

Statistical bulletin

Index of Production, UK: September 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.



Contact:
Mark Stephens
indexofproduction@ons.gov.uk
+44 (0) 1633 456387

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1 . Main points

- Total production output was flat at 0.0% for Quarter 3 (July to Sept) 2019, compared with Quarter 2 (Apr to June) 2019; manufacturing output was also flat at 0.0%, with falls in mining and quarrying (1.7%) and electricity and gas (0.7%), offset by a rise in water and waste (1.2%).
- Negative contributions to quarterly growth by eight of the subsectors is almost wholly offset by notable strength from transport equipment (6.2%), mainly because of significant weakness during Quarter 2 2019, rather than notable strength during Quarter 3 2019.
- Production output fell by 0.3% between August 2019 and September 2019; manufacturing provided the largest downward contribution (0.4%), followed by electricity and gas (0.5%).
- The 0.4% monthly decrease in manufacturing output was widespread with falls in 8 of the 13 subsectors; the largest downward contribution came from a 5.1% fall in basic pharmaceutical products.
- For Quarter 3 2019, production output decreased by 1.4% compared with Quarter 3 2018; led by a fall in manufacturing of 1.4% and supported by falls in mining and quarrying (5.3%) and electricity and gas (1.0%).

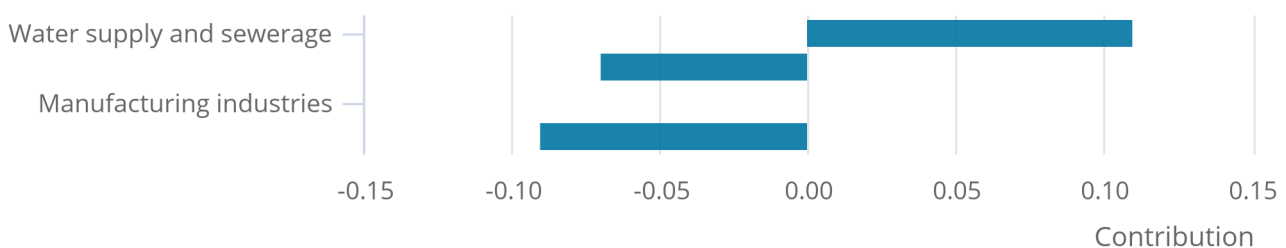
2 . Production

Figure 1: Flat total production output is mainly because of a flat contribution from manufacturing, while the other three sectors counterbalance

Seasonally adjusted, UK, contributions to the Index of Production quarter on previous quarter, September 2019

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Seasonally adjusted, UK, contributions to the Index of Production quarter on previous quarter, September 2019



Source: Office for National Statistics – Index of Production

Notes:

1. Weights for main IoP sectors are: Sector B - Mining and Quarrying (4.7); Sector C - Manufacturing (74.9); Sector D - Electricity and Gas (10.9); Sector E - Water and Waste (9.5).

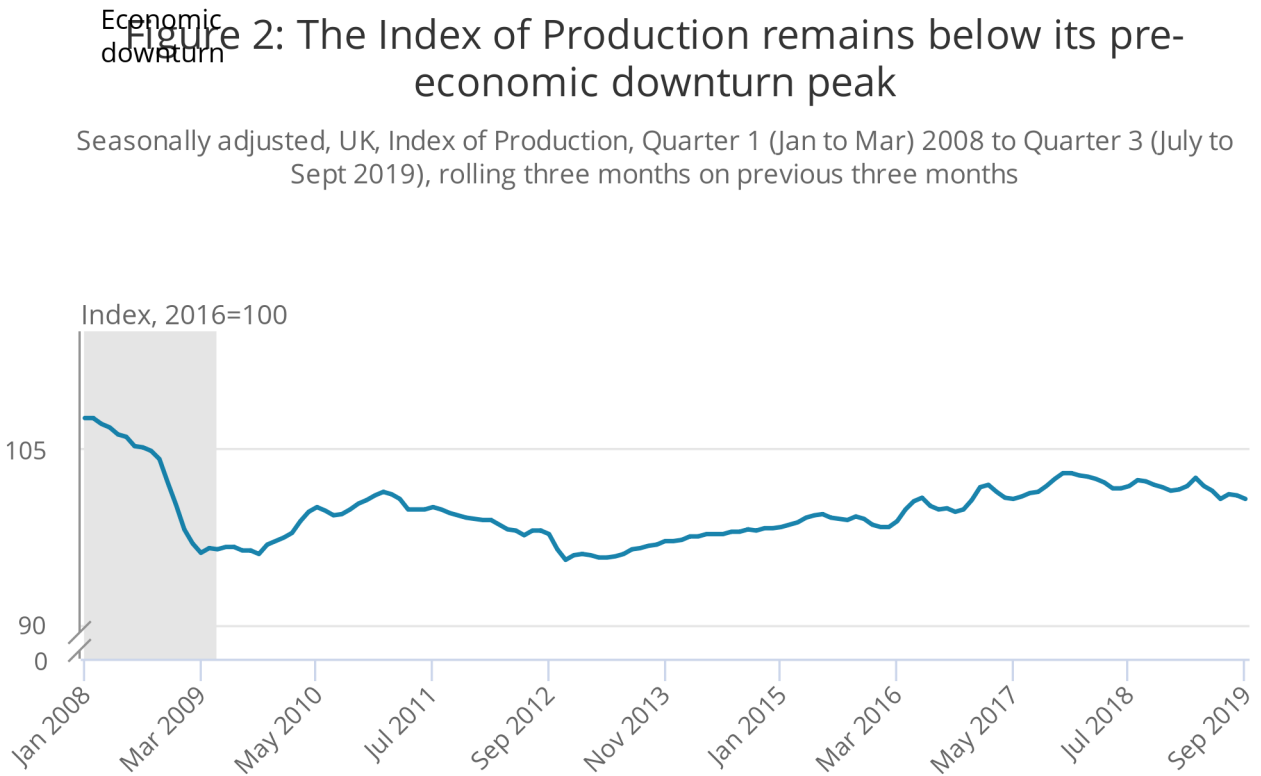
Total production output for Quarter 3 (July to Sept) 2019 remained flat at 0.0%, compared with Quarter 2 (Apr to June) 2019, which fell by 1.8%. The current quarterly growth was mainly because of manufacturing output remaining flat at 0.0%, with falls in mining and quarrying (1.7%) and electricity and gas (0.7%), partially offset by a rise in water and waste (1.2%).

Table 1: Growths and contributions to production, UK, September 2019, seasonally adjusted estimates

Sector	Summary description	Three months on previous three months		Three months on same three months a year ago		Month on previous month	
		Growth (%)	Contribution to production (% points)	Growth (%)	Contribution to production (% points)	Growth (%)	Contribution to production (% points)
IoP	Index of Production	0.0	0.0	-1.4	-1.4	-0.3	-0.3
Sector B	Total mining and quarrying	-1.7	-0.09	-5.3	-0.27	1.8	0.09
5	Coal and lignite	5.7	0.00	-10.1	0.00	-1.8	0.00
6	Crude petroleum and natural gas	-2.4	-0.09	-6.5	-0.25	2.2	0.08
789	Other mining and quarrying	0.3	0.00	-1.3	-0.02	0.7	0.01
Sector C	Total manufacturing	0.0	0.00	-1.4	-1.09	-0.4	-0.33
CA	Food, beverages and tobacco	0.3	0.04	0.4	0.05	0.2	0.03
CB	Textiles and leather products	0.7	0.01	0.7	0.02	0.3	0.01
CC	Wood, paper and printing	-1.1	-0.06	0.2	0.01	-0.8	-0.04
CD	Coke and petroleum	-5.6	-0.04	-11.7	-0.09	-3.7	-0.03
CE	Chemical products	-1.9	-0.09	-3.9	-0.19	-0.7	-0.04
CF	Pharmaceutical products	0.3	0.02	8.5	0.45	-5.1	-0.29
CG	Rubber and plastic products	-1.4	-0.08	-5.5	-0.29	-1.0	-0.05
CH	Metal products	0.0	0.00	-1.9	-0.16	0.4	0.03
CI	Computer, electronic and optical	-1.7	-0.11	1.7	0.10	1.3	0.08
CJ	Electrical equipment	-4.3	-0.08	2.6	0.05	-0.1	0.00
CK	Machinery and equipment	-2.6	-0.15	-5.5	-0.34	0.4	0.02
CL	Transport equipment	6.2	0.62	-3.8	-0.41	-0.1	-0.01
CM	Other manufacturing and repair	-1.3	-0.09	-3.9	-0.27	-0.5	-0.03
Sector D	Total electricity and gas	-0.7	-0.07	-1.0	-0.10	-0.5	-0.05
35.1	Electric power generation, transmission and distribution	-0.1	-0.01	-0.9	-0.07	-0.5	-0.04
35.2-3	Manufacture of gas; distribution of gaseous fuels through mains; steam and aircon supply	-2.8	-0.07	-1.4	-0.03	-0.8	-0.02
Sector E	Total water and waste	1.2	0.11	0.1	0.01	0.1	0.01
36	Water collection, treatment and supply	2.2	0.07	-1.2	-0.04	0.3	0.01
37	Sewerage	-0.4	-0.01	-5.7	-0.19	-0.7	-0.02
38	Waste collection, treatment and disposal activities; materials recovery	1.7	0.05	7.4	0.22	0.6	0.02
39	Remediation activities and other waste management services	0.8	0.00	7.8	0.01	1.8	0.00

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

Seasonally adjusted, UK, Index of Production, Quarter 1 (Jan to Mar) 2008 to Quarter 3 (July to Sept 2019), rolling three months on previous three months



Source: Office for National Statistics – Index of Production

Notes:

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

Figure 2 shows that growth for the Index of Production (IoP) was more pronounced from the beginning of 2010, as the economy recovered, before a downturn during 2012. Production output in the UK remained 6.0% lower in Quarter 3 2019 than the pre-downturn peak for Quarter 1 (Jan to Mar) 2008.

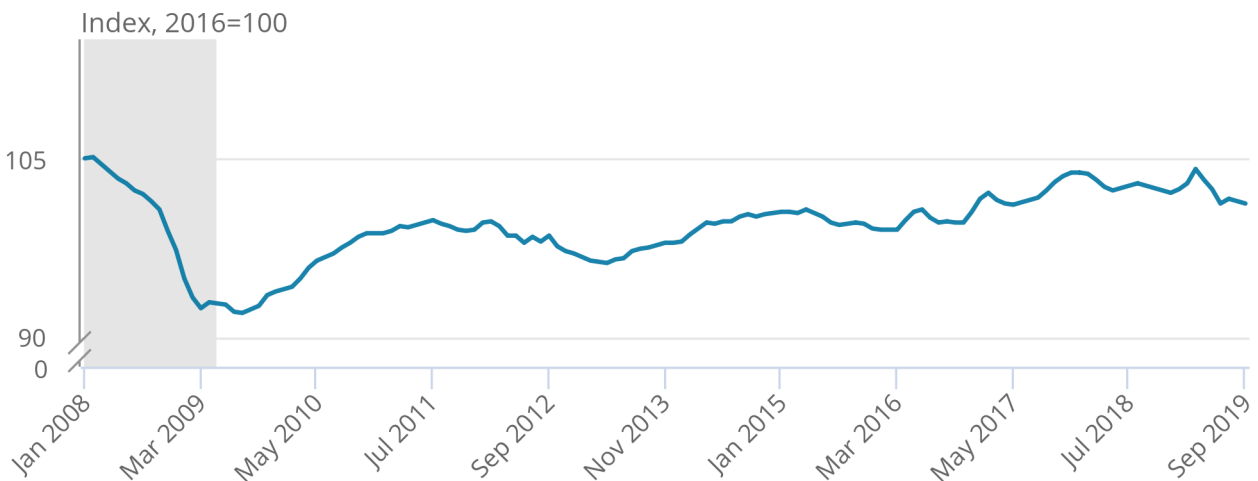
3 . Manufacturing

Figure 3: The Index of Manufacturing remains below its pre-economic downturn peak

Seasonally adjusted, UK, Index of Manufacturing, Quarter 1 (Jan to Mar) 2008 to Quarter 3 (Jul to Sep) 2019, rolling three months on previous three months

Figure 3: The Index of Manufacturing remains below its pre-economic downturn peak

Seasonally adjusted, UK, Index of Manufacturing, Quarter 1 (Jan to Mar) 2008 to Quarter 3 (Jul to Sep) 2019, rolling three months on previous three months



Source: Office for National Statistics – Index of Production

Notes:

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

Figure 3 shows that growth for the Index of Manufacturing was more pronounced from the beginning of 2010, as the economy recovered, before a downturn during 2012. Manufacturing output in the UK remained 3.2% lower in Quarter 3 (July to Sept) 2019 than the pre-downturn peak for Quarter 1 (Jan to Mar) 2008.

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 Quarter 3 2019 remained flat at 0.0%, compared with Quarter 2 (Apr to June) 2019, which fell by 1.8%. In Quarter 3 2019, 8 of the 13 subsectors displayed negative contributions, led by:

- machinery and equipment not elsewhere classified, which fell by 2.6%, mainly because of cumulative weakness from larger businesses
- computer, electronic and optical products, which fell by 1.7%, again caused by cumulative weakness from larger businesses, especially during August 2019

Almost wholly offsetting the cumulative impact from the negative contributions was a notable rise of 6.2% in transport equipment. Strength here was led by motor vehicles, trailers and semi-trailers, which rose by 11.2%, the strongest quarterly growth since Quarter 4 (Oct to Dec) 2010, when it rose by 13.3%. The current quarterly growth was mainly because of significant weakness during Quarter 2 2019, which included a weak April 2019, rather than any notable strength during Quarter 3 2019. This industry is still reflecting a longer-term decline, as highlighted by the quarter on same quarter a year ago growth, which fell by 4.4%.

The decline of 0.4% in total manufacturing output in September 2019 compared with August 2019 was mainly because of widespread weakness, with 8 of the 13 subsectors falling. By far the largest downward contribution came from the pharmaceutical products subsector, which fell by 5.1%. Despite a sharp drop in the index, with two consecutive periods of monthly weakness, the index level was marginally stronger than in September 2018.

Elsewhere, smaller negative contributions from rubber and plastics products (1.0%), wood, paper and paper products (0.8%), chemicals and chemical products (0.7%) and other manufacturing and repair (0.5%) were partially offset by upward contributions from computer, electronic and optical products, and basic metals and metal products, which rose by 1.3% and 0.4% respectively.

In Quarter 3 2019 compared with Quarter 3 2018, output declined by 1.4%, the second consecutive fall. This was led by a 3.8% fall in transport equipment.

Other notable downward contributions came from machinery and equipment, which fell by 5.5%, a continuation of ongoing weakness since August 2018. Rubber and plastic products fell by 5.5% because of weakness from large businesses. Other manufacturing and repair fell by 3.9%, where a strong decrease of 22.5% from repair and maintenance of aircraft and spacecraft is a continuation of weakness since February 2018. Partially offsetting overall weakness was long-term strength from the pharmaceutical products subsector (8.5%).

4 . Mining and quarrying

There is significant weakness within this sector, reflected in the declines for both quarterly indicators for September 2019. These include periods of maintenance during July and August 2019, impacting on output for the oil and gas extraction industry, with quarterly output falling by 2.4% and quarter on same quarter a year ago output falling by 6.5%.

In contrast, sector monthly output increased by 1.8%, led by a rise of 2.2% from oil and gas extraction, recovering from weakness displayed during August 2019.

5 . Electricity and gas

There is widespread weakness across the sector, with a decline in output from all three indicators.

The quarterly decline of 0.7% for Quarter 3 (July to Sept) 2019 was driven by gas supply, which decreased by 2.8%. This fall was partially temperature-driven, with warmer than average temperatures across Quarter 3 reducing demand.

Monthly output fell by 0.5% to September 2019 because of reduced demand for both electricity and gas supply, which fell by 0.5% and 0.8% respectively.

For the quarter on same quarter a year ago, the fall in output of 1.0% was mainly because of electricity supply, which fell by 0.9%. This was supported by a fall of 1.4% from gas supply.

6 . Water and waste

Quarterly growth increased by 1.2% for Quarter 3 (July to Sept) 2019 mainly because of a general increase in output from water supply (2.2%). Waste collection rose by 1.7%, with evidence suggesting that work carried out on waste treatment projects is an underlying factor behind the strength across all three indicators for this industry.

7 . Production data

[Index of Production time series](#)

Dataset | Dataset ID: DIOP | Released 11 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.

[Output of the production industries](#)

Dataset | Released 11 November 2019

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 11 November 2019

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

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

Dataset | Released 11 November 2019

Monthly Business Survey 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 11 November 2019

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

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

8 . Glossary

Index number

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

This 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

Production 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 [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 [Index of Production QMI](#).

10 . Strengths and limitations

Seasonal adjustment

The data published in the Index of Production release are all seasonally adjusted (although non-seasonally adjusted estimates are also available). This aids interpretation by removing annually recurring fluctuations, for example, 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 pounds, 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

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

Article | Published 21 October 2019

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

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

Bulletin | Published 11 November 2019

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, Index of Services and Construction output in Great Britain.

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

Bulletin | Published 11 November 2019

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

[UK manufacturers' sales by product \(ProdCom\)](#)

Bulletin | Published 1 July 2019

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

[Energy trends: September 2019](#)

Bulletin | Published 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 the manufacture of coke and refined petroleum products sectors within this release.

[Eurostat short-term statistics \(STS\)](#)

The IoP follows the Eurostat short-term statistics (STS) regulation for measuring output in production. The industrial production and output in manufacturing are available from Eurostat and are updated monthly. It should be noted Eurostat data are calculated on a 2015 equals 100 basis, while UK data are calculated on a 2016 equals 100 basis.

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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	97.9	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	101.9	106.6	102.6	96.4	100.2	109.1	114.5	100.1	107.5	99.6	99.6	
2018 Q3	102.2	110.2	102.7	95.7	101.5	113.4	113.9	99.9	107.0	100.4	100.5	
Q4	101.4	108.3	102.1	95.5	99.7	111.0	115.3	100.5	105.6	99.6	99.5	
2019 Q1	102.5	107.3	104.1	92.8	99.2	109.0	118.7	104.4	105.9	101.9	97.5	
Q2	100.7	106.2	101.2	95.4	100.4	108.6	117.3	101.8	102.5	99.4	98.5	
Q3	100.7	104.4	101.2	94.7	101.6	106.0	115.3	101.8	103.6	98.4	97.8	
2018 Jul	102.3	110.8	102.7	96.4	102.2	114.5	115.1	100.1	107.0	100.3	101.4	
Aug	102.4	111.6	102.8	96.4	101.6	115.1	114.3	99.6	107.8	100.2	101.2	
Sep	101.7	108.1	102.5	94.2	100.7	110.5	112.3	99.9	106.3	100.7	98.9	
Oct	101.7	110.7	102.1	96.5	100.1	113.4	114.7	100.1	105.6	100.1	100.6	
Nov	101.6	107.6	102.4	95.7	99.5	110.2	116.0	101.2	106.0	99.4	99.5	
Dec	101.0	106.6	101.8	94.4	99.7	109.5	115.2	100.1	105.3	99.4	98.4	
2019 Jan	102.0	104.9	103.2	96.0	98.6	105.2	116.1	103.0	105.1	101.5	99.0	
Feb	102.3	107.9	103.9	91.5	99.1	109.8	119.7	103.4	106.0	102.2	96.8	
Mar	103.2	109.2	105.1	90.9	99.8	111.9	120.5	107.0	106.5	102.1	96.8	
Apr	100.0	105.5	100.6	94.0	99.2	107.4	117.5	102.9	99.7	99.6	97.3	
May	101.1	106.6	101.6	94.9	100.9	109.2	120.0	100.8	104.1	99.4	98.7	
Jun	101.1	106.4	101.3	97.4	101.1	109.3	114.6	101.6	103.6	99.1	99.6	
Jul	101.2	104.5 [†]	101.8 [†]	95.6 [†]	101.4 [†]	106.5 [†]	115.9	103.0 [†]	103.7	98.9	98.5	
Aug	100.5 [†]	103.4	101.1	94.6	101.6	104.6	114.7	101.8	103.3 [†]	98.4 [†]	97.4	
Sep	100.3	105.2	100.7	94.0	101.7	106.9	115.2	100.6	103.7	98.0	97.4	
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	0.1	4.8	0.4	-1.9	-1.8	7.4	10.2	1.1	2.0	-2.1	0.3	
Percentage change, latest month on same month a year ago												
2017 Jul	1.6	-3.7	2.4	-0.9	1.2	-6.5	-0.1	-0.2	6.2	1.5	-2.1	
Aug	1.7	-2.1	2.4	-0.6	0.7	-3.8	4.2	0.5	5.0	1.2	-1.1	
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	0.3	1.4	1.7	-5.7	-4.7	2.6	10.1	-1.9	6.9	-0.8	-3.9	
Feb	1.3	2.4	1.6	3.3	-4.0	4.6	9.5	2.1	4.2	-1.3	2.2	
Mar	1.6	-2.2	1.7	9.9	-5.5	-0.6	16.4	0.4	5.9	-2.0	5.3	
Apr	0.9	7.8	0.8	1.8	-2.1	12.9	12.7	-0.2	4.9	-3.1	3.2	
May	0.1	5.3	1.1	-8.0	-1.2	7.6	14.6	2.0	3.9	-2.6	-3.9	
Jun	0.9	0.7	1.7	-5.2	1.9	1.1	9.1	3.0	3.5	-1.4	-3.1	
Jul	1.0	7.6	1.0	-2.0	0.5	11.5	14.8	2.6	0.9	-0.7	2.1	
Aug	0.9	9.9	0.7	-2.3	1.1	13.4	10.2	0.6	2.3	-0.9	1.8	
Sep	-0.9	2.6	-0.6	-4.8	-0.9	3.7	3.6	1.4	-1.4	-1.6	-1.5	
Oct	-1.3	3.7	-1.6	-0.2	-2.0	4.0	8.4	1.0	-2.6	-2.8	1.0	
Nov	-1.4	-0.3	-1.1	-2.6	-2.3	0.4	9.5	1.4	-1.0	-3.9	-0.8	
Dec	-1.7	22.4	-2.4	-6.1	-2.1	33.9	5.3	1.0	-3.3	-4.2	1.6	
2019 Jan	-0.4	1.0	-0.6	0.9	-0.6	-0.5	1.7	4.4	-5.3	0.9	1.6	
Feb	-0.2	5.9	0.8	-9.3	-0.9	6.2	5.4	3.8	-3.1	2.8	-3.9	
Mar	1.1	10.7	2.4	-11.8	0.4	11.8	5.3	8.2	-2.4	3.5	-4.7	
Apr	-1.6	-2.0	-1.4	-5.0	0.7	-3.6	4.0	3.4	-7.2	1.3	-4.0	
May	-	0.4	-0.7	3.5	1.7	1.1	3.5	0.3	-3.1	0.8	2.3	
Jun	-1.0	0.7	-1.8	4.5	-0.8	2.4	-0.6	-1.1	-3.3	-0.5	2.2	
Jul	-1.1	-5.7 [†]	-0.9	-0.9 [†]	-0.8 [†]	-7.0 [†]	0.7 [†]	2.9 [†]	-3.1	-1.4	-2.8	
Aug	-1.8	-7.4	-1.6 [†]	-1.9	-	-9.1	0.3	2.2	-4.1 [†]	-1.8 [†]	-3.8	
Sep	-1.4	-2.7	-1.8	-0.1	1.0	-3.3	2.6	0.7	-2.5	-2.6	-1.5	

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

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

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	O6	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 Jul	0.2	-1.9	0.2	0.1	1.7	-2.8	-5.1	-2.2	2.5	-	-1.3
Aug	0.1	-1.3	0.4	0.3	-1.1	-1.1	3.5	1.5	-0.6	-	0.1
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	-0.3	19.2	-0.4	-5.4	-2.5	29.3	4.3	-0.5	2.0	-3.1	0.5
Feb	-	-1.9	-0.7	6.1	0.8	-2.3	-0.6	1.0	-1.5	-1.2	3.5
Mar	-0.3	-3.1	-0.4	2.1	-0.6	-3.2	0.8	-0.7	-0.3	-0.8	0.8
Apr	-0.5	9.1	-0.6	-4.1	-0.8	11.3	-1.3	0.6	-1.5	-0.4	-0.3
May	-0.5	-1.4	0.3	-7.2	0.7	-2.9	2.6	1.1	-0.1	0.4	-4.8
Jun	1.0	-0.5	0.8	1.5	2.6	-1.2	-0.5	2.1	-0.3	1.0	1.1
Jul	0.2	4.8	-0.5	3.5	0.3	7.2	-0.2	-2.6	-0.1	0.7	4.0
Aug	-	0.8	0.1	-	-0.5	0.5	-0.7	-0.4	0.7	-0.1	-0.2
Sep	-0.6	-3.2	-0.2	-2.3	-0.9	-4.0	-1.8	0.3	-1.3	0.5	-2.3
Oct	-	2.4	-0.5	2.4	-0.6	2.6	2.1	0.2	-0.7	-0.6	1.8
Nov	-0.1	-2.8	0.3	-0.8	-0.7	-2.8	1.2	1.0	0.4	-0.7	-1.2
Dec	-0.6	-0.9	-0.6	-1.3	0.2	-0.6	-0.7	-1.0	-0.7	-	-1.0
2019 Jan	1.0	-1.7	1.4	1.7	-1.0	-3.9	0.8	2.8	-0.2	2.1	0.5
Feb	0.3	2.9	0.7	-4.6	0.5	4.3	3.1	0.4	0.8	0.7	-2.1
Mar	0.9	1.3	1.1	-0.7	0.7	2.0	0.7	3.5	0.5	-0.1	-
Apr	-3.2	-3.4	-4.3	3.4	-0.6	-4.1	-2.5	-3.8	-6.3	-2.5	0.4
May	1.1	1.1	1.0	1.0	1.7	1.7	2.1	-2.0	4.3	-0.2	1.4
Jun	0.1	-0.2	-0.3	2.6	0.2	0.1	-4.5	0.7	-0.4	-0.3	1.0
Jul	0.1	-1.8 [†]	0.5 [†]	-1.9 [†]	0.3 [†]	-2.6 [†]	1.2 [†]	1.4 [†]	0.1	-0.2	-1.2 [†]
Aug	-0.7 [†]	-1.1	-0.7	-1.1	0.2	-1.8	-1.1	-1.2	-0.4 [†]	-0.6 [†]	-1.1
Sep	-0.3	1.8	-0.4	-0.5	0.1	2.2	0.5	-1.2	0.3	-0.3	-
Percentage change, latest 3 months on same 3 months a year ago²											
2017 Jul	1.1	1.0	1.5	-0.9	0.3	0.2	3.4	-0.8	3.8	1.4	-0.1
Aug	1.5	0.1	2.2	-1.3	0.8	-1.2	4.3	0.3	4.5	1.5	-0.7
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	-1.7	2.2	-3.5	-1.6	-3.0	6.2	-1.7	6.5	1.3	-3.4
Feb	0.7	-3.3	1.5	-0.6	-2.9	-4.3	7.7	-1.3	5.5	-0.2	-1.8
Mar	1.1	0.5	1.7	2.3	-4.7	2.2	11.9	0.2	5.7	-1.4	1.1
Apr	1.3	2.6	1.4	4.9	-3.9	5.6	12.8	0.8	5.0	-2.1	3.6
May	0.9	3.6	1.2	1.1	-3.0	6.6	14.6	0.7	4.9	-2.6	1.4
Jun	0.7	4.5	1.2	-3.8	-0.4	7.1	12.1	1.6	4.1	-2.4	-1.3
Jul	0.7	4.5	1.3	-5.1	0.4	6.7	12.8	2.5	2.8	-1.6	-1.7
Aug	0.9	6.0	1.1	-3.2	1.2	8.6	11.3	2.1	2.2	-1.0	0.3
Sep	0.3	6.7	0.4	-3.0	0.2	9.5	9.4	1.5	0.6	-1.0	0.8
Oct	-0.4	5.3	-0.5	-2.5	-0.6	6.9	7.4	1.0	-0.6	-1.7	0.4
Nov	-1.2	2.0	-1.1	-2.6	-1.8	2.7	7.1	1.3	-1.6	-2.7	-0.5
Dec	-1.5	7.6	-1.7	-3.0	-2.1	10.8	7.7	1.1	-2.3	-3.6	0.6
2019 Jan	-1.2	6.8	-1.4	-2.7	-1.7	9.3	5.4	2.2	-3.2	-2.4	0.8
Feb	-0.8	9.1	-0.7	-4.9	-1.2	11.5	4.1	3.0	-3.9	-0.2	-0.3
Mar	0.2	5.8	0.9	-6.9	-0.4	5.7	4.2	5.4	-3.6	2.4	-2.4
Apr	-0.2	4.7	0.6	-8.7	0.1	4.5	4.9	5.1	-4.2	2.6	-4.2
May	-0.2	2.8	0.1	-4.7	0.9	2.8	4.3	3.9	-4.2	1.9	-2.2
Jun	-0.9	-0.3	-1.3	0.9	0.5	-0.1	2.3	0.8	-4.5	0.6	0.1
Jul	-0.7	-1.6 [†]	-1.1 [†]	2.3 [†]	-	-1.3 [†]	1.2	0.7 [†]	-3.1 [†]	-0.4 [†]	0.5
Aug	-1.3	-4.2	-1.4	0.5	-0.5	-4.7	0.1 [†]	1.3	-3.5	-1.2	-1.5 [†]
Sep	-1.4	-5.3	-1.4	-1.0	0.1	-6.5	1.2	1.9	-3.2	-1.9	-2.7

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.

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

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 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 months²											
2017 Jul	0.4	2.8	0.3	2.7	-2.6	3.6	1.6	-	0.8	0.2	2.4
Aug	0.6	2.6	0.6	1.6	-1.4	3.3	3.4	-0.2	2.0	-0.1	1.4
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	0.3	-4.7	0.8	-0.1	-0.5	-6.2	3.7	0.3	1.6	0.5	-1.7
Feb	-0.3	-8.5	0.2	0.9	-1.5	-10.5	5.3	-	1.8	-1.6	-1.8
Mar	-0.5	0.8	-0.7	1.2	-2.3	2.9	6.5	-0.3	1.6	-3.7	1.0
Apr	-0.6	3.1	-1.2	3.0	-1.6	5.9	3.4	0.2	-0.3	-3.7	3.1
May	-0.9	6.8	-1.3	-1.0	-1.3	9.8	1.8	0.5	-1.6	-2.7	1.5
Jun	-0.7	5.0	-0.6	-5.1	0.3	5.5	0.6	1.9	-2.3	-0.7	-1.5
Jul	-0.2	4.7	0.2	-7.1	1.8	4.6	1.6	1.8	-1.3	0.8	-2.8
Aug	0.6	5.0	0.6	-2.6	2.8	5.3	0.4	1.1	-0.6	1.6	0.2
Sep	0.5	3.4	0.1	1.2	1.6	4.2	-0.7	-1.1	-0.2	1.6	2.1
Oct	0.1	2.4	-0.3	2.1	-0.2	2.9	-1.5	-1.2	-0.5	0.8	1.9
Nov	-0.6	-0.5	-0.6	0.1	-1.7	-0.7	-0.5	-0.4	-1.2	-	-0.3
Dec	-0.7	-1.7	-0.6	-0.2	-1.7	-2.1	1.3	0.6	-1.3	-0.7	-1.0
2019 Jan	-0.4	-3.4	-	-0.3	-1.6	-4.1	1.8	1.5	-1.0	-0.2	-1.3
Feb	0.1	-2.1	0.6	-1.5	-1.0	-2.9	2.3	1.7	-0.5	1.0	-1.6
Mar	1.1	-0.9	2.0	-2.8	-0.6	-1.8	3.0	3.9	0.2	2.3	-2.0
Apr	0.3	1.1	0.8	-3.4	0.1	1.3	2.9	3.0	-1.3	1.2	-2.0
May	-0.3	0.6	-0.5	-0.8	0.9	1.2	2.0	1.4	-1.9	-0.7	-0.5
Jun	-1.8	-1.1	-2.8	2.8	1.2	-0.3	-1.2	-2.6	-3.2	-2.5	1.0
Jul	-0.7	-1.6	-1.6	4.1 [†]	1.7 [†]	-1.2 [†]	-2.0	-2.5 [†]	-0.3	-2.1	2.0
Aug	-0.5 [†]	-2.2 [†]	-1.0 [†]	2.8	1.4	-2.5	-3.5	-1.4	0.1 [†]	-1.5 [†]	0.9 [†]
Sep	-	-1.7	-	-0.7	1.2	-2.4	-1.8	-	1.1	-0.9	-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

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
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	100.9	94.2	99.2	97.4	103.6	101.1
2018 Q3	102.2	94.9	99.4	101.0	104.4	97.6
Q4	101.7	92.4	99.6	99.3	105.6	101.8
2019 Q1	104.6	95.7	102.7	103.2	109.3	108.5
Q2	102.2	95.0	100.7	94.5	102.3	105.6
Q3	102.5	95.6	99.6	89.2	100.3	106.0
2018 Jul	102.3	96.7	100.6	97.3	105.1	95.3
Aug	102.7	95.4	98.1	102.8	101.0	98.0
Sep	101.5	92.6	99.6	102.8	107.1	99.6
Oct	102.1	91.8	98.8	99.7	104.8	101.1
Nov	101.3	92.2	101.2	99.1	105.7	104.6
Dec	101.5	93.3	98.7	99.1	106.3	99.8
2019 Jan	104.0	94.1	101.7	103.4	109.4	105.5
Feb	104.2	95.9	102.0	105.8	108.9	106.1
Mar	105.6	97.2	104.3	100.4	109.4	113.8
Apr	103.6	96.1	102.5	96.1	101.0	105.6
May	102.1	93.9	99.2	97.9	102.6	103.7
Jun	100.9	94.9	100.4	89.5	103.4	107.6
Jul	101.9 [†]	97.0 [†]	99.8 [†]	91.7	101.0 [†]	111.8 [†]
Aug	102.7	94.8	99.9	89.6 [†]	100.4	105.8
Sep	103.0	95.1	99.1	86.2	99.7	100.4
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	1.2	-5.9	-1.9	-4.0	1.0	2.9
Percentage change, latest month on same month a year ago						
2017 Jul	0.1	0.1	-0.6	-5.4	1.9	2.0
Aug	-0.3	1.0	1.0	6.4	3.0	3.5
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	-2.3	-1.1	-2.9	-8.1	-1.6	0.7
Feb	-1.1	-6.3	-0.2	-11.7	2.8	10.5
Mar	-1.4	-6.4	-3.9	-8.0	-0.7	6.7
Apr	-1.2	-4.9	-3.6	-6.6	-2.6	3.9
May	2.7	-5.1	-1.1	-9.5	-0.1	2.7
Jun	1.1	-3.7	-1.1	-6.6	0.8	8.1
Jul	3.0	-2.1	1.6	2.5	2.8	-0.3
Aug	3.8	-5.9	-2.7	-0.1	-2.1	-1.5
Sep	3.0	-8.5	-1.6	0.5	2.7	1.6
Oct	2.9	-8.0	-3.2	-1.9	2.4	0.3
Nov	1.4	-9.4	-0.7	1.7	2.8	2.8
Dec	2.5	-8.8	-3.3	1.1	4.5	-
2019 Jan	5.2	-2.2	2.8	11.1	7.7	4.8
Feb	5.1	3.0	2.7	18.4	5.6	4.1
Mar	6.3	3.0	6.2	5.8	7.9	14.0
Apr	3.7	1.6	5.0	-1.2	0.3	3.9
May	1.0	-1.1	-0.5	3.2	-	1.5
Jun	-0.3	0.1	1.0	-8.6	-0.2	-0.8
Jul	-0.4 [†]	0.3 [†]	-0.8 [†]	-5.8	-4.0 [†]	17.3 [†]
Aug	0.1	-0.7	1.9	-12.8 [†]	-0.6	7.9
Sep	1.5	2.6	-0.5	-16.1	-7.0	0.8

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	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	96.7	99.8	118.2	95.3	109.6	102.0	105.9
2018 Q3	97.5	100.5	117.5	94.8	107.6	102.5	105.8
Q4	96.4	97.9	119.4	96.3	107.1	99.0	104.9
2019 Q1	95.5	101.3	123.8	101.2	106.1	98.8	102.6
Q2	93.5	98.6	121.5	101.5	104.3	92.8	103.0
Q3	92.2	98.6	119.5	97.2	101.6	98.6	101.7
2018 Jul	98.4	100.1	118.8	94.3	107.5	101.9	106.1
Aug	97.0	100.8	118.5	95.8	108.5	103.1	106.0
Sep	97.2	100.8	115.3	94.3	106.6	102.4	105.3
Oct	97.0	99.2	118.7	95.8	106.7	99.0	105.1
Nov	96.7	96.6	119.8	95.0	107.5	98.9	106.4
Dec	95.6	97.8	119.6	98.1	107.1	99.3	103.2
2019 Jan	95.4	100.5	121.2	100.6	106.0	98.3	101.5
Feb	95.4	102.3	125.1	101.1	106.2	98.7	102.1
Mar	95.7	101.2	125.1	101.9	106.1	99.5	104.3
Apr	94.0	98.4	121.4	102.9	104.7	84.9	104.8
May	93.4	99.5	124.1	102.2	104.3	94.9	103.8
Jun	93.2	97.8	119.1	99.5	103.8	98.6	100.3
Jul	93.2	98.9 ^T	120.2 ^T	98.3 ^T	102.2	98.7 ^T	100.9 ^T
Aug	92.2 ^T	98.2	118.4	96.7	101.1	98.6	102.3
Sep	91.2	98.6	119.9	96.6	101.5	98.5	101.8
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	-2.9	-1.6	12.7	-7.2	2.2	-1.1	-0.7
Percentage change, latest month on same month a year ago							
2017 Jul	-0.2	-1.4	1.0	9.4	6.7	6.8	7.2
Aug	-	-0.3	5.6	3.6	5.7	1.8	7.9
Sep	-0.7	2.4	11.2	6.6	9.3	3.0	6.9
Oct	-0.2	7.7	6.5	3.8	12.2	8.6	3.9
Nov	1.2	4.7	7.5	-1.0	11.1	0.9	10.8
Dec	-	3.5	3.4	2.7	10.3	1.8	6.8
2018 Jan	-1.7	0.8	13.1	-2.9	13.6	2.3	2.2
Feb	-3.4	3.2	13.6	-7.5	2.2	2.5	-2.0
Mar	-5.2	3.0	21.2	-3.3	9.8	0.6	-0.3
Apr	-6.3	0.8	16.4	-6.8	9.7	-2.0	3.6
May	-3.2	-3.8	18.2	-4.9	2.2	-0.5	2.4
Jun	1.5	-2.0	10.2	-12.0	6.7	3.1	-1.3
Jul	-0.3	0.9	17.7	-11.0	1.0	-4.3	-1.4
Aug	-2.2	0.3	13.4	-3.9	1.6	0.1	-1.2
Sep	-2.5	-0.7	3.7	-10.3	-3.8	-0.1	-3.9
Oct	-3.0	-4.5	9.8	-7.8	-3.7	-8.4	0.5
Nov	-4.2	-7.0	10.7	-7.9	-4.4	-2.9	-1.2
Dec	-4.0	-9.1	6.8	-7.0	-6.2	-3.4	-5.6
2019 Jan	-2.3	-1.4	3.0	2.6	-9.5	-7.1	-6.2
Feb	0.2	-0.7	6.9	5.9	-4.1	-6.5	-3.8
Mar	0.8	-0.4	6.0	7.8	-6.8	-3.0	-2.8
Apr	-	-1.7	4.3	8.3	-6.3	-16.5	-0.9
May	-3.9	3.3	3.3	7.2	-4.0	-6.8	-1.7
Jun	-6.3	-1.2	0.2	7.6	-4.6	-2.9	-5.4
Jul	-5.3 ^T	-1.2	1.2 ^T	4.3 ^T	-5.0	-3.2 ^T	-5.0 ^T
Aug	-5.0	-2.5 ^I	-0.1	0.9	-6.8	-4.4	-3.5
Sep	-6.2	-2.1	4.0	2.5	-4.8	-3.8	-3.3

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 Jul	-0.8	0.4	-1.4	-9.4	-0.5	-4.8
Aug	-0.4	2.6	1.8	8.3	0.9	4.2
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	-0.2	-5.9	-3.0	-5.1	-0.1	0.8
Feb	0.3	-3.4	0.4	-3.9	1.5	1.3
Mar	0.2	1.4	-1.1	6.1	-1.6	-2.1
Apr	0.6	0.2	-0.7	2.6	-0.7	1.9
May	1.1	0.5	2.2	-2.5	1.9	0.4
Jun	0.2	-0.2	-0.4	3.2	1.0	6.2
Jul	1.1	2.1	1.3	-0.6	1.4	-12.2
Aug	0.4	-1.3	-2.6	5.6	-3.9	2.8
Sep	-1.2	-2.9	1.6	-	6.0	1.6
Oct	0.7	-0.9	-0.8	-3.0	-2.2	1.4
Nov	-0.8	0.5	2.4	-0.6	0.9	3.6
Dec	0.2	1.2	-2.4	-	0.5	-4.6
2019 Jan	2.5	0.9	3.1	4.3	3.0	5.7
Feb	0.2	1.8	0.3	2.4	-0.5	0.6
Mar	1.4	1.4	2.2	-5.2	0.5	7.3
Apr	-1.9	-1.1	-1.8	-4.2	-7.7	-7.2
May	-1.4	-2.2	-3.1	1.9	1.6	-1.9
Jun	-1.2	1.1	1.1	-8.6	0.8	3.8
Jul	1.0 [†]	2.2 [†]	-0.5 [†]	2.4	-2.4 [†]	3.9 [†]
Aug	0.8	-2.3	0.1	-2.3 [†]	-0.5	-5.4
Sep	0.2	0.3	-0.8	-3.7	-0.7	-5.1
Percentage change, latest 3 months on same 3 months a year ago						
2017 Jul	-1.3	0.8	-0.2	-1.2	2.8	2.0
Aug	-0.1	0.2	0.2	1.1	3.0	3.4
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	-0.8	3.4	0.1	-6.9	1.2	-4.8
Feb	-1.6	-0.7	-0.8	-7.9	0.8	-1.6
Mar	-1.6	-4.6	-2.4	-9.2	0.2	5.8
Apr	-1.2	-5.9	-2.6	-8.7	-0.2	7.0
May	-	-5.5	-2.9	-8.0	-1.1	4.4
Jun	0.8	-4.6	-1.9	-7.6	-0.6	4.9
Jul	2.3	-3.7	-0.2	-4.8	1.2	3.6
Aug	2.6	-3.9	-0.7	-1.5	0.5	2.1
Sep	3.3	-5.6	-0.9	0.9	1.1	-0.1
Oct	3.2	-7.5	-2.5	-0.5	1.0	0.1
Nov	2.4	-8.7	-1.9	0.1	2.6	1.6
Dec	2.3	-8.7	-2.4	0.3	3.2	1.0
2019 Jan	3.1	-6.9	-0.4	4.5	5.0	2.6
Feb	4.3	-2.9	0.7	9.9	5.9	3.0
Mar	5.5	1.2	3.9	11.6	7.0	7.6
Apr	5.0	2.5	4.6	7.3	4.6	7.3
May	3.7	1.1	3.5	2.5	2.7	6.4
Jun	1.5	0.2	1.8	-2.3	-	1.5
Jul	0.1	-0.2 [†]	-0.1 [†]	-3.8	-1.4 [†]	5.6 [†]
Aug	-0.2 [†]	-0.1	0.7	-9.1 [†]	-1.6	7.7
Sep	0.4	0.7	0.2	-11.7	-3.9	8.5

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

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

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 Jul	0.7	-1.8	-6.5	0.8	4.3	8.1	0.2
Aug	0.5	1.4	3.6	-5.8	0.4	-3.2	-0.3
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	-1.8	-5.3	5.1	-7.0	2.6	3.1	-1.0
Feb	-2.5	1.2	-0.5	-2.6	-5.5	-0.3	-1.9
Mar	-0.4	-1.5	0.8	-1.1	2.8	-2.8	1.1
Apr	-0.9	-1.4	-1.4	0.5	-1.8	-0.8	-1.5
May	3.4	-3.8	3.2	0.3	-2.8	0.1	-0.1
Jun	2.3	2.7	-1.0	-2.9	0.2	-0.3	0.4
Jul	-1.1	1.1	-0.1	1.9	-1.2	0.4	0.1
Aug	-1.4	0.7	-0.2	1.6	1.0	1.3	-0.1
Sep	0.2	-	-2.7	-1.6	-1.8	-0.7	-0.6
Oct	-0.2	-1.6	2.9	1.6	0.1	-3.3	-0.2
Nov	-0.3	-2.6	1.0	-0.8	0.8	-0.1	1.2
Dec	-1.2	1.2	-0.2	3.2	-0.4	0.4	-3.0
2019 Jan	-0.2	2.7	1.4	2.6	-1.0	-1.0	-1.6
Feb	-	1.9	3.2	0.5	0.2	0.4	0.6
Mar	0.3	-1.1	-	0.8	-0.2	0.8	2.1
Apr	-1.7	-2.7	-3.0	1.0	-1.3	-14.6	0.5
May	-0.7	1.1	2.3	-0.7	-0.4	11.8	-0.9
Jun	-0.2	-1.8	-4.0	-2.7	-0.4	3.8	-3.4
Jul	-	1.2 [†]	0.9 [†]	-1.2 [†]	-1.6	0.1 [†]	0.6 [†]
Aug	-1.1 [†]	-0.7	-1.5	-1.6	-1.0	-	1.4
Sep	-1.0	0.4	1.3	-0.1	0.4	-0.1	-0.5
Percentage change, latest 3 months on same 3 months a year ago							
2017 Jul	-0.6	-0.1	4.7	5.7	5.9	1.1	4.3
Aug	-0.6	0.2	5.9	6.1	5.4	1.8	5.8
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	-0.2	3.0	7.9	-0.4	11.7	1.7	6.5
Feb	-1.7	2.5	9.9	-2.6	8.6	2.2	2.3
Mar	-3.4	2.3	15.8	-4.6	8.4	1.8	-
Apr	-5.0	2.3	16.9	-5.9	7.1	0.4	0.4
May	-4.9	-	18.5	-5.0	7.2	-0.6	1.9
Jun	-2.7	-1.7	14.8	-8.0	6.1	0.2	1.5
Jul	-0.7	-1.6	15.3	-9.4	3.2	-0.6	-0.1
Aug	-0.3	-0.2	13.7	-9.1	3.0	-0.4	-1.3
Sep	-1.7	0.2	11.4	-8.5	-0.4	-1.4	-2.2
Oct	-2.6	-1.7	8.9	-7.4	-2.0	-2.9	-1.6
Nov	-3.2	-4.1	8.0	-8.7	-4.0	-3.9	-1.6
Dec	-3.7	-6.9	9.1	-7.6	-4.8	-5.0	-2.2
2019 Jan	-3.5	-5.9	6.7	-4.2	-6.7	-4.5	-4.3
Feb	-2.1	-3.8	5.5	0.3	-6.6	-5.7	-5.2
Mar	-0.5	-0.8	5.3	5.4	-6.9	-5.6	-4.3
Apr	0.3	-0.9	5.7	7.3	-5.7	-8.6	-2.5
May	-1.0	0.4	4.5	7.8	-5.7	-8.7	-1.8
Jun	-3.5	0.1	2.6	7.7	-5.0	-8.7	-2.6
Jul	-5.2	0.3 [†]	1.6	6.4 [†]	-4.5	-4.3 [†]	-4.0 [†]
Aug	-5.5	-1.7	0.4	4.2	-5.5	-3.5	-4.6
Sep	-5.5	-1.9	1.7	2.6	-5.5	-3.8	-3.9

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

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

IOP5 Output of the Production Industries

Chained volume indices of gross value added¹

Seasonally adjusted 2016 = 100

Section	Food products, beverages and tobacco	Textiles, wearing apparel and leather products	Wood and paper products and printing	Coke and refined petroleum products	Chemicals and chemical products	Basic pharmaceutical products and preparations
	CA	CB	CC	CD	CE	CF
Latest weight	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 Jul	-1.4	-0.7	-0.9	-1.3	0.6	4.2
Aug	-0.6	-0.6	-1.3	-3.0	-	1.6
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	0.3	-0.7	-0.4	-6.0	-1.2	1.3
Feb	-0.2	-3.7	-1.6	-6.9	-1.0	0.6
Mar	-0.3	-6.6	-3.1	-6.7	-0.2	-
Apr	0.2	-6.1	-2.6	-2.4	-0.3	0.4
May	1.1	-2.6	-1.6	2.3	-0.6	0.4
Jun	1.6	0.2	-	4.6	0.2	3.3
Jul	2.1	1.6	1.5	3.0	2.0	0.8
Aug	2.0	1.1	0.8	3.8	1.7	-0.6
Sep	1.4	0.2	0.6	4.4	2.1	-6.2
Oct	0.6	-2.3	-1.1	5.2	0.5	-2.4
Nov	-0.4	-3.6	0.5	1.2	2.5	1.2
Dec	-0.5	-2.7	0.1	-1.6	1.1	4.3
2019 Jan	0.2	-0.1	1.7	-1.2	2.7	3.8
Feb	1.6	2.4	0.9	2.2	2.2	2.0
Mar	2.9	3.6	3.1	3.9	3.5	6.5
Apr	2.2	3.4	2.4	0.2	-0.7	5.0
May	0.5	1.4	1.2	-4.5	-3.6	3.8
Jun	-2.3	-0.8	-1.9	-8.4	-6.3	-2.6
Jul	-2.7	-1.1 [†]	-3.0 [†]	-7.7	-3.9	-0.7
Aug	-1.8 [†]	-0.2	-1.9	-8.0 [†]	-2.6 [†]	0.6 [†]
Sep	0.3	0.7	-1.1	-5.6	-1.9	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.

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	Jul	-0.7	0.8	3.3	2.7	0.2	-0.5	0.1
	Aug	-1.6	0.8	4.7	3.6	1.1	-0.1	3.1
	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	-0.2	2.5	4.3	-0.7	4.7	-1.0	1.1
	Feb	-2.7	1.0	5.8	-4.2	2.4	0.5	0.6
	Mar	-4.2	-2.8	7.4	-7.8	1.3	0.4	-
	Apr	-4.7	-2.7	4.0	-7.1	-2.1	-0.2	-1.9
	May	-2.2	-4.6	2.3	-4.8	-2.3	-2.6	-1.6
	Jun	1.0	-3.6	0.8	-1.9	-3.7	-2.9	-1.3
	Jul	3.8	-3.1	1.8	-1.1	-3.4	-1.5	-0.4
	Aug	3.1	0.6	0.5	-0.8	-2.8	0.1	-0.1
	Sep	0.7	2.1	-0.8	0.5	-2.0	0.8	-
	Oct	-1.3	1.8	-1.5	1.4	-1.0	-0.2	-0.4
	Nov	-1.3	-1.1	-0.6	0.9	-1.3	-2.0	-0.4
	Dec	-1.1	-2.6	1.5	1.6	-0.4	-3.4	-0.9
2019	Jan	-1.2	-1.9	2.3	2.8	-0.4	-2.7	-1.7
	Feb	-1.5	1.4	3.4	5.2	-0.5	-1.3	-3.2
	Mar	-1.0	3.5	3.7	5.1	-0.9	-0.2	-2.1
	Apr	-0.9	2.4	3.1	4.2	-1.1	-4.5	-
	May	-1.2	-0.5	1.3	2.4	-1.3	-5.7	2.0
	Jun	-2.1	-2.7	-1.8	0.3	-1.7	-6.1	0.3
	Jul	-1.9	-1.9	-2.2	-2.0 [†]	-2.1	3.2 [†]	-2.0 [†]
	Aug	-1.6 [†]	-1.4 [†]	-3.5	-4.1	-2.5	5.9	-3.0
	Sep	-1.4	-	-1.7	-4.3	-2.6	6.2	-1.3

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

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

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IOP5R

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

Seasonally adjusted 2016 = 100

Section	Broad industry groups					Main industrial groupings					
	Production industries B+C+D+E	Mining and quarrying B	Manufacturing C	Electricity, gas, steam and air conditioning D	Water supply, sewerage and waste management E	Oil and gas extraction 06	Consumer durables MIG-CD	Consumer non-durables MIG-CND	Capital goods MIG-CAG	Intermediate goods MIG-IG	Energy MIG-NRG
Latest weight	1 000.0	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	-	-	-	-	-	-	-	-	-	-	-
2018 Q2	-	-	-	-	-	-	-	-	-	-	-
Q3	-	-	-	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-	-	-	-
2019 Q1	-	-	-	-	-	-	-	-	-	-	-
Q2	-	-	-	-	-	-	-	-	-	-	-
2018 Jun	-	-	-	-	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-	-	-	-	-
Oct	-	-	-	-	-	-	-	-	-	-	-
Nov	-	-	-	-	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-	-	-	-	-
2019 Jan	-	-	-	-	-	-	-	-	-	-	-
Feb	-	-	-	-	-	-	-	-	-	-	-
Mar	-	-	-	-	-	-	-	-	-	-	-
Apr	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-	-	-	-	-
Jul	-	0.2	0.1	-0.4	-0.3	0.4	-0.2	0.2	-	-	-
Aug	-0.1	0.1	0.1	-0.7	-0.4	-	-	0.2	-0.2	0.3	-0.2
Percentage change, latest year on previous year											
2014	-	-	-	-	-	-	-	-	-	-	-
2015	-	-	-	-	-	-	-	-	-	-	-
2016	-	-	-	-	-	-	-	-	-	-	-
2017	-	-	-	-	-	-	-	-	-	-	-
2018	-	-	-	-	-	-	-	-	-	-	-
Percentage change, latest month on same month a year ago											
2017 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	-	-	-	-	-	-	-	-	-	-	-
Jul	-	0.2	-	-0.5	-0.4	0.4	-0.1	0.2	-	-	-
Aug	-	0.1	0.1	-0.8	-0.4	-	-	0.2	-0.1	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.

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	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 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	-	-	-	-	-	-	-	-	-	-	-
Jul	-	0.2	0.1	-0.5	-0.4	0.4	-0.1	0.2	-	-	-0.1
Aug	-0.1	-0.1	-	-0.4	-0.1	-0.5	0.1	-0.1	-0.2	0.2	-0.2
Percentage change, latest 3 months on same 3 months a year ago											
2017 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	-	-	-	-	-	-	-	-	-	-	-
Jul	-	0.1	0.1	-0.2	-0.2	0.2	-	0.1	0.1	-0.1	-
Aug	-	0.1	0.1	-0.5	-0.2	0.2	-0.1	0.1	-	0.1	-0.1

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

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

Section	Broad industry groups						Main industrial groupings				
	Production industries B+C+D+E	Mining and quarrying B	Manufacturing C	Electricity, gas, steam and air conditioning D	Water supply, sewerage and waste management E	Oil and gas extraction 06	Consumer durables MIG-CD	Consumer non-durables MIG-CND	Capital goods MIG-CAG	Intermediate goods MIG-IG	Energy MIG-NRG
Latest weight	1 000.0	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	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	-	-	-	-	-	-	-	-	-	-
	Jul	-	-	-	-0.2	-0.2	0.2	0.1	-	-	-
	Aug	-0.1	0.1	0.1	-0.4	-0.2	0.1	0.1	-0.1	0.1	-0.1

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

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

Output of the Production Industries

Chained volume indices of gross value 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	-	-	-	-	-	-
2018 Q2	-	-	-	-	-	-
2018 Q3	-	-	-	-	-	-
2018 Q4	-	-	-	-	-	-
2019 Q1	-	-	-	-	-	-
2019 Q2	-	-	-	-	-	-
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	-	-	-	-	-	-
2019 Jul	0.1	1.4	0.5	-	0.3	-0.2
2019 Aug	0.4	0.8	0.8	3.2	0.5	-0.9
Percentage change, latest year on previous year						
2014	-	-	-	-	-	-
2015	-	-	-	-	-	-
2016	-	-	-	-	-	-
2017	-	-	-	-	-	-
2018	-	-	-	-	-	-
Percentage change, latest month on same month a year ago						
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	-	-	-	-	-	-
2019 Jul	0.1	1.4	0.5	-	0.2	-0.2
2019 Aug	0.5	0.8	0.8	3.1	0.5	-1.0

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

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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 month on previous month

2017	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	-	-	-	-	-	-
	Jul	0.1	1.4	0.6	-	0.2	-0.2
	Aug	0.3	-0.6	0.3	3.4	0.3	-0.7

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

2017	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	-	-	-	-	-	-
	Jul	-	0.5	0.2	-	0.1	-0.1
	Aug	0.2	0.7	0.5	1.1	0.2	-0.4

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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 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	-	-	-	-	-	-	-
Jul	-	0.1	-0.1	-0.9	-	0.3	-0.2
Aug	-0.1	0.1	0.3	0.9	-	-0.3	-0.6
Percentage change, latest 3 months on same 3 months a year ago							
2017 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	-	-	-	-	-	-	-
Jul	-	0.1	-	-0.3	-	0.1	-0.1
Aug	-	-	-	-0.3	-	0.1	-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.

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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	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	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	-	-	-	-	-	-
	Jul	-	0.5	0.2	-	-	-
	Aug	0.2	0.7	0.5	1.1	0.3	-0.4

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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	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	-	-	-	-	-	-
	Jul	-	-	-	-0.3	0.1	-0.1
	Aug	-0.1	0.1	-	-0.3	0.1	-0.4

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Issued by: Office for National Statistics, Government Buildings, Cardiff Road, Newport NP10 8XG

Media contact:
Tel: Media Relations Office +44 (0) 845 6041858
Emergency on-call +44 (0) 7867 906553
Email: press.office@ons.gsi.gov.uk

Statistical contact:
Name: Mark Stephens
Tel: Mark Stephens +44 (0) 1633 456387
Email: indexofproduction@ons.gsi.gov.uk

Contact us:
Tel: +44 (0) 845 601 3034
Email: info@ons.gsi.gov.uk
Website: www.statistics.gov.uk
Twitter: www.twitter.com/statisticsONS