105.1	117.2	100.6	105.0	103.3	99.2	
Jun	102.2	105.7	102.8	96.7	103.0	105.7	112.9	101.2	104.4	103.2	99.2	
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 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	-0.3	1.2	-0.6	-	0.9	-0.9	0.2	3.5	-5.0	0.9	0.7	
Feb	-0.2	4.3	0.6	-8.4	0.1	2.8	4.1	3.2	-3.6	3.0	-3.7	
Mar	1.4	9.4	2.7	-10.3	0.6	8.5	4.6	7.2	-2.0	4.7	-3.9	
Apr	-1.4 [†]	-0.8 [†]	-1.2 [†]	-4.3 [†]	1.2 [†]	-4.6 [†]	4.4 [†]	2.6 [†]	-7.8 [†]	2.8 [†]	-3.9 [†]	
May	0.5	3.9	0.5	1.8	1.5	3.9	4.7	-0.6	-2.3	2.2	2.4	
Jun	-0.6	2.8	-1.4	1.8	-0.1	3.5	1.1	-2.1	-2.7	0.8	1.6	

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.

IOP5 Output of the Production Industries

continued

Chained volume indices of gross value added¹

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	
Percentage change, latest month on previous month												
2017	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	0.7	-1.9	1.1	0.6	-1.0	-4.8	0.6	2.1	0.1	1.6	-0.8
	Feb	0.3	3.5	0.9	-4.9	-0.2	4.6	2.9	0.5	0.8	1.1	-1.8
	Mar	1.4	1.7	1.6	0.6	0.7	2.5	1.1	3.3	0.8	1.1	0.9
	Apr	-3.1 [†]	-2.9 [†]	-4.4 [†]	3.2 [†]	-0.4 [†]	-4.3 [†]	-1.2 [†]	-3.4 [†]	7.9 [†]	-2.3 [†]	0.2 [†]
	May	1.2	0.5	1.4	0.8	1.2	1.4	2.0	-2.1	5.8	-2.1	1.2
	Jun	-0.1	0.1	-0.2	0.3	0.3	0.6	-3.7	0.6	-0.6	-0.1	-
Percentage change, latest 3 months on same 3 months a year ago²												
2017	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	-0.6	8.3	-1.2	-2.5	-	11.3	3.7	2.0	-3.8	-1.0	1.8
	Feb	-0.3	9.0	-0.6	-4.4	0.2	11.1	2.8	2.6	-4.2	0.6	0.6
	Mar	0.3	4.9	0.9	-6.3	0.5	3.4	3.0	4.6	-3.5	2.9	-2.4
	Apr	-0.1 [†]	4.2	0.7 [†]	-7.7 [†]	0.6 [†]	2.1 [†]	4.4 [†]	4.3	-4.4 [†]	3.5	-3.8 [†]
	May	0.2	4.0 [†]	0.4	-4.5	1.1	2.4	4.6	3.0 [†]	-4.0	3.3 [†]	-1.9
	Jun	-0.5	1.9	-0.9	-0.3	0.9	0.8	3.4	-0.1	-4.3	2.0	-

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 Output of the Production Industries

continued

Chained volume indices of gross value added¹

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 months²												
2017	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	-0.5	-1.6	-0.3	-1.0	-0.9	-1.8	1.3	1.0	-1.3	-0.4	-1.2
	Feb	-	0.2	0.4	-1.8	-0.7	0.1	1.9	1.2	-0.6	0.7	-1.1
	Mar	1.1	0.9	1.9	-2.8	-0.8	-0.1	2.8	3.3	0.6	2.3	-1.6
	Apr	0.5 †	2.6 †	1.0 †	-3.2 †	-0.4 †	2.1 †	3.5 †	2.6 †	-1.2 †	2.1 †	-1.5 †
	May	0.1	1.5	-	-0.2	0.4	1.4	3.1	1.2	-1.7	0.8	-
	Jun	-1.4	-0.4	-2.3	2.5	1.0	-0.1	0.5	-2.4	-3.2	-1.3	1.0

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 Output of the Production Industries

Chained volume indices of gross value added¹

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	102.7	102.6	102.2	97.3	103.0	98.6
2018 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	105.8	106.4	102.8	103.0	107.8	104.0
Q2	104.0	106.4	100.8	96.3	101.0	100.5
2018 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	104.9	103.6	102.8	102.8	107.6	101.1
Feb	105.6	106.0	102.3	105.9	108.1	101.4
Mar	107.0	109.4	103.3	100.2	107.6	109.4
Apr	105.3 ^T	107.6 ^T	102.6 ^T	96.1 ^T	100.3 ^T	100.8 ^T
May	103.9	104.9	99.7	98.5	101.5	98.5
Jun	102.8	106.6	100.0	94.2	101.4	102.3

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 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	3.7	3.2	0.4	8.9	5.2	3.7
Feb	4.0	8.9	0.1	16.2	4.4	2.6
Mar	5.1	9.2	1.5	5.4	6.5	13.5
Apr	3.4 ^T	5.7 ^T	1.2 ^T	-0.7 ^T	-0.1 ^T	2.0 ^T
May	1.0	0.6	-3.1	4.1	-0.3	-1.2
Jun	-0.2	2.3	-2.8	-3.3	-1.3	-3.8

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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 added¹

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	99.9	101.9	114.8	96.7	111.6	104.2	106.3
2018 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	102.2	103.1	120.1	102.7	107.2	101.3	104.6
Q2	101.4	100.6	120.5	108.0	105.3	96.0	103.5
2018 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	101.1	102.3	117.0	99.2	107.5	100.5	103.4
Feb	102.3	103.3	121.3	101.2	107.1	101.1	104.2
Mar	103.3	103.6	122.0	107.9	106.9	102.3	106.2
Apr	101.6 ^T	99.9 ^T	120.0 ^T	108.7 ^T	105.2 ^T	88.1	103.7 ^T
May	101.1	102.3	122.9	107.9	105.2	98.8 ^T	104.3
Jun	101.6	99.5	118.6	107.3	105.6	101.0	102.3

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 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	1.8	-1.4	1.2	-0.9	-9.7	-6.4	-4.3
Feb	4.9	-2.8	5.8	3.4	-5.9	-5.9	-1.3
Mar	5.2	-0.6	6.2	12.1	-8.3	-2.0	-1.0
Apr	4.1 ^T	-1.7 ^T	5.5 ^T	12.5 ^T	-7.9 ^T	-15.0	-2.2 ^T
May	2.2	3.3	5.7	11.5	-5.1	-5.4 ^I	-1.5
Jun	-0.6	-1.8	2.9	13.5	-4.6	-2.8	-4.1

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

^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 added¹

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
Percentage change, latest month on previous month						
2017						
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	2.1	0.2	1.4	4.1	1.7	3.5
Feb	0.7	2.3	-0.4	3.0	0.5	0.4
Mar	1.3	3.2	1.0	-5.3	-0.5	7.9
Apr	-1.6 [†]	-1.7 [†]	-0.7 [†]	-4.1 [†]	-6.8 [†]	-7.9 [†]
May	-1.3	-2.5	-2.8	2.5	1.2	-2.3
Jun	-1.1	1.6	0.2	-4.4	-0.1	3.8
Percentage change, latest 3 months on same 3 months a year ago						
2017						
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	0.3	-0.2	3.4	3.8	2.9
Feb	3.2	3.7	-0.5	8.4	4.9	2.7
Mar	4.2	7.1	0.6	10.1	5.4	6.6
Apr	4.2 [†]	7.9 [†]	0.9 [†]	6.8 [†]	3.6	6.0 [†]
May	3.2	5.1	-0.1	2.9	2.0 [†]	4.7
Jun	1.4	2.9	-1.6	-	-0.6	-1.1

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.

IOP5 Output of the Production Industries

continued

Chained volume indices of gross value added¹

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	
Percentage change, latest month on previous month¹								
2017	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	0.4	3.7	1.4	2.4	-1.3	-1.4	-0.4
	Feb	1.2	1.0	3.7	2.0	-0.4	0.7	0.7
	Mar	1.0	0.3	0.6	6.7	-0.2	1.2	1.9
	Apr	-1.7 [†]	-3.6 [†]	-1.7 [†]	0.8 [†]	-1.6 [†]	-13.9 [†]	-2.3 [†]
	May	-0.4	2.4	2.4	-0.7	-	12.2	0.6
	Jun	0.4	-2.8	-3.5	-0.6	0.4	2.2	-1.9
Percentage change, latest 3 months on same 3 months a year ago								
2017	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	0.5	-5.6	4.6	-5.9	-7.1	-3.9	-3.4
	Feb	2.6	-4.6	4.1	-2.2	-7.3	-5.1	-3.6
	Mar	4.0	-1.6	4.4	4.8	-8.0	-4.8	-2.2
	Apr	4.7 [†]	-1.7 [†]	5.9 [†]	9.3 [†]	-7.4	-7.6	-1.5 [†]
	May	3.8	0.3	5.8	12.0	-7.1 [†]	-7.5 [†]	-1.6
	Jun	1.9	-0.1	4.7	12.5	-5.9	-7.7	-2.6

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IOP5 Output of the Production Industries

Chained volume indices of gross value added¹

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						
2017						
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	-0.2	1.3	-0.8	1.9	2.6
Feb	1.1	1.5	-0.3	2.5	2.7	0.8
Mar	2.6	3.4	0.6	4.1	3.2	5.0
Apr	2.4 [†]	4.3 [†]	0.1 [†]	0.5 [†]	-0.3	3.9 [†]
May	1.0	2.8	-0.2	-4.1	-3.7 [†]	2.9
Jun	-1.7	-	-2.0	-6.5	-6.2	-3.3

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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.

IOP5 Output of the Production Industries

continued

Chained volume indices of gross value added¹

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

Percentage change, latest 3 months on previous 3 months

2017	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	0.4	-2.4	1.7	1.3	-0.5	-2.5	-1.3	
	Feb	0.6	0.5	3.3	2.8	-0.8	-1.2	-2.4	
	Mar	1.4	3.4	4.2	6.2	-1.5	-0.2	-0.8	
	Apr	1.4 [†]	2.4 [†]	4.5 [†]	8.6 [†]	-1.9 [†]	-4.0 [†]	- [†]	
	May	0.6	0.5	3.2	9.2	-1.9	-4.7 [†]	0.9	
	Jun	-0.8	-2.4	0.3	5.1	-1.7	-5.2	-1.1	

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.

- [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
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IOP5R

Output of the Production Industries Chained volume indices of gross value added¹

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	-	-	-	-	-	-	-	-	-	-	-
2018 Q1	-	-	-	-	-	-	-	-	-	-	-
Q2	-	-	-	-	-	-	-	-	-	-	-
Q3	-	-	-	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-	-	-	-
2019 Q1	-	-	-	-	-	-	-	-	-	-	-
2018 Mar	-	-	-	-	-	-	-	-	-	-	-
Apr	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-	-	-	-	-
2019 Jan	-	-	-	-	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-	-	-	-	-
Apr	-0.2	-0.2	-0.2	-0.5	-0.7	-0.4	-0.7	-0.1	-0.6	0.2	-0.4
May	-0.4	-0.1	-0.2	-1.8	-0.4	-0.2	-1.1	-0.1	-0.7	0.1	-1.1
Percentage change, latest year on previous year											
2014	-	-	-	-	-	-	-	-	-	-	-
2015	-	-	-	-	-	-	-	-	-	-	-
2016	-	-	-	-	-	-	-	-	-	-	-
2017	-	-	-	-	-	-	-	-	-	-	-
2018	-	-	-	-	-	-	-	-	-	-	-
Percentage change, latest month on same month a year ago											
2017 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	-	-	-	-	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-	-	-	-	-
Apr	-0.3	-0.1	-0.2	-0.5	-0.7	-0.4	-0.7	-0.1	-0.6	0.1	-0.4
May	-0.4	-0.1	-0.2	-1.8	-0.3	-0.2	-1.0	-	-0.6	0.1	-1.1

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.

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
Percentage change, latest month on previous month											
2017	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	-	-	-	-	-	-	-	-	-	-
	Feb	-	-	-	-	-	-	-	-	-	-
	Mar	-	-	-	-	-	-	-	-	-	-
	Apr	-0.2	-0.1	-0.2	-0.5	-0.7	-0.4	-0.6	-0.1	-0.6	0.2
	May	-0.2	0.1	-	-1.3	0.3	0.2	-0.3	-	-	-0.1
Percentage change, latest 3 months on same 3 months a year ago											
2017	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	-	-	-	-	-	-	-	-	-	-
	Feb	-	-	-	-	-	-	-	-	-	-
	Mar	-	-	-	-	-	-	-	-	-	-
	Apr	-0.1	-	-0.1	-0.1	-0.2	-0.1	-0.2	-	-0.2	-0.1
	May	-0.2	-0.1	-0.2	-0.8	-0.3	-0.2	-0.5	-0.1	-0.4	0.1

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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
Percentage change, latest 3 months on previous 3 months											
2017	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	-	-	-	-	-	-	-	-	-	-
	Feb	-	-	-	-	-	-	-	-	-	-
	Mar	-	-	-	-	-	-	-	-	-	-
	Apr	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.1	-0.2	0.1	-0.1
	May	-0.2	-0.1	-0.1	-0.8	-0.4	-0.2	-0.6	-0.1	-0.4	-0.5

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Output of the Production Industries

Chained volume indices of gross value added¹

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	-	-	-	-	-	-
2015	-	-	-	-	-	-
2016	-	-	-	-	-	-
2017	-	-	-	-	-	-
2018	-	-	-	-	-	-
2018 Q1	-	-	-	-	-	-
2018 Q2	-	-	-	-	-	-
2018 Q3	-	-	-	-	-	-
2018 Q4	-	-	-	-	-	-
2019 Q1	-	-	-	-	-	-
2018 Mar	-	-	-	-	-	-
2018 Apr	-	-	-	-	-	-
2018 May	-	-	-	-	-	-
2018 Jun	-	-	-	-	-	-
2018 Jul	-	-	-	-	-	-
2018 Aug	-	-	-	-	-	-
2018 Sep	-	-	-	-	-	-
2018 Oct	-	-	-	-	-	-
2018 Nov	-	-	-	-	-	-
2018 Dec	-	-	-	-	-	-
2019 Jan	-	-	-	-	-	-
2019 Feb	-	-	-	-	-	-
2019 Mar	-	-	-	-	-	-
2019 Apr	-0.4	-2.3	-0.6	-0.5	-0.1	1.1
2019 May	-0.3	-2.6	-1.4	-0.1	-0.3	1.6

Percentage change, latest year on previous year

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

Percentage change, latest month on same month a year ago

2017 Mar	-	-	-	-	-	-
2017 Apr	-	-	-	-	-	-
2017 May	-	-	-	-	-	-
2017 Jun	-	-	-	-	-	-
2017 Jul	-	-	-	-	-	-
2017 Aug	-	-	-	-	-	-
2017 Sep	-	-	-	-	-	-
2017 Oct	-	-	-	-	-	-
2017 Nov	-	-	-	-	-	-
2017 Dec	-	-	-	-	-	-
2018 Jan	-	-	-	-	-	-
2018 Feb	-	-	-	-	-	-
2018 Mar	-	-	-	-	-	-
2018 Apr	-	-	-	-	-	-
2018 May	-	-	-	-	-	-
2018 Jun	-	-	-	-	-	-
2018 Jul	-	-	-	-	-	-
2018 Aug	-	-	-	-	-	-
2018 Sep	-	-	-	-	-	-
2018 Oct	-	-	-	-	-	-
2018 Nov	-	-	-	-	-	-
2018 Dec	-	-	-	-	-	-
2019 Jan	-	-	-	-	-	-
2019 Feb	-	-	-	-	-	-
2019 Mar	-	-	-	-	-	-
2019 Apr	-0.3	-2.3	-0.7	-0.5	-0.1	1.2
2019 May	-0.3	-2.5	-1.2	-0.1	-0.3	1.6

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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.

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continued

Output of the Production Industries

Chained volume indices of gross value added¹

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	-	-	-	-	-	-	-
2018 Q1	-	-	-	-	-	-	-
2018 Q2	-	-	-	-	-	-	-
2018 Q3	-	-	-	-	-	-	-
2018 Q4	-	-	-	-	-	-	-
2019 Q1	-	-	-	-	-	-	-
2018 Mar	-	-	-	-	-	-	-
2018 Apr	-	-	-	-	-	-	-
2018 May	-	-	-	-	-	-	-
2018 Jun	-	-	-	-	-	-	-
2018 Jul	-	-	-	-	-	-	-
2018 Aug	-	-	-	-	-	-	-
2018 Sep	-	-	-	-	-	-	-
2018 Oct	-	-	-	-	-	-	-
2018 Nov	-	-	-	-	-	-	-
2018 Dec	-	-	-	-	-	-	-
2019 Jan	-	-	-	-	-	-	-
2019 Feb	-	-	-	-	-	-	-
2019 Mar	-	-	-	-	-	-	-
2019 Apr	-0.1	0.5	-0.9	1.7	0.3	-	-1.9
2019 May	-0.1	0.3	-1.4	1.9	0.5	-0.2	-1.6
Percentage change, latest year on previous year							
2014	-	-	-	-	-	-	-
2015	-	-	-	-	-	-	-
2016	-	-	-	-	-	-	-
2017	-	-	-	-	-	-	-
2018	-	-	-	-	-	-	-
Percentage change, latest month on same month a year ago							
2017 Mar	-	-	-	-	-	-	-
2017 Apr	-	-	-	-	-	-	-
2017 May	-	-	-	-	-	-	-
2017 Jun	-	-	-	-	-	-	-
2017 Jul	-	-	-	-	-	-	-
2017 Aug	-	-	-	-	-	-	-
2017 Sep	-	-	-	-	-	-	-
2017 Oct	-	-	-	-	-	-	-
2017 Nov	-	-	-	-	-	-	-
2017 Dec	-	-	-	-	-	-	-
2018 Jan	-	-	-	-	-	-	-
2018 Feb	-	-	-	-	-	-	-
2018 Mar	-	-	-	-	-	-	-
2018 Apr	-	-	-	-	-	-	-
2018 May	-	-	-	-	-	-	-
2018 Jun	-	-	-	-	-	-	-
2018 Jul	-	-	-	-	-	-	-
2018 Aug	-	-	-	-	-	-	-
2018 Sep	-	-	-	-	-	-	-
2018 Oct	-	-	-	-	-	-	-
2018 Nov	-	-	-	-	-	-	-
2018 Dec	-	-	-	-	-	-	-
2019 Jan	-	-	-	-	-	-	-
2019 Feb	-	-	-	-	-	-	-
2019 Mar	-	-	-	-	-	-	-
2019 Apr	-0.2	0.5	-0.8	1.7	0.2	-	-1.7
2019 May	-	0.4	-1.2	2.1	0.5	-0.2	-1.4

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continued

Output of the Production Industries

Chained volume indices of gross value added¹

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

2017	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	-	-	-	-	-	-
	Feb	-	-	-	-	-	-
	Mar	-	-	-	-	-	-
	Apr	-0.4	-2.2	-0.6	-0.5	-0.1	1.0
	May	0.1	-0.3	-0.7	0.4	-0.2	0.5

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

2017	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	-	-	-	-	-	-
	Feb	-	-	-	-	-	-
	Mar	-	-	-	-	-	-
	Apr	-0.1	-0.8	-0.2	-0.1	-	0.4
	May	-0.2	-1.6	-0.6	-0.2	-0.2	0.9

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.

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†

2017	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	-	-	-	-	-	-	-
	Feb	-	-	-	-	-	-	-
	Mar	-	-	-	-	-	-	-
	Apr	-0.2	0.5	-0.8	1.6	0.2	-0.1	-1.7
	May	0.2	-0.2	-0.4	0.3	0.2	-0.2	0.3

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

2017	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	-	-	-	-	-	-	-
	Feb	-	-	-	-	-	-	-
	Mar	-	-	-	-	-	-	-
	Apr	-0.1	0.2	-0.2	0.6	-	-	-0.6
	May	-0.1	0.3	-0.7	1.2	0.3	-0.1	-1.1

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IOP5R

continued

Output of the Production Industries

Chained volume indices of gross value added¹

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

2017	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	-	-	-	-	-	
	Feb	-	-	-	-	-	
	Mar	-	-	-	-	-	
	Apr	-0.1	-0.8	-0.2	-0.2	0.4	
	May	-0.2	-1.6	-0.6	-0.2	-0.1	0.9

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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.

Output of the Production Industries

Chained volume indices of gross value added¹

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

Percentage change, latest 3 months on previous 3 months

2017	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	-	-	-	-	-	-	-
	Feb	-	-	-	-	-	-	-
	Mar	-	-	-	-	-	-	-
	Apr	-0.1	0.2	-0.3	0.6	0.1	-	-0.5
	May	-0.1	0.3	-0.7	1.2	0.3	-0.1	-1.1

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