

Statistical bulletin

# Index of Production, UK: August 2022

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



Contact:  
David Beckett  
[indexofproduction@ons.gov.uk](mailto:indexofproduction@ons.gov.uk)  
+44 1633 456980

Release date:  
12 October 2022

Next release:  
11 November 2022

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# 1 . Main points

- Monthly production output fell by 1.8% between July and August 2022 and is now 0.9% below February 2020, which was the last month of “normal” trading conditions prior to the coronavirus (COVID-19) pandemic.
- The monthly fall in output resulted from a decline in three of the four production sectors, with mining and quarrying falling by 8.2%, manufacturing by 1.6% and electricity and gas by 0.6%; in contrast, water supply and sewerage remained flat at 0.0%.
- A fall of 10.6% in oil and gas extraction led the monthly decline in mining and quarrying output, which was due to maintenance of some of the larger terminals.
- Manufacturing saw 8 of its 13 sub-sectors negatively contributing to growth during August; most notably, manufacture of basic pharmaceutical products contributed negative 0.33 percentage points to the Index of Production (IoP) (with growth falling by 6.0%), manufacture of transport equipment contributed negative 0.26 percentage points (with growth falling by 3.0%), and manufacture of basic metals and metal products contributed negative 0.24 percentage points (with growth falling by 2.8%).
- Output remained below the February 2020 pre-coronavirus pandemic levels in two of the four production sectors, with monthly mining and quarrying output 16.6% below and manufacturing 2.0% below the February 2020 level; in contrast, water supply and sewerage was 12.3%, and electricity and gas 7.0% above the February 2020 level.
- Production output for the three months to August 2022 fell by 1.5%, compared with the three months to May 2022; there were falls in three of the four production sectors, 2.7% in mining and quarrying, 2.2% in manufacturing and 0.7% in water supply and sewerage; in contrast, electricity and gas rose by 3.5%.
- Further analysis of the effect on our monthly Index of Production estimate is available in our [Gross domestic product \(GDP\) monthly estimate, UK: August 2022](#) bulletin, published 12 October 2022.

## 2 . Index of Production (IoP) data

### [Index of Production time series](#)

Dataset DIOP | Released 12 October 2022

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 12 October 2022

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 12 October 2022

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

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

Dataset | Released 12 October 2022

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

### [Export proportions for manufacturing industries](#)

Dataset | Released 12 October 2022

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

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

## 3 . Measuring the data

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

Most 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 our [VAT turnover data in National Accounts: background and methodology article](#).

A comprehensive list of the IoP source data can be found in our [Gross domestic product \(GDP\) source catalogue \(XLS, 961KB\)](#).

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

This release gives data for August 2022 for the first time. It also incorporates revisions to monthly data from January 1997 to June 2022, as published in our [Quarterly national accounts bulletin](#) on 30 September 2022. July 2022 is also open to revision, taking on updated survey data and seasonal adjustment reviews.

A wide range of improvements to sources and methods have been incorporated into the accounts of the monthly GDP estimate as part of Blue Book 2022, as detailed in our [Impact of Blue Book 2022 changes on gross domestic product article](#). These include:

- measuring the insurance industry using Solvency II regulatory data for the first time
- completing the transition to the improved Financial Survey of Pension Schemes
- a package of better sources and methods that improve the international comparability of the UK gross domestic product (GDP) estimates
- estimating 2020 for the first time using the Supply and Use Tables (SUTs) framework, which looks at the supply of goods and services on a very detailed level, how they are used in the economy, and their associated prices

These improvements have previously been reflected in the [September quarterly national accounts estimate](#) whose data the monthly GDP estimate has now aligned with from January 1997 to June 2022.

## Coronavirus (COVID-19)

The Office for National Statistics' (ONS) MBS is fully online. Business owners can log on 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 affected than survey data.

Our latest data and analysis on the impact of the coronavirus pandemic on the UK economy and population are available on our [Coronavirus \(COVID-19\) data and analysis web page](#). This is the hub for all special coronavirus-related publications, including the fortnightly Business Insights and Conditions Survey (BICS).

## Economic statistics governance after EU exit

Following the UK's exit from the EU, new governance arrangements are being put in place. These will support the adoption and implementation of high-quality standards for UK economic statistics. These governance arrangements will promote international comparability and add to the credibility and independence of the UK's statistical system.

At the centre of this new governance framework, there will be the new National Statistician's Committee for Advice on Standards for Economic Statistics (NSCASE). NSCASE will support the UK by ensuring its processes for influencing and adopting international statistical standards are world leading. The advice that NSCASE provides to the National Statistician will span the full range of domains in economic statistics, including:

- the National Accounts
- fiscal statistics
- prices
- trade and the balance of payments
- labour market statistics

You can access [further information on the NSCASE on the UK Statistics Authority's website](#).

## 4 . Related links

### [International comparisons of GDP during the coronavirus \(COVID-19\) pandemic](#)

Article | Released 1 February 2021

The coronavirus (COVID-19) pandemic has led to record declines in gross domestic product (GDP) in advanced economies in 2020. International comparisons show that the UK has experienced the largest contraction in GDP volume among the G7 countries. However, international comparisons have also been complicated by how National Statistical Institutes (NSIs) record non-market output.

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

Article | Released 10 January 2020

Comparing measures of motor vehicle manufacturing compiled by the Office for National Statistics (ONS) and published in the Index of Production (IoP), with outputs from the Society of Motor Manufacturers and Traders (SMMT).

### [Comparing ONS' economic data with IHS Markit and CIPS Purchasing Managers' Index surveys](#)

Article | Released 21 October 2019

A comparison between official estimates of UK output and diffusion indices, looking at the level of correlation between Office for National Statistics data and IHS Markit and Chartered Institute of Procurement and Supply Purchasing Managers' Indices.

### [GDP monthly estimate, UK: August 2022](#)

Bulletin | Released 12 October 2022

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.

### [Producer price inflation, UK: August 2022](#)

Bulletin | Released 14 September 2022

Changes in the prices of goods bought and sold by UK manufacturers, including price indices of materials and fuels purchased (input prices) and factory gate prices (output prices).

### [UK manufacturers' sales by product: 2021 results](#)

Bulletin | Released 23 August 2022

Estimates for UK manufacturers' sales by product (ProdCom) for 2021, including 2020 final sales data.

### [Energy Trends and Prices statistical release](#)

Bulletin | Released 29 September 2022

The latest provisional monthly energy production, consumption and prices statistics produced by the Department for Business, Energy and Industrial Strategy, published on the gov.uk website. The data are used to measure the mining and quarrying, electricity and gas, and manufacture of coke and refined petroleum products sectors within this release.

## 5 . Cite this statistical bulletin

Office for National Statistics (ONS), released 12 October 2022, ONS website, statistical bulletin, [Index of Production, UK: August 2022](#)



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# IOP5 Output of the Production Industries

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

Seasonally adjusted 2019 = 100

Section	Broad industry groups					Main industrial groupings					
	Production industries	Mining and quarrying	Manufacturing	Electricity, gas, steam and air conditioning	Water supply, sewerage and waste management	Oil and gas extraction	Consumer durables	Consumer non-durables	Capital goods	Intermediate goods	Energy
	B+C+D+E	B	C	D	E	06	MIG-CD	MIG-CND	MIG-CAG	MIG-IG	MIG-NRG
Latest weight	1 000.0	78.4	724.6	109.7	87.4	65.8	66.6	193.8	269.3	243.0	220.1
	K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K24O	K24T
2017	94.6 <sup>†</sup>	92.1 <sup>†</sup>	94.8 <sup>†</sup>	90.6 <sup>†</sup>	99.2 <sup>†</sup>	92.6 <sup>†</sup>	98.5 <sup>†</sup>	88.6 <sup>†</sup>	101.6 <sup>†</sup>	92.5 <sup>†</sup>	92.7 <sup>†</sup>
2018	97.7	97.9	98.9	87.7	100.3	98.8	100.8	96.3	104.3	95.9	92.8
2019	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2020	101.3	96.8	100.1	109.1	104.8	96.5	96.0	103.8	95.9	103.1	102.1
2021	108.8	86.0	109.8	115.1	112.9	81.8	104.5	109.0	107.7	113.5	99.9
2021 Q2	109.6 <sup>†</sup>	75.0 <sup>†</sup>	111.0 <sup>†</sup>	123.7 <sup>†</sup>	111.8 <sup>†</sup>	68.8 <sup>†</sup>	103.6 <sup>†</sup>	108.4 <sup>†</sup>	108.9 <sup>†</sup>	116.4 <sup>†</sup>	100.4 <sup>†</sup>
Q3	108.9	90.0	109.8	113.1	112.9	86.0	106.5	109.1	107.5	112.9	100.6
Q4	107.6	88.0	108.9	107.4	115.2	83.8	104.8	113.7	103.9	110.7	97.0
2022 Q1	107.0	90.5	107.2	110.3	116.8	86.3	106.1	108.4	103.2	109.9	100.0
Q2	106.9	89.6	106.0	114.6	119.8	86.2	103.2	109.7	101.3	107.0	101.8
2021 Jun	108.8 <sup>†</sup>	71.3 <sup>†</sup>	110.6 <sup>†</sup>	120.2 <sup>†</sup>	113.6 <sup>†</sup>	63.9 <sup>†</sup>	106.6 <sup>†</sup>	107.0 <sup>†</sup>	108.1 <sup>†</sup>	115.9 <sup>†</sup>	97.9 <sup>†</sup>
Jul	109.0	83.7	110.0	116.6	114.3	78.4	107.5	109.3	106.6	114.0	100.3
Aug	109.4	95.5	110.0	112.4	112.9	92.4	106.3	109.3	108.0	112.7	102.1
Sep	108.3	90.9	109.5	110.2	111.5	87.2	105.6	108.7	107.8	112.0	99.5
Oct	107.5	90.2	108.9	105.3	114.7	86.8	103.8	112.5	104.2	111.6	96.6
Nov	107.6	88.3	108.8	108.4	115.0	83.7	105.8	111.5	104.7	111.3	97.4
Dec	107.7	85.5	109.0	108.6	115.8	81.0	104.9	117.0	102.9	109.2	97.1
2022 Jan	107.2	89.9	107.5	110.6	116.5	85.2	106.6	107.0	104.3	111.3	100.0
Feb	106.9	90.3	107.0	111.0	116.4	86.7	105.2	109.6	102.7	108.9	100.3
Mar	106.9	91.3	107.0	109.4	117.5	87.0	106.5	108.5	102.6	109.6	99.8
Apr	106.7	89.2	106.2	111.7	120.1	85.4	103.0	109.5	101.1	108.1	100.8
May	107.1	90.4	106.3	114.5	119.2	86.7	102.2	110.2	101.1	107.7	101.7
Jun	106.8	89.2	105.4	117.6	120.2	86.6	104.2	109.6	101.7	105.3	103.0
Jul	105.6	91.0	104.3	115.2	117.1	88.4	102.5	108.5	100.3	105.5	101.6
Aug	103.7	83.5	102.6	114.5	117.1	79.0	101.8	106.2	98.6	104.2	98.7
<b>Percentage change, latest year on previous year</b>											
2017	-0.2 <sup>†</sup>	-7.8 <sup>†</sup>	1.2 <sup>†</sup>	-7.1 <sup>†</sup>	0.6 <sup>†</sup>	-5.3 <sup>†</sup>	3.1 <sup>†</sup>	-2.8 <sup>†</sup>	6.6 <sup>†</sup>	-1.6 <sup>†</sup>	-5.7 <sup>†</sup>
2018	3.3	6.3	4.3	-3.2	1.1	6.7	2.3	8.6	2.7	3.7	0.1
2019	2.3	2.2	1.2	14.0	-0.3	1.2	-0.7	3.9	-4.1	4.2	7.8
2020	1.2	-3.2	0.1	9.1	4.8	-3.5	-4.0	3.8	-4.1	3.1	2.1
2021	7.4	-11.1	9.7	5.5	7.7	-15.2	8.9	5.0	12.3	10.1	-2.1
<b>Percentage change, latest month on same month a year ago</b>											
2020 Jun	-2.1 <sup>†</sup>	9.1 <sup>†</sup>	-5.2 <sup>†</sup>	5.7 <sup>†</sup>	3.6 <sup>†</sup>	10.1 <sup>†</sup>	-10.9 <sup>†</sup>	3.5 <sup>†</sup>	-13.4 <sup>†</sup>	-1.1 <sup>†</sup>	4.1 <sup>†</sup>
Jul	2.9	5.1	1.1	11.3	5.5	5.0	-1.0	7.0	-6.1	5.9	5.3
Aug	5.6	-2.3	5.0	14.8	6.5	-2.3	2.2	9.2	0.6	7.8	4.6
Sep	5.7	-8.3	6.6	10.4	5.5	-9.7	1.4	6.1	4.5	10.4	1.0
Oct	5.8	1.6	6.8	1.8	6.2	2.6	-0.3	5.4	4.2	11.6	-0.3
Nov	7.8	-4.0	10.5	-1.7	8.9	-4.3	4.1	5.0	11.0	15.9	-4.0
Dec	8.4	3.8	9.6	2.8	10.0	5.9	-4.7	4.6	11.3	13.8	1.3
2021 Jan	4.4	-2.8	4.3	8.1	6.9	-3.0	-1.3	2.7	3.2	7.7	0.6
Feb	4.0	-11.7	4.4	9.0	7.4	-13.7	1.7	-1.5	6.9	8.9	-2.2
Mar	10.5	-3.2	13.0	7.1	6.9	-3.8	8.4	-0.9	24.7	14.8	0.3
Apr	34.3	-21.8	48.5	20.5	13.5	-30.6	49.9	11.0	80.8	55.4	-
May	27.0	-20.8	35.4	27.7	13.2	-27.5	22.5	12.7	52.7	38.5	4.9
Jun	11.6	-30.5	17.3	10.7	8.7	-37.9	20.9	4.0	23.5	18.6	-5.0
Jul	6.0	-17.9	8.8	3.7	8.2	-22.8	9.7	1.0	12.9	9.0	-4.0
Aug	4.3	1.0	5.5	-1.5	5.0	-1.3	4.5	2.0	7.6	4.9	-1.0
Sep	1.6	-1.8	2.3	-3.8	5.9	-4.3	3.3	3.1	2.2	0.7	-3.4
Oct	-	-5.2	0.4	-5.1	7.0	-7.8	0.1	7.0	-2.8	-2.1	-5.0
Nov	-1.5	-4.0	-2.3	-1.9	6.7	-7.3	-1.3	6.8	-6.6	-4.9	-3.1
Dec	-2.2	-11.7	-1.7	-4.4	4.6	-16.7	6.6	13.1	-8.8	-6.0	-6.9
2022 Jan	-1.0	-5.2	-0.9	-4.2	5.4	-8.2	4.3	3.1	-4.0	-1.8	-2.6
Feb	-1.6	2.2	-2.2	-4.9	4.0	1.3	0.3	5.3	-7.5	-4.2	-0.9
Mar	-2.5	1.7	-3.3	-5.6	4.5	-0.5	3.9	2.0	-8.4	-4.4	-1.4
Apr	-2.2	18.6	-4.3	-7.3	8.4	23.1	1.3	3.2	-9.0	-7.0	2.2
May	-3.5	15.2	-4.7	-12.2	7.3	18.4	-0.4	-1.7	-5.8	-7.9	-3.0
Jun	-1.8	25.0	-4.7	-2.1	5.8	35.5	-2.2	2.4	-5.9	-9.2	5.2
Jul	-3.2	8.7	-5.2	-1.2	2.5	12.8	-4.7	-0.7	-5.9	-7.5	1.4
Aug	-5.2	-12.6	-6.7	1.8	3.7	-14.5	-4.3	-2.8	-8.7	-7.6	-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> 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<sup>1</sup>

Seasonally adjusted 2019 = 100

Section	Broad industry groups						Main industrial groupings					
	Production industries	Mining and quarrying	Manufacturing	Electricity, gas, steam and air conditioning	Water supply, sewerage and waste management	Oil and gas extraction	Consumer durables	Consumer non-durables	Capital goods	Intermediate goods	Energy	
	B+C+D+E	B	C	D	E	06	MIG-CD	MIG-CND	MIG-CAG	MIG-IG	MIG-NRG	
Latest weight	1 000.0	78.4	724.6	109.7	87.4	65.8	66.6	193.8	269.3	243.0	220.1	
	K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K24O	K24T	
<b>Percentage change, latest month on previous month</b>												
2020 Jun	11.6 <sup>†</sup>	3.5 <sup>†</sup>	14.5 <sup>†</sup>	6.4 <sup>†</sup>	6.5 <sup>†</sup>	1.8 <sup>†</sup>	5.2 <sup>†</sup>	3.6 <sup>†</sup>	24.5 <sup>†</sup>	15.7 <sup>†</sup>	3.3 <sup>†</sup>	
Jul	5.6	-0.6	7.3	3.6	1.0	-1.2	11.2	5.2	7.9	7.1	1.3	
Aug	1.9	-7.2	3.1	1.4	1.9	-7.9	3.8	-1.0	6.4	2.6	-1.3	
Sep	1.6	-2.1	2.6	0.4	-2.1	-2.6	0.5	-1.5	5.0	3.6	-0.1	
Oct	1.0	2.7	1.4	-3.2	1.8	3.3	1.5	-0.3	1.6	2.4	-1.2	
Nov	1.6	-3.3	2.5	-0.4	0.6	-4.1	3.4	-0.7	4.6	2.8	-1.3	
Dec	0.7	5.3	-0.3	2.8	2.8	7.6	-8.2	-0.9	0.7	-0.8	3.8	
2021 Jan	-1.6	-2.1	-2.3	1.7	-0.2	-4.4	3.9	0.4	-3.7	-2.4	-1.5	
Feb	0.4	-6.7	0.9	1.0	1.3	-7.9	2.7	0.2	2.2	0.2	-1.5	
Mar	0.9	1.5	1.2	-0.7	0.4	2.2	-2.4	2.2	0.9	0.9	0.1	
Apr	-0.6	-16.2	0.2	4.0	-1.4	-20.6	-0.7	-0.3	-0.8	1.4	-2.6	
May	1.7	4.5	0.6	8.1	0.2	5.5	1.0	5.6	-3.4	0.6	6.3	
Jun	-1.9	-9.2	-0.9	-7.8	2.3	-12.8	3.8	-4.5	0.6	-0.9	-6.5	
Jul	0.2	17.4	-0.5	-3.0	0.6	22.7	0.9	2.1	-1.4	-1.6	2.4	
Aug	0.3	14.1	-	-3.6	-1.2	17.9	-1.1	-	1.4	-1.2	1.8	
Sep	-1.0	-4.8	-0.5	-2.0	-1.3	-5.6	-0.7	-0.5	-0.2	-0.6	-2.6	
Oct	-0.7	-0.7	-0.5	-4.5	2.9	-0.5	-1.6	3.5	-3.3	-0.4	-2.9	
Nov	0.1	-2.1	-0.1	3.0	0.3	-3.6	1.9	-0.9	0.4	-0.2	0.8	
Dec	0.1	-3.2	0.2	0.1	0.7	-3.3	-0.9	5.0	-1.7	-1.9	-0.3	
2022 Jan	-0.4	5.2	-1.4	1.9	0.6	5.3	1.6	-8.6	1.3	1.9	2.9	
Feb	-0.3	0.5	-0.5	0.3	-0.1	1.7	-1.3	2.4	-1.5	-2.2	0.3	
Mar	-	1.0	-	-1.4	0.9	0.4	1.2	-1.0	-	0.7	-0.4	
Apr	-0.2	-2.3	-0.7	2.1	2.3	-1.8	-3.3	0.9	-1.5	-1.4	1.0	
May	0.4	1.4	0.1	2.5	-0.8	1.5	-0.7	0.6	-	-0.3	0.9	
Jun	-0.3	-1.4	-0.8	2.8	0.9	-0.2	2.0	-0.5	0.6	-2.3	1.3	
Jul	-1.1	2.0	-1.1	-2.1	-2.6	2.1	-1.7	-1.0	-1.4	0.1	-1.3	
Aug	-1.8	-8.2	-1.6	-0.6	-	-10.6	-0.7	-2.1	-1.7	-1.2	-2.9	
<b>Percentage change, latest 3 months on same 3 months a year ago<sup>2</sup></b>												
2020 Jun	-10.4 <sup>†</sup>	0.4 <sup>†</sup>	-15.1 <sup>†</sup>	4.5 <sup>†</sup>	-0.3 <sup>†</sup>	2.1 <sup>†</sup>	-19.3 <sup>†</sup>	0.5 <sup>†</sup>	-26.0 <sup>†</sup>	-13.0 <sup>†</sup>	1.2 <sup>†</sup>	
Jul	-3.7	3.7	-6.8	6.6	2.3	4.4	-9.9	4.2	-16.3	-3.1	3.0	
Aug	2.2	3.9	0.3	10.5	5.2	4.2	-3.2	6.6	-6.3	4.2	4.7	
Sep	4.7	-2.0	4.2	12.1	5.8	-2.4	0.9	7.4	-0.3	8.0	3.6	
Oct	5.7	-3.1	6.1	8.8	6.0	-3.3	1.1	6.9	3.1	10.0	1.7	
Nov	6.4	-3.7	7.9	3.3	6.8	-4.0	1.7	5.5	6.6	12.6	-1.1	
Dec	7.3	0.4	9.0	1.0	8.3	1.3	-0.3	5.0	8.8	13.8	-1.0	
2021 Jan	6.9	-1.1	8.1	3.0	8.6	-0.6	-0.6	4.1	8.4	12.4	-0.7	
Feb	5.6	-3.7	6.1	6.6	8.1	-3.9	-1.4	1.9	7.1	10.1	-0.1	
Mar	6.2	-6.0	7.1	8.1	7.1	-7.0	2.8	0.1	11.0	10.4	-0.4	
Apr	14.9	-12.3	19.3	12.0	9.2	-16.4	16.4	2.6	31.0	23.5	-0.6	
May	23.1	-15.4	30.7	18.2	11.1	-21.2	24.6	7.4	49.2	34.3	1.8	
Jun	23.6	-24.5	32.5	19.5	11.7	-32.0	29.6	9.2	48.9	35.9	-0.1	
Jul	14.3	-23.1	19.5	13.6	10.0	-29.4	17.3	5.8	27.7	20.9	-1.5	
Aug	7.2	-16.2	10.3	4.2	7.3	-21.3	11.3	2.3	14.3	10.6	-3.4	
Sep	3.9	-6.6	5.5	-0.6	6.4	-9.9	5.8	2.0	7.3	4.8	-2.8	
Oct	1.9	-2.0	2.7	-3.4	6.0	-4.5	2.6	4.0	2.2	1.1	-3.1	
Nov	-	-3.7	0.1	-3.6	6.5	-6.5	0.7	5.6	-2.5	-2.2	-3.8	
Dec	-1.3	-7.0	-1.2	-3.8	6.1	-10.7	1.7	9.0	-6.1	-4.4	-5.0	
2022 Jan	-1.6	-7.0	-1.6	-3.5	5.6	-10.9	3.1	7.7	-6.5	-4.3	-4.2	
Feb	-1.6	-5.1	-1.6	-4.5	4.7	-8.3	3.7	7.2	-6.8	-4.0	-3.5	
Mar	-1.7	-0.5	-2.1	-4.9	4.6	-2.6	2.8	3.4	-6.7	-3.5	-1.6	
Apr	-2.1	6.9	-3.3	-6.0	5.6	6.9	1.8	3.5	-8.3	-5.2	-	
May	-2.7	11.3	-4.1	-8.5	6.7	12.6	1.6	1.1	-7.7	-6.4	-0.8	
Jun	-2.5	19.4	-4.6	-7.3	7.2	25.2	-0.5	1.3	-6.9	-8.0	1.4	
Jul	-2.8	15.9	-4.9	-5.4	5.2	21.4	-2.4	-	-5.9	-8.2	1.1	
Aug	-3.4	5.2	-5.5	-0.5	4.0	8.2	-3.7	-0.4	-6.8	-8.1	1.0	

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

<sup>2</sup> Any apparent inconsistencies between these tables and the latest GDP estimate 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.

# IOP5 Output of the Production Industries

continued

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

Seasonally adjusted 2019 = 100

Section	Broad industry groups						Main industrial groupings					
	Production industries	Mining and quarrying	Manufacturing	Electricity, gas, steam and air conditioning	Water supply, sewerage and waste management	Oil and gas extraction	Consumer durables	Consumer non-durables	Capital goods	Intermediate goods	Energy	
	B+C+D+E	B	C	D	E	06	MIG-CD	MIG-CND	MIG-CAG	MIG-IG	MIG-NRG	
Latest weight	1 000.0	78.4	724.6	109.7	87.4	65.8	66.6	193.8	269.3	243.0	220.1	
	K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K24O	K24T	
<b>Percentage change, latest 3 months on previous 3 months<sup>2</sup></b>												
2020 Jun	-13.5 <sup>†</sup>	2.6 <sup>†</sup>	-18.0 <sup>†</sup>	-3.6 <sup>†</sup>	-4.0 <sup>†</sup>	6.3 <sup>†</sup>	-20.4 <sup>†</sup>	-5.2 <sup>†</sup>	-26.7 <sup>†</sup>	-17.0 <sup>†</sup>	-1.6 <sup>†</sup>	
Jul	0.9	5.2	0.2	2.5	0.4	5.3	1.7	0.6	-1.1	2.8	1.5	
Aug	14.0	3.9	17.6	8.0	5.6	2.1	16.9	5.3	27.5	19.6	3.8	
Sep	18.1	-2.9	24.3	9.8	6.1	-5.8	25.9	7.7	37.0	25.8	3.0	
Oct	10.9	-7.1	15.1	5.1	3.8	-8.7	13.9	2.3	24.1	16.0	0.1	
Nov	6.0	-6.5	9.0	0.3	0.8	-7.5	8.7	-1.0	15.0	10.5	-1.8	
Dec	4.1	-1.8	5.9	-1.8	2.3	-1.6	2.4	-2.4	10.5	7.4	-1.3	
2021 Jan	2.7	0.5	3.4	-	2.8	0.5	-	-1.9	6.5	4.2	-0.1	
Feb	1.1	0.1	0.6	2.9	4.1	-	-2.4	-1.1	2.4	0.2	0.9	
Mar	-0.1	-3.9	-0.7	3.9	2.9	-5.6	0.1	0.4	-0.1	-1.6	-0.4	
Apr	-0.1	-10.7	0.1	4.0	1.9	-13.5	0.4	1.6	0.2	-0.6	-2.1	
May	0.8	-13.1	1.3	6.0	0.3	-16.5	0.4	4.2	-0.6	1.4	-1.1	
Jun	0.6	-17.5	1.4	6.6	0.1	-22.3	0.4	3.4	-1.5	2.2	-1.2	
Jul	0.4	-7.8	0.4	3.9	1.1	-11.1	2.5	3.7	-3.6	0.7	0.7	
Aug	-0.8	2.9	-0.7	-4.8	2.0	2.0	4.4	0.3	-2.4	-1.5	-1.4	
Sep	-0.7	20.0	-1.1	-8.6	1.0	24.9	2.7	0.7	-1.3	-3.0	0.2	
Oct	-1.1	18.4	-1.1	-10.7	-	23.6	-0.3	0.7	-0.6	-3.1	-1.6	
Nov	-1.1	7.5	-1.1	-7.2	0.1	9.8	-1.6	2.2	-1.9	-2.2	-2.3	
Dec	-1.1	-2.3	-0.9	-5.0	2.0	-2.5	-1.5	4.2	-3.3	-2.0	-3.6	
2022 Jan	-0.8	-4.7	-1.0	-0.1	2.4	-6.2	0.5	1.5	-2.6	-1.3	-1.3	
Feb	-0.5	-1.4	-1.1	1.9	2.2	-1.9	0.5	0.3	-2.1	-1.7	1.3	
Mar	-0.6	2.8	-1.6	2.7	1.5	3.0	1.2	-4.7	-0.7	-0.7	3.1	
Apr	-0.6	2.7	-1.6	1.3	1.9	3.7	-0.8	-2.4	-1.7	-1.6	2.2	
May	-0.4	1.9	-1.3	1.6	2.3	2.5	-1.6	-1.6	-1.6	-1.2	1.7	
Jun	-0.2	-1.0	-1.1	3.9	2.6	-0.1	-2.8	1.3	-1.8	-2.6	1.8	
Jul	-0.4	-0.1	-1.3	4.6	0.7	1.0	-1.8	0.2	-1.1	-2.5	1.8	
Aug	-1.5	-2.7	-2.2	3.5	-0.7	-2.0	-1.0	-1.2	-1.4	-3.2	0.3	

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

<sup>2</sup> Any apparent inconsistencies between these tables and the latest GDP estimate 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.

# IOP5 Output of the Production Industries

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

continued

Seasonally adjusted 2019 = 100

Section	Food products, beverages and tobacco	Textiles, wearing apparel and leather products	Wood and paper products and printing	Coke and refined petroleum products	Chemicals and chemical products	Basic pharmaceutical products and preparations
	CA	CB	CC	CD	CE	CF
Latest weight	110.8	25.5	48.0	14.2	44.3	49.0
	K22B	K22P	K22T	K22X	K22Z	K239
2017	86.9 <sup>†</sup>	89.1 <sup>†</sup>	91.4 <sup>†</sup>	87.0 <sup>†</sup>	80.5 <sup>†</sup>	91.7 <sup>†</sup>
2018	98.5	92.9	95.0	73.6	87.7	92.8
2019	100.0	100.0	100.0	100.0	100.0	100.0
2020	103.4	72.3	92.4	81.2	105.3	118.4
2021	108.8	78.9	101.0	80.7	109.1	123.2
2021 Q2	109.9 <sup>†</sup>	81.3 <sup>†</sup>	102.3 <sup>†</sup>	82.3 <sup>†</sup>	110.4 <sup>†</sup>	118.0 <sup>†</sup>
Q3	110.3	79.7	101.1	87.8	108.4	119.8
Q4	110.8	79.4	100.5	85.7	110.8	135.0
2022 Q1	111.6	77.6	100.3	92.2	110.6	113.9
Q2	112.0	78.2	99.4	94.6	106.4	116.2
2021 Jun	109.6 <sup>†</sup>	82.8 <sup>†</sup>	100.8 <sup>†</sup>	91.3 <sup>†</sup>	110.9 <sup>†</sup>	114.3 <sup>†</sup>
Jul	110.9	79.7	101.9	88.5	109.1	119.8
Aug	110.2	79.6	99.6	89.6	108.8	120.5
Sep	109.8	79.9	101.7	85.4	107.2	119.1
Oct	110.8	79.4	101.1	84.4	110.2	130.9
Nov	110.9	79.0	100.5	86.4	110.6	127.1
Dec	110.7	79.7	99.9	86.4	111.7	147.0
2022 Jan	111.4	78.9	99.8	88.5	113.3	110.2
Feb	111.5	75.9	100.5	91.6	109.1	118.3
Mar	111.9	78.0	100.6	96.5	109.3	113.3
Apr	111.7	81.5	99.9	96.8	107.9	113.4
May	112.4	79.6	100.8	97.2	108.2	116.7
Jun	111.9	73.5	97.4	89.9	103.0	118.6
Jul	111.4	74.7	97.8	83.0	102.0	114.3
Aug	111.4	74.9	94.5	84.4	103.2	107.5
<b>Percentage change, latest year on previous year</b>						
2017	-4.0 <sup>†</sup>	4.9 <sup>†</sup>	0.4 <sup>†</sup>	-7.2 <sup>†</sup>	-5.1 <sup>†</sup>	-2.0 <sup>†</sup>
2018	13.4	4.3	3.9	-15.4	8.9	1.2
2019	1.5	7.6	5.3	35.8	14.1	7.8
2020	3.3	-27.7	-7.6	-18.8	5.3	18.4
2021	5.2	9.1	9.3	-0.6	3.6	4.1
<b>Percentage change, latest month on same month a year ago</b>						
2020 Jun	2.5 <sup>†</sup>	-28.8 <sup>†</sup>	-14.1 <sup>†</sup>	-26.6 <sup>†</sup>	-0.5 <sup>†</sup>	23.5 <sup>†</sup>
Jul	8.7	-23.9	-3.5	-28.4	4.9	16.8
Aug	7.2	-22.0	-5.1	-27.2	6.9	30.0
Sep	7.3	-27.0	-3.8	-12.7	5.7	21.2
Oct	7.5	-26.2	-3.4	-26.5	10.2	17.7
Nov	7.9	-20.3	0.5	-28.5	18.8	12.6
Dec	5.1	-12.9	0.9	-30.2	12.5	18.4
2021 Jan	2.0	-13.4	-1.9	-34.9	3.1	17.0
Feb	0.5	-19.7	-0.3	-35.5	4.5	6.2
Mar	0.4	6.4	6.1	-29.0	-	-1.3
Apr	18.3	134.5	51.8	-1.4	12.6	-15.3
May	14.8	58.1	40.9	17.7	8.2	4.0
Jun	9.6	15.7	19.5	30.8	11.6	-9.7
Jul	3.7	2.0	7.5	23.2	6.2	-4.8
Aug	3.4	1.3	5.0	25.2	3.1	-1.3
Sep	2.2	7.7	4.8	2.1	1.5	2.1
Oct	2.4	7.2	2.7	6.6	-0.7	15.0
Nov	2.9	3.4	-0.7	11.7	-3.3	13.9
Dec	5.3	0.7	-0.5	13.2	-1.5	30.5
2022 Jan	8.1	5.5	0.4	31.4	5.5	-7.4
Feb	7.1	4.5	0.7	38.2	1.8	-0.7
Mar	6.6	-	-0.2	44.0	3.1	-7.1
Apr	1.8	2.2	-3.0	33.5	-3.2	4.9
May	2.0	-2.1	-2.2	17.2	-0.4	-11.4
Jun	2.2	-11.2	-3.5	-1.5	-7.2	3.8
Jul	0.4	-6.3	-4.0	-6.3	-6.5	-4.5
Aug	1.1	-5.9	-5.1	-5.8	-5.2	-10.8

<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.

# IOP5 Output of the Production Industries

continued

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

Seasonally adjusted 2019 = 100

Section	Rubber and plastic products and non-metallic mineral products	Basic metals and metal products	Computer, electronic and optical products	Electrical equipment	Machinery and equipment not elsewhere classified	Transport equipment	Other manufacturing and repair
	CG	CH	CI	CJ	CK	CL	CM
Latest weight	52.8	81.3	50.5	18.0	54.6	108.3	67.4
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z
2017	93.1 <sup>†</sup>	101.6 <sup>†</sup>	99.6 <sup>†</sup>	90.2 <sup>†</sup>	99.3 <sup>†</sup>	105.9 <sup>†</sup>	98.0 <sup>†</sup>
2018	97.5	102.8	101.3	91.7	109.7	103.6	102.5
2019	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2020	97.1	107.5	97.1	125.8	99.1	91.9	98.8
2021	111.6	118.1	101.5	141.0	127.1	99.0	113.9
2021 Q2	113.7 <sup>†</sup>	122.3 <sup>†</sup>	101.3 <sup>†</sup>	148.2 <sup>†</sup>	133.3 <sup>†</sup>	98.3 <sup>†</sup>	113.6 <sup>†</sup>
Q3	110.9	117.4	101.3	138.4	129.6	97.2	115.9
Q4	109.9	112.5	101.1	133.0	117.6	94.7	114.5
2022 Q1	107.8	112.0	100.3	130.2	119.0	92.7	115.8
Q2	104.3	111.1	96.5	125.4	115.8	93.1	113.6
2021 Jun	112.3 <sup>†</sup>	121.6 <sup>†</sup>	102.0 <sup>†</sup>	141.9 <sup>†</sup>	133.4 <sup>†</sup>	97.0 <sup>†</sup>	115.9 <sup>†</sup>
Jul	111.1	118.5	101.5	141.7	127.5	96.6	115.9
Aug	110.4	117.9	101.2	137.6	129.1	98.5	116.4
Sep	111.3	115.7	101.2	135.9	132.3	96.6	115.5
Oct	110.6	114.2	99.3	134.0	116.6	96.0	115.4
Nov	111.0	112.8	101.8	132.3	120.1	94.9	115.1
Dec	108.2	110.4	102.2	132.6	116.1	93.2	113.1
2022 Jan	109.9	112.1	103.1	132.1	123.3	92.3	114.0
Feb	107.2	111.5	98.6	127.3	118.1	92.5	116.8
Mar	106.4	112.5	99.2	131.1	115.5	93.4	116.5
Apr	105.3	112.5	96.5	126.6	113.8	93.9	113.0
May	105.4	111.2	96.0	124.4	117.2	91.5	113.7
Jun	102.1	109.5	97.1	125.1	116.4	93.9	114.1
Jul	102.0	110.3	95.7	122.3	115.6	91.5	112.5
Aug	100.8	107.2	95.4	123.5	113.6	88.8	111.6
<b>Percentage change, latest year on previous year</b>							
2017	-0.2 <sup>†</sup>	-3.2 <sup>†</sup>	3.4 <sup>†</sup>	3.7 <sup>†</sup>	6.6 <sup>†</sup>	8.9 <sup>†</sup>	4.6 <sup>†</sup>
2018	4.8	1.1	1.7	1.7	10.5	-2.1	4.6
2019	2.5	-2.7	-1.2	9.1	-8.9	-3.5	-2.4
2020	-2.9	7.5	-2.9	25.7	-0.9	-8.1	-1.2
2021	14.9	9.9	4.5	12.1	28.3	7.8	15.3
<b>Percentage change, latest month on same month a year ago</b>							
2020 Jun	-6.7 <sup>†</sup>	6.0 <sup>†</sup>	-7.2 <sup>†</sup>	13.9 <sup>†</sup>	2.0 <sup>†</sup>	-28.5 <sup>†</sup>	-9.0 <sup>†</sup>
Jul	1.4	8.3	-1.0	29.6	2.9	-15.4	1.1
Aug	4.7	11.2	3.3	41.2	3.1	-4.5	6.3
Sep	6.6	14.5	-0.5	42.0	8.1	6.1	3.8
Oct	7.7	15.7	-3.0	44.2	8.9	6.4	5.6
Nov	10.9	17.4	2.2	48.5	15.0	16.6	6.8
Dec	8.8	18.3	-7.9	22.4	32.8	11.4	8.2
2021 Jan	4.8	10.3	-2.2	24.3	23.3	-4.0	5.2
Feb	5.7	10.2	3.8	22.0	23.1	0.2	5.9
Mar	22.9	17.9	6.4	27.5	52.7	26.4	13.4
Apr	111.2	53.4	28.6	58.7	148.9	139.1	49.7
May	53.2	40.0	9.2	53.3	84.3	93.0	40.0
Jun	21.4	18.5	10.1	24.4	31.9	30.7	29.9
Jul	10.3	10.8	3.4	9.6	25.8	10.2	17.3
Aug	5.8	7.0	-0.2	-2.5	26.5	0.4	11.1
Sep	4.3	-0.8	0.7	-6.9	23.2	-11.0	10.8
Oct	2.3	-4.4	-2.3	-9.4	5.1	-13.0	9.2
Nov	0.5	-7.2	-3.3	-14.6	0.5	-18.3	6.4
Dec	-2.6	-11.3	7.0	-0.9	-11.0	-19.4	3.4
2022 Jan	0.9	-7.3	2.6	-7.1	-0.7	-12.0	3.0
Feb	-2.8	-6.4	-6.2	-13.1	-6.5	-13.2	4.1
Mar	-8.1	-7.1	-2.0	-9.3	-13.4	-12.0	4.3
Apr	-9.5	-7.1	-3.7	-14.7	-14.5	-10.3	1.2
May	-6.3	-10.3	-5.7	-19.4	-12.2	-1.8	0.4
Jun	-9.0	-10.0	-4.8	-11.8	-12.8	-3.2	-1.6
Jul	-8.2	-6.9	-5.7	-13.7	-9.3	-5.3	-2.9
Aug	-8.7	-9.0	-5.7	-10.3	-12.0	-9.9	-4.2

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

<sup>†</sup> 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<sup>1</sup>

Seasonally adjusted 2019 = 100

Section	Food products, beverages and tobacco	Textiles, wearing apparel and leather products	Wood and paper products and printing	Coke and refined petroleum products	Chemicals and chemical products	Basic pharmaceutical products and preparations
	CA	CB	CC	CD	CE	CF
Latest weight	110.8	25.5	48.0	18.5	44.3	49.0
	K22B	K22P	K22T	K22X	K22Z	K239
<b>Percentage change, latest month on previous month</b>						
2020 Jun	4.2 †	39.3 †	15.3 †	-1.0 †	-1.1	- †
Jul	7.0	9.2	12.3	3.0	3.3 †	-0.7
Aug	-0.4	0.4	-	-0.5	2.7	-2.9
Sep	0.8	-5.5	2.3	17.0	0.1	-4.4
Oct	0.7	-0.2	1.5	-5.4	5.0	-2.4
Nov	-0.4	3.3	2.8	-2.2	3.1	-2.0
Dec	-2.5	3.6	-0.7	-1.3	-0.8	0.9
2021 Jan	-2.0	-5.7	-1.0	-11.8	-5.4	5.7
Feb	1.0	-2.8	0.3	-1.5	-0.2	0.1
Mar	0.9	7.4	1.0	1.0	-1.1	2.4
Apr	4.6	2.2	2.3	8.3	5.2	-11.3
May	0.4	1.9	0.1	14.4	-2.5	21.8
Jun	-0.6	1.9	-2.2	10.0	2.0	-13.2
Jul	1.2	-3.7	1.0	-3.0	-1.7	4.7
Aug	-0.7	-0.2	-2.3	1.2	-0.3	0.6
Sep	-0.3	0.4	2.1	-4.7	-1.5	-1.1
Oct	0.9	-0.6	-0.5	-1.2	2.8	9.9
Nov	0.1	-0.4	-0.6	2.5	0.4	-3.0
Dec	-0.2	0.9	-0.5	-	1.0	15.7
2022 Jan	0.7	-1.1	-0.1	2.4	1.4	-25.0
Feb	-	-3.7	0.6	3.5	-3.7	7.3
Mar	0.4	2.7	0.1	5.3	0.2	-4.2
Apr	-0.2	4.4	-0.6	0.4	-1.2	0.1
May	0.6	-2.3	0.9	0.4	0.3	3.0
Jun	-0.4	-7.6	-3.5	-7.5	-4.8	1.6
Jul	-0.5	1.6	0.5	-7.7	-0.9	-3.6
Aug	-	0.2	-3.4	1.7	1.1	-6.0
<b>Percentage change, latest 3 months on same 3 months a year ago</b>						
2020 Jun	-2.4 †	-48.4 †	-24.1 †	-28.6 †	- †	28.8 †
Jul	2.8	-33.7	-14.2	-29.3	1.6	24.6
Aug	6.2	-24.9	-7.6	-27.4	3.8	23.1
Sep	7.8	-24.3	-4.1	-22.9	5.8	22.4
Oct	7.4	-25.0	-4.1	-22.3	7.6	22.9
Nov	7.6	-24.6	-2.3	-22.9	11.5	17.1
Dec	6.8	-20.0	-0.7	-28.4	13.7	16.2
2021 Jan	5.0	-15.7	-0.2	-31.1	11.2	16.0
Feb	2.5	-15.3	-0.4	-33.4	6.6	13.5
Mar	0.9	-9.9	1.2	-33.3	2.5	6.7
Apr	5.9	16.5	15.5	-24.0	5.6	-3.9
May	10.8	50.5	30.0	-6.7	6.8	-4.2
Jun	14.1	55.3	36.2	15.4	10.8	-7.0
Jul	9.2	21.2	21.2	23.9	8.6	-3.5
Aug	5.4	6.0	10.3	26.4	6.9	-5.3
Sep	3.1	3.6	5.8	16.1	3.6	-1.4
Oct	2.6	5.3	4.2	10.7	1.3	5.1
Nov	2.5	6.1	2.2	6.6	-0.9	10.2
Dec	3.5	3.7	0.5	10.4	-1.9	19.8
2022 Jan	5.4	3.1	-0.3	18.2	0.1	12.0
Feb	6.8	3.5	0.2	26.9	1.9	7.1
Mar	7.3	3.3	0.3	37.9	3.5	-5.1
Apr	5.1	2.2	-0.8	38.4	0.5	-1.2
May	3.4	-	-1.8	30.6	-0.2	-5.1
Jun	2.0	-3.8	-2.9	15.0	-3.6	-1.5
Jul	1.5	-6.6	-3.2	2.8	-4.7	-4.4
Aug	1.2	-7.8	-4.2	-4.5	-6.3	-4.0

<sup>1</sup> 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<sup>1</sup>

Seasonally adjusted 2019 = 100

Section	Rubber and plastic products and non-metallic mineral products	Basic metals and metal products	Computer, electronic and optical products	Electrical equipment	Machinery and equipment not elsewhere classified	Transport equipment	Other manufacturing and repair
	CG	CH	CI	CJ	CK	CL	CM
Latest weight	52.8	81.3	50.5	18.0	54.6	108.3	67.4
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z

## Percentage change, latest month on previous month

2020	Jun	26.1 <sup>†</sup>	15.8 <sup>†</sup>	-0.5 <sup>†</sup>	13.3 <sup>†</sup>	39.8 <sup>†</sup>	53.7 <sup>†</sup>	10.3 <sup>†</sup>
	Jul	9.0	4.3	5.8	13.2	0.2	18.2	10.7
	Aug	3.5	2.9	3.3	9.3	0.7	11.9	6.1
	Sep	2.3	5.9	-0.9	3.4	5.3	10.6	-0.6
	Oct	1.3	2.4	1.1	1.3	3.2	1.8	1.4
	Nov	2.2	1.7	3.6	4.7	7.7	5.2	2.4
	Dec	0.5	2.4	-9.3	-13.6	9.3	-0.4	1.1
2021	Jan	-1.9	-2.8	5.3	6.3	-4.9	-9.4	1.2
	Feb	1.2	-1.6	4.6	3.0	1.8	1.6	1.3
	Mar	4.9	1.7	-3.7	-1.3	5.6	-0.5	-0.4
	Apr	0.4	0.1	-1.1	2.7	-0.2	-1.3	-0.1
	May	-3.4	2.3	1.5	4.0	0.2	-11.0	1.5
	Jun	-0.1	-2.0	0.3	-8.1	-	4.1	2.3
	Jul	-1.1	-2.5	-0.5	-0.2	-4.4	-0.4	-0.1
	Aug	-0.6	-0.5	-0.3	-2.9	1.3	2.0	0.5
	Sep	0.8	-1.8	-	-1.2	2.5	-2.0	-0.9
	Oct	-0.6	-1.4	-1.8	-1.4	-11.9	-0.5	-0.1
	Nov	0.4	-1.2	2.5	-1.3	3.0	-1.1	-0.2
	Dec	-2.5	-2.1	0.3	0.2	-3.3	-1.8	-1.7
2022	Jan	1.6	1.5	1.0	-0.4	6.2	-1.0	0.8
	Feb	-2.5	-0.5	-4.4	-3.6	-4.3	0.2	2.4
	Mar	-0.8	0.9	0.6	3.0	-2.2	0.9	-0.2
	Apr	-1.0	-	-2.8	-3.5	-1.5	0.6	-3.0
	May	0.1	-1.2	-0.6	-1.7	3.0	-2.6	0.6
	Jun	-3.1	-1.6	1.2	0.6	-0.7	2.6	0.3
	Jul	-0.2	0.7	-1.5	-2.3	-0.7	-2.5	-1.3
	Aug	-1.2	-2.8	-0.3	1.0	-1.7	-3.0	-0.9

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

2020	Jun	-25.7 <sup>†</sup>	-6.9 <sup>†</sup>	-11.4 <sup>†</sup>	4.6 <sup>†</sup>	-23.4 <sup>†</sup>	-43.0 <sup>†</sup>	-18.9 <sup>†</sup>
	Jul	-10.3	1.8	-5.6	15.6	-7.1	-31.5	-9.1
	Aug	-0.2	8.5	-1.7	28.2	2.7	-16.2	-0.5
	Sep	4.2	11.4	0.6	37.6	4.7	-4.7	3.7
	Oct	6.3	13.8	-0.2	42.5	6.7	2.6	5.2
	Nov	8.4	15.9	-0.5	44.9	10.7	9.6	5.4
	Dec	9.1	17.1	-2.9	38.1	18.7	11.4	6.9
2021	Jan	8.1	15.2	-2.6	31.4	23.5	7.7	6.7
	Feb	6.4	12.9	-2.1	22.9	26.4	2.4	6.4
	Mar	10.7	12.7	2.6	24.5	32.1	6.0	8.1
	Apr	35.0	24.7	11.7	34.4	61.4	35.6	20.3
	May	54.8	35.5	13.9	45.4	87.6	72.7	32.5
	Jun	54.4	35.8	15.2	44.2	76.2	77.4	39.3
	Jul	26.0	22.1	7.5	27.3	43.5	36.5	28.3
	Aug	12.2	12.0	4.3	9.5	28.1	12.4	18.9
	Sep	6.7	5.5	1.3	-0.3	25.1	-0.9	13.0
	Oct	4.1	0.4	-0.6	-6.3	18.0	-8.2	10.4
	Nov	2.3	-4.2	-1.6	-10.4	9.2	-14.2	8.8
	Dec	-	-7.7	0.3	-8.6	-2.2	-17.0	6.3
2022	Jan	-0.4	-8.6	1.9	-7.8	-3.9	-16.7	4.3
	Feb	-1.5	-8.4	0.9	-7.2	-6.2	-15.0	3.5
	Mar	-3.5	-6.9	-2.0	-9.9	-7.0	-12.4	3.8
	Apr	-6.9	-6.9	-4.0	-12.4	-11.6	-11.8	3.2
	May	-8.0	-8.2	-3.8	-14.6	-13.4	-8.3	2.0
	Jun	-8.3	-9.1	-4.7	-15.4	-13.2	-5.3	-
	Jul	-7.8	-9.1	-5.4	-15.1	-11.4	-3.4	-1.4
	Aug	-8.7	-8.7	-5.4	-12.0	-11.4	-6.2	-2.9

<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.

# IOP5 Output of the Production Industries

continued

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

Seasonally adjusted 2019 = 100

Section	Food products, beverages and tobacco	Textiles, wearing apparel and leather products	Wood and paper products and printing	Coke and refined petroleum products	Chemicals and chemical products	Basic pharmaceutical products and preparations
	CA	CB	CC	CD	CE	CF
Latest weight	110.8	25.5	48.0	18.5	44.3	49.0
	K22B	K22P	K22T	K22X	K22Z	K239
<b>Percentage change, latest 3 months on previous 3 months</b>						
2020 Jun	-6.6 †	-37.2 †	-23.9 †	-28.9 †	-4.4 †	12.9 †
Jul	0.7	1.7	-4.0	-21.7	-1.6	4.4
Aug	6.9	43.8	16.1	-10.6	0.7	-0.9
Sep	11.2	47.0	27.1	6.2	5.0	-4.3
Oct	6.4	12.7	15.0	10.5	6.4	-7.0
Nov	3.2	-1.6	8.3	12.7	7.6	-8.6
Dec	0.1	-0.5	4.7	2.6	8.0	-7.3
2021 Jan	-1.9	1.6	3.8	-5.6	4.1	-2.7
Feb	-3.5	0.8	1.0	-12.6	-0.9	2.5
Mar	-2.8	-1.9	-0.1	-13.9	-5.4	6.5
Apr	0.9	-	0.8	-6.9	-3.1	1.7
May	4.1	5.5	2.4	6.0	-0.5	3.2
Jun	5.6	8.2	2.4	23.0	3.3	-1.6
Jul	3.7	5.8	0.8	27.7	1.3	4.8
Aug	1.8	1.3	-1.5	21.1	0.8	-2.0
Sep	0.4	-1.9	-1.3	6.8	-1.8	1.5
Oct	-	-2.1	-1.1	-1.3	-0.8	1.3
Nov	0.3	-1.6	0.3	-4.9	-0.3	6.4
Dec	0.5	-0.4	-0.5	-2.4	2.3	12.7
2022 Jan	0.7	-0.5	-0.7	0.8	2.9	3.7
Feb	0.6	-1.6	-1.0	4.1	1.9	-0.5
Mar	0.7	-2.2	-0.2	7.6	-0.3	-15.6
Apr	0.6	-0.9	0.2	9.0	-2.8	-10.2
May	0.7	1.9	0.4	9.0	-2.6	-8.5
Jun	0.4	0.7	-0.9	2.6	-3.8	2.0
Jul	0.2	-3.2	-1.6	-5.2	-4.0	1.4
Aug	-0.4	-6.6	-3.9	-11.5	-5.3	-0.9

<sup>1</sup> 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<sup>1</sup>

Seasonally adjusted 2019 = 100

Section	Rubber and plastic products and non-metallic mineral products	Basic metals and metal products	Computer, electronic and optical products	Electrical equipment	Machinery and equipment not elsewhere classified	Transport equipment	Other manufacturing and repair
	CG	CH	CI	CJ	CK	CL	CM
Latest weight	52.8	81.3	50.5	18.0	54.6	108.3	67.4
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z

## Percentage change, latest 3 months on previous 3 months

2020	Jun	-27.0 <sup>†</sup>	-15.7 <sup>†</sup>	-11.9 <sup>†</sup>	-11.4 <sup>†</sup>	-21.9 <sup>†</sup>	-44.5 <sup>†</sup>	-20.9 <sup>†</sup>
	Jul	5.1	2.9	3.4	5.2	12.9	-10.2	-3.6
	Aug	33.7	18.3	9.7	25.0	42.8	47.7	15.3
	Sep	41.2	23.5	13.7	35.1	36.9	77.0	25.8
	Oct	19.7	16.1	6.9	26.5	16.6	50.9	17.0
	Nov	9.3	11.9	5.2	16.7	11.0	28.9	8.6
	Dec	5.8	9.5	0.8	4.8	16.1	16.3	5.0
2021	Jan	3.6	5.9	-0.7	-1.0	16.8	6.2	4.3
	Feb	1.6	1.9	-2.0	-5.9	12.8	-2.4	4.5
	Mar	1.6	-1.2	1.5	-0.8	6.4	-7.2	3.5
	Apr	3.6	-1.5	1.8	2.0	5.0	-5.8	2.2
	May	4.2	0.5	0.6	5.9	5.0	-7.1	1.3
	Jun	1.7	1.6	-1.0	2.7	4.2	-7.2	1.9
	Jul	-1.9	0.8	-0.5	-0.3	0.4	-9.7	2.9
	Aug	-3.1	-2.3	0.5	-5.8	-2.5	-3.9	3.5
	Sep	-2.4	-4.0	-	-6.6	-2.8	-1.1	2.0
	Oct	-1.0	-4.5	-1.1	-7.0	-4.1	1.5	0.7
	Nov	-0.3	-4.3	-0.8	-4.5	-5.4	-1.6	-0.6
	Dec	-0.9	-4.2	-0.2	-3.9	-9.3	-2.6	-1.2
2022	Jan	-0.9	-3.6	1.8	-2.6	-4.9	-3.7	-1.4
	Feb	-2.3	-2.6	0.5	-2.6	-3.1	-3.3	-0.6
	Mar	-1.9	-0.4	-0.8	-2.1	1.1	-2.1	1.1
	Apr	-3.1	0.4	-4.2	-3.0	-3.4	-0.2	1.2
	May	-2.6	0.7	-4.0	-2.5	-3.1	0.3	-0.2
	Jun	-3.3	-0.8	-3.8	-3.7	-2.7	0.4	-1.9
	Jul	-2.9	-1.6	-1.9	-3.4	0.5	-1.1	-1.7
	Aug	-3.8	-2.8	-1.2	-2.9	-0.3	-1.7	-1.5

<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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**Next publication:** 11 November 2022  
**Issued by:** Office for National Statistics, Government Buildings, Cardiff Road, Newport NP10 8XG

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

**Statistical contact:**  
Name: David Beckett  
Tel: David Beckett +44 (0) 1633 456980  
Email: [indexofproduction@ons.gov.uk](mailto:indexofproduction@ons.gov.uk)

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