

Statistical bulletin

Index of Production, UK: July 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 0.5% for the three months to July 2019, compared with the three months to April 2019; falls in manufacturing (1.1%) and mining and quarrying (1.2%) were partially offset by rises in electricity and gas (2.8%) and water and waste (1.7%).
- The three-monthly fall in manufacturing of 1.1% is because of widespread weakness with 11 of the 13 subsectors decreasing; this was led by food, beverages and tobacco (2.4%) and chemicals and chemical products (4.8%).
- Production output rose by 0.1% between June 2019 and July 2019; manufacturing provided the largest upward contribution (0.3%), supported by water and waste (1.1%) and partially offset by falls in electricity and gas (1.4%) and mining and quarrying (1.2%).
- Monthly manufacturing output highlights a mixed picture with 7 of the 13 subsectors rising, led by basic pharmaceutical products, which increased by 3.8%.
- For the three months to July 2019, production output decreased by 0.3%, compared with the same three months to July 2018; this was because of a fall in manufacturing of 0.7%, which was partially offset by rises from mining and quarrying (1.7%) and water and waste (0.7%).

2 . Things you need to know about this release

This July 2019 release contains no revisions and is consistent with the [National Accounts Revisions Policy](#).

Further to this release, the quarterly national accounts published on 30 September 2019 will include the annual updates from the Blue Book and Pink Book 2019 (published 31 October 2019). This will contain revised production data from January 1997 to June 2019. These revised data will also include Value Added Tax (VAT) data for the first time in Quarter 4 (Oct to Dec) 2018 and Quarter 1 (Jan to Mar) 2019.

The Index of Production (IoP) is an important economic indicator and one of the short-term measures of economic activity in the UK. It is used in the compilation of gross domestic product (GDP); the production industries' weight accounts for 13.8% of the [output approach to the measurement of GDP](#).

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

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

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. 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 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, owing to the very demanding set of changes being put through in the annual update, we are going to make an exception and are not going to fully reconcile 2017 annual data. Instead, we will produce 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 3.1% lower, respectively, for July 2019 than the pre-downturn peak in February 2008.

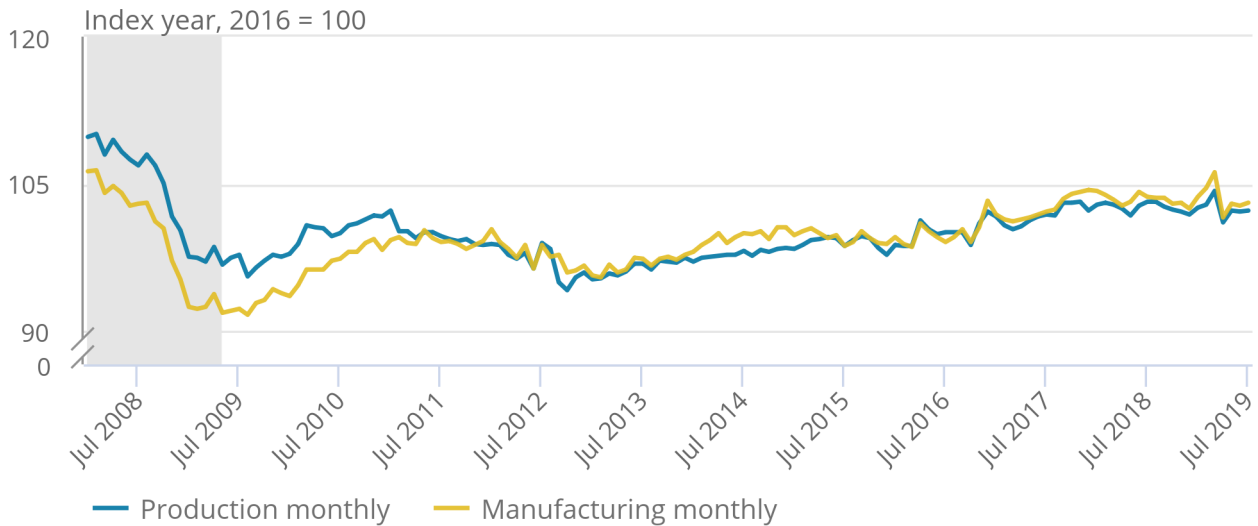
For further detail on the longer-term trend within manufacturing, please see an article titled [Manufacturing sector performance, UK: 2008 to 2018](#), which was published on 2 April 2019. This provides an overview of the changes in the manufacturing sector between 2008 and 2018, focusing on the industries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

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

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

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

Index of Production and Index of Manufacturing, seasonally adjusted, UK, January 2008 to July 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 production sectors for July 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
Seasonally adjusted estimates, UK, July 2019

Sector	Summary Description	Three months on previous three months		Three months on same three months a year ago		Month on previous month	
		Growth (%)	Contribution to production (% points)	Growth (%)	Contribution to production (% points)	Growth (%)	Contribution to production (% points)
IoP	Index of Production	-0.5	-0.5	-0.3	-0.4	0.1	0.1
Sector B	Total Mining and Quarrying	-1.2	-0.1	1.7	0.1	-1.2	-0.1
5	Coal and Lignite	2.7	0.0	-1.8	0.0	32.1	0.0
6	Crude petroleum and Natural gas	-1.1	-0.1	1.2	0.1	-2.5	-0.1
789	Other mining and quarrying	-1.4	0.0	2.8	0.1	1.7	0.0
Sector C	Total Manufacturing	-1.1	-0.9	-0.7	-0.5	0.3	0.2
CA	Food, beverages and tobacco	-2.4	-0.3	0.2	0.0	0.8	0.1
CB	Textiles and leather products	-1.0	0.0	1.6	0.1	1.7	0.1
CC	Wood, paper and printing	-3.2	-0.2	-3.6	-0.2	-1.3	-0.1
CD	Coke and petroleum	-3.8	0.0	0.6	0.0	4.0	0.0
CE	Chemical products	-4.8	-0.2	-2.5	-0.1	-3.1	-0.2
CF	Pharmaceutical products	-1.5	-0.1	2.0	0.1	3.8	0.2
CG	Rubber and plastic products	-1.1	-0.1	0.3	0.0	-0.6	0.0
CH	Metal products	-1.5	-0.1	0.1	0.0	1.1	0.1
CI	Computer, electronic and optical	-0.3	0.0	4.5	0.2	2.0	0.1
CJ	Electrical equipment	1.5	0.0	12.2	0.3	0.0	0.0
CK	Machinery and equipment	-1.2	-0.1	-4.7	-0.2	-0.9	0.0
CL	Transport equipment	3.0	0.3	-4.0	-0.4	-0.7	-0.1
CM	Other manufacturing and repair	-1.4	-0.1	-2.9	-0.2	0.8	0.1
Sector D	Total Electricity and Gas	2.8	0.3	0.0	0.0	-1.4	-0.2

35.1	Electric power generation, transmission and distribution	2.0	0.2	-1.8	-0.2	-1.5	-0.1
35.2-3	Manufacture of gas; distribution of gaseous fuels through mains; steam and aircon supply	5.1	0.2	4.7	0.2	-1.0	0.0
Sector E	Total Water and Waste	1.7	0.1	0.7	0.1	1.1	0.1
36	Water collection, treatment and supply	1.4	0.0	-1.8	0.0	1.6	0.0
37	Sewerage	1.3	0.0	-4.5	-0.1	-1.3	0.0
38	Waste collection, treatment and disposal activities; materials recovery	2.2	0.1	6.1	0.2	2.1	0.1
39	Remediation activities and other waste management services	5.7	0.0	10.5	0.0	6.5	0.0

Source: Office for National Statistics

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

Total production output for the three months to July 2019 decreased by 0.5%, compared with the three months to April 2019. This is the second consecutive three-monthly decline and is mainly because of a fall of 1.1% in manufacturing output.

The fall in manufacturing follows a decline of 2.3% during the three months to June 2019. For the three months to July 2019, 11 of the 13 subsectors displayed negative contributions (Figure 2), led by:

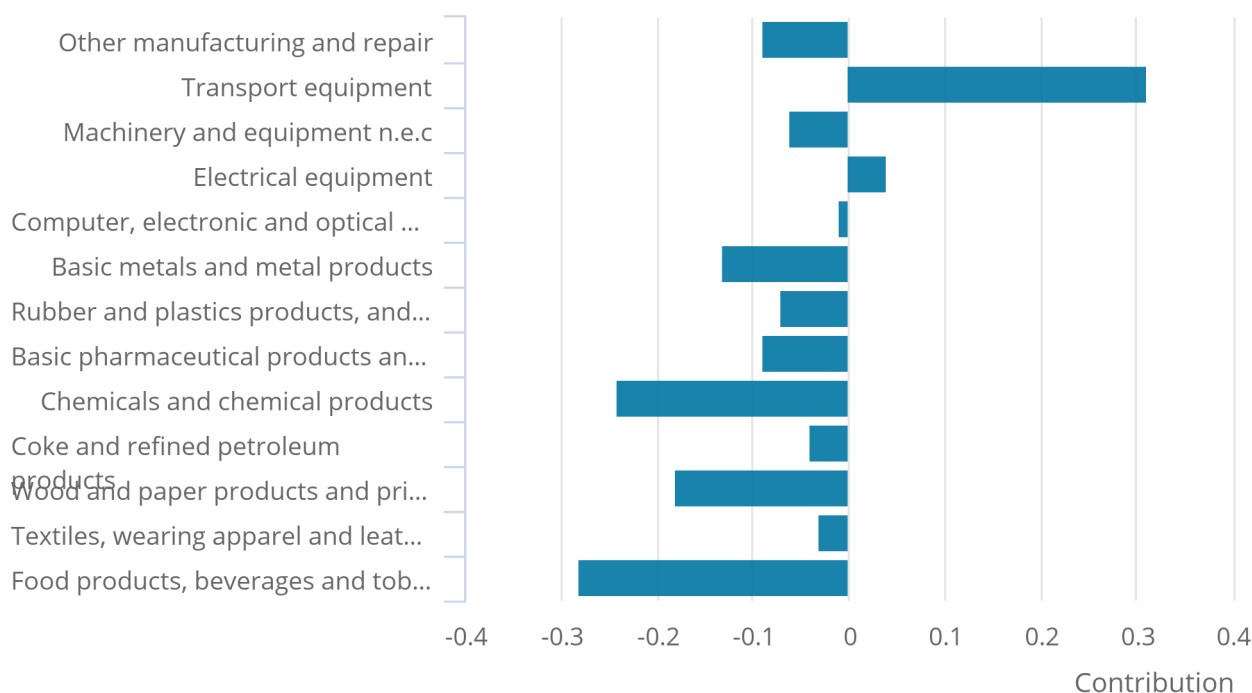
- widespread weakness within food products, beverages and tobacco, which fell by 2.4%, mainly because of a weakness during May 2019 and June 2019
- chemicals and chemical products, which fell by 4.8%, owing to all six industries decreasing
- wood and paper products and printing, which fell by 3.2%, with all three industries decreasing

Figure 2: There is widespread weakness across manufacturing with 11 of the 13 subsectors decreasing

Contribution to the Index of Production by manufacturing subsectors: three months on previous three months, seasonally adjusted, UK, July 2019

Figure 2: There is widespread weakness across manufacturing with 11 of the 13 subsectors decreasing

Contribution to the Index of Production by manufacturing subsectors: three months on previous three months, seasonally adjusted, UK, July 2019



Source: Office for National Statistics – Index of Production

Partially offsetting the overall three-monthly decline in manufacturing is a rise of 3.0% in transport equipment led by strength within motor vehicles, trailers and semi-trailers, which rose by 6.3%. However, this strength is mainly because of a partial bounce-back effect during May 2019, following a very weak April 2019. Users should also note the longer-term decline within this industry, highlighted in previous releases and reflected in the three months on the same three months a year ago growth, which fell by 7.3%.

Mining and quarrying output decreased by 1.2%, mainly because of a fall of 1.1% in oil and gas extraction, supported by a reduction in output from other mining and quarrying, which fell by 1.4%.

The increase of 2.8% within electricity and gas supply was driven by equal upward contributions from electricity generation and distribution and gas distribution, which rose by 2.0% and 5.1% respectively.

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

Following a decline of 0.1% in June 2019, monthly total production output rose by 0.1% in July 2019, owing to rises in manufacturing of 0.3% and water and waste of 1.1%. These were partially offset by falls from electricity and gas of 1.4% and mining and quarrying of 1.2%.

Growth within manufacturing during July 2019 showed a mixed picture, with 7 of the 13 subsectors displaying increased output. Notable strength came from two industries that tend to be volatile:

- pharmaceutical products (3.8%); following two strong monthly growths
- the weapons and ammunition industry, which rose by 12.1%, owing to the completion of high-value contracts

Across the rest of manufacturing, much of the low-level strength displayed in July 2019 is the result of a bounceback effect following a weak June 2019.

Partially offsetting the overall strength and providing the largest downward contribution within manufacturing was chemical and chemical products, which fell by 3.1%. This was mainly because of weakness within petrochemicals and soap detergents and cleaning products, which fell by 6.3% and 4.7% respectively.

The fall in electricity and gas output provides the largest downward contribution and is generally because of a reduced demand owing to a rise in temperature during July 2019. The Met Office reported that [the provisional UK mean temperature was 16.4 degrees celsius](#), which is 1.2 degrees celsius above the 1981 to 2010 long-term average.

The decrease in mining and quarrying of 1.2% is driven by reduced output within oil and gas extraction, which fell by 2.5%.

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

Total production output for the three months to July 2019 decreased by 0.3%, compared with the same three months to July 2018.

Providing the only downward contribution was manufacturing, which fell by 0.7%, despite only 5 of the 13 subsectors decreasing.

Within manufacturing and providing the largest downward contribution was transport equipment, which fell by 4.0%. This was mainly because of the ongoing decline in the production of motor vehicles, trailers and semi-trailers, which fell by 7.3%.

Also providing notable downward contributions were machinery and equipment, which fell by 4.7%, a continuation of ongoing weakness since August 2018, and other manufacturing and repair, which fell by 2.9%, driven by a strong fall of 28.3% from repair and maintenance of aircraft and spacecraft, which is a continuation of weakness since May 2018.

Partially offsetting the overall weakness in manufacturing was notable strength from electrical equipment (12.2%) and computer, electronic and optical products (4.5%).

Providing the largest upward contribution was mining and quarrying, which rose by 1.7%, mainly because of widespread strength within other mining and quarrying (2.8%) and oil and gas extraction (1.2%), 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 September 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 \(ProdCom\)](#); the 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 manufacture of coke and refined petroleum products sectors within this release.

The IoP follows the [Eurostat short-term business 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 concerning the use of VAT turnover within the UK National Accounts, please see [VAT turnover data in National Accounts: background and methodology](#) (published on 19 March 2018).

On 11 April 2019, we published the [Quality assurance of administrative data \(QAAD\) report for Value Added Tax turnover data](#). 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 uses 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 IoP.

For the mining and quarrying; energy supply; coke and refined petroleum; and basic iron and steel sectors, we receive volume data from the Department for Business, Energy and Industrial Strategy (BEIS) and the International Steel Statistics Bureau (ISSB). Unless otherwise stated, all estimates included in this release are based on seasonally adjusted data.

The [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 – the MBS is based on a survey of businesses; the UK trade in goods data uses administrative data collected by HM Revenue and Customs (HMRC)
- different concepts being measured – the 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 the MBS and the movements of that product reported by UK trade in goods

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 the BEIS for fuel industries and from the ISSB for steel industries.

The mining and quarrying sector is comprised mainly of data from the BEIS, including volume of oil and gas extraction and coal extraction. The data used to produce the energy sector are also from the 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 IoP 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)
- [MBS \(production\) response rates](#) for production industries for this publication
- [Revisions triangles](#) – monitors the size of monthly and three-monthly revisions
- [IoP weights 2016 equals 100](#)
- [IoP and industry sectors to four decimal places](#)
- [MBS turnover in production industries](#)
- [Export proportions for manufacturing industries](#)

The [IoP Quality and Methodology Information report](#) contains summary information and 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

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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	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 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	103.3	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 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	102.8	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	
Jul	102.3	104.5	103.1	95.3	104.1	103.1	115.5	102.6	104.7	102.7	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 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	-0.2	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	
Jul	-0.9	-1.6	-0.6	-3.4	0.8	-3.7	3.6	1.4	-2.4	-0.1	-3.3	

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.

IOP5 Output of the Production Industries

continued

Chained volume indices of gross value added¹

Seasonally adjusted 2016 = 100

		Broad industry groups					Main industrial groupings						
Section		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	O6	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	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	0.2	
	Apr	-3.1	-2.9	-4.4	3.2	-0.4	-4.3	-1.2	-3.4	-7.3	-2.3	0.9	
	May	1.2	0.5	1.4	0.8	1.2	1.4	2.0	-2.1	5.8	-0.1	1.2	
	Jun	-0.1	0.1	-0.2	0.3	0.3	0.6	-3.7	0.6	-0.6	-0.1	-	
	Jul	0.1	-1.2	0.3	-1.4	1.1	-2.5	2.4	1.3	0.2	-0.5	-1.1	
	Percentage change, latest 3 months on same 3 months a year ago²												
	2017	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	-	
	Jul	-0.3	1.7	-0.7	-	0.7	1.2	3.1	-0.4	-2.5	1.0	0.1	

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

		Broad industry groups					Main industrial groupings						
Section		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 3 months on previous 3 months²													
2017	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	
	Jul	-0.5	-1.2	-1.1	2.8	1.7	-1.1	-0.2	-2.5	0.5	-1.5	1.3	

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

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

[†] 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 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	107.6	102.6	96.1	100.3	100.8
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
Jul	103.6	108.4	98.7	98.0	98.2	106.2
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 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	5.7	1.2	-0.7	-0.1	2.0
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
Jul	-0.2	1.9	-5.0	1.0	-5.7	12.0

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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 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 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	99.9	120.0	108.7	105.2	88.1	103.7
May	101.1	102.3	122.9	107.9	105.2	98.8	104.3
Jun	101.6	99.5	118.6	107.3	105.6	101.0	102.3
Jul	101.0	100.6	120.9	107.3	104.7	100.3	103.1
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 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	-1.7	5.5	12.5	-7.9	-15.0	-2.2
May	2.2	3.3	5.7	11.5	-5.1	-5.4	-1.5
Jun	-0.6	-1.8	2.9	13.5	-4.6	-2.8	-4.1
Jul	-0.6	-1.2	4.9	11.6	-4.3	-3.8	-3.2

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

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						
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
Jul	0.8	1.7	-1.3	4.0	-3.1	3.8
Percentage change, latest 3 months on same 3 months a year ago						
2017						
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
Jul	0.2	1.6	-3.6	0.6	-2.5	2.0

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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 month on previous month†								
2017	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
	Jul	-0.6	1.1	2.0	-	-0.9	-0.7	0.8
Percentage change, latest 3 months on same 3 months a year ago†								
2017	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
	Jul	0.3	0.1	4.5	12.2	-4.7	-4.0	-2.9

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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.

IOP5 Output of the Production Industries

continued

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						
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
Jul	-2.4	-1.0	-3.2	-3.8	-4.8	-1.5

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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	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	
	Jul	-1.1	-1.5	-0.3	1.5	-1.2	3.0	-1.4	

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.

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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 O6	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 Q2	-	-	-	-	-	-	-	-	-	-	-
Q3	-	-	-	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-	-	-	-
2019 Q1	-	-	-	-	-	-	-	-	-	-	-
Q2	-	-	-	-	-	-	-	-	-	-	-
2018 Apr	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-	-	-	-	-
2019 Jan	-	-	-	-	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-	-	-	-	-
Apr	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-	-	-	-	-
Percentage change, latest year on previous year											
2014	-	-	-	-	-	-	-	-	-	-	-
2015	-	-	-	-	-	-	-	-	-	-	-
2016	-	-	-	-	-	-	-	-	-	-	-
2017	-	-	-	-	-	-	-	-	-	-	-
2018	-	-	-	-	-	-	-	-	-	-	-
Percentage change, latest month on same month a year ago											
2017 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	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-	-	-	-	-

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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 month on previous month											
2017	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	-	-	-	-	-	-	-	-	-	-
	May	-	-	-	-	-	-	-	-	-	-
	Jun	-	-	-	-	-	-	-	-	-	-
Percentage change, latest 3 months on same 3 months a year ago											
2017	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	-	-	-	-	-	-	-	-	-	-
	May	-	-	-	-	-	-	-	-	-	-
	Jun	-	-	-	-	-	-	-	-	-	-

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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	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	-	-	-	-	-	-	-	-	-	-
	May	-	-	-	-	-	-	-	-	-	-
	Jun	-	-	-	-	-	-	-	-	-	-

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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	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 Q2	-	-	-	-	-	-
2018 Q3	-	-	-	-	-	-
2018 Q4	-	-	-	-	-	-
2019 Q1	-	-	-	-	-	-
2019 Q2	-	-	-	-	-	-
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	-	-	-	-	-	-
2019 May	-	-	-	-	-	-
2019 Jun	-	-	-	-	-	-
Percentage change, latest year on previous year						
2014	-	-	-	-	-	-
2015	-	-	-	-	-	-
2016	-	-	-	-	-	-
2017	-	-	-	-	-	-
2018	-	-	-	-	-	-
Percentage change, latest month on same month a year ago						
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	-	-	-	-	-	-
2019 May	-	-	-	-	-	-
2019 Jun	-	-	-	-	-	-

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
2014	-	-	-	-	-	-	-
2015	-	-	-	-	-	-	-
2016	-	-	-	-	-	-	-
2017	-	-	-	-	-	-	-
2018	-	-	-	-	-	-	-
2018 Q2	-	-	-	-	-	-	-
2018 Q3	-	-	-	-	-	-	-
2018 Q4	-	-	-	-	-	-	-
2019 Q1	-	-	-	-	-	-	-
2019 Q2	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-
2019 May	-	-	-	-	-	-	-
2019 Jun	-	-	-	-	-	-	-
Percentage change, latest year on previous year							
2014	-	-	-	-	-	-	-
2015	-	-	-	-	-	-	-
2016	-	-	-	-	-	-	-
2017	-	-	-	-	-	-	-
2018	-	-	-	-	-	-	-
Percentage change, latest month on same month a year ago							
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	-	-	-	-	-	-	-
2019 May	-	-	-	-	-	-	-
2019 Jun	-	-	-	-	-	-	-

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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 month on previous month

2017	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	-	-	-	-	-
	May	-	-	-	-	-
	Jun	-	-	-	-	-

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

2017	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	-	-	-	-	-
	May	-	-	-	-	-
	Jun	-	-	-	-	-

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	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	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	-	-	-	-	-	-
	May	-	-	-	-	-	-
	Jun	-	-	-	-	-	-

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

2017	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	-	-	-	-	-	-
	May	-	-	-	-	-	-
	Jun	-	-	-	-	-	-

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

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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 3 months on previous 3 months

2017	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	-	-	-	-	-
	May	-	-	-	-	-
	Jun	-	-	-	-	-

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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	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	-	-	-	-	-	-	
	May	-	-	-	-	-	-	
	Jun	-	-	-	-	-	-	

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