

Statistical bulletin

Index of Production, UK: November 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

- Total production output decreased by 0.6% for the three months to November 2019, compared with the three months to August 2019; this was led by manufacturing output, which fell by 0.8%.
- The three-monthly fall in manufacturing is because of widespread weakness, with 10 of the 13 subsectors providing downward contributions; this was led by pharmaceutical products (fall of 6.2%) and transport equipment (fall of 1.6%).
- Production output fell by 1.2% between October 2019 and November 2019, with manufacturing providing the largest downward contribution, falling by 1.7%.
- The monthly decrease of 1.7% in manufacturing output was because of downward contributions from 10 of the 13 subsectors; led by notable falls from transport equipment (3.4%), chemicals and chemical products (4.7%) and food, beverages and tobacco (1.8%).
- For the three months to November 2019, production output decreased by 1.1%, compared with the same three months to November 2018; this was led by a fall in manufacturing of 1.2%.

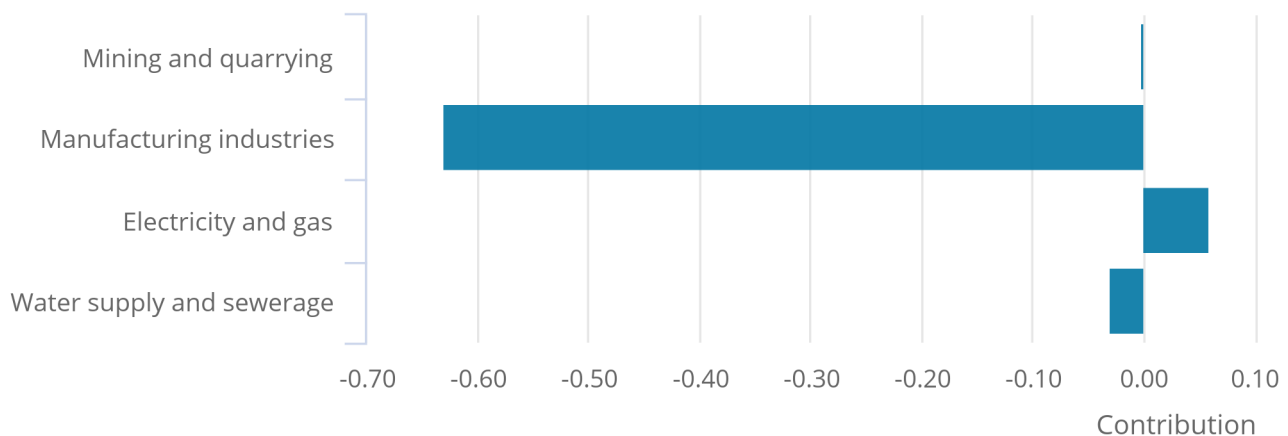
2 . Production

Figure 1: Widespread weakness within manufacturing underpins the strong negative contribution from this sector

Contributions to the Index of Production three months on three months, seasonally adjusted, UK, November 2019

Figure 1: Widespread weakness within manufacturing underpins the strong negative contribution from this sector

Contributions to the Index of Production three months on three months, seasonally adjusted, UK, November 2019



Source: Office for National Statistics – Index of Production

Notes:

- Weights for main Index of Production sectors are: Sector B – Mining and quarrying (4.7); Sector C – Manufacturing (74.9); Sector D – Electricity and gas (10.9); and Sector E – Water and waste (9.5).

Total production output for the three months to November 2019 fell by 0.6%, compared with the three months to August 2019.

Manufacturing output provided by far the largest downward contribution, falling by 0.8%, led by widespread weakness throughout the sector, with negative contributions from 10 of the 13 subsectors. Negligible contributions from water and waste, and mining and quarrying, which fell by 0.3% and 0.1% respectively, were offset by the only positive contribution from electricity and gas, which rose by 0.6%.

Table 1: Growths and contributions to production, seasonally adjusted estimates, UK, November 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	-0.6	-0.6	-1.1	-1.1	-1.2	-1.2
Sector B	Total mining and quarrying	-0.1	0.00	-3.1	-0.16	1.3	0.06
5	Coal and lignite	-0.5	0.00	-9.0	0.00	-6.4	0.00
6	Crude petroleum and natural gas	-0.4	-0.01	-4.0	-0.15	1.7	0.06
789	Other mining and quarrying	0.8	0.01	-0.3	0.00	0.4	0.01
Sector C	Total manufacturing	-0.8	-0.63	-1.2	-0.87	-1.7	-1.25
CA	Food, beverages and tobacco	1.9	0.22	1.5	0.18	-1.8	-0.21
CB	Textiles and leather products	-0.9	-0.02	1.9	0.04	-1.7	-0.04
CC	Wood, paper and printing	-1.5	-0.08	-2.1	-0.11	-1.7	-0.09
CD	Coke and petroleum	6.7	0.05	-1.8	-0.01	-1.0	-0.01
CE	Chemical products	-2.5	-0.12	-8.5	-0.42	-4.7	-0.22
CF	Pharmaceutical products	-6.2	-0.38	4.9	0.27	0.8	0.05
CG	Rubber and plastic products	-0.9	-0.05	-5.4	-0.29	-0.7	-0.04
CH	Metal products	-1.2	-0.10	-0.1	-0.01	-0.3	-0.02
CI	Computer, electronic and optical	2.2	0.13	2.3	0.14	-2.6	-0.16
CJ	Electrical equipment	-2.4	-0.05	-0.4	-0.01	0.0	0.00
CK	Machinery and equipment	-1.0	-0.06	-4.5	-0.28	-2.6	-0.15
CL	Transport equipment	-1.6	-0.16	-2.2	-0.23	-3.4	-0.36
CM	Other manufacturing and repair	-0.3	-0.02	-2.1	-0.14	0.1	0.01
Sector D	Total electricity and gas	0.6	0.06	-1.3	-0.13	0.1	0.01
35.1	Electric power generation, transmission and distribution	1.2	0.09	0.6	0.05	0.1	0.01
35.2-3	Manufacture of gas; distribution of gaseous fuels through mains; steam and aircon supply	-1.3	-0.03	-7.0	-0.17	0.3	0.01
Sector E	Total water and waste	-0.3	-0.03	0.6	0.06	-0.3	-0.02
36	Water collection, treatment and supply	1.3	0.04	1.2	0.04	0.9	0.03
37	Sewerage	-1.6	-0.05	-2.6	-0.09	0.1	0.00
38	Waste collection, treatment and disposal activities; materials recovery	-0.3	-0.01	3.5	0.11	-1.7	-0.05
39	Remediation activities and other waste management services	-0.2	0.00	2.4	0.00	-1.2	0.00

Figure 2: The current three-monthly rolling index level is the lowest since July 2017

Index of Production rolling three months on previous three months, seasonally adjusted, UK, January 2008 to November 2019

Figure 2: The current three-monthly rolling index level is the lowest since July 2017

Index of Production rolling three months on previous three months, seasonally adjusted, UK, January 2008 to November 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.

Growth for the Index of Production (IoP) was more pronounced from the beginning of 2010, as the economy recovered from the 2008 economic downturn, before a downturn during 2012. Production output in the UK was 5.5% lower for the three months to November 2019 than the pre-downturn peak for the three months to March 2008. Additionally, the current three-monthly rolling index level is the lowest since July 2017.

3 . Manufacturing

Figure 3: The current three-monthly rolling index level is the lowest since July 2017

Index of Manufacturing rolling three months on previous three months, seasonally adjusted, UK, January 2008 to November 2019

Economic downturn
Figure 3: The current three-monthly rolling index level is the lowest since July 2017

Index of Manufacturing rolling three months on previous three months, seasonally adjusted, UK, January 2008 to November 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.

Growth for the Index of Manufacturing was more pronounced from the beginning of 2010, as the economy recovered from the 2008 economic downturn, before a downturn during 2012. Manufacturing output in the UK remained 2.9% lower for the three months to November 2019 than the pre-downturn peak for the three months to March 2008. Additionally, the current three-monthly rolling index level is the lowest since July 2017.

For further detail on the longer-term trend within manufacturing, please see the article, [Manufacturing sector performance, UK: 2008 to 2018](#), published on 2 April 2019. The article 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.

Total manufacturing output for the three months to November 2019 fell by 0.8%, compared with the three months to August 2019. Of the 13 subsectors, 10 displayed negative contributions, led by:

- basic pharmaceutical products, which fell by 6.2%, mainly because of monthly weakness during September 2019
- transport equipment, which fell by 1.6%, caused by weakness from motor vehicles, trailers and semi-trailers, which fell by 2.4% because of the additional impact of shutdowns during November 2019; this industry is still showing a longer-term decline, as highlighted by the three months on same three months a year ago indicator, which fell by 3.1%
- chemicals and chemical products, which fell by 2.5%, partially because of the impact of maintenance and shutdowns but also because of widespread weakness in November and a continuation of sustained weakness since the three months to March 2019

Partially offsetting the cumulative impact from the negative contributions was widespread growth from food, beverages and tobacco, which rose by 1.9%. Within this sector, there was notable strength from meat and meat products (2.1%), other food products (2.3%), alcoholic beverages (2.8%) and soft drinks (4.6%).

There was also a notable increase from computer, electronic and optical products, which rose by 2.2%, mainly because of monthly export-driven strength during October 2019.

The notable decrease of 1.7% in total manufacturing output in November 2019, compared with October 2019, was mainly because of widespread weakness, with 10 of the 13 subsectors displaying downward contributions, most notably from:

- the motor vehicles, trailers and semi-trailers industry (6.1%), which was impacted by factory shutdowns during November 2019
- widespread weakness from chemicals and chemical products (4.7%), following on from the impact of maintenance and shutdowns
- food, beverages and tobacco (1.8%) because of widespread weakness, led by an export-driven fall from alcoholic beverages, which fell by 4.0%

This is the largest monthly fall in total manufacturing since April 2019, when output fell by 4.2% and the second-largest fall since June 2012, when output fell by 2.6%. Additionally, the decline in output for November 2019 results in the index falling to the weakest level since November 2016.

Widespread weakness is underpinned by falls in both nominal total turnover and export turnover and more detail can be found in our [Monthly Business Survey turnover in production industries](#) published alongside this release.

For the three months to November 2019, compared with the same three months to November 2018, total output declined by 1.2%, the sixth consecutive fall for this indicator, led by:

- chemicals and chemical products, which fell by 8.5%, the strongest fall since April 2016
- rubber and plastic products, which fell by 5.4%
- machinery and equipment, which fell by 4.5%
- transport equipment, which fell by 2.2%, a continuation of ongoing weakness since June 2018

Partially offsetting overall weakness was long-term strength from the pharmaceutical products subsector (4.9%).

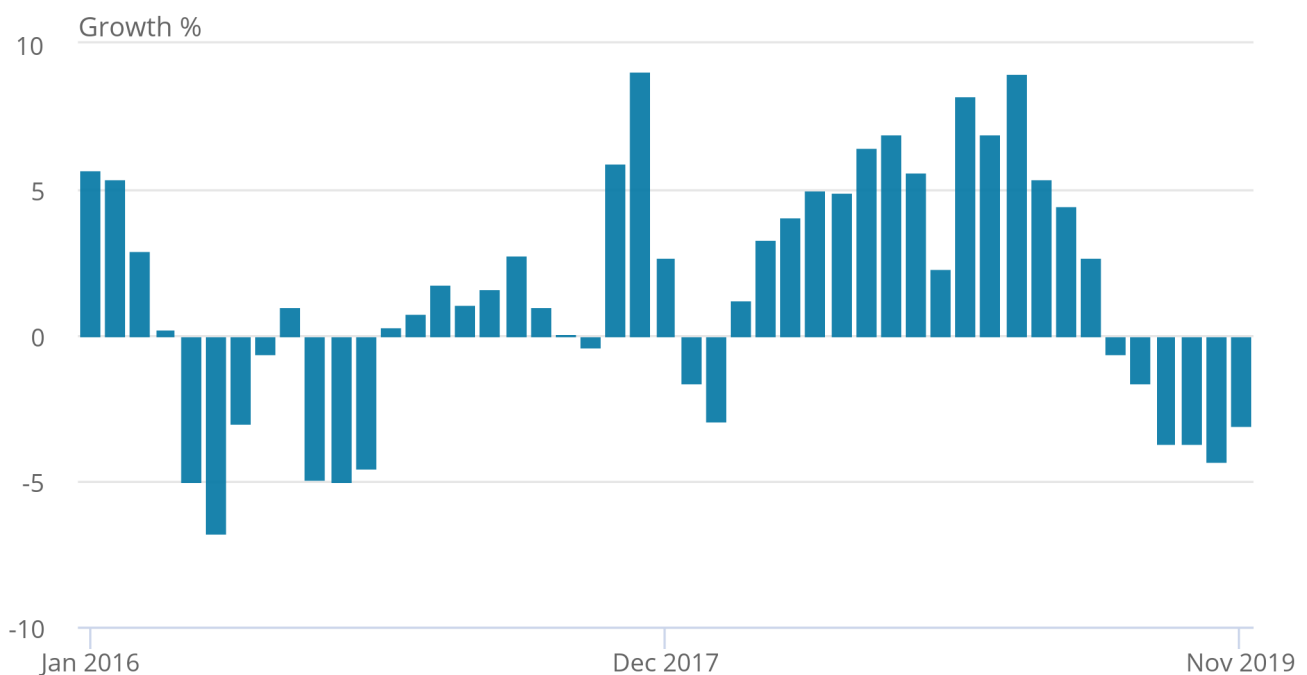
4 . Mining and quarrying

Figure 4: This is the sixth consecutive period of weakness since May 2019 for mining and quarrying output

Mining and quarrying, three months on three months a year ago, seasonally adjusted, UK, January 2016 to November 2019

Figure 4: This is the sixth consecutive period of weakness since May 2019 for mining and quarrying output

Mining and quarrying, three months on three months a year ago, seasonally adjusted, UK, January 2016 to November 2019



Source: Office for National Statistics – Index of Production

There is a continuation of weakness within this sector, with the three months to November 2019 on three months a year ago output falling by 3.1%, continuing the trend of a weaker 2019 in comparison with 2018. The three-monthly indicator to November 2019 fell by 0.1%.

Monthly output increased by 1.3%, led by a rise of 1.7% from oil and gas extraction; a partial bounceback following notable weakness in October 2019, when it fell by 4.6%.

5 . Electricity and gas

The three-monthly growth to November 2019 of 0.6% was driven by electricity supply, which increased by 1.2%. In contrast gas supply fell by 1.3%.

Monthly output rose by 0.1% for November 2019 because of increased demand for both electricity and gas supply, resulting in negligible rises of 0.1% and 0.3% respectively. The Met Office reported that the provisional UK mean temperature was 5.3 degrees Celsius, which is 0.9 degrees Celsius below the 1981 to 2010 long-term average. Additionally, the mean temperature fell by 3.7 degrees Celsius between October and November 2019.

In contrast, the three months to November 2019 on three months a year ago indicator fell by 1.3%, mainly because of gas supply, which fell by 7.0%. This decline was also temperature-driven, with colder than average temperatures across the three months to November 2018 increasing demand, in comparison with the same three months to November 2019.

6 . Water and waste

Work carried out on waste treatment projects is the underlying factor behind the continuation of longer-term strength across the three months to November 2019 on three months a year ago indicator for the waste collection industry, which rose by 3.5%. In contrast, and partially offsetting this growth, was a 2.6% fall for sewerage.

Despite strength in the three months on a year ago indicator within waste supply, monthly output declined by 1.7% for this industry; this was led by weakness from large businesses, driving the overall sector level fall of 0.3%.

7 . Index of Production data

[Index of Production time series](#)

Dataset DIOP | Released 13 January 2020

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.

[Output of the production industries](#)

Dataset | Released 13 January 2020

Index values and growth rates for production, manufacturing and the main industrial groupings in the UK.

[Index of Production and industry sectors to four decimal places](#)

Dataset | Released 13 January 2020

Monthly index values for production and the main Index of Production (IoP) sectors in the UK to four decimal places.

[Monthly Business Survey turnover in production industries](#)

Dataset | Released 13 January 2020

Monthly Business Survey (MBS) production industries' total turnover, domestic sales and exports in the UK. Figures are in current price and non-seasonally adjusted.

[Export proportions for manufacturing industries](#)

Dataset | Released 13 January 2020

Monthly, quarterly and annual export data for the manufacturing industries, collected by the MBS at industry level in the UK.

All data related to the IoP are available on the [Related data page](#).

8 . Glossary

Index number

The index number is a measure of the average level of prices, quantities or other measurable characteristics relative to their level for a defined time period or location.

Industrial classification or breakdown

The industrial classification or breakdown is the internationally standardised method for classifying the wide range of industrial sectors in an economy. We use the [Standard Industrial Classification 2007 \(SIC 2007\)](#) for industrial breakdowns.

Manufacturing

The manufacturing sector includes the output of manufacturing industries and is broken down into 13 subsectors.

Monthly Business Survey

The Monthly Business Survey (MBS) collects information on the monthly turnover of UK businesses within the production and service sectors from various industrial sectors and regions in the UK.

Production

The production sector includes the output in the manufacturing (the largest component of production), mining and quarrying, energy supply, and water supply and waste management industries.

Turnover

The turnover of a company is the value of the goods or services sold during a particular time period. It includes total takings or invoiced sales and receipts. Interest and similar income, “other operating income”, and extra ordinary income is excluded. Value Added Tax (VAT) invoiced to the customer is excluded.

9 . Measuring the data

The Index of Production (IoP) uses data from a variety of sources and is calculated by taking turnover and removing the impact of price changes or by using direct volume estimates.

The majority of data are collected as “turnover values” through the Monthly Business Survey (MBS). In addition, direct volume series are collected by the Department for Business, Energy and Industrial Strategy (BEIS) and the International Steel Statistics Bureau (ISSB) for steel industries.

From January 2018, Value Added Tax (VAT) data have also been included across 64 production industries for small- and medium-sized businesses. For more information, see [VAT turnover data in National Accounts: background and methodology](#).

A comprehensive list of the IoP source data can be found in the [Gross domestic product \(GDP\(O\)\) source catalogue \(XLS, 715KB\)](#).

More quality and methodology information on strengths, limitations, appropriate uses, and how the data were created is available in the [UK Index of Production QMI](#).

10 . Strengths and limitations

Seasonal adjustment

The data published in the Index of Production (IoP) release are all seasonally adjusted (although non-seasonally adjusted estimates are also available). This aids interpretation by removing annually recurring fluctuations, for example, those caused by holidays or other seasonal patterns.

Data volatility

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

Comparability with UK trade statistics

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 (British Pound, millions). However, this is not always comparable with UK trade statistics. Further information on UK trade and how data on it are compiled can be found in the [UK trade release](#).

11 . Related links

[Comparison of motor vehicle manufacturing output statistics, UK: 1997 to 2019](#)

Article | Released 10 January 2020

A comparison of the methodologies used to estimate motor vehicle manufacturing outputs by the Office for National Statistics and the Society of Motor Manufacturers and Traders.

[A comparison between official estimates of UK output and diffusion indices](#)

Article | Released 21 October 2019

The level of correlation between Office for National Statistics (ONS) data and IHS Markit and Chartered Institute of Procurement and Supply Purchasing Managers' Indices.

[GDP monthly estimate, UK: November 2019](#)

Bulletin | Released 13 January 2020

Gross domestic product (GDP) measures the value of goods and services produced in the UK. It estimates the size of and growth in the economy and includes the Index of Production (IoP), Index of Services (IoS) and construction output in Great Britain.

[Producer price inflation, UK: November 2019](#)

Bulletin | Released 18 December 2019

The corresponding price indices used to deflate the IoP are published in the monthly publication of UK producer price inflation.

[UK manufacturers' sales by product \(ProdCom\): 2018 revised results](#)

Bulletin | Released 2 December 2019

Product sales by manufacturers are published on an annual basis in ProdCom statistical bulletins; estimates are in current prices, unlike the chained volume measures published in the IoP release.

[Energy Trends: September 2019](#)

Bulletin | Released 26 September 2019

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.

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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	47.5	748.5	108.7	95.3	34.6	68.2	211.6	272.3	252.2	182.5	
	K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K24O	K24T	
2014	97.9	97.0	99.9	94.3	89.2	89.6	99.9	99.9	99.5	101.9	93.8	
2015	98.9	102.0	99.8	96.4	93.3	96.3	99.2	100.1	99.7	102.7	97.3	
2016	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
2017	101.7	101.7	102.2	98.2	102.0	101.6	103.8	99.0	105.4	101.7	99.3	
2018	102.5 †	107.1 †	103.1 †	96.7 †	102.5 †	109.2 †	115.6 †	100.4 †	107.7 †	100.7 †	100.0	
2018 Q3	102.9 †	110.4 †	103.3 †	96.4 †	104.2 †	112.9 †	115.0 †	100.6 †	107.1 †	101.6 †	101.0	
Q4	102.0	108.9	102.4	95.5	103.3	111.9	116.5	101.1	105.5	100.2	99.7	
2019 Q1	103.4	107.6	104.8	92.8	101.8	109.2	119.2	106.1	106.1	102.5	97.6	
Q2	101.6	106.4	102.0	94.7	103.3	108.4	117.3	103.4	103.2	99.7	98.0	
Q3	101.6	106.3	102.2	93.0	105.0	108.0	115.8	104.2	104.0	98.7	97.5	
2018 Sep	102.5 †	108.0 †	103.0 †	94.9 †	104.3 †	109.8 †	113.2 †	100.6 †	106.2 †	101.6 †	99.3	
Oct	102.4	111.4	102.5	96.2	103.7	114.6	115.6	101.0	105.7	100.7	100.8	
Nov	102.2	107.9	102.6	95.7	103.2	110.6	117.2	101.5	106.0	100.0	99.6	
Dec	101.6	107.3	102.1	94.6	102.9	110.5	116.6	100.8	105.0	100.0	98.8	
2019 Jan	102.8	104.8	103.9	95.7	101.6	105.4	117.7	104.6	105.4	101.8	98.8	
Feb	103.1	108.3	104.7	91.3	101.7	109.9	119.5	104.9	106.1	103.0	96.6	
Mar	104.2	109.8	105.9	91.6	102.1	112.3	120.2	108.8	106.7	102.7	97.2	
Apr	100.9	106.0	101.4	94.4	101.9	107.4	116.7	104.1	100.3	100.4	97.5	
May	101.9	106.8	102.4	94.9	104.0	109.1	119.9	102.4	104.6	99.7	98.4	
Jun	101.9	106.4	102.4	95.0	104.1	108.8	115.2	103.7	104.7	99.2	98.2	
Jul	102.1	105.6	102.8	93.7	104.6	107.6	116.3	105.6	104.1	99.1	97.9	
Aug	101.4	105.3	102.0	92.8	105.1	106.5	115.2	103.6	104.2	98.6	96.9	
Sep	101.4	107.9	101.7	92.6	105.3	109.9	115.9	103.4	103.8	98.4	97.8	
Oct	101.7	103.9	102.3	95.2	104.0	104.9	119.6	103.6	105.2	98.1	98.5	
Nov	100.5	105.2	100.6	95.4	103.8	106.7	117.2	102.5	102.5	96.8	99.0	
Percentage change, latest year on previous year												
2014	1.6	-0.3	2.9	-4.4	0.6	-1.9	5.5	0.9	3.4	4.2	-3.1	
2015	1.0	5.1	-0.1	2.2	4.6	7.5	-0.7	0.2	-1.6	0.7	3.7	
2016	1.1	-2.0	0.2	3.7	7.1	3.8	0.8	-0.1	2.1	-2.6	2.8	
2017	1.7	1.7	2.2	-1.8	2.0	1.6	3.8	-1.0	5.4	1.7	-0.7	
2018	0.8 †	5.3 †	0.9 †	-1.6 †	0.5 †	7.6 †	11.4 †	1.4 †	2.2 †	-1.0 †	0.7	
Percentage change, latest month on same month a year ago												
2017 Sep	2.7	4.9	3.0	0.2	1.8	5.5	7.7	-0.7	6.9	2.3	0.9	
Oct	4.1	15.9	4.9	-4.4	1.6	21.6	4.3	2.0	8.7	3.8	0.9	
Nov	2.4	7.0	3.7	-5.5	-0.1	8.1	5.1	0.8	7.3	3.1	-2.8	
Dec	0.5	-13.7	1.3	0.8	-0.1	-19.8	3.6	-3.8	5.4	1.5	-3.6	
2018 Jan	0.6 †	1.9 †	1.9 †	-5.4 †	-4.2 †	2.6	10.3 †	-2.4 †	7.1 †	0.3 †	-3.5	
Feb	1.7	3.1	2.1	3.6	-4.4	4.9 †	10.4	1.9	4.8	-0.2	2.6	
Mar	2.3	-1.5	2.2	10.4	-3.9	-0.3	18.1	0.5	6.3	-0.7	5.8	
Apr	1.6	8.3	1.4	1.6	-0.2	13.0	14.5	-0.5	5.7	-1.6	3.3	
May	0.9	5.5	1.8	-8.0	1.5	7.5	16.1	1.9	4.7	-1.4	-3.8	
Jun	1.8	1.3	2.2	-4.1	4.7	1.4	9.8	3.3	3.5	0.1	-2.1	
Jul	1.9	7.9	1.8	-1.1	2.6	11.0	15.9	3.7	1.0	0.9	2.7	
Aug	1.6	10.3	1.2	-1.7	3.5	13.2	11.7	1.1	2.4	0.2	2.3	
Sep	-0.2	2.5	-0.1	-4.1	2.5	3.1	4.5	2.2	-1.5	-0.6	-1.2	
Oct	-0.6	4.3	-1.2	-0.5	1.5	5.1	9.3	1.8	-2.5	-2.2	1.1	
Nov	-0.8	-	-0.9	-2.6	1.3	0.8	10.6	1.7	-1.0	-3.3	-0.6	
Dec	-1.1	23.2	-2.0	-6.0	1.1	35.1	6.5	1.7	-3.5	-3.6	2.0	
2019 Jan	0.1	0.4	-0.2	0.3	1.9	-0.4	2.9	6.6	-5.1	0.1	1.2	
Feb	0.2	5.7	1.1	-9.8	2.1	6.0	4.5	5.6	-3.5	2.5	-4.6	
Mar	1.3	10.4	2.7	-11.5	1.0	11.8	3.6	10.0	-2.4	2.8	-4.8	
Apr	-1.4	-2.0	-1.2	-4.4	1.5	-3.6	1.7	4.9	-7.3	0.7	-3.9	
May	-	0.3	-0.7	3.4	2.0	1.0	2.2	1.9	-3.4	-0.2	1.9	
Jun	-1.0	-	-1.3	0.7	-0.4	1.5	-0.7	0.7	-2.2	-1.9	-0.2	
Jul	-1.1	-4.9	-0.7	-3.6	0.3	-5.6	0.2	4.4	-2.8	-2.7	-4.0	
Aug	-1.6	-6.0	-1.2	-4.4	1.0	-7.4	-0.6	3.4	-3.5	-2.6	-4.7	
Sep	-1.1	-0.1	-1.2	-2.4	0.9	0.1	2.4	2.8	-2.2	-3.2	-1.5	
Oct	-0.6	-6.8	-0.3	-1.0	0.3	-8.5	3.4	2.5	-0.5	-2.6	-2.2	
Nov	-1.6	-2.5	-2.0	-0.4	0.6	-3.5	-	1.0	-3.3	-3.2	-0.6	

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	47.5	748.5	108.7	95.3	34.6	68.2	211.6	272.3	252.2	182.5
	K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K24O	K24T
Percentage change, latest month on previous month											
2017 Sep	1.1	3.7	1.1	0.3	1.2	4.9	4.5	-0.5	2.3	1.2	1.1
Oct	0.3	1.4	0.6	-2.3	0.5	2.3	-2.4	0.7	0.5	0.7	-0.8
Nov	-	1.1	-0.2	1.6	-0.4	0.7	0.2	0.6	-1.2	0.4	0.6
Dec	-0.2	-19.3	0.7	2.4	-	-25.5	3.2	-0.7	1.7	0.4	-3.4
2018 Jan	-0.1 †	19.7 †	-0.1 †	-5.2 †	-2.1 †	29.4 †	4.6 †	-1.0 †	2.1 †	-2.0 †	0.9 †
Feb	0.2	-1.7	-0.5	6.1	-0.1	-2.0	-0.1	1.2	-1.0	-1.2	3.6
Mar	-0.1	-3.0	-0.4	2.3	1.5	-3.2	1.5	-0.5	-0.5	-0.6	0.9
Apr	-0.5	8.8	-0.4	-4.7	-0.7	11.0	-1.2	0.3	-1.1	-0.3	-0.7
May	-0.4	-1.6	0.4	-7.1	1.5	-3.1	2.3	1.3	-	0.2	-4.8
Jun	1.0	-0.1	0.7	2.8	2.6	-0.8	-1.1	2.4	-1.1	1.3	2.0
Jul	0.3	4.4	-0.3	3.1	-0.3	6.4	0.1	-1.8	-	0.8	3.5
Aug	-0.2	0.9	-0.2	-0.2	-0.2	0.8	-0.3	-1.0	0.8	-0.7	-0.3
Sep	-0.6	-3.6	-0.2	-2.2	0.2	-4.4	-2.3	0.5	-1.6	0.4	-2.3
Oct	-0.1	3.1	-0.5	1.3	-0.5	4.3	2.2	0.4	-0.5	-1.0	1.5
Nov	-0.2	-3.1	0.1	-0.5	-0.6	-3.5	1.4	0.5	0.3	-0.7	-1.1
Dec	-0.5	-0.6	-0.5	-1.2	-0.3	-0.1	-0.6	-0.6	-0.9	-	-0.8
2019 Jan	1.2	-2.4	1.8	1.2	-1.2	-4.6	1.0	3.7	0.4	1.8	-
Feb	0.3	3.4	0.7	-4.6	0.1	4.3	1.5	0.3	0.6	1.2	-2.2
Mar	1.0	1.4	1.2	0.4	0.4	2.1	0.6	3.7	0.6	-0.3	0.7
Apr	-3.1	-3.5	-4.2	3.0	-0.2	-4.4	-3.0	-4.3	-6.0	-2.3	0.2
May	1.0	0.7	0.9	0.5	2.0	1.6	2.8	-1.6	4.3	-0.7	1.0
Jun	-	-0.4	-	0.1	0.2	-0.3	-3.9	1.3	0.1	-0.5	-0.2
Jul	0.2	-0.7	0.4	-1.3	0.5	-1.1	0.9	1.8	-0.6	-	-0.3
Aug	-0.7	-0.3	-0.8	-1.0	0.4	-1.0	-1.0	-2.0	0.1	-0.5	-1.0
Sep	-0.1	2.5	-0.2	-0.2	0.2	3.2	0.7	-0.1	-0.3	-0.2	0.9
Oct	0.4	-3.7	0.5	2.9	-1.2	-4.6	3.2	0.1	1.3	-0.4	0.8
Nov	-1.2	1.3	-1.7	0.1	-0.3	1.7	-2.0	-1.0	-2.6	-1.3	0.5
Percentage change, latest 3 months on same 3 months a year ago²											
2017 Sep	2.0	-0.4	2.6	-0.4	1.2	-1.7	3.9	-0.1	6.0	1.6	-0.8
Oct	2.8	5.9	3.4	-1.6	1.4	7.1	5.4	0.6	6.9	2.4	0.2
Nov	3.1	9.1	3.9	-3.3	1.1	11.4	5.7	0.7	7.7	3.1	-0.4
Dec	2.3	2.7	3.3	-3.1	0.5	2.5	4.3	-0.4	7.1	2.8	-1.9
2018 Jan	1.1	-1.6 †	2.3 †	-3.4 †	-1.5 †	-3.0	6.3 †	-1.8 †	6.6 †	1.6 †	-3.3 †
Feb	0.9 †	-2.9	1.8	-0.4	-2.9	-4.2 †	8.1	-1.5	5.8	0.5	-1.5
Mar	1.5	1.2	2.1	2.7	-4.2	2.4	12.9	-0.1	6.0	-0.2	1.6
Apr	1.8	3.3	1.9	5.1	-2.9	5.8	14.3	0.6	5.6	-0.8	3.9
May	1.6	4.1	1.8	1.2	-0.9	6.7	16.2	0.6	5.6	-1.2	1.7
Jun	1.4	5.0	1.8	-3.5	2.0	7.2	13.4	1.6	4.6	-1.0	-0.9
Jul	1.5	4.9	1.9	-4.4	2.9	6.6	13.8	3.0	3.0	-0.1	-1.1
Aug	1.7	6.5	1.8	-2.3	3.6	8.5	12.4	2.7	2.3	0.4	0.9
Sep	1.1	6.9	1.0	-2.3	2.9	9.0	10.5	2.3	0.6	0.2	1.3
Oct	0.3	5.6	-	-2.1	2.5	7.0	8.4	1.7	-0.6	-0.9	0.7
Nov	-0.5	2.3	-0.7	-2.4	1.8	3.0	8.1	1.9	-1.7	-2.0	-0.2
Dec	-0.9	8.2	-1.4	-3.1	1.3	11.7	8.8	1.7	-2.4	-3.0	0.8
2019 Jan	-0.6	6.9	-1.0	-2.8	1.4	9.8	6.6	3.3	-3.3	-2.3	0.8
Feb	-0.3	9.0	-0.4	-5.3	1.7	11.9	4.6	4.6	-4.1	-0.4	-0.5
Mar	0.6	5.4	1.2	-7.2	1.7	5.7	3.6	7.4	-3.7	1.8	-2.8
Apr	0.1	4.5	0.8	-8.6	1.5	4.5	3.3	6.8	-4.4	2.0	-4.4
May	-	2.7	0.3	-4.5	1.5	2.8	2.5	5.6	-4.4	1.1	-2.3
Jun	-0.8	-0.6	-1.1	-0.2	1.0	-0.4	1.1	2.5	-4.3	-0.5	-0.8
Jul	-0.7	-1.6	-0.9	0.1	0.6	-1.1	0.6	2.3	-2.8	-1.6	-0.8
Aug	-1.2	-3.7	-1.1	-2.5	0.3	-3.9	-0.4	2.9	-2.8	-2.4	-3.0
Sep	-1.3	-3.7	-1.0	-3.5	0.8	-4.4	0.7	3.6	-2.8	-2.8	-3.4
Oct	-1.1	-4.3	-0.9	-2.6	0.7	-5.3	1.7	2.9	-2.1	-2.8	-2.8
Nov	-1.1	-3.1	-1.2	-1.3	0.6	-4.0	1.9	2.1	-2.0	-3.0	-1.5

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	47.5	748.5	108.7	95.3	34.6	68.2	211.6	272.3	252.2	182.5
		K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K24O	K24T
Percentage change, latest 3 months on previous 3 months²												
2017	Sep	0.9	1.3	0.9	0.3	1.0	2.0	1.7	-1.0	3.2	0.2	-
	Oct	1.2	1.6	1.5	-0.7	0.8	2.7	3.5	0.3	2.8	1.0	-0.3
	Nov	1.5	3.4	1.7	-0.5	1.2	5.0	3.4	0.4	2.7	1.8	0.4
	Dec	1.1	-2.6	1.5	-0.2	0.6	-3.3	2.9	1.0	1.6	1.9	-0.8
2018	Jan	0.4 †	-4.6 †	0.9 †	- †	-0.4 †	-6.2	3.8 †	0.1 †	1.7 †	0.9 †	-1.6 †
	Feb	-0.1	-8.2	0.5	1.1	-1.5	-10.5	5.7	-0.3	2.1	-0.8	-1.5
	Mar	-0.1	1.5	-0.2	1.6	-1.8	3.1 †	7.4	-0.6	1.9	-2.6	1.4
	Apr	-0.2	3.6	-0.8	3.2	-0.7	6.1	4.6	0.1	0.2	-2.8	3.4
	May	-0.5	6.9	-1.0	-1.1	0.8	9.8	2.9	0.7	-1.2	-2.1	1.5
	Jun	-0.4	4.8	-0.4	-5.1	2.2	5.4	0.9	2.1	-2.1	-0.5	-1.5
	Jul	-	4.4	0.3	-6.7	3.2	4.3	1.3	2.4	-1.6	0.9	-2.6
	Aug	0.7	4.9	0.5	-1.8	3.1	5.1	-	1.9	-1.2	1.6	0.7
	Sep	0.6	3.2	0.1	1.6	1.8	3.7	-0.8	-0.3	-0.7	1.4	2.2
	Oct	-	2.3	-0.5	1.7	0.4	3.1	-1.4	-1.0	-0.8	0.2	1.6
	Nov	-0.7	-0.7	-0.8	-0.6	-0.6	-0.3	-0.6	-0.4	-1.3	-0.6	-0.8
	Dec	-0.9	-1.4	-0.8	-0.9	-0.9	-0.9	1.2	0.5	-1.4	-1.4	-1.2
2019	Jan	-0.4	-3.5	-0.1	-0.7	-1.4	-3.8	2.0	1.7	-1.1	-0.6	-1.5
	Feb	0.2	-2.1	0.8	-1.8	-1.6	-2.7	2.3	2.4	-0.4	0.9	-1.8
	Mar	1.3	-1.1	2.4	-2.8	-1.4	-2.4	2.3	4.9	0.5	2.3	-2.2
	Apr	0.5	1.3	1.1	-3.0	-0.6	1.0	1.4	3.6	-1.0	1.4	-2.0
	May	-0.2	0.7	-0.3	-0.2	0.6	0.9	0.8	1.6	-1.6	-0.7	-0.4
	Jun	-1.7	-1.2	-2.6	2.0	1.5	-0.7	-1.6	-2.5	-2.7	-2.7	0.5
	Jul	-0.7	-1.7	-1.4	2.3	2.3	-1.3	-1.4	-1.9	0.1	-2.7	1.1
	Aug	-0.5	-1.7	-0.8	0.2	1.9	-1.8	-2.8	-0.8	0.4	-1.9	-
	Sep	0.1	-0.1	0.1	-1.8	1.6	-0.4	-1.3	0.8	0.8	-1.0	-0.5
	Oct	-0.5	-0.5	-0.5	-1.0	0.5	-1.3	-0.2	-0.4	-0.1	-1.0	-0.5
	Nov	-0.6	-0.1	-0.8	0.6	-0.3	-0.4	1.7	-1.1	-0.5	-1.2	0.8

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

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

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

IOP5 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	119.1	22.9	54.0	8.1	47.0	55.1
	K22B	K22P	K22T	K22X	K22Z	K239
2014	100.9	104.7	100.7	99.0	101.5	94.9
2015	100.8	102.3	101.5	101.4	106.6	95.5
2016	100.0	100.0	100.0	100.0	100.0	100.0
2017	99.7	100.1	101.1	101.4	102.6	98.2
2018	101.4 †	96.9 †	100.7 †	97.6 †	104.9 †	100.9 †
2018 Q3	102.8 †	97.8 †	101.0 †	101.7 †	106.1 †	98.8 †
Q4	101.8	94.7	101.2	98.9	107.0	103.6
2019 Q1	104.7	97.8	103.5	103.4	110.3	114.3
Q2	101.9	96.3	101.2	94.9	102.9	111.7
Q3	102.7	98.4	100.9	94.0	99.4	112.2
2018 Sep	101.8 †	95.8 †	101.1 †	102.7 †	108.8 †	101.5 †
Oct	102.3	93.8	100.7	99.2	106.3	103.5
Nov	101.4	95.4	102.7	98.4	106.4	104.9
Dec	101.8	94.8	100.1	98.9	108.2	102.5
2019 Jan	104.0	97.1	102.2	103.5	110.0	111.5
Feb	104.2	97.6	103.2	106.5	110.2	111.7
Mar	106.0	98.7	105.1	100.3	110.6	119.5
Apr	103.6	97.8	103.0	96.3	102.3	110.0
May	102.0	94.9	99.7	98.3	104.0	108.7
Jun	100.1	96.3	100.8	90.1	102.5	116.3
Jul	101.4	99.3	100.8	94.9	100.1	120.5
Aug	102.9	97.5	101.3	91.3	99.1	109.6
Sep	103.8	98.5	100.6	95.8	99.0	106.5
Oct	104.0	96.7	99.7	100.0	99.9	108.8
Nov	102.2	95.1	98.0	99.0	95.2	109.7

Percentage change, latest year on previous year

2014	4.2	-2.9	0.9	-9.0	2.3	-4.9
2015	-0.2	-2.2	0.7	2.4	5.1	0.6
2016	-0.8	-2.3	-1.4	-1.3	-6.2	4.7
2017	-0.3	0.1	1.1	1.4	2.6	-1.8
2018	1.7 †	-3.2 †	-0.4 †	-3.8 †	2.3 †	2.7 †

Percentage change, latest month on same month a year ago

2017 Sep	-1.3	0.2	1.4	1.3	3.3	-0.7
Oct	1.0	1.9	3.0	-1.6	2.8	5.8
Nov	1.3	5.9	2.4	-8.4	4.1	-0.5
Dec	-1.3	5.5	0.7	-4.0	1.2	-13.3
2018 Jan	-2.2 †	1.0 †	-1.6 †	-8.2 †	-1.0 †	-0.8 †
Feb	-0.7	-3.7	1.0	-10.7	3.6	8.5
Mar	-0.8	-2.6	-2.5	-8.2	0.7	4.6
Apr	-1.0	-1.8	-2.0	-6.5	-1.2	1.5
May	3.3	-2.4	0.5	-9.5	1.2	0.8
Jun	2.2	-0.5	0.6	-5.7	2.5	6.4
Jul	4.4	0.7	3.8	3.6	4.3	0.5
Aug	4.3	-3.3	-1.7	1.0	-0.3	-0.6
Sep	3.3	-5.4	-0.2	0.5	4.3	3.5
Oct	3.0	-6.0	-1.3	-2.4	3.9	2.7
Nov	1.5	-6.2	0.8	1.0	3.5	3.1
Dec	2.8	-7.3	-1.9	0.9	6.4	2.7
2019 Jan	5.1	-1.3	1.9	11.3	7.6	12.6
Feb	4.7	2.0	2.6	17.9	6.1	11.6
Mar	6.1	0.5	5.4	5.9	7.6	22.2
Apr	3.4	0.2	3.9	-1.2	0.1	10.8
May	0.4	-2.9	-1.6	3.6	0.1	8.4
Jun	-2.2	-1.7	-0.3	-8.8	-2.7	8.9
Jul	-2.2	-0.2	-1.9	-3.5	-6.1	25.4
Aug	-0.2	-0.6	2.3	-12.1	-3.6	10.8
Sep	2.0	2.9	-0.5	-6.7	-9.0	5.0
Oct	1.7	3.1	-1.0	0.8	-6.0	5.1
Nov	0.8	-0.3	-4.6	0.6	-10.5	4.6

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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	56.4	82.3	51.6	19.4	58.1	108.5	66.1
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z
2014	96.7	103.3	102.4	103.9	115.5	90.6	96.6
2015	98.1	102.9	100.1	104.2	100.6	96.2	95.7
2016	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2017	99.6	101.4	104.9	102.7	107.2	103.1	106.7
2018	97.5 ^T	99.8	119.9 ^T	96.6 ^T	110.3 ^T	101.8 ^T	105.0 ^T
2018 Q3	98.6 ^T	100.5	119.3 ^T	95.6 ^T	108.4 ^T	101.8 ^T	104.5 ^T
2018 Q4	97.0	96.8 ^T	120.9	97.9	107.6	98.2	104.0
2019 Q1	96.2	101.4	124.1	100.7	107.2	98.1	103.8
2019 Q2	94.2	98.8	121.2	101.4	105.2	92.8	105.6
2019 Q3	93.1	99.2	119.7	98.0	103.0	98.3	102.8
2018 Sep	98.2 ^T	100.2 ^T	116.4 ^T	95.2 ^T	107.5 ^T	101.7 ^T	104.3 ^T
2018 Oct	97.8	97.6	119.9	98.2	107.4	98.2	105.1
2018 Nov	97.6	95.6	121.6	97.7	108.0	98.1	105.3
2018 Dec	95.7	97.1	121.3	97.7	107.4	98.4	101.8
2019 Jan	95.9	100.2	122.7	100.1	107.1	97.4	102.4
2019 Feb	96.1	102.7	124.7	100.6	107.4	97.7	103.6
2019 Mar	96.5	101.2	124.9	101.4	107.0	99.1	105.2
2019 Apr	94.9	98.8	120.1	102.7	105.2	85.2	107.4
2019 May	94.0	99.7	123.9	101.3	105.0	94.6	106.2
2019 Jun	93.8	97.9	119.5	100.2	105.4	98.7	103.2
2019 Jul	93.9	99.7	120.2	99.3	102.4	98.8	102.1
2019 Aug	92.7	99.1	118.6	97.4	103.6	98.5	103.7
2019 Sep	92.8	98.8	120.3	97.2	103.0	97.7	102.5
2019 Oct	92.8	97.3	124.6	96.3	104.0	98.6	102.7
2019 Nov	92.2	97.0	121.3	96.3	101.3	95.2	102.8
Percentage change, latest year on previous year							
2014	9.5	2.3	3.7	-3.3	4.2	4.0	5.1
2015	1.5	-0.4	-2.2	0.3	-12.8	6.2	-0.9
2016	1.9	-2.8	-0.1	-4.1	-0.6	4.0	4.5
2017	-0.4	1.4	4.9	2.7	7.2	3.1	6.7
2018	-2.1 ^T	-1.6	14.3 ^T	-5.9 ^T	2.9 ^T	-1.3 ^T	-1.6 ^T
Percentage change, latest month on same month a year ago							
2017 Sep	-0.7	2.4	11.2	6.6	9.3	3.0	6.9
2017 Oct	-0.2	7.7	6.5	3.8	12.2	8.6	3.9
2017 Nov	1.2	4.7	7.5	-1.0	11.1	0.9	10.8
2017 Dec	-	3.5	3.4	2.7	10.3	1.8	6.8
2018 Jan	-0.7 ^T	0.7 ^T	13.5 ^T	-0.4 ^T	14.2 ^T	2.6 ^T	1.4 ^T
2018 Feb	-2.5	3.4	14.8	-5.3	2.7	3.1	-2.2
2018 Mar	-4.4	3.8	23.6	-3.0	10.4	0.8	-1.7
2018 Apr	-5.5	1.7	18.7	-5.5	10.6	-1.3	3.1
2018 May	-2.4	-3.1	20.3	-3.4	3.2	0.1	2.2
2018 Jun	2.1	-0.7	11.3	-11.9	7.5	2.9	-3.0
2018 Jul	0.8	1.6	19.4	-9.4	2.0	-4.8	-2.6
2018 Aug	-1.0	0.1	15.9	-4.0	2.1	-0.5	-2.6
2018 Sep	-1.5	-1.3	4.7	-9.4	-2.9	-0.8	-4.8
2018 Oct	-2.2	-6.0	10.9	-5.5	-3.1	-9.2	0.4
2018 Nov	-3.4	-8.1	12.3	-5.3	-4.0	-3.7	-2.2
2018 Dec	-3.9	-9.7	8.3	-7.4	-5.9	-4.2	-6.9
2019 Jan	-2.8	-1.5	3.9	-0.5	-9.0	-8.2	-4.6
2019 Feb	-	-0.5	5.4	2.8	-3.6	-8.0	-2.2
2019 Mar	0.8	-1.1	3.7	7.0	-6.5	-3.6	-0.5
2019 Apr	0.1	-2.4	1.2	6.5	-6.7	-16.8	2.1
2019 May	-4.1	2.8	1.3	4.6	-4.3	-7.6	0.8
2019 Jun	-6.2	-2.3	-0.5	8.2	-3.9	-2.6	-1.0
2019 Jul	-5.6	-1.1	-0.2	3.5	-5.6	-2.5	-2.6
2019 Aug	-5.7	-1.5	-2.1	1.8	-5.0	-3.9	-0.7
2019 Sep	-5.5	-1.4	3.4	2.2	-4.3	-3.9	-1.7
2019 Oct	-5.1	-0.4	3.9	-2.0	-3.1	0.4	-2.2
2019 Nov	-5.5	1.4	-0.2	-1.4	-6.2	-2.9	-2.3

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	119.1	22.9	54.0	8.1	47.0	55.1	
	K22B	K22P	K22T	K22X	K22Z	K239	
Percentage change, latest month on previous month							
2017	Sep	-0.4	-0.2	0.5	-0.6	1.1	-1.5
	Oct	0.8	-1.5	0.7	-0.5	-1.9	2.8
	Nov	0.6	2.0	-0.1	-4.2	0.5	1.0
	Dec	-0.9	0.5	0.1	0.6	-1.1	-1.9
2018	Jan	-0.1 [†]	-3.9 [†]	-1.7 [†]	-5.2 [†]	0.5 [†]	-0.7 [†]
	Feb	0.6	-2.7	0.3	-2.8	1.6	1.1
	Mar	0.4	2.6	-0.9	4.7	-1.0	-2.3
	Apr	0.2	-0.6	-0.5	2.9	-0.6	1.5
	May	1.4	0.1	2.1	-2.6	1.7	1.0
	Jun	0.7	0.2	-0.3	4.1	1.4	6.5
	Jul	1.2	1.7	1.7	-0.4	1.2	-10.0
	Aug	-0.5	-1.5	-3.6	5.6	-3.5	3.0
	Sep	-1.3	-2.4	2.0	-1.1	5.7	2.6
	Oct	0.6	-2.0	-0.4	-3.4	-2.3	2.0
	Nov	-0.9	1.6	2.0	-0.8	0.1	1.3
	Dec	0.4	-0.6	-2.5	0.5	1.7	-2.3
2019	Jan	2.2	2.3	2.0	4.6	1.6	8.9
	Feb	0.2	0.5	1.0	3.0	0.2	0.2
	Mar	1.8	1.1	1.9	-5.9	0.4	7.0
	Apr	-2.3	-0.8	-2.0	-4.0	-7.5	-8.0
	May	-1.5	-3.0	-3.3	2.1	1.6	-1.2
	Jun	-1.9	1.4	1.1	-8.3	-1.4	6.9
	Jul	1.2	3.2	-	5.3	-2.3	3.6
	Aug	1.5	-1.9	0.5	-3.8	-1.0	-9.0
	Sep	0.9	1.1	-0.8	5.0	-0.2	-2.9
	Oct	0.2	-1.8	-0.9	4.4	0.9	2.2
	Nov	-1.8	-1.7	-1.7	-1.0	-4.7	0.8
Percentage change, latest 3 months on same 3 months a year ago							
2017	Sep	-0.5	0.5	0.6	0.7	2.7	1.6
	Oct	-0.2	1.0	1.8	1.9	3.1	2.8
	Nov	0.3	2.6	2.2	-3.0	3.4	1.4
	Dec	0.3	4.4	2.0	-4.7	2.7	-3.3
2018	Jan	-0.7 [†]	4.1 [†]	0.5 [†]	-6.9	1.4 [†]	-5.2 [†]
	Feb	-1.4	0.9	-	-7.6 [†]	1.2	-2.7
	Mar	-1.2	-1.8	-1.1	-9.0	1.1	4.0
	Apr	-0.8	-2.7	-1.2	-8.5	1.0	4.8
	May	0.5	-2.3	-1.4	-8.1	0.2	2.3
	Jun	1.5	-1.6	-0.3	-7.2	0.8	2.9
	Jul	3.3	-0.7	1.6	-4.1	2.6	2.6
	Aug	3.6	-1.1	0.9	-0.5	2.1	2.1
	Sep	4.0	-2.7	0.6	1.6	2.7	1.2
	Oct	3.5	-4.9	-1.1	-0.3	2.6	1.9
	Nov	2.6	-5.9	-0.2	-0.3	3.9	3.1
	Dec	2.5	-6.5	-0.8	-0.2	4.6	2.8
2019	Jan	3.2	-5.0	0.3	4.3	5.8	6.1
	Feb	4.2	-2.3	0.9	9.8	6.7	8.9
	Mar	5.3	0.4	3.3	11.6	7.1	15.4
	Apr	4.7	0.9	4.0	7.3	4.6	14.8
	May	3.3	-0.7	2.5	2.7	2.6	13.8
	Jun	0.5	-1.4	0.6	-2.2	-0.8	9.3
	Jul	-1.4	-1.6	-1.3	-3.0	-2.9	14.0
	Aug	-1.6	-0.8	-	-8.2	-4.1	14.8
	Sep	-0.2	0.7	-0.1	-7.5	-6.3	13.6
	Oct	1.2	1.7	0.2	-6.1	-6.3	6.9
	Nov	1.5	1.9	-2.1	-1.8	-8.5	4.9

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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	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	56.4	82.3	51.6	19.4	58.1	108.5	66.1
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z
Percentage change, latest month on previous month†							
2017 Sep	0.4	1.0	6.4	5.4	3.7	-0.4	2.1
Oct	0.3	2.3	-2.8	-1.1	-	5.4	-4.5
Nov	1.0	-	0.2	-0.7	1.5	-5.8	2.9
Dec	-1.4	3.5	3.4	2.3	1.5	0.9	1.5
2018 Jan	-0.9 †	-5.5 †	5.5 †	-4.6 †	3.2 †	3.3 †	-1.8 †
Feb	-2.6	1.4	0.2	-2.8	-5.4	0.1	-1.3
Mar	-0.4	-0.8	1.7	-3.1	2.8	-3.2	-0.2
Apr	-0.9	-1.2	-1.4	1.7	-1.5	-0.4	-0.6
May	3.3	-4.1	3.0	0.4	-2.7	-	0.2
Jun	2.1	3.3	-1.8	-4.4	-	-1.1	-1.1
Jul	-0.6	0.5	0.3	3.6	-1.1	-	0.6
Aug	-1.2	-0.1	0.6	-0.2	0.5	1.2	-0.3
Sep	-	-0.4	-3.9	-0.6	-1.5	-0.8	-0.2
Oct	-0.5	-2.5	3.0	3.2	-0.1	-3.5	0.8
Nov	-0.2	-2.1	1.5	-0.5	0.6	-0.1	0.2
Dec	-1.9	1.6	-0.3	-	-0.6	0.4	-3.3
2019 Jan	0.3	3.2	1.2	2.5	-0.2	-1.0	0.6
Feb	0.2	2.5	1.6	0.5	0.2	0.3	1.1
Mar	0.4	-1.4	0.1	0.8	-0.3	1.4	1.6
Apr	-1.7	-2.4	-3.8	1.2	-1.8	-14.0	2.0
May	-1.0	1.0	3.1	-1.3	-0.2	11.0	-1.1
Jun	-0.2	-1.8	-3.5	-1.0	0.4	4.4	-2.8
Jul	-	1.8	0.6	-0.9	-2.8	0.1	-1.1
Aug	-1.3	-0.6	-1.3	-1.9	1.2	-0.3	1.6
Sep	0.2	-0.3	1.4	-0.2	-0.7	-0.8	-1.2
Oct	-	-1.6	3.6	-1.0	1.0	0.9	0.2
Nov	-0.7	-0.3	-2.6	-	-2.6	-3.4	0.1
Percentage change, latest 3 months on same 3 months a year ago							
2017 Sep	-0.3	0.2	5.9	6.5	7.2	3.8	7.3
Oct	-0.3	3.2	7.8	4.7	9.0	4.4	6.2
Nov	0.1	4.9	8.4	3.1	10.9	4.1	7.2
Dec	0.3	5.2	5.7	1.8	11.2	3.7	7.1
2018 Jan	0.1 †	3.0	8.0 †	0.4 †	11.9 †	1.8 †	6.2 †
Feb	-1.1	2.5	10.4	-1.0	9.0	2.5	1.9
Mar	-2.6	2.6 †	17.2	-2.9	9.0	2.2	-0.8
Apr	-4.1	3.0	18.9	-4.6	7.8	0.9	-0.3
May	-4.1	0.8	20.8	-4.0	8.0	-0.1	1.1
Jun	-1.9	-0.7	16.6	-7.0	7.1	0.5	0.7
Jul	0.2	-0.8	16.9	-8.3	4.2	-0.7	-1.2
Aug	0.6	0.3	15.4	-8.5	3.8	-0.9	-2.7
Sep	-0.6	0.1	13.1	-7.7	0.3	-2.1	-3.4
Oct	-1.5	-2.5	10.4	-6.4	-1.3	-3.6	-2.4
Nov	-2.4	-5.2	9.3	-6.8	-3.3	-4.7	-2.3
Dec	-3.1	-8.0	10.5	-6.1	-4.3	-5.8	-3.0
2019 Jan	-3.3	-6.5	8.1	-4.4	-6.3	-5.4	-4.6
Feb	-2.2	-4.0	5.8	-1.8	-6.2	-6.8	-4.6
Mar	-0.7	-1.0	4.3	3.0	-6.4	-6.6	-2.4
Apr	0.3	-1.3	3.4	5.4	-5.6	-9.4	-0.2
May	-1.1	-0.3	2.1	6.0	-5.9	-9.3	0.8
Jun	-3.5	-0.7	0.7	6.4	-5.0	-9.0	0.7
Jul	-5.3	-0.2	0.2	5.4	-4.6	-4.2	-0.9
Aug	-5.9	-1.6	-0.9	4.4	-4.9	-3.0	-1.4
Sep	-5.6	-1.3	0.3	2.5	-5.0	-3.4	-1.7
Oct	-5.4	-1.1	1.7	0.6	-4.2	-2.5	-1.6
Nov	-5.4	-0.1	2.3	-0.4	-4.5	-2.2	-2.1

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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	119.1	22.9	54.0	8.1	47.0	55.1	
	K22B	K22P	K22T	K22X	K22Z	K239	
Percentage change, latest 3 months on previous 3 months							
2017	Sep	-1.0	1.2	-0.5	-4.4	0.3	-1.5
	Oct	-0.4	1.7	1.3	0.7	0.7	1.0
	Nov	-0.2	1.4	1.7	-0.4	0.4	1.7
	Dec	0.5	0.8	1.6	-0.9	-0.9	3.2
2018	Jan	0.4 †	- †	- †	-6.0	-1.0 †	0.8 †
	Feb	-0.1	-2.1	-0.8	-6.6 †	-0.5	-0.5
	Mar	0.1	-3.8	-1.8	-6.5	0.7	-1.8
	Apr	0.6	-3.6	-1.6	-2.1	0.7	-1.1
	May	1.4	-0.9	-0.9	2.0	0.3	-0.5
	Jun	1.9	0.4	0.4	4.7	0.8	3.2
	Jul	2.7	1.3	1.9	3.4	2.2	2.0
	Aug	2.4	0.7	0.9	4.9	1.9	1.5
	Sep	1.4	-	0.4	4.8	2.2	-3.2
	Oct	-0.2	-2.5	-1.4	4.7	0.7	0.3
	Nov	-1.2	-3.6	0.6	-0.2	2.1	2.7
	Dec	-1.0	-3.2	0.2	-2.8	0.8	4.9
2019	Jan	-	-0.1	1.4	-1.6	2.1	4.9
	Feb	1.5	1.6	0.3	2.8	2.1	5.1
	Mar	2.8	3.2	2.3	4.6	3.1	10.3
	Apr	2.1	2.4	2.1	0.8	-0.4	7.0
	May	0.5	0.7	0.8	-4.6	-3.5	3.8
	Jun	-2.7	-1.4	-2.3	-8.2	-6.6	-2.3
	Jul	-3.3	-1.2	-3.3	-6.5	-5.1	1.2
	Aug	-2.3	0.6	-1.6	-6.3	-4.8	2.4
	Sep	0.8	2.2	-0.3	-0.9	-3.4	0.5
	Oct	2.4	0.7	0.1	1.3	-2.8	-5.9
	Nov	1.9	-0.9	-1.5	6.7	-2.5	-6.2

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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	56.4	82.3	51.6	19.4	58.1	108.5	66.1
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z
Percentage change, latest 3 months on previous 3 months							
2017 Sep	-0.4	0.2	2.3	1.1	4.5	2.4	3.8
Oct	0.6	1.9	4.3	-0.8	4.4	2.1	1.0
Nov	1.6	2.9	4.6	0.5	5.9	1.5	-0.1
Dec	1.0	4.8	3.7	0.6	4.1	0.2	-0.9
2018 Jan	0.1 †	2.4 †	4.5 †	0.2 †	4.8 †	-0.9 †	0.9 †
Feb	-2.1	1.0	6.4	-2.7	2.8	0.8	0.2
Mar	-3.3	-2.6	8.7	-6.2	1.9	0.8	-0.8
Apr	-4.2	-2.1	5.6	-6.5	-1.6	0.2	-2.3
May	-2.0	-3.8	3.7	-5.2	-1.8	-2.4	-2.0
Jun	0.8	-2.9	1.2	-2.5	-3.3	-2.9	-1.3
Jul	3.8	-2.8	1.5	-1.3	-3.2	-2.1	-0.8
Aug	3.2	0.3	0.1	-1.3	-2.8	-0.8	-0.9
Sep	1.0	1.0	-0.9	0.4	-2.1	-0.2	-0.4
Oct	-1.1	0.1	-1.5	1.3	-1.2	-0.9	-0.2
Nov	-1.4	-2.7	-1.0	2.4	-1.4	-2.4	0.3
Dec	-1.7	-3.7	1.3	2.3	-0.8	-3.6	-0.5
2019 Jan	-1.7	-1.9	2.3	2.2	-0.5	-2.8	-1.4
Feb	-2.0	2.2	3.0	2.5	-0.3	-1.5	-2.2
Mar	-0.9	4.7	2.6	2.9	-0.4	-0.1	-0.3
Apr	-0.6	3.3	1.1	3.1	-0.9	-4.1	2.2
May	-0.8	-0.1	-	2.3	-1.5	-5.0	3.6
Jun	-2.0	-2.5	-2.4	0.7	-1.9	-5.4	1.8
Jul	-2.0	-1.8	-1.6	-1.3	-2.1	3.6	-1.5
Aug	-1.8	-1.0	-2.8	-2.8	-1.8	6.2	-3.1
Sep	-1.2	0.4	-1.2	-3.3	-2.1	5.9	-2.7
Oct	-1.2	-0.7	-	-3.3	-0.7	0.9	-0.8
Nov	-0.9	-1.2	2.2	-2.4	-1.0	-1.6	-0.3

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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	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	47.5	748.5	108.7	95.3	34.6	68.2	211.6	272.3	252.2	182.5	
	K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K24O	K24T	
2014	-	-	-	-	-	-	-	-	-	-	-	
2015	-	-	-	-	-	-	-	-	-	-	-	
2016	-	-	-	-	-	-	-	-	-	-	-	
2017	-	-	-	-	-	-	-	-	-	-	-	
2018	0.6	0.5	0.5	0.3	2.3	0.1	1.1	0.3	0.2	1.1	0.4	
2018 Q3	0.7	0.2	0.6	0.7	2.7	-0.5	1.1	0.7	0.1	1.2	0.5	
Q4	0.6	0.6	0.3	-	3.6	0.9	1.2	0.6	-0.1	0.6	0.2	
2019 Q1	0.9	0.3	0.7	-	2.6	0.2	0.5	1.7	0.2	0.6	0.1	
Q2	0.9	0.2	0.8	-0.7	2.9	-0.2	-	1.6	0.7	0.3	-0.5	
Q3	0.9	1.9	1.0	-1.7	3.4	2.0	0.5	2.4	0.4	0.3	-0.3	
2018 Aug	0.7	0.5	0.5	0.6	2.4	-0.2	1.5	0.5	0.1	1.0	0.4	
Sep	0.8	-0.1	0.5	0.7	3.6	-0.7	0.9	0.7	-0.1	0.9	0.4	
Oct	0.7	0.7	0.4	-0.3	3.6	1.2	0.9	0.9	0.1	0.6	0.2	
Nov	0.6	0.3	0.2	-	3.7	0.4	1.2	0.3	-	0.6	0.1	
Dec	0.6	0.7	0.3	0.2	3.2	1.0	1.4	0.7	-0.3	0.6	0.4	
2019 Jan	0.8	-0.1	0.7	-0.3	3.0	0.2	1.6	1.6	0.3	0.3	-0.2	
Feb	0.8	0.4	0.8	-0.2	2.6	0.1	-0.2	1.5	0.1	0.8	-0.2	
Mar	1.0	0.6	0.8	0.7	2.3	0.4	-0.3	1.8	0.2	0.6	0.4	
Apr	0.9	0.5	0.8	0.4	2.7	-	-0.8	1.2	0.6	0.8	0.2	
May	0.8	0.2	0.8	-	3.1	-0.1	-0.1	1.6	0.5	0.3	-0.3	
Jun	0.8	-	1.1	-2.4	3.0	-0.5	0.6	2.1	1.1	0.1	-1.4	
Jul	0.9	1.1	1.0	-1.9	3.2	1.1	0.4	2.6	0.4	0.2	-0.6	
Aug	0.9	1.9	0.9	-1.8	3.5	1.9	0.5	1.8	0.9	0.2	-0.5	
Sep	1.1	2.7	1.0	-1.4	3.6	3.0	0.7	2.8	0.1	0.4	0.4	
Oct	1.3	3.1	1.4	-1.1	3.4	3.7	3.7	2.4	1.0	0.8	0.7	
Percentage change, latest year on previous year												
2014	-	-	-	-	-	-	-	-	-	-	-	
2015	-	-	-	-	-	-	-	-	-	-	-	
2016	-	-	-	-	-	-	-	-	-	-	-	
2017	-	-	-	-	-	-	-	-	-	-	-	
2018	0.7	0.5	0.5	0.3	2.3	0.2	1.2	0.3	0.2	1.1	0.4	
Percentage change, latest month on same month a year ago												
2017 Aug	-	-	-	-	-	-	-	-	-	-	-	
Sep	-	-	-	-	-	-	-	-	-	-	-	
Oct	-	-	-	-	-	-	-	-	-	-	-	
Nov	-	-	-	-	-	-	-	-	-	-	-	
Dec	-	-	-	-	-	-	-	-	-	-	-	
2018 Jan	0.3	0.5	0.2	0.3	0.5	-	0.2	-0.5	0.2	1.1	0.4	
Feb	0.4	0.7	0.5	0.3	-0.4	0.3	0.9	-0.2	0.6	1.1	0.4	
Mar	0.7	0.7	0.5	0.5	1.6	0.3	1.7	0.1	0.4	1.3	0.5	
Apr	0.7	0.5	0.6	-0.2	1.9	0.1	1.8	-0.3	0.8	1.5	0.1	
May	0.8	0.2	0.7	-	2.7	-0.1	1.5	-0.1	0.8	1.2	0.1	
Jun	0.9	0.6	0.5	1.1	2.8	0.3	0.7	0.3	-	1.5	1.0	
Jul	0.9	0.3	0.8	0.9	2.1	-0.5	1.1	1.1	0.1	1.6	0.6	
Aug	0.7	0.4	0.5	0.6	2.4	-0.2	1.5	0.5	0.1	1.1	0.5	
Sep	0.7	-0.1	0.5	0.7	3.4	-0.6	0.9	0.8	-0.1	1.0	0.3	
Oct	0.7	0.6	0.4	-0.3	3.5	1.1	0.9	0.8	0.1	0.6	0.1	
Nov	0.6	0.3	0.2	-	3.6	0.4	1.1	0.3	-	0.6	0.2	
Dec	0.6	0.8	0.4	0.1	3.2	1.2	1.2	0.7	-0.2	0.6	0.4	
2019 Jan	0.5	-0.6	0.4	-0.6	2.5	0.1	1.2	2.2	0.2	-0.8	-0.4	
Feb	0.4	-0.2	0.3	-0.5	3.0	0.1	-0.9	1.8	-0.4	-0.3	-0.7	
Mar	0.2	-0.3	0.3	0.3	0.6	-	-1.7	1.8	-	-0.7	-0.1	
Apr	0.2	-	0.2	0.6	0.8	-	-2.3	1.5	-0.1	-0.6	0.1	
May	-	-0.1	-	-0.1	0.3	-0.1	-1.3	1.6	-0.3	-1.0	-0.4	
Jun	-	-0.7	0.5	-3.8	0.4	-0.9	-0.1	1.8	1.1	-1.4	-2.4	
Jul	-	0.8	0.2	-2.7	1.1	1.4	-0.5	1.5	0.3	-1.3	-1.2	
Aug	0.2	1.4	0.4	-2.5	1.0	1.7	-0.9	1.2	0.6	-0.8	-0.9	
Sep	0.3	2.6	0.6	-2.3	-0.1	3.4	-0.2	2.1	0.3	-0.6	-	
Oct	0.7	2.2	0.9	-0.9	-0.1	2.3	2.4	1.4	0.8	0.2	0.6	

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.

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	47.5	748.5	108.7	95.3	34.6	68.2	211.6	272.3	252.2	182.5
	K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K24O	K24T
Percentage change, latest month on previous month											
2017	Aug	-	-	-	-	-	-	-	-	-	-
	Sep	-	-	-	-	-	-	-	-	-	-
	Oct	-	-	-	-	-	-	-	-	-	-
	Nov	-	-	-	-	-	-	-	-	-	-
	Dec	-	-	-	-	-	-	-	-	-	-
2018	Jan	0.2	0.5	0.3	0.2	0.4	0.1	0.3	-0.5	0.1	1.1
	Feb	0.2	0.2	0.2	-	-0.9	0.3	0.5	0.2	0.5	-
	Mar	0.2	0.1	-	0.2	2.1	-	0.7	0.2	-0.2	0.2
	Apr	-	-0.3	0.2	-0.6	0.1	-0.3	0.1	-0.3	0.4	0.1
	May	0.1	-0.2	0.1	0.1	0.8	-0.2	-0.3	0.2	0.1	-0.2
	Jun	-	0.4	-0.1	1.3	-	0.4	-0.6	0.3	-0.8	0.3
	Jul	0.1	-0.4	0.2	-0.4	-0.6	-0.8	0.3	0.8	0.1	0.1
	Aug	-0.2	0.1	-0.3	-0.2	0.3	0.3	0.4	-0.6	0.1	-0.6
	Sep	-	-0.4	-	0.1	1.1	-0.4	-0.5	0.2	-0.3	-0.1
	Oct	-0.1	0.7	-	-1.1	0.1	1.7	0.1	0.2	0.2	-0.4
	Nov	-0.1	-0.3	-0.2	0.3	0.1	-0.7	0.2	-0.5	-0.1	-
	Dec	0.1	0.3	0.1	0.1	-0.5	0.5	0.1	0.4	-0.2	-
2019	Jan	0.2	-0.7	0.4	-0.5	-0.2	-0.7	0.2	0.9	0.6	-0.3
	Feb	-	0.5	-	-	-0.4	-	-1.6	-0.1	-0.2	0.5
	Mar	0.1	0.1	0.1	1.1	-0.3	0.1	-0.1	0.2	0.1	-0.2
	Apr	0.1	-0.1	0.1	-0.4	0.4	-0.3	-0.5	0.3	0.3	0.2
	May	-0.1	-0.4	-0.1	-0.5	0.3	-0.1	0.7	0.4	-	-0.5
	Jun	-0.1	-0.2	0.3	-2.5	-	-0.4	0.6	0.6	0.5	-0.2
	Jul	0.1	1.1	-0.1	0.6	0.2	1.5	-0.3	0.4	-0.7	0.2
	Aug	-	0.8	-0.1	0.1	0.2	0.8	0.1	-0.8	0.5	0.1
	Sep	0.2	0.7	0.2	0.3	0.1	1.0	0.2	1.1	-0.6	0.1
	Oct	0.3	0.5	0.3	0.5	-	0.8	2.7	-0.5	0.8	0.4
Percentage change, latest 3 months on same 3 months a year ago											
2017	Aug	-	-	-	-	-	-	-	-	-	-
	Sep	-	-	-	-	-	-	-	-	-	-
	Oct	-	-	-	-	-	-	-	-	-	-
	Nov	-	-	-	-	-	-	-	-	-	-
	Dec	-	-	-	-	-	-	-	-	-	-
2018	Jan	-	0.1	0.1	0.1	0.1	-	0.1	-0.1	0.1	0.3
	Feb	0.2	0.4	0.3	0.2	-	0.1	0.4	-0.2	0.3	0.7
	Mar	0.4	0.7	0.4	0.4	0.5	0.2	1.0	-0.3	0.3	1.2
	Apr	0.5	0.7	0.5	0.2	1.0	0.2	1.5	-0.2	0.6	1.3
	May	0.7	0.5	0.6	0.1	2.1	0.1	1.6	-0.1	0.7	1.4
	Jun	0.7	0.5	0.6	0.3	2.4	0.1	1.3	-	0.5	1.4
	Jul	0.8	0.4	0.6	0.7	2.5	-0.1	1.0	0.5	0.2	1.5
	Aug	0.8	0.5	0.7	0.9	2.4	-0.1	1.1	0.6	0.1	1.4
	Sep	0.8	0.2	0.6	0.7	2.7	-0.5	1.1	0.8	-	1.2
	Oct	0.7	0.3	0.5	0.4	3.1	0.1	1.0	0.7	-	0.8
	Nov	0.7	0.3	0.4	0.2	3.6	0.3	1.0	0.6	-0.1	0.7
	Dec	0.6	0.6	0.3	-0.1	3.4	0.9	1.1	0.6	-0.1	0.6
2019	Jan	0.6	0.1	0.4	-0.1	3.1	0.5	1.2	1.1	-0.1	0.1
	Feb	0.5	-0.1	0.3	-0.4	2.9	0.4	0.5	1.6	-0.2	-0.2
	Mar	0.4	-0.4	0.3	-0.3	2.1	-	-0.6	2.0	-0.1	-0.6
	Apr	0.3	-0.2	0.2	0.1	1.4	-	-1.6	1.7	-0.2	-0.6
	May	0.2	-0.1	0.2	0.2	0.6	-	-1.8	1.7	-0.2	-0.8
	Jun	0.1	-0.3	0.2	-1.1	0.5	-0.3	-1.2	1.7	0.2	-1.1
	Jul	-	-	0.2	-2.2	0.6	0.2	-0.6	1.6	0.3	-1.2
	Aug	0.1	0.5	0.3	-3.0	0.8	0.8	-0.5	1.6	0.7	-1.2
	Sep	0.1	1.6	0.4	-2.5	0.7	2.1	-0.5	1.7	0.4	-0.9
	Oct	0.4	2.1	0.6	-1.9	0.2	2.5	0.4	1.6	0.6	-0.4

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

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	47.5	748.5	108.7	95.3	34.6	68.2	211.6	272.3	252.2	182.5
	K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K24O	K24T
Percentage change, latest 3 months on previous 3 months											
2017	Aug	-	-	-	-	-	-	-	-	-	-
	Sep	-	-	-	-	-	-	-	-	-	-
	Oct	-	-	-	-	-	-	-	-	-	-
	Nov	-	-	-	-	-	-	-	-	-	-
	Dec	-	-	-	-	-	-	-	-	-	-
2018	Jan	0.1	0.1	0.1	0.1	0.1	-	0.1	-0.2	0.1	0.4
	Feb	0.2	0.3	0.3	0.2	-	-	0.4	-0.3	0.3	0.8
	Mar	0.4	0.7	0.5	0.4	0.5	0.2	0.9	-0.3	0.3	1.1
	Apr	0.4	0.5	0.4	0.2	0.9	0.2	1.2	-0.1	0.5	0.9
	May	0.4	0.1	0.3	-0.1	2.1	-	1.1	0.2	0.4	0.6
	Jun	0.3	-0.2	0.2	-	1.9	-0.1	0.3	0.2	0.2	0.2
	Jul	0.2	-0.3	0.1	0.4	1.4	-0.3	-0.3	0.6	-0.3	0.1
	Aug	0.1	-0.1	-0.1	0.8	0.3	-0.2	-0.4	0.8	-0.6	-
	Sep	0.1	-0.2	-	0.4	0.2	-0.5	-0.1	0.8	-0.5	-0.2
	Oct	-0.1	-0.1	-0.2	-0.4	0.6	0.2	0.1	0.2	-0.3	-0.6
	Nov	-0.1	-0.2	-0.2	-0.7	1.1	0.4	-0.1	-	-0.1	-0.6
	Dec	-0.2	0.3	-0.2	-0.7	0.8	1.2	-0.1	-0.1	-0.1	-0.7
2019	Jan	-	-0.1	-0.1	-0.4	0.2	0.3	0.2	0.2	-0.1	-0.4
	Feb	0.1	-	0.2	-0.3	-0.6	0.2	-	0.7	0.1	-0.1
	Mar	0.2	-0.2	0.4	-	-0.8	-0.6	-0.7	1.0	0.3	-
	Apr	0.2	0.2	0.3	0.4	-0.7	-0.3	-1.5	0.6	0.3	0.2
	May	0.1	0.1	0.2	0.6	-0.3	-0.3	-1.2	0.2	0.3	-
	Jun	0.1	-0.1	0.2	-0.8	0.3	-0.4	-0.4	0.1	0.5	-0.2
	Jul	-	-0.1	0.2	-1.8	0.6	-0.1	0.6	0.6	0.4	-0.6
	Aug	-	0.5	0.2	-2.6	0.5	0.7	0.7	0.6	0.3	-0.4
	Sep	0.1	1.6	0.1	-1.1	0.4	2.0	0.5	0.8	-0.3	-0.1
	Oct	0.2	2.1	0.2	-	0.3	2.5	1.2	0.2	-	0.3

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

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

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	119.1	22.9	54.0	8.1	47.0	55.1
	K22B	K22P	K22T	K22X	K22Z	K239
2014	-	-	-	-	-	-
2015	-	-	-	-	-	-
2016	-	-	-	-	-	-
2017	-	-	-	-	-	-
2018	0.5	2.7	1.5	0.2	1.3	-0.2
2018 Q3	0.6	2.9	1.6	0.7	1.7	1.2
2018 Q4	0.1	2.3	1.6	-0.4	1.4	1.8
2019 Q1	0.1	2.1	0.8	0.2	1.0	5.8
2019 Q2	-0.3	1.3	0.5	0.4	0.6	6.1
2019 Q3	0.2	2.8	1.3	4.8	-0.9	6.2
2018 Aug	0.4	2.7	1.0	1.1	1.9	0.9
2018 Sep	0.3	3.2	1.5	-0.1	1.7	1.9
2018 Oct	0.2	2.0	1.9	-0.5	1.5	2.4
2018 Nov	0.1	3.2	1.5	-0.7	0.7	0.3
2018 Dec	0.3	1.5	1.4	-0.2	1.9	2.7
2019 Jan	-	3.0	0.5	0.1	0.6	6.0
2019 Feb	-	1.7	1.2	0.7	1.3	5.6
2019 Mar	0.4	1.5	0.8	-0.1	1.2	5.7
2019 Apr	-	1.7	0.5	0.2	1.3	4.4
2019 May	-0.1	1.0	0.5	0.4	1.4	5.0
2019 Jun	-0.8	1.4	0.4	0.6	-0.9	8.7
2019 Jul	-0.5	2.3	1.0	3.2	-0.9	8.7
2019 Aug	0.2	2.7	1.4	1.7	-1.3	3.8
2019 Sep	0.8	3.4	1.5	9.6	-0.7	6.1
2019 Oct	0.3	1.3	0.9	6.3	0.1	6.4
Percentage change, latest year on previous year						
2014	-	-	-	-	-	-
2015	-	-	-	-	-	-
2016	-	-	-	-	-	-
2017	-	-	-	-	-	-
2018	0.5	2.7	1.5	0.2	1.3	-0.2
Percentage change, latest month on same month a year ago						
2017 Aug	-	-	-	-	-	-
2017 Sep	-	-	-	-	-	-
2017 Oct	-	-	-	-	-	-
2017 Nov	-	-	-	-	-	-
2017 Dec	-	-	-	-	-	-
2018 Jan	0.1	2.1	1.3	-0.1	0.6	-1.5
2018 Feb	0.4	2.6	1.2	1.0	0.8	-2.0
2018 Mar	0.6	3.8	1.4	-0.2	1.4	-2.1
2018 Apr	0.2	3.1	1.6	0.1	1.4	-2.4
2018 May	0.6	2.7	1.6	-	1.3	-1.9
2018 Jun	1.1	3.2	1.7	0.9	1.7	-1.7
2018 Jul	1.4	2.8	2.2	1.1	1.5	0.8
2018 Aug	0.5	2.6	1.0	1.1	1.8	0.9
2018 Sep	0.3	3.1	1.4	-	1.6	1.9
2018 Oct	0.1	2.0	1.9	-0.5	1.5	2.4
2018 Nov	0.1	3.2	1.5	-0.7	0.7	0.3
2018 Dec	0.3	1.5	1.4	-0.2	1.9	2.7
2019 Jan	-0.1	0.9	-0.9	0.2	-0.1	7.8
2019 Feb	-0.4	-1.0	-0.1	-0.5	0.5	7.5
2019 Mar	-0.2	-2.5	-0.8	0.1	-0.3	8.2
2019 Apr	-0.3	-1.4	-1.1	-	-0.2	6.9
2019 May	-0.6	-1.8	-1.1	0.4	0.1	6.9
2019 Jun	-1.9	-1.8	-1.3	-0.2	-2.5	9.7
2019 Jul	-1.8	-0.5	-1.1	2.3	-2.1	8.1
2019 Aug	-0.3	0.1	0.4	0.7	-3.0	2.9
2019 Sep	0.5	0.3	-	9.4	-2.0	4.2
2019 Oct	0.2	-0.9	-1.1	6.9	-1.2	3.7

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

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

Output of the Production Industries

Chained volume indices of gross value 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	56.4	82.3	51.6	19.4	58.1	108.5	66.1
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z
2014	-	-	-	-	-	-	-
2015	-	-	-	-	-	-	-
2016	-	-	-	-	-	-	-
2017	-	-	-	-	-	-	-
2018	0.8	-	1.7	1.3	0.7	-0.2	-0.9
2018 Q3	1.1	-	1.8	0.8	0.8	-0.7	-1.3
2018 Q4	0.6	-1.1	1.5	1.6	0.5	-0.8	-0.9
2019 Q1	0.7	0.1	0.3	-0.5	1.1	-0.7	1.2
2019 Q2	0.7	0.2	-0.3	-0.1	0.9	-	2.6
2019 Q3	0.9	0.6	0.2	0.8	1.4	-0.3	1.1
2018 Aug	1.3	-0.2	2.6	-0.1	0.6	-0.6	-1.5
2018 Sep	1.0	-0.6	1.1	0.9	0.9	-0.7	-1.0
2018 Oct	0.8	-1.6	1.2	2.4	0.7	-0.8	-
2018 Nov	0.9	-1.0	1.8	2.7	0.5	-0.8	-1.1
2018 Dec	0.1	-0.7	1.7	-0.4	0.3	-0.9	-1.4
2019 Jan	0.5	-0.3	1.5	-0.5	1.1	-0.9	0.9
2019 Feb	0.7	0.4	-0.4	-0.5	1.2	-1.0	1.5
2019 Mar	0.8	-	-0.2	-0.5	0.9	-0.4	0.9
2019 Apr	0.9	0.4	-1.3	-0.2	0.5	0.3	2.6
2019 May	0.6	0.2	-0.2	-0.9	0.7	-0.3	2.4
2019 Jun	0.6	0.1	0.4	0.7	1.6	0.1	2.9
2019 Jul	0.7	0.8	-	1.0	0.2	0.1	1.2
2019 Aug	0.5	0.9	0.2	0.7	2.5	-0.1	1.4
2019 Sep	1.6	0.2	0.4	0.6	1.5	-0.8	0.7
2019 Oct	2.0	0.3	4.0	3.8	2.2	-0.6	0.4
Percentage change, latest year on previous year							
2014	-	-	-	-	-	-	-
2015	-	-	-	-	-	-	-
2016	-	-	-	-	-	-	-
2017	-	-	-	-	-	-	-
2018	0.8	-	1.6	1.3	0.7	-0.2	-0.9
Percentage change, latest month on same month a year ago							
2017 Aug	-	-	-	-	-	-	-
2017 Sep	-	-	-	-	-	-	-
2017 Oct	-	-	-	-	-	-	-
2017 Nov	-	-	-	-	-	-	-
2017 Dec	-	-	-	-	-	-	-
2018 Jan	1.0	-0.1	0.4	2.5	0.6	0.3	-0.8
2018 Feb	0.9	0.2	1.2	2.2	0.5	0.6	-0.2
2018 Mar	0.8	0.8	2.4	0.3	0.6	0.2	-1.4
2018 Apr	0.8	0.9	2.3	1.3	0.9	0.7	-0.5
2018 May	0.8	0.7	2.1	1.5	1.0	0.6	-0.2
2018 Jun	0.6	1.3	1.1	0.1	0.8	-0.2	-1.7
2018 Jul	1.1	0.7	1.7	1.6	1.0	-0.5	-1.2
2018 Aug	1.2	-0.2	2.5	-0.1	0.5	-0.6	-1.4
2018 Sep	1.0	-0.6	1.0	0.9	0.9	-0.7	-0.9
2018 Oct	0.8	-1.5	1.1	2.3	0.6	-0.8	-0.1
2018 Nov	0.8	-1.1	1.6	2.6	0.4	-0.8	-1.0
2018 Dec	0.1	-0.6	1.5	-0.4	0.3	-0.8	-1.3
2019 Jan	-0.5	-0.1	0.9	-3.1	0.5	-1.1	1.6
2019 Feb	-0.2	0.2	-1.5	-3.1	0.5	-1.5	1.6
2019 Mar	-	-0.7	-2.3	-0.8	0.3	-0.6	2.3
2019 Apr	0.1	-0.7	-3.1	-1.8	-0.4	-0.3	3.0
2019 May	-0.2	-0.5	-2.0	-2.6	-0.3	-0.8	2.5
2019 Jun	0.1	-1.1	-0.7	0.6	0.7	0.3	4.4
2019 Jul	-0.3	0.1	-1.4	-0.8	-0.6	0.7	2.4
2019 Aug	-0.7	1.0	-2.0	0.9	1.8	0.5	2.8
2019 Sep	0.7	0.7	-0.6	-0.3	0.5	-0.1	1.6
2019 Oct	1.3	1.8	2.3	1.5	1.5	0.2	0.4

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.

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	119.1	22.9	54.0	8.1	47.0	55.1
	K22B	K22P	K22T	K22X	K22Z	K239
Percentage change, latest month on previous month						
2017						
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-
Oct	-	-	-	-	-	-
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
2018						
Jan	0.1	2.0	1.3	-0.1	0.6	-1.5
Feb	0.3	0.7	-0.1	1.1	0.1	-0.2
Mar	0.2	1.2	0.2	-1.4	0.6	-0.2
Apr	-0.4	-0.8	0.2	0.3	0.1	-0.4
May	0.3	-0.4	-0.1	-0.1	-0.2	0.6
Jun	0.5	0.4	0.1	0.9	0.4	0.3
Jul	0.1	-0.4	0.4	0.2	-0.2	2.2
Aug	-0.9	-0.2	-1.0	-	0.4	0.2
Sep	-0.1	0.5	0.4	-1.1	-0.3	1.0
Oct	-0.1	-1.1	0.4	-0.4	-0.1	0.6
Nov	-0.1	1.1	-0.4	-0.2	-0.8	-2.3
Dec	0.2	-1.8	-0.1	0.5	1.2	2.3
2019						
Jan	-0.3	1.4	-1.1	0.3	-1.4	3.2
Feb	-	-1.3	0.7	0.6	0.7	-0.4
Mar	0.4	-0.3	-0.3	-0.7	-0.1	-0.3
Apr	-0.4	0.3	-0.2	0.2	0.2	-0.8
May	-0.1	-0.8	-0.2	0.2	-	0.7
Jun	-0.7	0.3	-	0.3	-2.2	3.1
Jul	0.2	1.0	0.5	2.9	0.1	-0.3
Aug	0.7	0.4	0.4	-1.5	-0.5	-3.6
Sep	0.7	0.8	-	8.7	0.5	2.2
Oct	-0.4	-2.2	-0.6	-4.2	0.8	0.1
Percentage change, latest 3 months on same 3 months a year ago						
2017						
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-
Oct	-	-	-	-	-	-
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
2018						
Jan	0.1	0.7	0.4	-	0.2	-0.4
Feb	0.2	1.6	0.8	0.3	0.4	-1.1
Mar	0.4	2.8	1.3	0.2	0.9	-1.8
Apr	0.4	3.2	1.4	0.2	1.2	-2.2
May	0.5	3.2	1.5	-0.1	1.3	-2.1
Jun	0.7	3.0	1.6	0.4	1.4	-2.0
Jul	1.0	3.0	1.8	0.7	1.4	-1.0
Aug	1.0	2.8	1.6	1.0	1.6	-
Sep	0.7	2.9	1.5	0.7	1.6	1.3
Oct	0.3	2.6	1.4	0.2	1.6	1.8
Nov	0.2	2.8	1.7	-0.4	1.3	1.5
Dec	0.2	2.2	1.6	-0.5	1.4	1.8
2019						
Jan	0.1	1.9	0.7	-0.2	0.8	3.5
Feb	-0.1	0.6	0.2	-0.1	0.8	5.9
Mar	-0.2	-0.8	-0.6	-	0.1	7.8
Apr	-0.3	-1.6	-0.6	-	-	7.5
May	-0.4	-1.8	-1.0	0.2	-0.1	7.4
Jun	-1.0	-1.6	-1.2	0.1	-0.8	7.8
Jul	-1.5	-1.4	-1.2	0.8	-1.5	8.4
Aug	-1.4	-0.7	-0.7	0.9	-2.5	7.1
Sep	-0.6	-	-0.3	4.2	-2.4	5.1
Oct	0.2	-0.3	-0.3	5.6	-2.1	3.6

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.

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	56.4	82.3	51.6	19.4	58.1	108.5	66.1
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z
Percentage change, latest month on previous month†							
2017 Aug	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-
2018 Jan	0.9	-0.2	0.4	2.4	0.6	0.2	-0.8
Feb	-0.1	0.2	0.7	-0.2	0.1	0.4	0.6
Mar	-	0.7	0.9	-2.0	-	-0.4	-1.3
Apr	-	0.2	-	1.2	0.3	0.4	0.9
May	-0.1	-0.3	-0.2	0.1	0.1	-0.1	0.3
Jun	-0.2	0.6	-0.8	-1.5	-0.2	-0.8	-1.5
Jul	0.5	-0.6	0.4	1.7	0.1	-0.4	0.5
Aug	0.2	-0.8	0.8	-1.8	-0.5	-0.1	-0.2
Sep	-0.2	-0.4	-1.2	1.0	0.3	-0.1	0.4
Oct	-0.3	-0.9	0.1	1.6	-0.2	-0.2	1.0
Nov	0.1	0.5	0.5	0.3	-0.2	-	-1.0
Dec	-0.7	0.4	-0.1	-3.2	-0.2	-	-0.3
2019 Jan	0.5	0.5	-0.2	-0.1	0.8	-	2.2
Feb	0.2	0.6	-1.6	-	-	-0.1	0.5
Mar	0.1	-0.3	0.1	-	-0.1	0.6	-0.5
Apr	-	0.3	-0.8	0.2	-0.5	0.6	1.5
May	-0.3	-0.1	0.8	-0.6	0.2	-0.8	-0.2
Jun	-	-	0.5	1.7	0.8	0.6	0.6
Jul	-	0.6	-0.3	0.3	-1.2	-	-1.7
Aug	-0.2	0.1	0.2	-0.3	2.2	-0.3	0.2
Sep	1.2	-0.7	0.1	-0.1	-1.1	-0.7	-0.7
Oct	0.4	-	3.0	3.3	0.7	0.3	-0.3
Percentage change, latest 3 months on same 3 months a year ago†							
2017 Aug	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-
2018 Jan	0.3	-	0.1	0.8	0.2	0.1	-0.3
Feb	0.6	-	0.5	1.6	0.4	0.3	-0.4
Mar	0.8	0.3	1.4	1.7	0.6	0.4	-0.8
Apr	0.9	0.7	2.0	1.3	0.7	0.5	-0.7
May	0.8	0.8	2.3	1.0	0.8	0.5	-0.8
Jun	0.8	1.0	1.8	1.0	1.0	0.3	-0.8
Jul	0.9	0.8	1.6	1.1	1.0	-0.1	-1.1
Aug	0.9	0.5	1.7	0.6	0.8	-0.5	-1.4
Sep	1.1	-0.1	1.7	0.8	0.7	-0.7	-1.2
Oct	1.1	-0.8	1.5	1.0	0.7	-0.7	-0.8
Nov	0.8	-1.1	1.3	1.9	0.7	-0.8	-0.7
Dec	0.6	-1.1	1.4	1.5	0.5	-0.8	-0.8
2019 Jan	0.2	-0.6	1.4	-0.2	0.4	-0.9	-0.3
Feb	-0.1	-0.2	0.3	-2.1	0.4	-1.1	0.6
Mar	-0.2	-0.2	-1.0	-2.4	0.5	-1.0	1.9
Apr	-	-0.4	-2.3	-1.9	0.1	-0.8	2.3
May	-0.1	-0.7	-2.4	-1.8	-0.2	-0.6	2.6
Jun	-	-0.8	-1.9	-1.3	-	-0.3	3.3
Jul	-0.1	-0.5	-1.4	-1.0	-0.1	0.1	3.1
Aug	-0.4	0.1	-1.3	0.2	0.6	0.5	3.2
Sep	-0.1	0.6	-1.4	-0.1	0.5	0.4	2.2
Oct	0.4	1.2	-0.1	0.6	1.2	0.2	1.6

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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	119.1	22.9	54.0	8.1	47.0	55.1
	K22B	K22P	K22T	K22X	K22Z	K239

Percentage change, latest 3 months on previous 3 months

2017	Aug	-	-	-	-	-	-
	Sep	-	-	-	-	-	-
	Oct	-	-	-	-	-	-
	Nov	-	-	-	-	-	-
	Dec	-	-	-	-	-	-
2018	Jan	0.1	0.7	0.4	-	0.2	-0.5
	Feb	0.1	1.6	0.8	0.3	0.5	-1.1
	Mar	0.4	2.8	1.3	0.2	0.9	-1.8
	Apr	0.4	2.5	1.0	0.3	1.0	-1.5
	May	0.3	1.7	0.7	-0.3	0.9	-0.9
	Jun	0.3	0.2	0.4	0.1	0.6	-0.1
	Jul	0.6	-0.3	0.4	0.4	0.2	1.2
	Aug	0.4	-0.4	0.1	1.1	0.2	2.1
	Sep	-	-0.2	-0.2	0.4	0.1	3.0
	Oct	-0.8	-0.2	-0.3	-0.5	0.2	2.7
	Nov	-0.8	-	0.1	-1.4	-0.4	1.5
	Dec	-0.5	-0.5	0.1	-1.2	-0.3	0.6
2019	Jan	-0.2	-	-0.3	-0.4	-0.6	1.1
	Feb	-0.1	-0.8	-0.6	0.6	-0.1	3.1
	Mar	-0.1	-0.4	-0.8	0.7	-0.4	3.8
	Apr	-0.1	-1.0	-0.3	0.6	0.3	2.0
	May	-	-0.7	-0.4	-0.1	0.1	-
	Jun	-0.4	-0.6	-0.4	0.2	-0.3	0.3
	Jul	-0.6	-0.1	-0.3	1.2	-1.2	1.9
	Aug	-0.5	0.8	0.3	1.7	-2.2	1.8
	Sep	0.5	1.5	0.8	4.7	-1.5	0.2
	Oct	0.9	0.9	0.6	4.7	-0.5	-1.4

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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	56.4	82.3	51.6	19.4	58.1	108.5	66.1
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z
Percentage change, latest 3 months on previous 3 months							
2017 Aug	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-
2018 Jan	0.3	-0.1	0.2	0.9	0.1	0.1	-0.2
Feb	0.6	-	0.6	1.5	0.4	0.3	-0.4
Mar	0.9	0.2	1.3	1.6	0.6	0.4	-0.8
Apr	0.5	0.6	1.6	0.6	0.5	0.4	-0.4
May	0.2	0.8	1.4	-0.4	0.5	0.2	-0.4
Jun	-0.2	0.7	0.4	-0.6	0.4	-	-
Jul	-	0.3	-0.3	-0.2	0.2	-0.6	-0.4
Aug	0.1	-0.3	-0.4	-0.5	-	-0.9	-0.8
Sep	0.3	-1.1	-0.1	-0.1	-0.1	-1.0	-0.4
Oct	0.2	-1.7	-	-0.1	-0.2	-0.7	0.2
Nov	-0.1	-1.6	-0.4	1.5	-0.1	-0.4	0.7
Dec	-0.6	-1.1	-0.2	0.7	-0.4	-0.2	0.4
2019 Jan	-0.5	-	-	-0.6	-0.1	-0.1	0.3
Feb	-0.5	0.8	-0.4	-2.7	0.2	-0.2	1.0
Mar	0.1	1.2	-1.1	-2.2	0.5	0.1	1.8
Apr	0.3	0.9	-2.0	-1.1	0.2	0.4	2.2
May	0.4	0.4	-1.3	-0.1	-0.2	0.7	1.6
Jun	0.1	0.2	-0.6	0.4	-0.2	0.7	1.5
Jul	-0.1	0.1	0.6	0.7	-	0.4	0.5
Aug	-0.2	0.4	0.7	1.3	0.7	0.3	-0.1
Sep	0.2	0.4	0.5	1.0	0.5	-0.3	-1.4
Oct	0.8	0.1	1.2	1.4	1.2	-0.5	-1.3

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