Statistical bulletin

Index of Production, UK: August 2020

Movements in the volume of production for the UK production industries: manufacturing, mining and quarrying, energy supply, and water and waste management. Figures are seasonally adjusted.

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1 . Main points

- In August 2020, the Index of Production is 6.0% below February 2020, the previous month of "normal" trading conditions, prior to the coronavirus (COVID-19) pandemic.

- Production output rose by 0.3% between July 2020 and August 2020, with manufacturing providing the largest upward contribution, rising by 0.7%; electricity and gas also rose (1.6%), partially offset by a fall in mining and quarrying (4.1%).

- The monthly increase of 0.7% in manufacturing output was led by other manufacturing and repair; 8 of the 13 subsectors displayed upward contributions.

- Total production output increased by 9.3% for the three months to August 2020, compared with the three months to May 2020; this was primarily because of the strength displayed during June and July 2020.

- For the three months to August 2020, compared with the three months to August 2019, production output decreased by 8.6%; this was led by a fall in manufacturing of 11.4%.

- The coronavirus continued to have a significant impact on our estimates of monthly, three-monthly and three-monthly on a year ago growth for production output during August 2020; for further and detailed analysis of the effect on our monthly index of production estimate, please see our article Coronavirus and the impact on output in the UK economy, UK: August 2020, published today (9 October 2020).

2 . Index of Production data

Index of Production time series
Dataset DIOP | Released 9 October 2020
Movements in the volume of production for the UK production industries: manufacturing, mining and quarrying, energy supply, and water and waste management. Figures are seasonally adjusted.

Output of the production industries
Dataset | Released 9 October 2020
Index values and growth rates for production, manufacturing and the main industrial groupings in the UK.

Index of Production and industry sectors to four decimal places
Dataset | Released 9 October 2020
Monthly index values for production and the main Index of Production (IoP) sectors in the UK to four decimal places.

Monthly Business Survey turnover in production industries
Dataset | Released 9 October 2020
Monthly Business Survey (MBS) production industries' total turnover, domestic sales and exports in the UK. Figures are in current price and non-seasonally adjusted.

Export proportions for manufacturing industries
Dataset | Released 9 October 2020
Monthly, three-monthly 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.

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

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

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

More quality and methodology information on strengths, limitations, appropriate uses, and how the data were created is available in the UK IoP QMI.

Leaving the EU

As the UK leaves the EU, it is important that our statistics continue to be of high quality and are internationally comparable. During the transition period, those UK statistics that align with EU practice and rules will continue to do so in the same way as before 31 January 2020.

After the transition period, we will continue to produce our national accounts statistics in line with the UK Statistics Authority's Code of Practice for Statistics and in accordance with internationally agreed statistical guidance and standards.

The Withdrawal Agreement outlines a need for UK Gross National Income (a fundamental component of the national accounts, which includes gross domestic product (GDP)) statistics to remain in line with those of other EU countries until the EU budgets are finalised for the years in which we were a member. To ensure comparability during this cycle, the national accounts will continue to be produced according to European System of Accounts (ESA) 2010 definitions and standards.

Coronavirus (COVID-19)

The Office for National Statistics' (ONS') Monthly Business Survey (MBS) is fully online, meaning that business owners can logon from any location and submit their data at an appropriate time. Most other data in the IoP come from the BEIS and therefore will be less impacted than survey data.

Our latest data and analysis on the impact of the coronavirus (COVID-19) on the UK economy and population is now available on a new web page. This will be the hub for all special coronavirus-related publications, including the fortnightly Business Impact of Coronavirus (COVID-19) Survey (BICS).

The ONS has released a public statement on COVID-19 and the production of statistics. Specific queries must be directed to the Media Relations Office.

Blue Book 2020

Each year we produce an annual update to the UK National Accounts in the [Blue Book](#) and [Pink Book](#)and the associated releases. As already announced, the Blue Book and Pink Book 2020 consistent datasets were published on 30 September 2020 as part of the [Quarterly National Accounts](#).

Details have already been provided on the scope in the article [Latest developments and changes to be implemented in Blue Book and Pink Book 2020](#). Indicative impacts on headline gross domestic product (GDP) components for the years 1997 to 2018 were published on 20 July 2020 in the article [Impact of Blue Book 2020 changes on current price and volume estimates of gross domestic product](#).

This publication incorporates revisions consistent with Blue Book 2020, where the reference year and latest base year for all chained volume measure series will be updated to 2018.

4 . Related links

[Coronavirus and the impact on output in the UK economy, UK: August 2020](#)
Article | Released 9 October 2020
Analysis of monthly growth for the production, services and construction industries in the UK economy between July and August 2020, highlighting the early impact from the coronavirus (COVID-19) pandemic.

[Comparison of motor vehicle manufacturing output statistics, UK: 1997 to 2019](#)
Article | Released 10 January 2020
A comparison of the methodologies used to estimate motor vehicle manufacturing outputs by the Office for National Statistics (ONS) and the Society of Motor Manufacturers and Traders (SMMT).

[A comparison between official estimates of UK output and diffusion indices](#)
Article | Released 21 October 2019
The level of correlation between ONS data and IHS Markit and Chartered Institute of Procurement and Supply Purchasing Managers' Indices.

[GDP monthly estimate, UK: August 2020](#)
Bulletin | Released 9 October 2020
Gross domestic product (GDP) measures the value of goods and services produced in the UK. It estimates the size of and growth in the economy and includes the Index of Production (IoP), Index of Services (IoS) and construction output in Great Britain.

[Producer price inflation, UK: August 2020](#)
Bulletin | Released 16 September 2020
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): 2019 results](#)
Bulletin | Released 01 July 2020
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 2020](#)
Bulletin | Released 24 September 2020
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.

Index of Production
Release Tables

Output of the Production Industries, August 2020

Enquiries

IOP5 Output of the Production Industries
Chained volume indices of gross value added[1]

	Broad industry groups						Main industrial groupings				
	Production industries	Mining and quarrying	Manufacturing	Electricity, gas, steam and air conditioning	Water supply, sewerage and waste management	Oil and gas extraction	Consumer durables	Consumer non-durables	Capital goods	Intermediate goods	Energy
Section	B+C+D+E	B	C	D	E	06	MIG-CD	MIG-CND	MIG-CAG	MIG-IG	MIG-NRG
Latest weight	1 000.0	80.9	725.1	102.2	91.8	68.2	67.9	199.0	278.7	231.6	213.2
	K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K24O	K24T
2015	96.3 †	96.5 †	96.4 †	99.7 †	93.3	89.1 †	86.7 †	98.3 †	90.5 †	102.4 †	97.3
2016	97.3	94.3	96.6	103.3	99.2 †	92.6	87.0	98.4	92.6	99.7	99.9 †
2017	99.1	95.0	98.9	101.2	101.5	93.6	90.0	98.6	97.3	100.8	98.9
2018	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2019	98.8	99.2	98.3	101.0	99.8	99.2	99.4	102.4	94.8	98.6	100.5
2019 Q2	98.8 †	98.5 †	98.2 †	102.2 †	100.0 †	98.5 †	100.7 †	101.6 †	95.0 †	98.5 †	100.7 †
Q3	98.3	100.0	97.6	99.9	100.5	100.3	98.0	101.7	94.5	97.6	100.1
Q4	98.0	98.2	96.9	103.1	100.1	98.3	98.3	101.2	93.1	97.2	101.5
2020 Q1	96.0	94.9	95.2	98.4	100.4	94.8	93.2	104.1	88.3	95.5	98.1
Q2	80.3	93.5	75.0	92.9	96.2	96.2	73.3	95.9	62.1	75.2	94.8
2019 Jun	98.9 †	97.8 †	98.2 †	103.1 †	100.5 †	98.0 †	98.7 †	101.4 †	95.8 †	98.2 †	100.7 †
Jul	98.7	97.3	98.4	100.5	100.0	97.4	98.1	103.7	94.9	97.6	99.6
Aug	97.9	98.3	97.3	99.7	100.7	98.1	97.9	100.4	94.5	97.5	99.5
Sep	98.3	104.5	97.2	99.4	100.7	105.4	98.0	101.1	94.1	97.6	101.2
Oct	98.8	98.5	97.9	103.7	99.9	98.3	101.4	101.8	95.0	97.8	101.8
Nov	97.8	99.6	96.5	103.8	100.0	99.6	97.7	101.3	92.4	96.7	102.2
Dec	97.3	96.5	96.4	101.8	100.4	97.0	95.9	100.5	92.0	97.2	100.6
2020 Jan	97.2	96.8	96.6	98.9	100.4	96.6	94.9	102.0	91.5	97.7	98.8
Feb	97.6	96.7	97.4	98.2	99.4	96.7	95.0	105.1	91.8	96.9	98.7
Mar	93.1	91.2	91.5	98.1	101.4	91.1	89.8	105.2	81.6	92.0	96.8
Apr	74.9	89.7	68.5	91.3	93.9	94.0	66.0	93.5	54.8	65.8	93.4
May	79.1	92.1	73.9	91.7	95.3	94.6	73.6	95.7	59.9	74.4	93.9
Jun	86.9	98.8	82.8	95.6	99.5	100.0	80.2	98.5	71.6	85.4	97.0
Jul	91.4	97.4	88.5	99.0	100.8	97.6	88.2	103.6	77.1	90.4	97.9
Aug	91.7	93.4	89.1	100.5	100.7	93.5	88.4	103.0	78.2	91.3	97.3

Percentage change, latest year on previous year

2015	0.3 †	2.3 †	-0.5 †	2.1 †	3.0 †	4.4 †	-1.1 †	0.2 †	-2.4 †	0.3 †	2.7 †
2016	1.1	-2.3	0.3	3.6	6.3	3.8	0.3	0.1 †	2.2	-2.7	2.6
2017	1.8	0.7	2.3	-2.1	2.3	1.2	3.5	0.2	5.1	1.2	-0.9
2018	0.9	5.3	1.1	-1.2	-1.4	6.8	11.1	1.4	2.8	-0.8	1.1
2019	-1.2	-0.8	-1.7	1.0	-0.2	-0.8	-0.6	2.4	-5.2	-1.4	0.5

Percentage change, latest month on same month a year ago

2018 Jun	1.6 †	0.5 †	2.5 †	-4.3 †	0.8 †	0.2 †	10.8 †	2.0 †	4.8 †	0.5 †	-2.3 †
Jul	1.8	8.5	2.0	-2.3	-	10.6	15.7	2.9	1.9	0.8	2.3
Aug	1.6	10.2	1.5	-2.0	0.3	11.9	10.3	1.2	2.1	0.7	2.9
Sep	0.1	2.7	0.5	-3.8	-1.0	2.7	5.0	2.8	-0.5	-0.2	-0.4
Oct	-0.6	2.0	-0.5	-2.1	-2.5	1.5	7.4	2.2	-2.3	-0.4	0.1
Nov	-1.4	-0.2	-1.1	-3.6	-2.6	-0.1	6.0	2.9	-2.2	-3.7	-0.6
Dec	-1.1	23.8	-1.8	-5.4	-2.6	34.2	4.5	2.6	-3.8	-3.3	3.3
2019 Jan	-1.1	-1.2	-1.3	1.3	-1.5	-2.2	-0.1	5.4	-7.1	-0.3	1.4
Feb	-0.8	2.9	-0.1	-6.7	-1.4	2.8	-1.3	5.6	-6.1	1.8	-2.2
Mar	1.1	10.9	1.8	-8.1	-0.6	11.9	0.5	11.1	-4.9	2.0	-0.7
Apr	-2.4	-4.8	-2.6	-1.3	0.6	-5.8	-1.8	4.1	-9.8	-	-2.2
May	-0.2	0.8	-1.4	6.8	1.1	1.4	3.3	0.4	-4.1	-0.8	4.6
Jun	-1.3	-1.2	-2.4	6.5	-1.7	-0.2	-2.7	-0.3	-4.0	-2.3	2.5
Jul	-1.9	-7.1	-1.8	0.7	-0.9	-7.4	-2.5	3.2	-4.7	-3.2	-1.8
Aug	-2.3	-6.7	-2.5	0.2	-0.2	-7.4	-1.3	0.6	-4.5	-3.1	-2.1
Sep	-2.1	3.7	-3.4	0.1	0.5	5.0	-0.9	-	-5.5	-3.6	0.8
Oct	-0.8	-2.8	-1.6	5.6	-	-3.1	3.1	0.9	-2.5	-3.1	2.0
Nov	-1.1	-0.4	-2.4	5.7	0.8	-0.7	-	-0.4	-4.6	-2.0	2.7
Dec	-1.5	-2.6	-2.5	3.4	1.2	-2.7	-3.0	-1.1	-4.8	-1.6	1.3
2020 Jan	-2.2	-0.3	-3.0	-1.9	2.0	0.7	-4.6	-1.3	-4.4	-2.9	-1.0
Feb	-2.2	-2.6	-2.9	0.6	0.6	-2.0	-5.3	1.2	-4.5	-4.8	0.2
Mar	-8.1	-12.1	-10.1	-0.3	2.5	-12.5	-12.2	-2.8	-16.0	-9.2	-3.8
Apr	-23.7	-7.9	-29.9	-9.8	-5.0	-2.9	-34.1	-9.3	-40.6	-33.4	-6.3
May	-20.3	-8.1	-25.1	-10.3	-5.5	-5.9	-28.8	-4.5	-38.3	-24.4	-7.6
Jun	-12.1	0.9	-15.7	-7.2	-1.0	2.0	-18.7	-2.8	-25.3	-13.0	-3.7
Jul	-7.4	0.1	-10.1	-1.6	0.8	0.2	-10.1	-	-18.7	-7.4	-1.8
Aug	-6.4	-5.0	-8.4	0.8	0.1	-4.6	-9.7	2.6	-17.3	-6.4	-2.2

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

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

IOP5 Output of the Production Industries
Chained volume indices of gross value added[1]

Seasonally adjusted 2018 = 100

	Broad industry groups						Main industrial groupings				
	Production industries	Mining and quarrying	Manufacturing	Electricity, gas, steam and air conditioning	Water supply, sewerage and waste management	Oil and gas extraction	Consumer durables	Consumer non-durables	Capital goods	Intermediate goods	Energy
Section	B+C+D+E	B	C	D	E	06	MIG-CD	MIG-CND	MIG-CAG	MIG-IG	MIG-NRG
Latest weight	1 000.0	80.9	725.1	102.2	91.8	68.2	67.9	199.0	278.7	231.6	213.2
	K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K24O	K24T
Percentage change, latest month on previous month											
2018 Jun	0.7 [†]	-0.5 [†]	0.5 [†]	1.2 [†]	2.5 [†]	-0.9 [†]	1.3 [†]	1.9 [†]	-1.3 [†]	1.3	1.0 [†]
Jul	0.3	5.8	-0.3	3.2	-1.2	7.1	-0.7	-1.2	-0.2	0.3 [†]	3.3
Aug	-0.3	0.6	-0.5	-0.3	-0.1	0.7	-1.4	-0.7	-0.6	-0.2	0.2
Sep	0.2	-4.4	0.8	-0.3	-0.7	-5.2	-0.3	1.3	0.6	0.5	-1.3
Oct	-0.9	0.6	-1.0	-1.0	-0.3	1.0	-0.6	-0.1	-2.2	-0.3	-0.6
Nov	-0.6	-1.3	-0.6	-	-0.7	-1.1	-0.7	0.9	-0.6	-2.3	-0.3
Dec	-0.1	-1.0	-	0.2	-	-0.6	1.2	-0.1	-0.1	0.2	-0.2
2019 Jan	0.5	-1.9	0.7	2.3	-0.8	-3.8	0.6	1.7	-1.0	1.8	0.5
Feb	0.4	2.3	0.7	-3.2	0.3	2.9	0.8	0.5	0.5	1.1	-1.2
Mar	1.5	4.5	1.5	0.8	0.2	5.5	2.0	4.2	1.1	-0.4	2.1
Apr	-3.1	-6.2	-4.0	2.9	-0.1	-7.0	-2.1	-4.8	-5.0	-2.4	-1.0
May	1.2	3.0	1.0	1.0	2.0	3.8	3.2	-2.7	5.0	-0.4	2.0
Jun	-0.5	-2.4	-0.5	0.8	-0.3	-2.5	-4.5	1.1	-1.2	-0.3	-1.0
Jul	-0.2	-0.5	0.2	-2.5	-0.5	-0.7	-0.6	2.3	-0.9	-0.6	-1.1
Aug	-0.8	1.0	-1.1	-0.8	0.7	0.7	-0.2	-3.2	-0.4	-0.1	-0.2
Sep	0.4	6.4	-0.1	-0.4	-	7.5	0.1	0.7	-0.4	-	1.7
Oct	0.5	-5.8	0.8	4.4	-0.8	-6.8	3.4	0.7	0.9	0.2	0.6
Nov	-1.0	1.1	-1.5	0.1	0.1	1.4	-3.7	-0.4	-2.7	-1.1	0.4
Dec	-0.5	-3.1	-	-2.0	0.4	-2.6	-1.8	-0.8	-0.4	0.6	-1.5
2020 Jan	-0.1	0.3	0.2	-2.9	-	-0.4	-1.1	1.5	-0.6	0.5	-1.8
Feb	0.4	-0.1	0.8	-0.7	-1.0	0.1	0.1	3.0	0.3	-0.9	-0.1
Mar	-4.6	-5.7	-6.0	-0.1	2.0	-5.8	-5.4	0.1	-11.1	-5.0	-1.9
Apr	-19.6	-1.7	-25.1	-7.0	-7.4	3.2	-26.6	-11.1	-32.8	-28.5	-3.5
May	5.7	2.7	7.8	0.5	1.4	0.6	11.6	2.4	9.2	13.0	0.6
Jun	9.8	7.2	12.0	4.3	4.4	5.7	8.9	3.0	19.6	14.8	3.3
Jul	5.2	-1.4	6.9	3.5	1.3	-2.3	10.0	5.2	7.8	5.9	0.9
Aug	0.3	-4.1	0.7	1.6	-0.1	-4.2	0.3	-0.6	1.4	1.0	-0.6
Percentage change, latest 3 months on same 3 months a year ago[2]											
2018 Jun	1.8 [†]	5.0	2.2 [†]	-2.0 [†]	0.8 [†]	6.4 [†]	13.8 [†]	1.0 [†]	5.9 [†]	-0.8 [†]	0.1 [†]
Jul	1.5	4.7 [†]	2.2	-3.8	-0.2	5.7	13.5	2.0	4.2	0.1	-0.6
Aug	1.7	6.4	2.0	-2.9	0.4	7.5	12.2	2.0	3.0	0.7	0.9
Sep	1.2	7.1	1.3	-2.7	-0.3	8.3	10.2	2.3	1.2	0.4	1.6
Oct	0.4	4.9	0.5	-2.7	-1.1	5.2	7.5	2.1	-0.3	-	0.8
Nov	-0.6	1.5	-0.3	-3.2	-2.0	1.3	6.1	2.6	-1.7	-1.5	-0.3
Dec	-1.0	7.4	-1.1	-3.7	-2.6	9.8	6.0	2.6	-2.8	-2.5	0.9
2019 Jan	-1.2	6.3	-1.4	-2.6	-2.2	8.5	3.4	3.6	-4.4	-2.5	1.3
Feb	-1.0	7.5	-1.0	-3.7	-1.8	9.7	0.9	4.5	-5.7	-0.7	0.8
Mar	-0.2	4.1	0.1	-4.7	-1.2	4.1	-0.3	7.4	-6.0	1.1	-0.5
Apr	-0.7	2.8	-0.3	-5.4	-0.5	2.7	-0.9	6.9	-6.9	1.3	-1.7
May	-0.5	2.1	-0.7	-1.1	0.4	2.2	0.6	5.2	-6.3	0.4	0.5
Jun	-1.3	-1.7	-2.1	3.9	-	-1.6	-0.4	1.4	-6.0	-1.1	1.6
Jul	-1.1	-2.5	-1.9	4.6	-0.5	-2.2	-0.6	1.1	-4.3	-2.1	1.7
Aug	-1.8	-5.1	-2.2	2.4	-0.9	-5.1	-2.2	1.1	-4.4	-2.9	-0.5
Sep	-2.1	-3.4	-2.6	0.3	-0.2	-3.4	-1.6	1.3	-4.9	-3.3	-1.0
Oct	-1.7	-2.0	-2.5	1.9	0.1	-1.9	0.3	0.5	-4.2	-3.3	0.2
Nov	-1.3	0.2	-2.5	3.8	0.4	0.4	0.7	0.2	-4.2	-2.9	1.8
Dec	-1.2	-1.9	-2.2	4.9	0.7	-2.2	-	-0.2	-4.0	-2.2	2.0
2020 Jan	-1.6	-1.1	-2.6	2.3	1.3	-0.9	-2.5	-1.0	-4.6	-2.1	1.0
Feb	-2.0	-1.8	-2.8	0.7	1.3	-1.4	-4.3	-0.4	-4.6	-3.1	0.2
Mar	-4.2	-5.1	-5.3	-0.5	1.7	-4.8	-7.4	-1.0	-8.3	-5.6	-1.6
Apr	-11.3	-7.6	-14.1	-3.2	-0.6	-6.0	-17.1	-3.6	-20.1	-15.6	-3.4
May	-17.3	-9.4	-21.5	-6.9	-2.7	-7.2	-25.0	-5.5	-31.5	-22.2	-5.9
Jun	-18.7	-5.0	-23.6	-9.1	-3.8	-2.3	-27.3	-5.6	-34.7	-23.7	-5.9
Jul	-13.3	-2.4	-17.0	-6.4	-1.9	-1.3	-19.4	-2.4	-27.5	-15.0	-4.4
Aug	-8.6	-1.3	-11.4	-2.7	-0.1	-0.8	-12.8	-0.1	-20.5	-9.0	-2.6

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.

	Broad industry groups						Main industrial groupings				
	Production industries	Mining and quarrying	Manufacturing	Electricity, gas, steam and air conditioning	Water supply, sewerage and waste management	Oil and gas extraction	Consumer durables	Consumer non-durables	Capital goods	Intermediate goods	Energy
Section	B+C+D+E	B	C	D	E	06	MIG-CD	MIG-CND	MIG-CAG	MIG-IG	MIG-NRG
Latest weight	1 000.0	80.9	725.1	102.2	91.8	68.2	67.9	199.0	278.7	231.6	213.2
	K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K24O	K24T

Percentage change, latest 3 months on previous 3 months[2]

2018 Jun	-0.3 †	4.3 †	-0.1 †	-5.2 †	0.2 †	4.6 †	0.2 †	2.3 †	-1.4 †	-0.5	-1.0 †
Jul	-0.3	3.7	0.1	-7.0	1.7	3.6	-1.1	2.5	-2.1	0.8 †	-2.3
Aug	0.3	4.7	0.1	-2.9	2.2	4.8	-0.8	1.9	-2.4	1.6	0.3
Sep	0.3	3.3	-0.1	1.3	0.6	3.8	-1.5	0.2	-1.7	1.4	2.1
Oct	-0.1	1.4	-0.3	1.6	-0.7	1.7	-1.8	-0.1	-1.5	0.7	1.7
Nov	-0.7	-2.2	-0.5	-0.2	-1.6	-2.3	-2.1	0.6	-1.5	-0.5	-0.6
Dec	-1.3	-3.3	-1.1	-1.2	-1.2	-3.2	-1.3	1.0	-2.4	-1.5	-1.6
2019 Jan	-1.0	-3.7	-0.9	0.2	-1.4	-3.8	-0.2	1.7	-2.3	-1.6	-1.1
Feb	-0.3	-2.2	-0.1	0.4	-1.0	-2.6	1.2	1.7	-1.8	0.2	-0.7
Mar	1.0	-0.1	1.4	0.6	-0.7	-0.9	2.4	3.6	-0.7	1.8	0.1
Apr	0.7	1.4	0.8	-0.1	-0.1	1.3	2.2	2.7	-1.2	1.3	0.1
May	0.3	2.0	-0.2	1.6	0.7	2.4	2.4	0.9	-0.7	-0.8	1.5
Jun	-1.4	-1.6	-2.3	3.3	1.4	-1.1	0.1	-3.4	-1.4	-2.7	1.1
Jul	-0.8	-1.6	-1.5	2.9	1.6	-1.2	-0.8	-3.1	0.7	-2.5	1.1
Aug	-1.1	-2.6	-1.4	0.5	0.9	-2.6	-3.6	-1.9	-0.4	-1.8	-0.7
Sep	-0.5	1.6	-0.6	-2.2	0.4	1.8	-2.7	0.2	-0.5	-0.9	-0.6
Oct	-0.6	2.0	-1.0	-1.0	-	1.9	-0.9	-0.7	-1.4	-0.5	0.1
Nov	-0.2	3.1	-0.8	1.2	-0.2	3.3	0.8	-0.4	-1.3	-0.5	1.8
Dec	-0.4	-1.8	-0.7	3.2	-0.4	-2.0	0.3	-0.5	-1.5	-0.4	1.4
2020 Jan	-0.9	-2.8	-1.0	0.6	-0.2	-2.8	-3.0	0.2	-2.7	-0.4	-0.3
Feb	-0.9	-4.2	-0.4	-2.6	-0.1	-4.3	-3.8	1.1	-2.2	-0.1	-2.3
Mar	-2.1	-3.3	-1.8	-4.6	0.3	-3.6	-5.2	2.8	-5.2	-1.7	-3.4
Apr	-9.2	-5.2	-11.1	-5.6	-2.0	-3.9	-13.1	-	-17.3	-12.7	-4.2
May	-15.4	-5.8	-19.5	-6.0	-3.2	-3.7	-19.7	-4.3	-28.7	-20.4	-4.7
Jun	-16.3	-1.5	-21.1	-5.6	-4.2	1.5	-21.4	-7.8	-29.7	-21.3	-3.4
Jul	-3.0	3.8	-4.8	-0.4	0.3	3.7	-3.5	-1.9	-8.6	-1.8	-
Aug	9.3	6.0	11.3	5.0	3.6	4.1	12.0	3.7	15.6	15.0	2.8

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.

Seasonally adjusted 2018 = 100

	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	CB	CC	CD	CE	CF
Latest weight	113.5	26.0	47.2	10.9	42.9	48.6
	K22B	K22P	K22T	K22X	K22Z	K239
2015	96.2 †	104.4 †	101.6 †	104.2 †	103.0 †	96.5 †
2016	96.4	102.2	100.3	103.2	96.6	99.3
2017	98.2	101.8	101.1	104.3	98.7	97.9
2018	100.0	100.0	100.0	100.0	100.0	100.0
2019	101.4	100.0	100.9	102.8	99.3	106.8
2019 Q2	100.5 †	99.8 †	100.6 †	103.0 †	99.0 †	105.9 †
Q3	100.8	100.5	100.2	95.9	96.6	105.2
Q4	100.9	99.2	100.4	104.5	96.5	102.9
2020 Q1	100.4	90.7	96.6	100.0	101.6	117.4
Q2	89.8	59.7	74.7	71.9	94.6	130.4
2019 Jun	98.8 †	99.2 †	99.7 †	96.6 †	98.9 †	109.3 †
Jul	99.7	101.4	98.7	100.3	96.3	116.2
Aug	101.0	99.0	100.7	96.6	96.3	100.3
Sep	101.7	101.2	101.0	90.8	97.2	99.3
Oct	101.9	102.3	102.2	104.3	97.7	102.5
Nov	100.7	99.0	100.2	102.4	93.7	104.7
Dec	100.0	96.3	98.8	106.9	98.0	101.6
2020 Jan	100.4	93.9	98.7	101.6	101.7	107.4
Feb	101.3	96.6	97.2	102.6	99.4	117.3
Mar	99.5	81.5	94.0	95.8	103.8	127.4
Apr	87.7	40.4	67.7	73.6	94.0	132.0
May	89.3	58.8	73.4	70.1	95.3	130.0
Jun	92.5	80.0	82.9	72.1	94.4	129.1
Jul	97.2	93.3	91.4	74.5	99.2	132.3
Aug	97.5	92.2	90.0	73.0	100.1	129.2
Percentage change, latest year on previous year						
2015	- †	-0.7 †	0.6 †	1.8 †	4.4 †	-0.4 †
2016	0.2	-2.2	-1.2	-1.0	-6.2	2.9
2017	1.9	-0.4	0.8	1.1	2.1	-1.4
2018	1.8	-1.8	-1.1	-4.1	1.4	2.1
2019	1.4	-	0.9	2.8	-0.7	6.8
Percentage change, latest month on same month a year ago						
2018 Jun	1.7 †	0.3 †	-0.2 †	-6.3 †	0.6 †	2.1 †
Jul	2.8	1.7	1.8	2.2	2.8	0.7
Aug	3.2	0.7	-2.2	5.1	-2.3	0.4
Sep	3.4	-0.1	-0.8	-0.9	2.0	4.2
Oct	3.3	-1.4	-0.4	-2.5	5.9	1.6
Nov	1.7	-2.5	1.3	0.9	6.5	5.0
Dec	2.8	-3.8	-1.0	0.2	8.7	5.3
2019 Jan	4.3	-0.9	0.9	13.3	7.7	12.6
Feb	5.1	2.1	2.6	17.8	7.6	12.0
Mar	6.1	6.3	6.1	8.6	8.9	25.7
Apr	3.2	2.8	4.7	6.4	0.6	8.5
May	0.5	-2.1	-1.4	10.4	0.4	3.9
Jun	-2.2	-2.0	-0.3	-4.6	-1.1	6.6
Jul	-1.5	-0.4	-3.1	0.9	-5.1	20.9
Aug	0.1	-3.0	2.5	-8.7	-0.9	1.0
Sep	1.1	-1.6	0.7	-14.0	-5.5	-2.5
Oct	0.9	2.7	2.4	1.6	-4.3	-
Nov	0.1	-0.4	-2.1	0.1	-9.2	-0.3
Dec	-0.9	-3.3	-1.3	5.1	-5.9	-3.4
2020 Jan	-1.9	-5.2	-2.0	-5.7	-2.9	-2.3
Feb	-1.6	-3.1	-5.2	-6.0	-5.9	7.1
Mar	-4.7	-20.2	-10.1	-9.3	-1.5	5.9
Apr	-14.1	-60.2	-34.2	-30.1	-4.5	23.4
May	-11.3	-40.6	-26.1	-34.7	-4.2	28.0
Jun	-6.4	-19.3	-16.9	-25.4	-4.6	18.0
Jul	-2.6	-8.0	-7.4	-25.7	3.1	13.8
Aug	-3.5	-6.9	-10.6	-24.4	3.9	28.8

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

continued Chained volume indices of gross value added[1]

	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
Latest weight	51.4	75.4	51.2	18.1	60.7	110.5	68.7
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z
2015	100.1 †	103.1 †	84.7 †	106.9 †	92.3 †	93.5 †	88.7 †
2016	102.5	99.8	83.9	102.3	91.6	97.6	92.9
2017	101.7	100.4	87.8	105.3	97.7	100.7	98.7
2018	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2019	97.2	97.7	98.3	98.8	92.7	94.6	95.9
2019 Q2	97.3 †	96.9 †	99.8 †	100.6 †	93.6 †	93.1 †	97.7 †
Q3	96.3	97.2	96.2	98.2	91.5	96.4	95.0
Q4	96.0	96.9	97.0	96.4	89.6	93.3	95.2
2020 Q1	94.0	95.3	92.4	96.2	81.4	87.6	93.5
Q2	66.9	72.7	82.1	77.5	56.8	46.3	70.9
2019 Jun	97.2 †	96.2 †	98.0 †	100.6 †	93.3 †	97.3 †	95.9 †
Jul	97.0	97.9	96.4	99.4	91.8	97.3	94.1
Aug	96.0	96.9	95.4	97.7	91.9	96.6	95.4
Sep	96.0	97.0	96.6	97.4	90.7	95.2	95.4
Oct	95.8	96.2	101.1	95.6	90.6	95.5	95.0
Nov	95.2	96.7	96.0	95.2	90.0	91.6	95.8
Dec	97.0	98.0	93.9	98.2	88.4	92.8	94.8
2020 Jan	97.4	97.4	93.0	98.2	85.7	92.5	95.4
Feb	96.9	97.5	92.5	97.0	85.0	93.7	95.6
Mar	87.7	91.0	91.6	93.4	73.5	76.4	89.6
Apr	51.5	65.5	77.3	68.2	46.1	39.2	62.9
May	67.3	71.5	82.3	77.3	56.0	40.8	71.2
Jun	81.9	81.1	86.7	87.1	68.5	59.1	78.7
Jul	86.3	82.6	89.4	94.2	72.1	67.9	88.1
Aug	88.1	83.8	88.2	98.5	72.9	69.5	91.2

Percentage change, latest year on previous year

2015	1.3 †	-0.5 †	-2.8 †	- †	-12.9 †	4.5 †	-1.2 †
2016	2.3	-3.2	-0.9	-4.3	-0.8	4.3	4.7
2017	-0.8	0.6	4.6	2.9	6.7	3.2	6.3
2018	-1.7	-0.4	13.9	-5.1	2.3	-0.7	1.3
2019	-2.8	-2.3	-1.7	-1.2	-7.3	-5.4	-4.1

Percentage change, latest month on same month a year ago

2018 Jun	2.4 †	1.3 †	12.0 †	-9.3 †	7.1 †	3.2 †	2.7 †
Jul	0.8	3.4	19.1	-8.4	2.0	-3.6	0.6
Aug	-0.4	2.1	13.4	-1.6	1.4	-0.5	-0.2
Sep	-0.5	-	5.4	-7.7	-3.1	-1.1	-0.4
Oct	-0.3	-3.8	8.7	-3.5	-3.9	-7.6	1.8
Nov	-2.7	-10.9	6.6	-4.7	-5.3	-4.0	-0.5
Dec	-1.9	-11.2	5.5	-9.5	-6.3	-4.4	-4.8
2019 Jan	-1.1	-3.7	-0.7	-4.5	-9.9	-8.2	-6.9
Feb	1.1	-3.5	-2.3	-2.2	-5.3	-7.8	-4.6
Mar	1.2	-3.5	-0.3	3.0	-7.8	-4.1	-5.2
Apr	-0.5	-4.3	-3.8	2.3	-7.9	-17.2	-1.0
May	-2.7	-0.6	2.4	0.2	-5.9	-6.7	-1.7
Jun	-5.2	-4.4	-3.2	3.2	-6.2	-1.2	-5.7
Jul	-4.3	-2.9	-4.0	0.5	-7.5	-2.5	-5.5
Aug	-4.8	-4.4	-4.4	-3.0	-6.8	-2.6	-2.7
Sep	-5.2	-3.5	-2.0	-2.2	-7.4	-4.5	-6.3
Oct	-4.9	-3.5	3.1	-6.3	-6.8	-0.8	-4.3
Nov	-4.8	4.2	-0.8	-5.3	-7.3	-4.3	-3.6
Dec	-1.5	3.3	-4.7	-0.2	-9.1	-3.7	-1.9
2020 Jan	-1.7	-1.7	-5.6	-0.6	-10.9	-2.8	1.1
Feb	-2.3	-3.2	-7.3	-2.7	-11.5	-1.5	-
Mar	-12.1	-8.3	-9.9	-7.6	-23.2	-21.0	-7.5
Apr	-47.3	-32.4	-21.7	-32.7	-51.1	-54.3	-36.4
May	-30.5	-26.8	-19.9	-22.7	-40.0	-57.7	-27.5
Jun	-15.7	-15.7	-11.5	-13.5	-26.6	-39.3	-18.0
Jul	-11.1	-15.6	-7.3	-5.3	-21.5	-30.2	-6.3
Aug	-8.2	-13.5	-7.6	0.8	-20.7	-28.0	-4.4

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

Seasonally adjusted 2018 = 100

	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	CB	CC	CD	CE	CF
Latest weight	113.5	26.0	47.2	10.9	42.9	48.6
	K22B	K22P	K22T	K22X	K22Z	K239

Percentage change, latest month on previous month

2018	Jun	0.8 ᵀ	0.2	-0.7 ᵀ	4.2 ᵀ	1.1 ᵀ	4.9 ᵀ
	Jul	0.3	0.5 ᵀ	1.8	-1.8	1.4	-6.4
	Aug	-0.4	0.3	-3.6	6.4	-4.2	3.3
	Sep	-0.3	0.7	2.2	-0.2	5.8	2.6
	Oct	0.4	-3.1	-0.6	-2.7	-0.7	0.6
	Nov	-0.4	-0.2	2.6	-0.5	1.1	2.5
	Dec	0.4	0.2	-2.2	-0.6	0.9	0.2
2019	Jan	1.4	-0.6	0.7	6.0	0.6	4.5
	Feb	0.6	0.7	1.7	1.3	0.8	-0.4
	Mar	1.4	2.5	2.2	-3.2	-0.2	9.9
	Apr	-2.3	-0.9	-1.7	-0.4	-6.6	-11.1
	May	-1.3	-2.3	-3.5	2.0	1.0	-5.0
	Jun	-1.9	0.2	0.5	-9.9	-0.5	7.7
	Jul	1.0	2.2	-1.0	3.8	-2.7	6.3
	Aug	1.3	-2.3	2.0	-3.7	-	-13.7
	Sep	0.6	2.2	0.3	-6.0	0.9	-1.0
	Oct	0.2	1.1	1.2	14.9	0.5	3.2
	Nov	-1.2	-3.2	-2.0	-1.9	-4.0	2.2
	Dec	-0.7	-2.7	-1.4	4.3	4.5	-2.9
2020	Jan	0.4	-2.5	-	-4.9	3.8	5.7
	Feb	0.9	2.8	-1.6	1.0	-2.3	9.2
	Mar	-1.8	-15.6	-3.2	-6.6	4.4	8.6
	Apr	-11.9	-50.5	-28.0	-23.2	-9.4	3.6
	May	1.9	45.7	8.4	-4.8	1.4	-1.5
	Jun	3.5	36.1	12.9	2.9	-0.9	-0.8
	Jul	5.1	16.6	10.3	3.3	5.1	2.5
	Aug	0.4	-1.2	-1.5	-2.0	0.9	-2.4

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

2018	Jun	1.4 ᵀ	-1.3 ᵀ	-1.3 ᵀ	-8.0 ᵀ	-0.7 ᵀ	0.5 ᵀ
	Jul	2.3	0.3	0.4	-5.0	1.0	0.8
	Aug	2.6	0.9	-0.2	0.1	0.3	1.1
	Sep	3.1	0.8	-0.4	2.1	0.8	1.8
	Oct	3.3	-0.3	-1.1	0.5	1.8	2.1
	Nov	2.8	-1.3	-	-0.8	4.8	3.6
	Dec	2.6	-2.6	-	-0.5	7.1	4.0
2019	Jan	2.9	-2.4	0.4	4.6	7.7	7.6
	Feb	4.1	-0.9	0.8	10.1	8.0	9.9
	Mar	5.2	2.4	3.2	13.1	8.1	16.7
	Apr	4.8	3.7	4.5	10.8	5.7	15.3
	May	3.2	2.3	3.1	8.4	3.3	12.6
	Jun	0.5	-0.5	1.0	3.9	-	6.3
	Jul	-1.1	-1.5	-1.6	2.1	-2.0	10.3
	Aug	-1.2	-1.8	-0.3	-4.2	-2.4	9.3
	Sep	-0.1	-1.7	-	-7.4	-3.9	6.2
	Oct	0.7	-0.7	1.9	-7.1	-3.6	-0.5
	Nov	0.7	0.2	0.3	-4.2	-6.3	-0.9
	Dec	-	-0.3	-0.4	2.3	-6.5	-1.3
2020	Jan	-0.9	-3.0	-1.8	-0.3	-6.0	-2.0
	Feb	-1.5	-3.9	-2.8	-2.4	-4.9	0.5
	Mar	-2.7	-9.6	-5.8	-7.0	-3.4	3.6
	Apr	-6.8	-27.9	-16.5	-15.0	-4.0	11.9
	May	-10.0	-40.3	-23.4	-24.7	-3.4	18.4
	Jun	-10.6	-40.2	-25.8	-30.2	-4.4	23.0
	Jul	-6.8	-22.5	-16.8	-28.8	-1.9	19.7
	Aug	-4.1	-11.4	-11.7	-25.2	0.8	19.9

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

IOP5 Output of the Production Industries
Chained volume indices of gross value added[1]

Seasonally adjusted 2018 = 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
Latest weight	51.4	75.4	51.2	18.1	60.7	110.5	68.7
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z

Percentage change, latest month on previous month

		CG	CH	CI	CJ	CK	CL	CM
2018	Jun	3.1 †	2.4 †	0.8 †	-2.3 †	0.2 †	-4.5 †	1.9 †
	Jul	-1.1	0.1	-0.7	1.5	-0.1	1.2	-2.2
	Aug	-0.6	0.6	-0.7	1.8	-0.6	-0.5	-1.6
	Sep	0.4	-0.8	-1.2	-1.1	-0.7	0.5	3.9
	Oct	-0.5	-0.9	-0.5	2.6	-0.8	-3.3	-2.5
	Nov	-0.7	-6.9	-1.2	-1.5	-0.1	-0.6	0.1
	Dec	-1.6	2.2	1.7	-2.1	0.1	0.6	-2.7
2019	Jan	0.6	4.5	-	0.4	-1.0	-1.2	-2.4
	Feb	0.2	1.7	1.3	0.9	-0.2	-	1.4
	Mar	0.7	-1.5	1.9	1.5	-0.2	1.7	1.2
	Apr	-2.0	-2.3	-2.9	0.2	-1.7	-11.5	2.2
	May	-1.0	0.9	4.0	-1.3	-0.9	12.4	-0.7
	Jun	0.4	-1.6	-4.7	0.6	-0.1	1.0	-2.4
	Jul	-0.2	1.7	-1.6	-1.2	-1.6	-0.1	-1.9
	Aug	-1.1	-1.0	-1.0	-1.7	0.1	-0.6	1.4
	Sep	-	-	1.3	-0.4	-1.3	-1.5	0.1
	Oct	-0.2	-0.8	4.6	-1.8	-0.1	0.3	-0.5
	Nov	-0.6	0.5	-5.0	-0.4	-0.6	-4.1	0.9
	Dec	1.9	1.3	-2.2	3.2	-1.8	1.3	-1.0
2020	Jan	0.4	-0.6	-1.0	-	-3.0	-0.3	0.6
	Feb	-0.4	0.1	-0.5	-1.3	-0.9	1.3	0.2
	Mar	-9.5	-6.7	-1.0	-3.6	-13.5	-18.4	-6.3
	Apr	-41.3	-28.0	-15.6	-27.0	-37.3	-48.8	-29.8
	May	30.6	9.2	6.4	13.3	21.4	4.2	13.2
	Jun	21.7	13.3	5.3	12.6	22.3	44.8	10.5
	Jul	5.4	1.8	3.1	8.2	5.3	15.0	12.0
	Aug	2.1	1.5	-1.3	4.6	1.1	2.4	3.5

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

		CG	CH	CI	CJ	CK	CL	CM
2018	Jun	-1.7 †	1.4 †	17.3 †	-5.9 †	6.6 †	1.8 †	4.5 †
	Jul	-	1.5	16.3	-6.9	3.9	0.7	2.7
	Aug	0.9	2.3	14.8	-6.5	3.4	-0.4	1.0
	Sep	-0.1	1.8	12.4	-6.0	-	-1.7	-
	Oct	-0.4	-0.6	9.1	-4.3	-1.9	-3.1	0.4
	Nov	-1.2	-5.0	6.9	-5.3	-4.1	-4.3	0.3
	Dec	-1.7	-8.7	6.9	-5.9	-5.1	-5.4	-1.2
2019	Jan	-1.9	-8.7	3.7	-6.3	-7.2	-5.6	-4.1
	Feb	-0.6	-6.2	0.7	-5.5	-7.2	-6.8	-5.4
	Mar	0.4	-3.6	-1.1	-1.3	-7.7	-6.7	-5.6
	Apr	0.6	-3.7	-2.2	1.0	-7.0	-9.7	-3.6
	May	-0.7	-2.8	-0.6	1.8	-7.2	-9.4	-2.6
	Jun	-2.8	-3.1	-1.6	1.9	-6.7	-8.5	-2.8
	Jul	-4.1	-2.6	-1.6	1.3	-6.5	-3.5	-4.3
	Aug	-4.8	-3.9	-3.9	0.2	-6.8	-2.1	-4.7
	Sep	-4.8	-3.6	-3.5	-1.6	-7.3	-3.2	-4.9
	Oct	-5.0	-3.8	-1.1	-3.8	-7.0	-2.6	-4.5
	Nov	-5.0	-1.1	0.1	-4.6	-7.2	-3.2	-4.8
	Dec	-3.8	1.3	-0.8	-4.0	-7.7	-2.9	-3.3
2020	Jan	-2.7	1.9	-3.7	-2.1	-9.1	-3.6	-1.5
	Feb	-1.8	-0.6	-5.9	-1.2	-10.5	-2.7	-0.3
	Mar	-5.4	-4.4	-7.6	-3.7	-15.2	-8.5	-2.2
	Apr	-20.4	-14.4	-12.9	-14.4	-28.4	-24.6	-14.9
	May	-29.8	-22.4	-17.2	-21.0	-38.0	-43.9	-23.9
	Jun	-31.2	-25.0	-17.8	-23.0	-39.3	-50.2	-27.4
	Jul	-19.1	-19.4	-13.1	-13.8	-29.4	-42.3	-17.4
	Aug	-11.7	-15.0	-8.8	-6.0	-23.0	-32.5	-9.6

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

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

	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	CB	CC	CD	CE	CF
Latest weight	113.5	26.0	47.2	10.9	42.9	48.6
	K22B	K22P	K22T	K22X	K22Z	K239

Percentage change, latest 3 months on previous 3 months

2018	Jun	1.9	2.4 †	0.2 †	4.3 †	1.7 †	2.7 †
	Jul	2.4 †	4.0	1.9	3.1	2.6	1.5
	Aug	1.9	3.2	0.8	4.4	1.7	2.0
	Sep	0.9	2.0	0.5	4.5	1.5	-0.6
	Oct	-	0.1	-1.4	5.5	0.5	2.4
	Nov	-0.3	-1.1	0.8	1.4	3.1	3.8
	Dec	-0.1	-2.6	0.6	-1.3	2.6	5.2
2019	Jan	0.4	-2.1	1.6	-0.8	3.3	5.5
	Feb	1.4	-1.1	0.2	2.6	2.1	5.0
	Mar	2.4	0.8	1.9	5.2	2.1	8.7
	Apr	1.8	1.7	2.3	2.7	-0.8	5.2
	May	0.3	1.4	1.2	-0.2	-3.6	1.3
	Jun	-2.7	-0.5	-1.9	-4.2	-6.0	-6.5
	Jul	-3.3	-1.2	-4.0	-5.0	-4.8	-2.9
	Aug	-2.5	-1.0	-2.5	-7.7	-3.9	-0.9
	Sep	0.3	0.7	-0.5	-6.9	-2.4	-0.7
	Oct	1.8	1.0	2.1	-4.1	-1.2	-7.7
	Nov	1.6	1.0	1.4	1.4	-1.0	-5.9
	Dec	0.1	-1.3	0.2	9.0	-0.1	-2.2
2020	Jan	-1.2	-4.4	-2.1	6.6	0.8	3.9
	Feb	-0.8	-5.2	-2.9	4.5	3.6	6.5
	Mar	-0.4	-8.6	-3.7	-4.3	5.4	14.0
	Apr	-4.2	-24.5	-13.0	-12.5	1.3	20.1
	May	-8.4	-37.0	-20.2	-23.0	-2.0	19.3
	Jun	-10.6	-34.1	-22.7	-28.1	-6.9	11.1
	Jul	-3.3	6.2	-4.3	-20.3	-2.8	3.9
	Aug	3.9	46.9	12.4	-8.3	0.2	0.3

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

IOP5
continued
Output of the Production Industries
Chained volume indices of gross value added[1]

Seasonally adjusted 2018 = 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
Latest weight	51.4	75.4	51.2	18.1	60.7	110.5	68.7
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z

Percentage change, latest 3 months on previous 3 months

2018	Jun	1.2 [T]	-3.2 [T]	0.3 [T]	-2.4 [T]	-3.5 [T]	-0.9 [T]	-0.7 [T]
	Jul	2.8	-2.8	-1.6	-1.0	-3.1	-2.0	-0.4
	Aug	2.8	0.1	-1.2	-	-2.6	-3.3	-0.9
	Sep	1.0	0.8	-1.8	1.0	-1.7	-2.2	-0.7
	Oct	-0.2	0.6	-1.9	2.1	-1.4	-2.1	-0.7
	Nov	-0.9	-3.2	-2.6	1.7	-1.7	-1.9	0.4
	Dec	-1.4	-5.1	-1.8	0.6	-1.5	-3.4	-1.4
2019	Jan	-1.7	-4.9	-0.9	-1.5	-1.1	-2.7	-2.9
	Feb	-1.8	0.6	1.1	-1.8	-1.0	-1.7	-4.6
	Mar	-0.4	4.1	2.3	-0.5	-1.2	-0.4	-2.9
	Apr	-0.2	3.5	2.2	1.4	-1.6	-3.3	0.3
	May	-0.7	-0.3	2.1	1.9	-2.1	-2.8	2.6
	Jun	-2.1	-2.7	-0.2	0.8	-2.5	-2.7	2.2
	Jul	-1.9	-1.7	-1.1	-0.7	-2.6	4.7	-1.1
	Aug	-1.5	-1.0	-4.4	-1.5	-2.2	4.4	-2.9
	Sep	-1.0	0.3	-3.7	-2.5	-2.3	3.5	-2.8
	Oct	-1.1	-0.6	-1.3	-3.1	-1.9	-1.2	-0.8
	Nov	-1.1	-0.4	1.4	-3.2	-2.1	-3.0	0.3
	Dec	-0.3	-0.3	0.9	-1.8	-2.0	-3.2	0.3
2020	Jan	0.6	0.7	-3.5	0.3	-3.3	-3.6	0.1
	Feb	1.5	1.1	-4.9	1.8	-4.5	-1.2	-0.1
	Mar	-2.1	-1.7	-4.8	-0.2	-9.2	-6.2	-1.7
	Apr	-18.4	-13.0	-7.6	-11.3	-22.6	-24.4	-13.3
	May	-29.1	-22.1	-10.1	-18.6	-32.2	-44.0	-21.8
	Jun	-28.8	-23.7	-11.1	-19.4	-30.2	-47.1	-24.2
	Jul	-0.3	-7.4	-1.2	-	-3.9	-19.9	-4.1
	Aug	24.1	8.5	5.2	17.1	21.6	25.6	15.3

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.