

Statistical bulletin

## **Index of Production, UK: October 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.



Release date: 10 December 2019 Next release: 13 January 2020

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### 1. Main points

- Total production output decreased by 0.7% for the three months to October 2019, compared with the three months to July 2019; this was led by manufacturing output, which fell by 0.7%, followed by falls in mining and quarrying (2.6%) and electricity and gas (1.0%).
- The three-monthly fall in manufacturing is because of widespread weakness, with 9 of the 13 subsectors providing downward contributions; this was led by pharmaceutical products (4.5%), machinery and equipment (1.9%), and chemicals and chemical products (2.3%).
- Production output rose by 0.1% between September 2019 and October 2019, with electricity and gas providing the largest upward contribution (2.4%), followed by manufacturing (0.2%); these were partially offset by downward contributions from mining and guarrying (4.2%) and water and waste (1.2%).
- The monthly increase of 0.2% in manufacturing output is because of upward contributions from 8 of the 13 subsectors; this was led by pharmaceutical products (2.1%).
- For the three months to October 2019, production output decreased by 1.5%, compared with the same three months to October 2018; this was led by a fall in manufacturing of 1.5%, followed by falls in mining and guarrying (6.4%) and electricity and gas (0.7%).

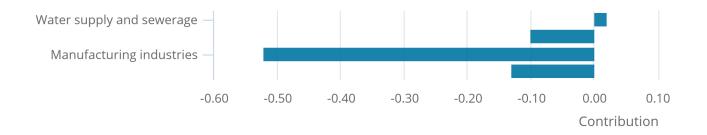
#### 2. Production

Figure 1: Manufacturing provided the largest negative contribution, followed by mining and quarrying and electricity and gas

Contributions to the Index of Production quarter on previous quarter, seasonally adjusted, UK, October 2019

Figure 1: Manufacturing provided the largest negative contribution, followed by mining and quarrying and electricity and gas

Contributions to the Index of Production quarter on previous quarter, seasonally adjusted, UK,
October 2019



Source: Office for National Statistics - Index of Production

#### Notes:

1. 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 October 2019 fell by 0.7%, compared with the three months to July 2019. This was mainly because of manufacturing output falling by 0.7%, led by widespread weakness throughout the sector, with negative contributions from 9 of the 13 subsectors. The fall in manufacturing was followed by falls in mining and quarrying (2.6%) and electricity and gas (1.0%).

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

		on prev three m	ious	on same months		Month o	on s month
Sector	Summary description	Growth (%)	Contribution to production (% points)	Growth (%)	Contribution to production (% points)	Growth (%)	Contribution to production (% points)
loP	Index of Production	-0.7	-0.7	-1.5	-1.5	0.1	0.1
Sector B	Total mining and quarrying	-2.6	-0.13	-6.4	-0.33	-4.2	-0.21
5	Coal and lignite	1.4	0.00	-6.9	0.00	-3.9	0.00
6	Crude petroleum and natural gas	-3.8	-0.14	-7.8	-0.30	-5.4	-0.20
789	Other mining and quarrying	1.0	0.01	-2.1	-0.03	-1.0	-0.01
Sector C	Total manufacturing	-0.7	-0.52	-1.5	-1.16	0.2	0.17
CA	Food, beverages and tobacco	1.5	0.18	1.0	0.12	0.6	0.08
СВ	Textiles and leather products	-0.2	0.00	2.0	0.04	0.4	0.01
CC	Wood, paper and printing	-0.5	-0.03	0.5	0.03	-0.3	-0.02
CD	Coke and petroleum	-3.4	-0.03	-11.7	-0.10	8.6	0.06
CE	Chemical products	-2.3	-0.11	-4.2	-0.20	0.1	0.00
CF	Pharmaceutical products	-4.5	-0.26	3.3	0.18	2.1	0.11
CG	Rubber and plastic products	-2.0	-0.10	-5.8	-0.31	-0.4	-0.02
CH	Metal products	-0.8	-0.06	-2.3	-0.19	-1.6	-0.13
CI	Computer, electronic and optical	-1.2	-0.08	1.8	0.11	0.6	0.04
CJ	Electrical equipment	-4.7	-0.09	0.0	0.00	-4.3	-0.08
CK	Machinery and equipment	-1.9	-0.11	-5.4	-0.33	0.3	0.02
CL	Transport equipment	1.4	0.15	-2.7	-0.29	0.6	0.07
CM	Other manufacturing and repair	0.5	0.03	-3.2	-0.22	0.5	0.03
Sector D	Total electricity and gas	-1.0	-0.10	-0.7	-0.08	2.4	0.25
35.1	Electric power generation, transmission and distribution	0.0	0.00	0.4	0.03	2.0	0.16
35.2-3	Manufacture of gas; distribution of gaseous fuels through mains; steam and aircon supply	-4.2	-0.10	-4.3	-0.10	3.8	0.09
Sector E	Total water and waste	0.2	0.02	0.5	0.04	-1.2	-0.11
36	Water collection, treatment and supply	0.7	0.02	-0.4	-0.01	-0.9	-0.03
37	Sewerage	-0.4	-0.01	-3.9	-0.13	1.2	0.04
38	Waste collection, treatment and disposal activities; materials recovery	0.4	0.01	5.9	0.17	-3.5	-0.11
39	Remediation activities and other waste management services	-1.5	0.00	3.9	0.01	-5.9	-0.01

Three months

Three months

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

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

# Ecenomic downturn peak Ecenomic downturn peak

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

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 6.2% lower for the three months to October 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 November 2016.

## 3. Manufacturing

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

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

### Figure 3: The Index of Manufacturing remains below its preeconomic downturn peak

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

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 3.5% lower for the three months to October 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 December 2016.

For further detail on the longer-term trend within manufacturing, please see the article, <u>Manufacturing sector</u> <u>performance</u>, <u>UK: 2008 to 2018</u>, 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 October 2019 fell by 0.7%, compared with the three months to July 2019. Of the 13 subsectors, 9 displayed negative contributions, led by:

- basic pharmaceutical products, which fell by 4.5% mainly because of significant monthly weakness during August and September 2019
- machinery and equipment, which fell by 1.9%, caused by weakness from large businesses
- chemicals and chemical products, which fell by 2.3%, partially because of the impact of maintenance and shutdowns

Partially offsetting the cumulative impact from the negative contributions was widespread growth from food, beverages and tobacco, which rose by 1.5%. Within this sector, there was notable strength from meat and meat products (2.9%) and other food products (1.9%), driven by large businesses.

Also providing a notable upward contribution was transport equipment, which increased by 1.4%. Strength within this sector was led by motor vehicles, trailers and semi-trailers, which rose by 2.7%; this was the third consecutive period of three-monthly growth. Strength here is mainly because of the continuing recovery following a very strong monthly decline in April 2019, rather than any notable growth during the latest three months. 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 3.0%.

An article to be published on 10 January 2020 will provide a comparison of the methodologies used to measure motor vehicle manufacturing, using official UK statistics compiled by the Office for National Statistics (ONS) and published in the Index of Production (IoP) and the Society of Motor Manufacturers and Traders (SMMT).

The growth of 0.1% in total manufacturing output in October 2019, compared with September 2019, was mainly because of widespread strength, with 8 of the 13 subsectors displaying upward contributions. The largest of these came from the volatile pharmaceutical products subsector, which rose by 2.1%, following two consecutive periods of significant monthly weakness during August and September 2019.

Elsewhere, smaller positive contributions came from:

- food, beverages and tobacco (0.6%) because of widespread strength, led by the impact of large businesses within other food products, which rose by 1.2%
- the motor vehicles, trailers and semi-trailers industry (0.9%), which was impacted by the production of new models

However, these were offset by downward contributions from:

- basic metals and metal products (1.6%), driven by weakness within fabricated metal products and basic iron and steel, which fell by 1.5% and 5.3% respectively
- electrical equipment, which fell by 4.3% because of cumulative weakness from large businesses

For the three months to October 2019, compared with the same three months to October 2018, total output declined by 1.5%, the seventh consecutive fall for this indicator. The current decline was led by:

- machinery and equipment, which fell by 5.4%
- rubber and plastic products, which fell by 5.8%
- transport equipment, which fell by 2.7%, a continuation of ongoing weakness since August 2018
- other manufacturing and repair, which fell by 3.2%; a strong decrease of 18.6% 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 (3.3%).

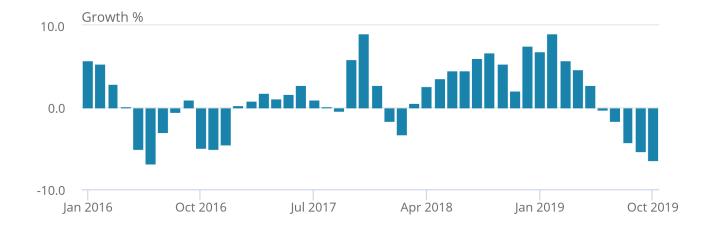
### 4. Mining and quarrying

Figure 4: Periods of maintenance during August 2019 is a factor behind recent periods of significant weakness for mining and quarrying

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

Figure 4: Periods of maintenance during August 2019 is a factor behind recent periods of significant weakness for mining and quarrying

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



Source: Office for National Statistics - Index of Production

There is a continuation of significant weakness within this sector, with three-monthly output falling by 2.6% and three months on three months a year ago output falling by 6.4% (Figure 4), continuing the trend of a weaker 2019 in comparison to 2018. Both quarterly indicators include periods of maintenance during August 2019, impacting on output for the oil and gas extraction industry.

This weakness is further highlighted by the sector's monthly output decrease of 4.2%, led by a fall of 5.4% from oil and gas extraction; this is the strongest monthly fall in output since December 2017 for this industry

### 5. Electricity and gas

The three-monthly decline of 1.0% was wholly driven by gas supply, which decreased by 4.2%. This fall was largely temperature-driven, with warmer than average temperatures across August and September 2019 reducing demand.

For the three months on three months a year ago indicator, the fall in output of 0.7% was mainly because of gas supply, which fell by 4.3%. This was also partially temperature-driven, with colder than average temperatures across the three months to October 2018 increasing demand in comparison with the same three months to October 2019.

In contrast, monthly output rose by 2.4% for October 2019 because of increased demand for both electricity and gas supply, which rose by 2.0% and 3.8% respectively. The Met Office reported that the provisional UK mean temperature for October 2019 was 9.0 degrees Celsius, which is 0.5 degrees Celsius below the 1981 to 2010 long-term average.

#### 6. Water and waste

Work carried out on waste treatment projects is the underlying factor behind the strength across the three months on three months a year ago indicator for the waste collection industry, which rose by 5.9%. In contrast, and partially offsetting this growth, was a 3.9% fall for sewerage.

Despite strength in the longer-term indicator within waste supply, monthly output declined by 3.5% for this industry; this was led by weakness from large businesses, driving the overall sector level fall of 1.2%.

### 7. Index of Production data

#### Index of Production time series

Dataset DIOP | Released 10 December 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 10 December 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 10 December 2019

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 10 December 2019

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 10 December 2019

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 <u>Standard Industrial Classification 2007 (SIC 2007)</u> 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 <a href="VAT turnover data in National Accounts:">VAT turnover data in National Accounts:</a> <a href="background">background</a> and <a href="methodology">methodology</a>.

A comprehensive list of the IoP source data can be found in the <u>Gross domestic product (GDP(O)) source catalogue (XLS, 715KB)</u>.

More quality and methodology information on strengths, limitations, appropriate uses, and how the data were created is available in the <u>UK Index of Production QMI</u>.

### 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 <a href="UK trade and how data on it are compiled can be found in the UK trade release">UK trade release</a>.

#### 11. Related links

#### GDP monthly estimate, UK: October 2019

Bulletin | Released 10 December 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 (IoP), Index of Services (IoS) and construction output in Great Britain.

#### 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.

#### Producer price inflation, UK: October 2019

Bulletin | Released 13 November 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.

#### Eurostat short-term business statistics (STS)

Article | Updated monthly

The IoP follows the Eurostat 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 that Eurostat data are calculated on a 2015 equals 100 basis, while UK data are calculated on a 2016 equals 100 basis.

#### Index of Services, UK: October 2019

Bulletin | 10 December 2019

Monthly movements in output for the services industries.

#### Construction output in Great Britain:October 2019 and new orders July to September 2019

Bulletin | 10 December 2019

Short-term measures of output by the construction industry and contracts awarded for new construction work in Great Britain.



## Index of Production Release Tables

Pages 2-11 Table IoP5, index values and growth rates for industry groups and manufacturing sub-sectors

Pages 12-21 Table IoP5R, revisions to index values and growth rates for industry groups and manufacturing sub-sectors



#### Output of the Production Industries, October 2019

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Enquiries

## IOP5 Output of the Production Industries Chained volume indices of gross value added<sup>1</sup>

			Broad inc	lustry 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	Capital goods	Intermediate goods	Energy	
Section	B+C+D+E	В	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	K240	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 2016	98.9 100.0	102.0 100.0	99.8 100.0	96.4 100.0	93.3 100.0	96.3 100.0	99.2 100.0	100.1 100.0	97.9 100.0	102.7 100.0	97.3 100.0	
2017 2018	101.7 101.9	101.7 106.6	102.2 102.6	98.2 96.4	102.0 100.2	101.6 109.1	103.8 114.5	99.0 100.1	105.4 107.5	101.7 99.6	99.3 99.6	
2010	101.5	100.0	102.0	30.4	100.2	103.1	114.5	100.1	107.5	33.0	33.0	
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 Q2	102.5 100.7	107.3 106.2	104.1 101.2	92.8 95.4	99.2 100.4	109.0 108.6	118.7 117.3	104.4 101.8	105.9 102.5	101.9 99.4	97.5 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 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 Nov	101.7 101.6	110.7 107.6	102.1 102.4	96.5 95.7	100.1 99.5	113.4 110.2	114.7 116.0	100.1 101.2	105.6 106.0	100.1 99.4	100.6 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 Feb	102.0 102.3	104.9 107.9	103.2 103.9	96.0 91.5	98.6 99.1	105.2 109.8	116.1 119.7	103.0 103.4	105.1 106.0	101.5 102.2	99.0 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 May	100.0 101.1	105.5 106.6	100.6 101.6	94.0 94.9	99.2 100.9	107.4 109.2	117.5 120.0	102.9 100.8	99.7 104.1	99.6 99.4	97.3 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	101.2 100.5	104.5 103.4	101.8 101.1	95.6 94.6	101.4 101.6	106.5 104.6	115.9 114.7	103.0 101.8	103.7 103.3	98.9 98.4	98.5 97.4	
Aug Sep	100.3	105.2	100.7	94.0	101.7	106.9	115.2	100.6	103.7	98.0	97.4	
Oct Percentage cha	100.4	100.8	100.9	96.3	100.6	101.2	115.9	101.2	104.2	97.3	97.8	
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 2017	1.1 1.7	-2.0 1.7	0.2 2.2	3.7 -1.8	7.1 2.0	3.8 1.6	0.8 3.8	-0.1 -1.0	2.1 5.4	-2.6 1.7	2.8 -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 cha	nge, latest mon	th on same m	onth a year ago									
2017 Aug Sep	1.7 2.7	-2.1 4.9	2.4 3.0	-0.6 0.2	0.7 1.8	-3.8 5.5	4.2 7.7	0.5 -0.7	5.0 6.9	1.2 2.3	-1.1 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 Dec	2.4 0.5	7.0 -13.7	3.7 1.3	-5.5 0.8	-0.1 -0.1	8.1 -19.8	5.1 3.6	0.8 -3.8	7.3 5.4	3.1 1.5	-2.8 -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 Mar	1.3 1.6	2.4 -2.2	1.6 1.7	3.3 9.9	-4.0 -5.5	4.6 -0.6	9.5 16.4	2.1 0.4	4.2 5.9	-1.3 -2.0	2.2 5.3	
Apr	0.9	7.8 5.3	0.8	1.8 -8.0	-2.1 -1.2	12.9 7.6	12.7 14.6	-0.2 2.0	4.9 3.9	-3.1 -2.6	3.2 -3.9	
May Jun	0.1 0.9	0.7	1.1 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 Sep	0.9 -0.9	9.9 2.6	0.7 -0.6	-2.3 -4.8	1.1 -0.9	13.4 3.7	10.2 3.6	0.6 1.4	2.3 -1.4	-0.9 -1.6	1.8 -1.5	
Oct Nov	-1.3 -1.4	3.7 -0.3	-1.6 -1.1	-0.2 -2.6	-2.0 -2.3	4.0 0.4	8.4 9.5	1.0 1.4	-2.6 -1.0	-2.8 -3.9	1.0 -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 Mar	-0.2 1.1	5.9 10.7	0.8 2.4	-9.3 -11.8	-0.9 0.4	6.2 11.8	5.4 5.3	3.8 8.2	-3.1 -2.4	2.8 3.5	-3.9 -4.7	
Apr May	-1.6	-2.0 0.4	-1.4 -0.7	-5.0 3.5	0.7 1.7	-3.6 1.1	4.0 3.5	3.4 0.3	-7.2 -3.1	1.3 0.8	-4.0 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 Sep	-1.8 -1.4	-7.4 -2.7	-1.6 -1.8	-1.9 -0.1	1.0	-9.1 -3.3	0.3 2.6	2.2 0.7	-4.1 -2.5	-1.8 -2.6	-3.8 -1.5	
Oct	-1.3	-9.0	-1.2	-0.1	0.4	-10.8	1.0	1.1	-1.3	-2.8	-2.8	

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

<sup>&</sup>lt;sup>†</sup> indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.

continued			Broad ind	lustry groups				Ma	ain industrial group	Seasonally adjus ings	100 2010 - 100
	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	В	С	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	K240	K24T
Percentage cha	nge, latest mont	h on previous	month								
2017 Aug Sep	0.1 1.1	-1.3 3.7	0.4 1.1	0.3	-1.1 1.2	-1.1 4.9	3.5 4.5	1.5 -0.5	-0.6 2.3	1.2	0.1 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 Dec	-0.2	1.1 -19.3	-0.2 0.7	1.6 2.4	-0.4	0.7 -25.5	0.2 3.2	0.6 -0.7	-1.2 1.7	0.4 0.4	0.6 -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 Apr	-0.3 -0.5	-3.1 9.1	-0.4 -0.6	2.1 -4.1	-0.6 -0.8	-3.2 11.3	0.8 -1.3	-0.7 0.6	-0.3 -1.5	-0.8 -0.4	0.8 -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 Aug	0.2	4.8 0.8	-0.5 0.1	3.5	0.3 -0.5	7.2 0.5	-0.2 -0.7	-2.6 -0.4	-0.1 0.7	0.7 -0.1	4.0 -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 Dec	-0.1 -0.6	-2.8 -0.9	0.3 -0.6	-0.8 -1.3	-0.7 0.2	-2.8 -0.6	1.2 -0.7	1.0 -1.0	0.4 -0.7	-0.7 -	-1.2 -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 Mar	0.3 0.9	2.9 1.3	0.7 1.1	-4.6 -0.7	0.5 0.7	4.3 2.0	3.1 0.7	0.4 3.5	0.8 0.5	0.7 -0.1	-2.1
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 Aug	0.1 -0.7	-1.8 -1.1	0.5 -0.7	-1.9 -1.1	0.3 0.2	-2.6 -1.8	1.2 -1.1	1.4 -1.2	0.1 -0.4	-0.2 -0.6	-1.2 -1.1
Sep Oct	-0.3 0.1	1.8 -4.2	-0.4 0.2	-0.5 2.4	0.1 -1.2	2.2 -5.4	0.5 0.5	-1.2 0.6	0.3 0.5	-0.3 -0.8	0.5
00.	0.1		0.2			0.1	0.0	0.0	0.0	0.0	0.0
Percentage cha	nge, latest 3 moi	nths on same	3 months a year	ago²							
2017 Aug	1.5	0.1	2.2	-1.3	0.8	-1.2	4.3	0.3	4.5	1.5	-0.7
Sep Oct	2.0 2.8	-0.4 5.9	2.6 3.4	-0.4 -1.6	1.2 1.4	-1.7 7.1	3.9 5.4	-0.1 0.6	6.0 6.9	1.6 2.4	-0.8 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 Feb	1.1 0.7	-1.7 -3.3	2.2 1.5	-3.5 -0.6	-1.6 -2.9	-3.0 -4.3	6.2 7.7	-1.7 -1.3	6.5 5.5	1.3 -0.2	-3.4 -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 May	1.3 0.9	2.6 3.6	1.4 1.2	4.9 1.1	-3.9 -3.0	5.6 6.6	12.8 14.6	0.8 0.7	5.0 4.9	-2.1 -2.6	3.6 1.4
Jun	0.9	4.5	1.2	-3.8	-0.4	7.1	12.1	1.6	4.9	-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 0.3	6.0 6.7	1.1 0.4	-3.2 -3.0	1.2 0.2	8.6 9.5	11.3 9.4	2.1 1.5	2.2 0.6	-1.0 -1.0	0.3 0.8
Sep Oct	-0.4	5.3	-0.5	-3.0 -2.5	-0.6	6.9	7.4	1.0	-0.6	-1.7	0.6
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 Feb	-1.2 -0.8	6.8 9.1	-1.4 -0.7	-2.7 -4.9	-1.7 -1.2	9.3 11.5	5.4 4.1	2.2 3.0	-3.2 -3.9	-2.4 -0.2	0.8 -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 -0.2	4.7 2.8	0.6 0.1	-8.7 -4.7	0.1 0.9	4.5 2.8	4.9 4.3	5.1 3.9	-4.2 -4.2	2.6 1.9	-4.2 -2.2
May Jun	-0.2	-0.3	-1.3	0.9	0.9	-0.1	2.3	0.8	-4.2 -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 Oct	-1.4 -1.5	-5.3 -6.4	-1.4 -1.5	-1.0 -0.7	0.1 0.5	-6.5 -7.8	1.2 1.3	1.9 1.3	-3.2 -2.7	-1.9 -2.4	-2.7 -2.7
		5.4	1.0	0.7	3.5	0	1.0	1.0	,		/

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

 $<sup>^\</sup>dagger$  indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised

continued			<b>g</b>							Seasonally adjus	ted 2016 = 100
			Broad ind	lustry groups				Ma	ain industrial group	ings	
	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	В	С	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 cha	nge, latest 3 moi	nths on previo	us 3 months <sup>2</sup>								
2017 Aug Sep Oct Nov Dec	0.6 0.9 1.2 1.5 1.1	2.6 1.3 1.6 3.4 -2.6	0.6 0.9 1.5 1.7 1.5	1.6 0.3 -0.7 -0.5 -0.2	-1.4 1.0 0.8 1.2 0.6	3.3 2.0 2.7 5.0 -3.3	3.4 1.7 3.5 3.4 2.9	-0.2 -1.0 0.3 0.4 1.0	2.0 3.2 2.8 2.7 1.6	-0.1 0.2 1.0 1.8 1.9	1.4 -0.3 0.4 -0.8
2018 Jan Feb Mar Apr May Jun	0.3 -0.3 -0.5 -0.6 -0.9 -0.7	-4.7 -8.5 0.8 3.1 6.8 5.0	0.8 0.2 -0.7 -1.2 -1.3 -0.6	-0.1 0.9 1.2 3.0 -1.0 -5.1	-0.5 -1.5 -2.3 -1.6 -1.3 0.3	-6.2 -10.5 2.9 5.9 9.8 5.5	3.7 5.3 6.5 3.4 1.8 0.6	0.3 -0.3 0.2 0.5 1.9	1.6 1.8 1.6 -0.3 -1.6 -2.3	0.5 -1.6 -3.7 -3.7 -2.7 -0.7	-1.7 -1.8 1.0 3.1 1.5 -1.5
Jul Aug Sep Oct Nov Dec	-0.2 0.6 0.5 0.1 -0.6 -0.7	4.7 5.0 3.4 2.4 -0.5 -1.7	0.2 0.6 0.1 -0.3 -0.6 -0.6	-7.1 -2.6 1.2 2.1 0.1 -0.2	1.8 2.8 1.6 -0.2 -1.7	4.6 5.3 4.2 2.9 -0.7 -2.1	1.6 0.4 -0.7 -1.5 -0.5 1.3	1.8 1.1 -1.1 -1.2 -0.4 0.6	-1.3 -0.6 -0.2 -0.5 -1.2 -1.3	0.8 1.6 1.6 0.8 -	-2.8 0.2 2.1 1.9 -0.3 -1.0
2019 Jan Feb Mar Apr May Jun	-0.4 0.1 1.1 0.3 -0.3 -1.8	-3.4 -2.1 -0.9 1.1 0.6 -1.1	0.6 2.0 0.8 -0.5 -2.8	-0.3 -1.5 -2.8 -3.4 -0.8 2.8	-1.6 -1.0 -0.6 0.1 0.9 1.2	-4.1 -2.9 -1.8 1.3 1.2 -0.3	1.8 2.3 3.0 2.9 2.0 -1.2	1.5 1.7 3.9 3.0 1.4 -2.6	-1.0 -0.5 0.2 -1.3 -1.9	-0.2 1.0 2.3 1.2 -0.7 -2.5	-1.3 -1.6 -2.0 -2.0 -0.5 1.0
Jul Aug Sep Oct	-0.7 -0.5 - -0.7	-1.6 -2.2 -1.7 -2.6	-1.6 -1.0 - -0.7	4.1 2.8 -0.7 -1.0	1.7 1.4 1.2 0.2	-1.2 -2.5 -2.4 -3.8	-2.0 -3.5 -1.8 -1.4	-2.5 -1.4 -	-0.3 0.1 1.1 -0.1	-2.1 -1.5 -0.9 -1.3	2.0 0.9 -0.8 -1.4

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

<sup>&</sup>lt;sup>†</sup> 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 Basic pharmaceutical Textiles, wearing apparel and Wood and paper products Food products, Coke and Chemicals refined petroleum and chemical beverages products and and tobacco leather products and printing products products preparations CF Section CA CB CC CD CE 119.1 22.9 54.0 8.1 47.0 55.1 Latest weight K239 K22B K22P K22T K22X K22Z 100.9 104.7 100.7 99.0 101.5 2014 94.9 2015 2016 100.8 100.0 102.3 100.0 101.5 100.0 101.4 100.0 106.6 100.0 95.5 100.0 2017 99.7 100.1 101.1 101.4 102.6 98.2 100.9 101.1 2018 Q3 Q4 102.2 101.7 94.9 92.4 99.4 99.6 101.0 99.3 104.4 105.6 97.6 101.8 2019 104.6 102.2 95.7 95.0 102.7 100.7 103.2 109.3 102.3 108.5 105.6 94.5 Q3 102.5 95.6 99.6 89.2 100.3 106.0 2018 Aug Sep Oct 102.7 101.5 102.1 95.4 92.6 91.8 98.0 99.6 101.1 98.1 99.6 102.8 102.8 101.0 107.1 98.8 99.7 104.8 101.3 101.5 92.2 93.3 101.2 98.7 99.1 99.1 105.7 106.3 104.6 99.8 Dec 103.4 105.8 105.5 106.1 Jan Feb 104.0 104.2 94.1 95.9 101.7 102.0 109.4 108.9 105.6 103.6 97.2 96.1 104.3 102.5 100.4 96.1 109.4 101.0 113.8 105.6 Mar Apr May 97.9 103.7 102.1 93.9 99.2 102.6 100.9 100.4 103.4 97.0 94.8 95.1 101.9 102.7 103.0 99.8 99.9 99.1 101.0 111.8 105.8 100.4 Jul 91.7 89.6 100.4 99.7 Aug Sep 86.2 93.7 103.7 98.8 99.8 102.4 Percentage change, latest year on previous year 4.2 2014 -2.9 0.9 -9.0 2.3 -4.9 0.7 -1.4 1.1 2.4 -1.3 1.4 5.1 -6.2 2.6 2015 2016 -0.2 -0.8 -2.2 -2.3 0.6 4.7 2017 -0.3 0.1 -18 1.2 1.0 2.9 Percentage change, latest month on same month a year ago 6.4 1.3 -1.6 -8.4 -4.0 -0.3 3.5 -0.7 5.8 -0.5 2017 Aug 1.0 1.4 3.0 2.4 0.7 3.0 -1.3 1.0 1.3 0.2 1.9 5.9 3.3 2.8 4.1 Sep Nov -1.3 5.5 -13.3 -2.3 -1.1 -1.4 -2.9 -0.2 -3.9 -8.1 -11.7 -8.0 2018 Jan -1.6 2.8 -0.7 -2.6 -0.1 0.8 0.7 Feb Mar -6.3 -6.4 10.5 6.7 -1.2 2.7 1.1 -4.9 -5.1 -3.7 -3.6 -1.1 -1.1 -6.6 -9.5 -6.6 3.9 2.7 8.1 Apr May Jun 2.8 -2.1 2.7 2.4 2.8 1.6 -2.7 -1.6 -3.2 -0.7 2.5 -0.1 0.5 -1.9 1.7 3.0 -2.1 -5.9 -0.3 -1.5 1.6 Jul Aug Sep Oct 3.0 2.9 1.4 -8.5 -8.0 0.3 Nov -9.4 2.8 -8.8 -3.3 1.1 4.5 11.1 18.4 5.8 -1.2 3.2 -8.6 2.8 2.7 6.2 7.7 2019 Jan 5.2 -2.2 4.8 5.2 5.1 6.3 3.7 Feb Mar 3.0 5.6 7.9 4.1 14.0 5.0 -0.5 1.0 3.9 1.5 -0.8 Apr May 1.6 0.3 1.0 -1.1 0.1 -0.2 Jun -0.4 0.1 1.5 1.5 -0.8 1.9 -0.5 0.1 Jul Aug Sep Oct -4.0 -0.6 -7.0 -4.8 17.3 7.9 0.3 -0.7 -5.8 -12.8 2.6 4.0 -6.1

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

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

## Op5 Output of the Production Industries Chained volume indices of gross value added¹

Seasonally adjusted 2016 = 100 Rubber and plastic products and non-metallic Machinery and equipment not elsewhere Computer, electronic and Basic metals Electrical manufacturing Transport and metal mineral products products optical products equipment classified equipment and repair Section CG CH CI CJ CK CL CM 56.4 82.3 51.6 19.4 58.1 108.5 66.1 Latest weight K23Z K23B K23G K23N K23P K23R K23T 96.7 103.3 103.9 115.5 2014 102.4 90.6 96.6 2015 2016 98.1 100.0 102.9 100.0 100.1 100.0 104.2 100.0 100.6 100.0 96.2 100.0 95.7 100.0 99.6 96.7 104.9 2017 101.4 102.7 107.2 103.1 106.7 102.0 105.9 2018 Q3 Q4 97.5 96.4 100.5 97.9 117.5 119.4 94.8 96.3 107.6 107.1 102.5 99.0 105.8 104.9 95.5 93.5 101.3 123.8 121.5 101.2 101.5 106.1 104.3 98.8 92.8 102.6 103.0 98.6 Q3 92.2 98.6 119.5 97.2 101.6 98.6 101.7 2018 Aug Sep Oct 97.0 97.2 97.0 96.7 95.6 118.5 115.3 118.7 95.8 94.3 95.8 108.5 106.6 106.7 103.1 102.4 99.0 106.0 105.3 105.1 100.8 100.8 99 2 96.6 97.8 119.8 119.6 95.0 98.1 107.5 107.1 98.9 99.3 106.4 103.2 Dec 95.4 95.4 95.7 94.0 Jan Feb 100.5 102.3 121.2 125.1 100.6 101.1 106.0 106.2 98.3 98.7 101.5 102.1 101.2 98.4 125.1 121.4 101.9 102.9 106.1 104.7 99.5 84.9 104.3 104.8 Mar Apr 93.4 May 99.5 124.1 102.2 104.3 94.9 103.8 93.2 97.8 99.5 103.8 98.6 93.2 92.2 91.2 98.3 96.7 96.6 Jul 98.9 120.2 102.2 98.7 100.9 98.2 98.6 118.4 119.9 101.1 101.5 98.6 98.5 102.3 101.8 Aug Sep 92.5 101.8 102.3 Percentage change, latest year on previous year 2.3 9.5 5.1 2014 3.7 -3.3 4.2 4.0 0.3 -4.1 2.7 -12.8 -0.6 7.2 -0.9 4.5 6.7 2015 2016 1.5 -0.4 -2.8 -2.2 -0.1 6.2 4.0 3.1 -1.1 2017 -0 4 14 49 -1.6 12.7 2.2 -0.7 Percentage change, latest month on same month a 5.6 11.2 6.5 7.5 3.4 2017 Aug -0.3 3.6 5.7 1.8 7.9 2.4 7.7 4.7 6.6 3.8 -1.0 2.7 9.3 12.2 11.1 3.0 8.6 0.9 6.9 3.9 10.8 Sep -0.7 -0.7 -0.2 1.2 Nov 3.5 10.3 1.8 -2.9 -7.5 -3.3 0.8 3.2 3.0 13.1 13.6 21.2 13.6 2.2 9.8 2.3 2.5 0.6 2.2 -2.0 -0.3 2018 -1.7 Jan Feb Mar -3.4 -5.2 -6.3 -3.2 1.5 -6.8 -4.9 -12.0 9.7 2.2 6.7 3.6 2.4 -1.3 Apr May 0.8 16.4 -2.0 -0.5 -3.8 -2.0 18.2 10.2 3.1 Jun -0.3 -2.2 -2.5 -3.0 -4.2 -4.3 0.1 -1.4 -1.2 Jul 0.9 -11.0 1.0 Aug Sep Oct 0.3 -0.7 -4.5 -7.0 13.4 -3.91.6 -10.3 -7.8 -7.9 -3.8 -3.7 -4.4 -0.1 -8.4 -2.9 -3.9 0.5 -1.2 3.7 9.8 Nov 10.7 -4.0 -9.1 -7.0 -6.2 -3.4 -5.6 -6.2 -3.8 -2.8 -1.4 2019 Jan -2.3 3.0 2.6 -9.5 -7.1 Feb Mar 0.2 -0.7 -0.4 6.9 6.0 5.9 7.8 -6.5 -3.0 -4.1 -6.8 -1.7 3.3 -1.2 4.3 3.3 0.2 8.3 7.2 7.6 -6.3 -4.0 -4.6 -16.5 -6.8 -2.9 -0.9 -1.7 -5.4 Apr May -3.9 -6.3 Jun 1.2 -0.1 4.0 1.6 Jul Aug Sep Oct -1.2 -2.5 -2.1 -2.2 4.3 0.9 2.5 -3.5 -5.0 -6.8 -4.8 -4.6 -3.2 -4.4 -5.0 -3.5 -3.3 -2.6 -5.3 -5.0 -6.2 -6.4 -3.8 0.2

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

## IOP5 Output of the Production Industries Chained volume indices of gross value added

Seasonally adjusted 2016 = 100 Basic Food products, beverages Textiles, wearing apparel and Wood and paper products Coke and refined petroleum Chemicals pharmaceutical products and and chemical and tobacco eather products and printing preparations products products Section CA CC CD CE CF СВ 119.1 22.9 54.0 8.1 47.0 55.1 Latest weight K22B K22P K22T K22X K22Z K239 Percentage change, latest month on previous month 8.3 0.9 4.2 -1.5 2.8 2017 1.8 Aua Sep Oct -0.4 0.8 -0.2 -1.5 0.5 -0.6 -0.5 1.1 Nov Dec 0.6 2.0 -0.1 0.1 -4.2 0.6 0.5 1.0 -5.9 -3.4 2018 Jan -0.2 -3.0 -5.1 -0.1 0.8 1.3 -2.1 1.9 Feb Mar 0.3 0.4 -3.9 1.5 6.1 2.6 -1.6 -0.7 0.2 1.4 -1.1 Apr May 0.2 -0.7 2.2 0.6 -2.5 0.4 1.9 1.1 Jun 0.2 -0.2 -0.4 3.2 1.0 6.2 Jul Aug 1.1 0.4 2.1 -1.3 1.3 -2.6 -0.6 5.6 1.4 -3.9 -12.2 2.8 Sep -1.2 0.7 -2.9 -0.9 1.6 -0.8 6.0 -2.2 1.6 1.4 -3.0 0.5 2.4 -2.4 3.6 -4.6 Nov -0.8 -0.6 0.9 Dec 0.2 0.5 4.3 2.4 -5.2 2019 Jan 2.5 0.9 3.1 3.0 5.7 Feb Mar 0.2 1.8 0.3 -0.5 0.5 0.6 7.3 Apr May -1.9 -1.4 -1.1 -2.2 -1.8 -3.1 -4.2 1.9 -7.7 1.6 -7.2 -1.9 Jun -1.2 1.1 1.1 -8.6 0.8 3.8 2.2 -0.5 2.4 Jul 1.0 -2.4 3.9 0.8 0.2 0.6 -2.3 -3.7 8.6 -0.5 -0.7 0.1 -2.3 0.3 0.1 -0.8 -0.3 -5.4 -5.1 2.1 Aug Percentage change, latest 3 months on same 3 months a year ago -0.1 -0.5 -0.2 0.2 0.5 0.2 0.6 1.1 0.7 3.0 2.7 3.4 1.6 2017 Aug Sep 2.8 1.4 -3.3 1.8 1.0 1.9 3.1 0.3 0.3 2.6 4.4 -3.0 -4.7 3.4 2.7 Nov Dec 2.0 3.4 -0.7 -0.8 0.1 -6.9 -7.9 1.2 0.8 -4.8 -1.6 2018 Jan Feb -1.6 -0.8 Mar -1.6 -1.2 -4.6 -5.9 -2.4 -2.6 -9.2 -8.7 0.2 5.8 7.0 Apr -5.5 -4.6 -2.9 -1.9 -8.0 -7.6 -1.1 -0.6 4.4 4.9 May 0.8 Jun -3.7 -3.9 -5.6 -7.5 -8.7 3.6 2.1 -0.1 0.1 Jul 2.3 -0.2 -4.8 -0.2 -0.7 -0.9 -2.5 -1.9 Aug Sep Oct 2.6 3.3 3.2 2.4 -1.5 0.9 0.5 1.1 1.0 -0.5 0.1 Nov 1.6 2.6 Dec 2.3 -8.7 -2.4 0.3 3.2 1.0 -6.9 -2.9 1.2 2019 Jan Feb 3.1 4.3 -0.4 0.7 4.5 9.9 5.0 5.9 2.6 3.0 7.6 7.3 6.4 1.5 Mar 5.5 3.9 11.6 7.0 5.0 3.7 Apr May 2.5 4.6 3.5 4.6 2.7 7.3 2.5 1.5 1.8 -2.3 Jun 0.2 5.6 7.7 8.5 0.1 -0.2 -0.1 -3.8 Jul -1.4 Aug Sep Oct -0.2 0.4 -0.1 0.7 0.7 -9.1 -11.7 -1.6 -3.9 1.0 2.0 -11.7 -4.2 3.3

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

<sup>&</sup>lt;sup>†</sup> indicates that data are new or have been revised. The perior marked is the earliest in the table to have been revised.

## Output of the Production Industries Chained volume indices of gross value added Chained volume indices of gross value added

	Rubber and				Machinery and		<b></b>
	plastic products and non-metallic mineral products	Basic metals and metal products	Computer, electronic and optical products	Electrical equipment	equipment not elsewhere classified	Transport equipment	Other manufacturing and repai
Section	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 c	hange, latest month	on previous mon	ntł				
2017 Aug Sep	0.5 0.4	1.4 1.0	3.6 6.4	-5.8 5.4	0.4 3.7	-3.2 -0.4	-0.3 2.1
Oct	0.4	2.3	-2.8	-1.1	5.7	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 May	-0.9 3.4	-1.4 -3.8	-1.4 3.2	0.5 0.3	-1.8 -2.8	-0.8 0.1	-1.5 -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 Dec	-0.3 -1.2	-2.6 1.2	1.0 -0.2	-0.8 3.2	0.8 -0.4	-0.1 0.4	1.2 -3.0
2019 Jan	-0.2	2.7	1.4	2.6	-1.0	-1.0	-1.6
Feb Mar	0.3	1.9 -1.1	3.2	0.5 0.8	0.2 -0.2	0.4 0.8	0.6 2.1
Apr	-1.7	-1.1	-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 Oct	-1.0 -0.4	0.4 -1.6	1.3 0.6	-0.1 -4.3	0.4 0.3	-0.1 0.6	-0.5 0.5
	hange, latest 3 mont			4.5	0.0	0.0	0.0
•	• .		, ,	0.4		4.0	5.0
2017 Aug Sep	-0.6 -0.3	0.2 0.2	5.9 5.9	6.1 6.5	5.4 7.2	1.8 3.8	5.8 7.3
Sep Oct	-0.3 -0.3	0.2 3.2	5.9 7.8	6.5 4.7	7.2 9.0	3.8 4.4	6.2
Nov	-0.3 0.1	3.2 4.9	7.8 8.4	3.1	10.9	4.4	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 Jun	-4.9 -2.7	- -1.7	18.5 14.8	-5.0 -8.0	7.2 6.1	-0.6 0.2	1.9 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 Jun	-1.0 -3.5	0.4 0.1	4.5 2.6	7.8 7.7	-5.7 -5.0	-8.7 -8.7	-1.8 -2.6
Jul	-5.2	0.3 -1.7	1.6 0.4	6.4 4.2	-4.5 -5.5	-4.3 -3.5	-4.0 -4.6
						-3 5	-4 6
Aug	-5.5						
	-5.5 -5.5 -5.8	-1.7 -1.9 -2.3	1.7 1.8	2.6	-5.5 -5.4	-3.8 -2.7	-3.9 -3.2

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

 $<sup>^\</sup>dagger$  indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.

## Output of the Production Industries Chained volume indices of gross value added

Seasonally adjusted 2016 = 100 Basic Food products, beverages Textiles, wearing apparel and Wood and paper products Coke and refined petroleum Chemicals pharmaceutical products and and chemical preparations and tobacco leather products and printing products products CA СВ CC CD CE CF 119.1 22.9 54.0 8.1 47.0 55.1 Latest weight K22B K22P K22T K22X K22Z K239 Percentage change, latest 3 months on previous 3 months 2017 Aug Sep Oct -0.6 -1.0 -0.4 -0.2 0.5 -1.3 -0.5 1.3 1.7 1.6 1.6 -1.5 1.0 1.7 3.2 -3.0 -4.4 0.7 0.3 1.2 Nov Dec 1.4 -0.4 -0.9 0.4 0.3 -0.2 -0.3 0.2 -0.7 -0.4 -6.0 -1.2 1.3 2018 Jan -3.7 -6.6 -6.1 -2.6 0.2 -6.9 -6.7 -2.4 2.3 4.6 Feb Mar -1.0 -1.6 0.6 -3.1 -2.6 -1.6 -0.2 -0.3 -0.6 Apr May 0.4 0.4 0.4 3.3 1.1 1.6 Jun 0.2 Jul Aug 2.1 2.0 1.6 1.1 1.5 0.8 3.0 3.8 4.4 5.2 2.0 1.7 2.1 0.5 0.8 -0.6 -6.2 -2.4 1.2 4.3 0.2 -2.3 -3.6 -2.7 Sep 1.4 0.6 -0.4 -0.5 1.2 2.5 Nov 0.5 Dec 0.1 -0.1 2.4 3.6 3.4 1.4 Jan Feb Mar 0.2 1.6 2.9 -1.2 2.2 3.9 2.7 2.2 3.5 2019 1.7 3.8 2.0 6.5 5.0 3.8 0.9 3.1 2.4 1.2 Apr May 2.2 0.2 -0.7 -3.6 Jun -2.3 -0.8 -1.9 -8.4 -6.3 -2.6 -2.7 -1.8 0.3 1.5 -3.0 -1.9 -1.1 -0.5 -7.7 -8.0 -5.6 -3.4 -3.9 -2.6 -1.9 -2.3 -0.7 0.6 0.3 -4.5 -1.1 -0.2 0.7 -0.2 Jul Aug Sep

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

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## **IOP5** Output of the Production Industries Chained volume indices of gross value added <sup>1</sup>

Seasonally adjusted 2016 = 100 Machinery and equipment not Rubber and plastic products Basic metals Computer, and non-metallic and metal electronic and Electrical elsewhere Transport manufacturing mineral products products optical products equipment classified equipment and repair CG СН CJ CK CL СМ 56.4 82.3 51.6 19.4 58.1 108.5 66.1 Latest weight K23B K23G K23N K23P K23R K23T K23Z Percentage change, latest 3 months on previous 3 months 2017 Aug -1.6 8.0 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 2.9 4.3 4.6 -0.8 4.4 5.9 2.1 1.0 Nov 1.6 0.5 1.5 -0.1 3.7 0.6 4.1 -0.9 Dec 1.0 4.8 0.2 2018 Jan -0.2 2.5 4.3 -0.7 4.7 -1.0 -2.7 -4.2 5.8 7.4 -4.2 -7.8 2.4 1.3 0.5 0.4 Feb 1.0 0.6 Mar -2.8 -4.7 -2.7 4.0 -7.1 -2.1 -0.2 -1.9 Apr May -2.2 -4.6 -4.8 -2.3 Jun 1.0 -3.6 0.8 -1.9 -3.7 -2.9 -1.3 Jul 3.8 -3.1 1.8 -3.4 -1.5 -0.4 -1.1 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 8.0 -0.4 1.8 -1.5 Oct -1.3 14 -1.0 -0.2-2.0 -1.3 0.9 Nov -1.1-0.6 -1.3 -0.4 Dec -2.6 1.5 1.6 -0.4 -3.4 -0.9 -1.1 2019 Jan -1.2 -1.9 2.3 2.8 -0.4 -2.7 -1.7 Feb -1.5 1.4 3.4 3.7 5.2 -0.5 -1.3 -3.2 -1.0 3.5 5.1 -0.9 -0.2 -2.1 Mar Apr -0.9 -1.1 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 -2.0 Aug -1.6 -1.4 -3.5 -4.1 -2.5 5.9 -3.0 -1.7 Sep -1.4 -4.3 -2.6 6.2 -1.3

-1.2

-4.7

-2.0

Oct

-0.8

-1.9

1.4

0.5

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

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



## Revisions to Output of the Production Industries, October 2019

Page 1	Output by Broad industry groups and Main industrial groupings Percentage change, latest year on previous year Percentage change, latest month on same month a year ago
Page 2	Percentage change, latest month on previous month Percentage change, latest 3 months on same 3 months a year ago
Page 3	Percentage change, latest 3 months on previous 3 months
Page 4	Output by Manufacturing sub-sectors part 1 Percentage change, latest year on previous year Percentage change, latest month on same month a year ago
Page 5	Output by Manufacturing sub-sectors part 2 Percentage change, latest year on previous year Percentage change, latest month on same month a year ago
Page 6	Percentage change, latest month on previous month part 1 Percentage change, latest 3 months on same 3 months a year ago
Page 7	Percentage change, latest month on previous month part 2 Percentage change, latest 3 months on same 3 months a year ago
Page 8	Percentage change, latest 3 months on previous 3 months part 1
Page 9	Percentage change, latest 3 months on previous 3 months part 2

Enquiries

#### **Output of the Production Industries**

Chained volume indices of gross value added<sup>1</sup>

			Broad ind	ustry groups				Mai	n industrial group	pings	
	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	Energ
Section	B+C+D+E	В	C	D	E	06	MIG-CD	MIG-CND	MIG-CAG	MIG-IG	MIG-NR
	1 000.0	47.5	748.5	108.7	95.3	34.6	68.2	211.6	272.3	252.2	182.
Latest weight	K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K240	K24
2014											
2015	-		-	-	-	-			-	-	
2016 2017	-	-	-	-	:		-	-	-	-	
2018	-	-	-	-	-	-	-	-	-	-	
2018 Q3 Q4	-	-	-	-	-	-	-	-	-	-	
2019 Q1	_		_	_	_	_	_		_	_	
Q2	-	-	-	-	-	-	-	-	-	-	
Q3	-	-		-		-	-	-	-		
2018 Jul	_	-	-		-	-	-	-	-		
Aug	-	-	-	-	-	-	-	-	-	-	
Sep Oct	-	-	-	-	-		-	-	-	-	
Nov	-	-	-	-		-		-			
Dec	-	-	-	-	-	-	-	-	-	-	
2019 Jan	-	-	-	-	-	-	-	-	-	-	
Feb Mar	-	-	-	-	-		-	-	-	-	
Apr	-	-	-	-	-	-	-	-	-	-	
May Jun	-	-	-	-	-	-	-	-	-	-	
Jul Aug	-	-	-	-	-	-			-	-	
Sep	-	-	-	-	-	-	-	-	-	-	
Percentage cha	nge, latest year	on previous y	ear								
2014	-	-		-	-	-	-		-	-	
2015 2016	-	-	-	-	-	-	-	-	-	-	
2017	-	-	-	-	-	-			-	-	
2018	-	-	-	-	-	-	-	-	-	-	
Percentage cha	nge, latest mon	th on same mo	onth a year ago								
2017 Jul	-	-	-	-	-	-	-	-	-	-	
Aug Sep	-	-	-	-	-	-			-	-	
Oct	-	-	-	-	-	-	-	-	-	-	
Nov Dec	-	-		-							
018 Jan Feb	-	-	-	-	-	-	-	-	-	-	
Mar	-	-	-	-	-	-	-	-	-	-	
Apr May	-	-		-	-	-			-	-	
Jun	-	-	-	-	-	-	-	-	-	-	
Jul	-	-	-	-	-	-	-	-	-	-	
Aug	-	-	-	-	-	-	-	-	-	-	
Sep Oct	-		-	-	-	-		-		-	
Nov	-		-	-	-	-	-	-	-	-	
Dec	-	-	-	-	-	-	-	-	-	-	
2019 Jan	-	-	-	-	-	-	-	-	-	-	
Feb Mar	-	-	-	-	-	-	-	-	-	-	
Apr	-	-	-	-	-	-	-	-	-		
	-	-	-	-	-	-			-	-	
May Jun											
Jun											
May Jun Jul Aug	-	-	-	-	-	-	-	-	-	-	

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<sup>&</sup>lt;sup>†</sup> indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.



#### **Output of the Production Industries**

Chained volume indices of gross value added<sup>1</sup>

			Broad ind	lustry groups				Ma	in industrial group	ings	
	Production industries	Mining and quarrying	Manufacturing	Electricity, gas, steam and air conditioning	waste	Oil and gas extraction	Consumer durables	Consumer non-durables	Capital goods	Intermediate goods	Enerç
Section	B+C+D+E	В	С	D	E	06	MIG-CD	MIG-CND	MIG-CAG	MIG-IG	MIG-NR
atest weight	1 000.0	47.5	748.5	108.7	95.3	34.6	68.2	211.6	272.3	252.2	182
atest weight	K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K240	K24
Percentage char	nge, latest mont	h on previous	month								
017 Jul	-	-	-	-	-	-	-	-	-	-	
Aug Sep	-	-	-	-	-	-	-	-	-	-	
Oct	-	-	-	-	-	-	-	-	-	-	
Nov	-	-	-	-	-	-	-	-	-	-	
Dec	-	-	-	-	-	-	-	-	-	-	
)18 Jan	-	-	-	-	-	-	-	-	-	-	
Feb Mar	-	-	-	-	-	-	-	-	-	-	
Apr	-	-	-	-	-	-	-	-	-	-	
May	-	-	-	-	-	-	-	-	-	-	
Jun	-	-	-	-	-	-	-	-	-	-	
Jul											
Aug	-	-	-	-	-	-	-	-	-	-	
Sep	-	-	-	-	-	-	-	-	-	-	
Oct	-	-	-	-	-	-	-	-	-	-	
Nov	-	-	-	-	-	-	-	-	-	-	
Dec	-	-	-	-	-	-	-	-	-	-	
)19 Jan	_	-	-	_	-	-	-	-	_	_	
Feb	-	-	-	-	-	-	-	-	-	-	
Mar	-	-	-	-	-	-	-	-	-	-	
Apr	-	-	-	-	-	-	-	-	-	-	
May Jun	-	-	-	-	-	-	-	-	-	-	
Jul	-	-	-	-	-	-	-	-	-	-	
Aug Sep	-	-	-	-	-	-	-	-	-	-	
Зер	-	_	_	_	-	_	-	_	_	-	
ercentage char	nge, latest 3 moi	nths on same 3	3 months a year	ago							
)17 Jul											
Aug	-	-	-	-	-	-	-	-	-	-	
Sep	-	-	-	-	-	-	-	-	-	-	
Oct	-	-	-	-	-	-	-	-	-	-	
Nov Dec	-	-	-	-	-	-	-	-	-	-	
DCC											
018 Jan	-	-	-	-	-	-	-	-	-	-	
Feb	=	-	-	-	-	-	-	-	=	-	
Mar Apr	-	-	-	-	-	-	-	-	-	-	
May	-	-	-	-	-	-	-	-	-	-	
Jun	=	-	=	-	-	-	-	-	=	-	
Jul Aug	-	-	-	-	-		-		-		
Sep	-	_	-	-	_	-	-	-	-	_	
Oct	-	-	-	-	-	-	-	-	-	-	
Nov	-	-	-	-	=	=	-	-	-	-	
Dec	-	-	-	-	-	-	-	-	-	-	
19 Jan	-	-	-	-	-	-	-	-	-	-	
Feb	-	-	-	-	-	-	-	-	-	-	
Mar	-	-	-	-	-	-	-	-	-	-	
Apr May	-	-	-	-	-	-	-	-	-	-	
Jun	-	-	-	-	-	-	-	-	-	-	
Jul	=	-	-	-	-	-	-	-	=	-	
Aug Sep	-	-	-	-	-	-	-	-	-	-	
oep	-	-	-	-	-	-	-	-	-	-	

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

 $<sup>^\</sup>dagger$  indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised

#### **Output of the Production Industries**

Chained volume indices of gross value added<sup>1</sup>

			Broad ind	ustry groups				Ma	in industrial group	ings	
	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	Energ
Section	B+C+D+E	В	С	D	E	06	MIG-CD	MIG-CND	MIG-CAG	MIG-IG	MIG-NRO
_atest weight	1 000.0	47.5	748.5	108.7	95.3	34.6	68.2	211.6	272.3	252.2	182.
	K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K24O	K24
Percentage cha	nge, latest 3 mor	nths on previo	us 3 months								
2017 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	-	-	-	-	-	-	_	-	-	-	
Aug	-	-	-	-	-	-	-	-	-	-	
Sep		-			-	-	-	-			

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

 $<sup>^\</sup>dagger$  indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised



#### **Output of the Production Industries**

Chained volume indices of gross value added<sup>1</sup>

Seasonally adjusted 2016 = 100 Basic pharmaceutical products and Food products, beverages and tobacco Textiles, wearing apparel and Wood and paper products Coke and refined petroleum Chemicals and chemical leather products and printing products products preparations CF Section CA СВ CC CD CE 54.0 55.1 119.1 22.9 8.1 47.0 Latest weight K22P K22X K239 K22B K22T K22Z 2014 2015 2016 2017 2018 2018 Q3 Q4 Q3 2018 Jul Aug Sep Oct Nov 2019 Jan Apr May Jun Jul Aug Sep Percentage change, latest year on previous year 2014 2015 2016 2017 2018 Percentage change, latest month on same month a year ago 2017 Jul Aug Sep Oct Nov Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jul Aug Sep

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

<sup>&</sup>lt;sup>†</sup> indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.

#### **Output of the Production Industries**

Chained volume indices of gross value added 1

Seasonally adjusted 2016 = 100 Machinery and equipment not elsewhere Rubber and plastic products and non-metallic Computer, electronic and Basic metals Electrical manufacturing and metal Transport mineral products products optical products equipment classified equipment and repair Section CG СН CI CJ CK CL СМ 56.4 82.3 51.6 19.4 58.1 108.5 66.1 Latest weight K23B K23G K23N K23P K23R K23T K23Z 2014 2015 2016 2017 2018 2018 Q3 Q4 2019 Q1 Q2 Q3 2018 Jul Aug Sep Oct Nov 2019 Jan Apr May Jun Jul Aug Sep Percentage change, latest year on previous year 2014 2015 2016 2017 Percentage change, latest month on same month a year ago 2017 Jul Aug Sep Oct Nov Dec 2018 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Jul Aug Sep

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

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

#### **Output of the Production Industries**

Chained volume indices of gross value added

	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	Basio pharmaceutica products and preparations
Section	CA	CB	CC	CD	CE	CF
	119.1					
atest weight	K22B	22.9 K22P	54.0 K22T	8.1 K22X	47.0 K22Z	55.1 K239
Percentage cha	ange, latest month o					
2017 Jul	_	_	_	_	_	
Aug	-	-	-	-	-	
Sep	-	-	-	-	-	
Oct	-	-	-	-	-	
Nov Dec	-	-	-	-	-	
018 Jan Feb	-	-	-	-	-	
Mar	-	-			-	
Apr	-	-	-	-	-	
May	-	-	-	-	-	
Jun	-	-	-	-	-	
Jul	-	-	-	-	-	
Aug	-	-	-	-	-	
Sep	-	-	-	-	-	
Oct	-	-	-	-	-	
Nov Dec	-	-	-	-		
019 Jan	-	-	-	-	-	
Feb	-	-	-	-	-	
Mar Apr	-		-	-		
May	_	-	_	_	_	
Jun	-	-	-	-	-	
Jul	_		_	_	_	
Aug						
Sep	-	-	-	-	-	
Percentage cha	ange, latest 3 month	ns on same 3 months	s a year ago			
017 Jul						
Aug	-		-	-	-	
Sep	-	-	-	-	-	
Oct	-	-	-	-	-	
Nov	-	-	-	-	-	
Dec	-	-	-	-	-	
018 Jan	_	-	_	-	-	
Feb	-	-	-	-	-	
Mar	-	-	-	-	-	
Apr	-	-	-	-	-	
May Jun	-	-	-	-	-	
Jul	-	-	-	-	-	
Aug	-	-	-	-	-	
Sep Oct	-	-	-	-		
Nov	_	-	_	_	_	
Dec	-	-	-	-	-	
019 Jan						
Feb	-	-	-	-	-	
	-	-	-	-	-	
Mar		-	-	-	-	
Mar Apr	-			_	_	
Mar Apr May	-	-	-	_		
Mar Apr	-	-	-	-	-	
Mar Apr May Jun	-	-	-	-	-	
Mar Apr May	-	-	:	-	- - -	

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<sup>&</sup>lt;sup>†</sup> indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.

#### **Output of the Production Industries**

Chained volume indices of gross value added<sup>1</sup>

	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	Othe manufacturin and repa
Section	CG	СН	CI	CJ	CK	CL	CI
atest weight	56.4	82.3	51.6	19.4	58.1	108.5	66.
	K23B	K23G	K23N	K23P	K23R	K23T	K23
ercentage c	hange, latest month	on previous mor	ntł				
017 Jul	-	-	-	-	-	-	
Aug	-	-	-	-	-	-	
Sep Oct	_	_	_	_	-	_	
Nov	-	_	-	_	-	_	
Dec	-	-	-	-	-	-	
018 Jan	-	-	-	-	-	-	
Feb	-	-	-	-	-	-	
Mar	-	-	=	=	-	-	
Apr May	-	-	-	-	-	-	
Jun	-	-	-	=	=	-	
Jul	-	-	-	-	-	-	
Aug	-	-	=	-	-	-	
Sep	-	-	-	-	-	-	
Oct	-	-	-	-	-	-	
Nov Dec	-	-	-	-	-	-	
019 Jan	_	_	_	_	-	_	
Feb	-	-	=	-	-	-	
Mar	-	-	-	-	-	-	
Apr	-	-	-	-	-	-	
May	-	-	-	-	-	-	
Jun	-	-	-	=	=	-	
Jul	-	-	-	-	-	-	
Aug Sep	-	-	=	-	=	-	
ercentage c	hange, latest 3 mont	ths on same 3 mo	onths a year ago				
017 Jul	_	_	_	_	_	_	
Aug	_	_	-	-	-	-	
Sep	-	-	-	-	-	-	
Oct	-	-	-	-	-	-	
Nov	-	-	-	-	-	-	
Dec	-	-	-	-	-	-	
)18 Jan	-	-	=	-	-	-	
Feb	-	-	-	-	-	-	
Mar Apr	=	-	=	=	-	-	
Apr May	-	-	-	-	-	-	
Jun	-	-	-	-	-	-	
			_	_	-	_	
Jul	_						
Jul Aua	<del>-</del> -	-	-	-	-	-	
Aug Sep	- - -	- -	-	-	- -	-	
Aug Sep Oct	- - -	- - -	-	- - -	- - -	- - -	
Aug Sep Oct Nov	- - - - -	- - - -	-	- - - -	- - - -	- - - -	
Aug Sep Oct Nov Dec	:	-	- - - -	- - - -	- - - - -	-	
Aug Sep Oct Nov Dec	-	-	- - - -	- - - -	- - - -	-	
Aug Sep Oct Nov Dec 019 Jan Feb		-	- - - - - -	-	-	-	
Aug Sep Oct Nov Dec 019 Jan Feb Mar		-				-	
Aug Sep Oct Nov Dec 019 Jan Feb		-	-	-		-	
Aug Sep Oct Nov Dec 019 Jan Feb Mar Apr	-	-	-	-	-	- - - - - - - - -	
Aug Sep Oct Nov Dec 019 Jan Feb Mar Apr May Jun		-	- - - - - - - - - -	-		- - - - - - - - -	
Aug Sep Oct Nov Dec 019 Jan Feb Mar Apr May		-	-			-	

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#### **Output of the Production Industries**

Chained volume indices of gross value added

		Food products, beverages and tobacco	Textiles, wearing apparel and leather products	Wood and paper products and printing	Coke and refined petroleum products	Chemicals and chemical products	Basic pharmaceutical products and preparations
Section		CA	СВ	CC	CD	CE	CF
_atest weight		119.1	22.9	54.0	8.1	47.0	55.1
	-	K22B	K22P	K22T	K22X	K22Z	K239
Perce	ntage cha	nge, latest 3 month	s on previous 3 mo	nths			
2017		-	-	-	-	-	-
	Aug	-	-	-	-	-	-
	Sep	-	-	-	-	-	-
	Oct	-	-	-	-	-	-
	Nov	-	-	-	-	-	-
	Dec	-	-	-	-	-	-
2018		-	-	-	-	-	-
	Feb	-	-	-	-	-	-
	Mar	-	-	-	-	-	-
	Apr	-	-	-	-	-	-
	May	-	-	-	-	-	-
	Jun	-	-	-	-	-	-
	Jul	-	-	-	-	-	-
	Aug	-	-	-	-	-	-
	Sep	-	-	-	-	-	-
	Oct	-	-	-	-	-	-
	Nov	-	-	-	-	-	-
	Dec	-	-	-	-	-	-
2019	Jan	-	-	-	-	-	-
	Feb	-	-	-	-	-	-
	Mar	-	-	-	-	-	-
	Apr	-	-	-	-	-	-
	May	-	-	-	-	-	-
	Jun	-	-	-	-	-	-
	Jul	-	-	-	-	-	-
	Aug	-	-	-	-	-	-
	Sep	-	-	-	-	-	-

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

<sup>&</sup>lt;sup>†</sup> indicates that data are new or have been revised. The period marked is the earliest in the table to have been revised.



#### **Output of the Production Industries**

Chained volume indices of gross value added <sup>1</sup>

Secondly adjusted 2016 - 10

continued Seasonally adjusted 2016 = 100								
		Rubber and plastic products and non-metallic mineral products	Basic metals and metal products	Computer, electronic and optical products	Electrical equipment	Machinery and equipment not elsewhere classified	Transport equipment	Other manufacturing and repair
Section		CG	CH	CI	CJ	CK	CL	CM
_atest weight		56.4	82.3	51.6	19.4	58.1	108.5	66.1
		K23B	K23G	K23N	K23P	K23R	K23T	K23Z
Perce	ntage cl	nange, latest 3 month	ns on previous 3	months				
2017		-	-	-	-	-	-	-
	Aug	=	=	-	-	-	-	-
	Sep	-	-	-	-	-	-	-
	Oct	-	-	-	-	-	-	-
	Nov	-	-	-	-	-	-	-
	Dec	-	-	-	-	-	-	-
2018		-	-	-	-	-	-	-
	Feb	=	-	-	-	-	-	-
	Mar	-	-	-	-	-	-	-
	Apr	-	-	-	-	-	-	-
	May	-	-	-	-	-	-	-
	Jun	-	-	-	-	-	-	-
	Jul	-	-	-	-	-	-	-
	Aug	-	-	-	-	-	-	-
	Sep	-	-	-	-	-	-	-
	Oct	-	-	-	-	-	-	-
	Nov	-	-	-	-	-	-	-
	Dec	-	-	=	-	=	-	-
2019	Jan	-	=	=	-	=	-	-
	Feb	-	-	-	-	-	-	-
	Mar	-	-	-	-	-	-	-
	Apr	=	=	-	-	-	-	=
	May	=	=	-	-	-	-	=
	Jun	-	-	-	-	-	-	-
	Jul	-	-	-	-	-	-	-
	Aug	-	-	-	-	-	-	-
	Sep	-	=	-	-	-	-	-

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

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