

Statistical bulletin

# Index of Production, UK: September 2023

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



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# 1 . Main points

- We estimate that monthly production output has shown no growth in September 2023; this follows a fall of 0.5% in August 2023 (revised upwards by 0.2 percentage points).
- The monthly output for September 2023 has shown no growth (0.0%), with two of the four production sectors reporting increased output; "water supply and sewerage" was the main positive contributing sector (1.4%), with a smaller contribution from "manufacturing" (0.1%), offset by falls in "mining and quarrying" (2.2%) and "electricity and gas" (0.5%).
- Monthly manufacturing output increased by 0.1%, with increases in 5 of its 13 sub-sectors during September 2023; most notably, "manufacture of computer, electronic and optical products" and "manufacture of machinery and equipment" increased 2.8% and 2.7%, respectively.
- Looking at the longer-term profile, quarterly production output growth for Quarter 3 (July to Sept) 2023 saw no growth when compared with Quarter 2 (Apr to June) 2023; this follows 1.2% quarterly growth in Quarter 2 2023.
- The main positive contributing sectors over Quarter 3 2023 were "manufacturing" and "mining and quarrying", which increased by 0.1% and 0.6% respectively; these rises were offset by "water supply and sewerage", which declined by 0.8%.
- Further analysis of the effect on our monthly Index of Production (IoP) estimate is available in our [Gross domestic product \(GDP\) monthly estimate, UK: September 2023 bulletin](#), published 10 November 2023.

# 2 . Index of Production data

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

Dataset DIOP | Released 10 November 2023

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 November 2023

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 November 2023

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 10 November 2023

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

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

Dataset | Released 10 November 2023

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 Energy Security and Net Zero (DESNZ), and the International Steel Statistics Bureau (ISSB) for steel industries.

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 DESNZ, and therefore will be less affected than the survey data.

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](#).

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

### Quality and methodology

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

### Additional bank holiday in May 2023 for the Coronation of King Charles III

There was an additional bank holiday for the coronation of King Charles III on Monday 8 May 2023. While adjustments are made for regular calendar effects, there was no explicit adjustment for this event. However, the timing of the bank holiday indirectly affects the number of trading days, which could affect GDP estimates positively or negatively, depending on the sector. This should be taken into account when interpreting monthly, and three-month movements over recent months since May 2023.

### Revisions to Index of Production

In line with our [National Accounts Revision Policy](#), this release gives data for September 2023 for the first time with July and August 2023 also open for revision.

### Updates to monthly gross domestic product methods and data sources in Blue Book 2023

A number of changes have been made to the methods and data sources used in compiling monthly GDP and output approach to measuring GDP estimates as part of [Blue Book 2023](#).

For further information on the updates please see Section 10: Measuring the data in our [GDP monthly estimate, UK: September 2023 bulletin](#).

### Office for Statistics Regulation review of gross domestic product

The [Office for Statistics Regulation \(OSR\) completed a review](#) of the practices around the preparation and release of information about revisions to estimates of GDP in our [Impact of Blue Book 2023 article](#) released on 1 September 2023. This will cover the following:

- processes and quality assurance in making revisions to GDP
- potential improvements to early estimates of GDP enabled through enhanced access to data
- communication of revisions to GDP, the story behind the most recent set of revisions in particular, and uncertainty in early estimates of GDP

## 4 . Related links

### [GDP monthly estimate, UK: September 2023](#)

Bulletin | Released 10 November 2023

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.

### [Index of Services, UK: September 2023](#)

Bulletin | Released 10 November 2023

Movements in the volume of output for the UK services industries. Figures are seasonally adjusted.

### [Producer price inflation, UK: September 2023](#)

Bulletin | Released 18 October 2023

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: 2022 results](#)

Bulletin | Released 24 July 2023

Estimates for UK manufacturers' sales by product (ProdCom) for 2022.

### [Energy Trends and Prices: monthly data](#)

Web page | Last updated 26 October 2023

Provides statistics on energy prices and monthly production, trade and consumption of coal, electricity, gas, oil and total energy in the UK.

## 5 . Cite this statistical bulletin

Office for National Statistics (ONS), released 10 November 2023, ONS website, statistical bulletin, [Index of Production, UK: September 2023](#)



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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	77.3	721.6	110.9	90.2	64.3	66.2	197.8	264.2	243.7	219.2
	K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K24O	K24T
2018	98.3	98.2	99.5	89.0	99.8	99.2	99.6	97.8	103.1	96.0	95.4
2019	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2020	102.3	100.1	102.2	105.0	101.6	100.5	101.1	104.7	101.7	102.2	101.7
2021	98.3	76.7	103.8	71.3	106.0	73.5	106.6	113.1	103.3	97.5	77.0
2022	94.9	76.1	100.4	63.1	106.2	72.2	107.6	112.8	97.8	93.3	72.5
2022 Q3	93.9	76.4	99.2	62.5	105.5	72.6	109.2	111.4	96.7	92.3	71.9
Q4	93.9	71.9	99.8	62.3	104.9	68.5	107.0	114.4	98.2	90.0	69.9
2023 Q1	94.0	67.2	100.3	62.7	105.8	63.0	109.4	112.7	100.3	90.3	68.8
Q2	95.2	66.4	102.1	62.4	104.7	62.4	110.6	113.6	104.7	90.0	68.9
Q3	95.2	66.8	102.2	62.7	103.8	63.2	107.6	115.5	104.9	89.1	68.8
2022 Jul	94.5	80.9	99.5	62.6	105.3	78.1	108.4	111.9	96.7	92.6	73.6
Aug	93.6	74.0	99.0	62.1	105.8	69.5	111.4	109.8	96.8	92.7	70.9
Sep	93.7	74.4	99.0	62.8	105.4	70.3	107.6	112.4	96.5	91.4	71.1
Oct	94.0	72.5	100.1	61.5	103.7	68.7	106.2	116.4	97.1	90.7	69.7
Nov	93.9	74.5	99.5	61.6	105.3	71.6	107.3	113.1	98.3	90.0	70.3
Dec	93.9	68.8	99.7	63.9	105.7	65.1	107.4	113.7	99.2	89.4	69.7
2023 Jan	93.9	66.8	100.0	62.9	106.1	62.5	106.8	113.1	98.8	91.1	68.7
Feb	93.8	68.4	100.0	61.9	104.9	63.9	109.8	111.8	100.3	90.4	68.5
Mar	94.5	66.4	100.7	63.4	106.4	62.6	111.5	113.2	101.7	89.3	69.2
Apr	94.7	66.4	101.3	63.0	105.1	62.5	108.1	111.8	104.1	89.6	69.1
May	94.2	66.7	101.1	61.2	103.3	63.0	110.8	112.5	103.6	89.1	68.5
Jun	96.6	66.0	103.9	63.1	105.6	61.8	113.0	116.6	106.4	91.3	69.1
Jul	95.5	65.9 <sup>T</sup>	102.6	63.0 <sup>T</sup>	104.1	62.2	108.8	115.7 <sup>T</sup>	105.7	89.3 <sup>T</sup>	68.8 <sup>T</sup>
Aug	95.0 <sup>T</sup>	68.0	101.9 <sup>T</sup>	62.7	102.9 <sup>T</sup>	64.5 <sup>T</sup>	105.9 <sup>T</sup>	115.1	104.1 <sup>T</sup>	89.5	69.0
Sep	95.1	66.4	102.0	62.4	104.4	62.9	108.0	115.6	105.0	88.6	68.5
<b>Percentage change, latest year on previous year</b>											
2018	3.1	7.0	4.3	-5.3	1.2	7.1	1.9	8.7	2.8	3.5	-0.8
2019	1.7	1.8	0.5	12.4	0.2	0.8	0.4	2.3	-3.0	4.1	4.8
2020	2.3	0.1	2.2	5.0	1.6	0.5	1.1	4.7	1.7	2.2	1.7
2021	-3.9	-23.4	1.6	-32.1	4.4	-26.8	5.5	8.0	1.5	-4.6	-24.2
2022	-3.5	-0.7	-3.3	-11.6	0.2	-1.7	0.9	-0.3	-5.3	-4.3	-5.8
<b>Percentage change, latest month on same month a year ago</b>											
2021 Jul	-7.6	-32.0	-1.3	-40.8	6.3	-35.6	5.6	5.7	-1.1	-9.7	-31.0
Aug	-9.5	-15.1	-5.6	-41.2	2.2	-16.0	-1.3	3.5	-8.1	-12.2	-25.1
Sep	-10.8	-14.8	-7.5	-41.7	2.3	-15.9	-1.3	5.6	-12.5	-13.2	-25.9
Oct	-11.4	-17.5	-8.3	-41.7	3.0	-20.2	-8.0	10.0	-18.1	-11.9	-26.8
Nov	-10.2	-17.0	-7.5	-37.4	2.7	-20.8	-5.1	9.1	-15.9	-11.2	-24.3
Dec	-8.6	-21.6	-5.0	-33.7	-0.4	-27.0	5.5	14.1	-13.1	-11.0	-24.4
2022 Jan	-5.8	-13.1	-3.1	-28.9	1.8	-17.9	2.8	4.3	-7.9	-4.4	-17.9
Feb	-5.2	-5.5	-3.5	-24.8	0.8	-8.6	-0.7	5.2	-10.2	-4.8	-13.0
Mar	-5.0	-5.8	-3.7	-21.3	0.6	-9.4	3.8	1.5	-9.2	-3.6	-10.8
Apr	-3.7	12.4	-3.9	-19.2	3.1	14.7	-3.4	2.4	-9.4	-4.8	-3.9
May	-3.3	11.3	-3.1	-19.0	0.8	12.9	-1.3	-2.4	-5.1	-2.7	-5.6
Jun	-3.1	21.7	-4.1	-12.6	0.3	28.9	-0.7	0.4	-5.9	-6.5	-0.5
Jul	-2.4	12.6	-3.5	-3.6	-1.6	14.2	0.2	-2.2	-5.0	-2.4	1.5
Aug	-3.5	-12.9	-3.4	-0.1	-0.2	-17.4	5.6	-3.5	-5.1	-1.2	-6.5
Sep	-2.3	-7.3	-3.0	4.8	1.2	-10.2	1.0	-0.4	-4.5	-3.1	-2.4
Oct	-1.2	-6.2	-1.1	5.1	-3.0	-7.7	4.3	0.2	1.4	-4.9	-1.8
Nov	-2.8	0.8	-3.6	0.6	-1.2	2.8	-	-2.2	-1.6	-7.1	-1.4
Dec	-2.9	-6.2	-3.4	0.9	-0.6	-5.4	-0.3	-5.3	0.1	-5.5	-3.1
2023 Jan	-2.7	-13.4	-2.1	-2.4	-0.9	-13.3	-2.2	1.4	-0.9	-6.7	-7.3
Feb	-2.5	-11.3	-1.7	-3.9	-1.8	-12.2	2.1	-1.5	2.2	-5.7	-7.6
Mar	-1.6	-14.7	-0.8	0.3	-0.4	-14.1	3.2	1.4	3.4	-7.4	-6.3
Apr	-1.2	-16.0	0.3	-1.4	-3.4	-17.1	3.4	-1.3	7.5	-5.8	-8.1
May	-2.0	-16.1	-0.6	-3.5	-2.8	-16.9	4.9	-1.1	5.8	-6.8	-7.9
Jun	1.8	-14.9	3.8	0.5	-1.9	-17.2	5.2	3.9	9.2	-1.3	-5.7
Jul	1.1 <sup>T</sup>	-18.5 <sup>T</sup>	3.1	0.7 <sup>T</sup>	-1.1	-20.3	0.3	3.3 <sup>T</sup>	9.3	-3.6 <sup>T</sup>	-6.6 <sup>T</sup>
Aug	1.5	-8.2	3.0 <sup>T</sup>	0.9	-2.7 <sup>T</sup>	-7.2 <sup>T</sup>	-4.9 <sup>T</sup>	4.9	7.5 <sup>T</sup>	-3.5	-2.7
Sep	1.5	-10.6	3.0	-0.7	-1.0	-10.5	0.4	2.9	8.8	-3.1	-3.6

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

<sup>T</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	77.3	721.6	110.9	90.2	64.3	66.2	197.8	264.2	243.7	219.2	
	K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K24O	K24T	
<b>Percentage change, latest month on previous month</b>												
2021	Jul	-1.1	12.8	-1.1	-9.6	-0.3	18.0	0.1	2.4	-1.7	-4.1	-1.6
	Aug	0.1	18.4	-0.6	-4.3	-0.9	23.2	-2.5	-0.6	0.2	-1.1	4.7
	Sep	-1.1	-5.6	-0.4	-3.6	-1.7	-7.0	1.1	-0.8	-0.9	0.5	-4.0
	Oct	-0.8	-3.7	-0.8	-2.5	2.6	-4.9	-4.5	3.0	-5.4	1.0	-2.5
	Nov	1.5	-4.4	1.9	4.7	-0.4	-6.5	5.4	-0.5	4.4	1.7	0.4
	Dec	0.2	-0.8	-	3.3	-0.2	-1.2	0.3	3.9	-0.8	-2.4	0.9
2022	Jan	-0.3	5.3	-1.1	1.8	0.6	4.7	1.3	-7.1	0.5	3.2	3.1
	Feb	-0.3	-	-0.3	-0.1	-0.2	1.0	-1.4	1.8	-1.5	-1.8	0.1
	Mar	-0.3	0.8	-0.2	-1.8	0.1	0.1	0.4	-1.6	0.2	0.6	-0.4
	Apr	-0.1	1.6	-0.6	1.0	1.8	3.3	-3.2	1.4	-1.6	-1.3	1.9
	May	0.3	0.6	0.7	-0.6	-2.3	0.7	1.0	0.5	1.1	0.4	-1.2
	Jun	-1.3	-2.5	-1.6	-1.0	1.3	-1.5	1.7	-1.4	-0.5	-3.2	-1.4
	Jul	-0.4	4.3	-0.5	-0.3	-2.2	4.5	1.0	-0.3	-0.8	0.1	0.4
	Aug	-1.0	-8.5	-0.5	-0.7	0.5	-10.9	2.7	-1.9	0.1	0.1	-3.6
	Sep	0.1	0.4	-	1.1	-0.4	1.1	-3.4	2.4	-0.4	-1.4	0.2
	Oct	0.4	-2.5	1.1	-2.2	-1.6	-2.2	-1.3	3.6	0.6	-0.8	-1.9
	Nov	-0.1	2.7	-0.6	0.2	1.5	4.2	1.1	-2.8	1.3	-0.7	0.9
	Dec	-	-7.7	0.3	3.7	0.4	-9.1	-	0.6	1.0	-0.7	-0.9
2023	Jan	-	-2.9	0.3	-1.5	0.4	-4.0	-0.6	-0.6	-0.5	1.9	-1.4
	Feb	-0.1	2.4	-	-1.6	-1.1	2.3	2.9	-1.2	1.6	-0.8	-0.2
	Mar	0.7	-3.0	0.7	2.5	1.5	-2.1	1.6	1.3	1.4	-1.1	1.1
	Apr	0.3	-	0.6	-0.6	-1.2	-0.2	-3.1	-1.3	2.3	0.3	-0.1
	May	-0.5	0.4	-0.2	-2.8	-1.7	0.9	2.5	0.6	-0.4	-0.6	-1.0
	Jun	2.5	-1.1	2.7	3.1	2.2	-1.9	2.0	3.7	2.6	2.5	1.0
	Jul	-1.1	-0.1 <sup>†</sup>	-1.3 <sup>†</sup>	-0.1 <sup>†</sup>	-1.4	0.7	-3.7	-0.8 <sup>†</sup>	-0.6 <sup>†</sup>	-2.2 <sup>†</sup>	-0.5 <sup>†</sup>
	Aug	-0.5 <sup>†</sup>	3.1	-0.7	-0.5	-1.2 <sup>†</sup>	3.7 <sup>†</sup>	-2.6 <sup>†</sup>	-0.5	-1.5 <sup>†</sup>	0.2	0.4
	Sep	-	-2.2	0.1	-0.5	1.4	-2.5	2.0	0.4	0.8	-1.0	-0.7
<b>Percentage change, latest 3 months on same 3 months a year ago<sup>2</sup></b>												
2021	Jul	-0.5	-34.8	8.2	-33.5	7.5	-39.7	13.2	9.8	12.4	-0.3	-28.3
	Aug	-6.6	-29.7	-0.3	-38.7	4.8	-33.2	6.7	5.6	-0.1	-8.0	-28.9
	Sep	-9.3	-21.0	-4.9	-41.2	3.6	-22.9	0.9	4.9	-7.5	-11.7	-27.4
	Oct	-10.6	-15.8	-7.1	-41.5	2.5	-17.3	-3.6	6.3	-13.0	-12.4	-25.9
	Nov	-10.8	-16.4	-7.7	-40.3	2.6	-18.9	-4.8	8.2	-15.5	-12.1	-25.7
	Dec	-10.1	-18.7	-6.9	-37.7	1.7	-22.7	-2.7	11.0	-15.7	-11.4	-25.2
2022	Jan	-8.3	-17.3	-5.2	-33.4	1.4	-22.0	0.9	9.1	-12.4	-8.9	-22.3
	Feb	-6.6	-13.8	-3.9	-29.3	0.7	-18.3	2.4	7.8	-10.5	-6.8	-18.6
	Mar	-5.3	-8.3	-3.4	-25.2	1.0	-12.1	1.9	3.6	-9.1	-4.3	-14.0
	Apr	-4.6	-0.2	-3.7	-21.9	1.5	-2.1	-0.2	3.0	-9.6	-4.4	-9.4
	May	-4.0	5.4	-3.6	-19.8	1.5	5.0	-0.3	0.4	-7.9	-3.7	-6.8
	Jun	-3.4	14.9	-3.7	-17.1	1.4	18.4	-1.8	0.1	-6.8	-4.6	-3.4
	Jul	-2.9	15.0	-3.6	-12.2	-0.2	18.2	-0.6	-1.4	-5.3	-3.9	-1.6
	Aug	-3.0	5.4	-3.7	-5.8	-0.5	5.6	1.7	-1.8	-5.3	-3.4	-1.9
	Sep	-2.8	-3.3	-3.3	0.2	-0.2	-5.6	2.2	-2.1	-4.9	-2.2	-2.5
	Oct	-2.4	-8.9	-2.5	3.2	-0.7	-12.0	3.6	-1.3	-2.8	-3.1	-3.6
	Nov	-2.1	-4.4	-2.6	3.4	-1.0	-5.3	1.7	-0.8	-1.6	-5.0	-1.8
	Dec	-2.3	-3.9	-2.7	2.1	-1.6	-3.5	1.3	-2.5	-	-5.8	-2.1
2023	Jan	-2.8	-6.4	-3.0	-0.3	-0.9	-5.4	-0.8	-2.1	-0.8	-6.4	-4.0
	Feb	-2.7	-10.4	-2.4	-1.8	-1.1	-10.4	-0.1	-1.9	0.5	-6.0	-6.1
	Mar	-2.2	-13.1	-1.5	-2.0	-1.0	-13.2	1.0	0.4	1.6	-6.6	-7.1
	Apr	-1.8	-14.0	-0.7	-1.7	-1.9	-14.5	2.9	-0.5	4.3	-6.3	-7.3
	May	-1.6	-15.6	-0.4	-1.5	-2.2	-16.0	3.8	-0.3	5.5	-6.7	-7.4
	Jun	-0.5	-15.7	1.2	-1.5	-2.7	-17.1	4.5	0.5	7.5	-4.6	-7.2
	Jul	0.3	-16.6 <sup>†</sup>	2.1	-0.8 <sup>†</sup>	-1.9	-18.2 <sup>†</sup>	3.4	2.0	8.1	-3.9 <sup>†</sup>	-6.7 <sup>†</sup>
	Aug	1.5 <sup>†</sup>	-14.0	3.3	0.7	-1.9 <sup>†</sup>	-15.2	0.1 <sup>†</sup>	4.0 <sup>†</sup>	8.7	-2.8	-5.0
	Sep	1.4	-12.6	3.0	0.3	-1.6	-12.9	-1.4	3.7	8.5	-3.4	-4.3

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.

<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	77.3	721.6	110.9	90.2	64.3	66.2	197.8	264.2	243.7	219.2	
	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>												
2021	Jul	-2.6	-11.7	-1.1	-12.2	0.6	-14.3	0.8	4.4	-4.9	-2.9	-8.7
	Aug	-2.7	-1.7	-1.7	-16.3	1.0	-1.3	0.8	0.8	-3.5	-3.5	-7.4
	Sep	-2.4	15.4	-2.1	-18.4	-0.3	21.0	-0.9	0.6	-2.8	-4.7	-4.1
	Oct	-2.1	17.2	-2.2	-16.0	-0.8	22.5	-2.9	-	-3.2	-2.9	-2.3
	Nov	-1.4	4.9	-1.2	-9.7	-0.8	5.6	-1.9	1.3	-3.5	-0.4	-3.1
	Dec	-0.5	-5.3	-0.1	-2.2	0.8	-7.8	-1.1	3.1	-3.3	1.3	-3.2
2022	Jan	0.6	-7.5	0.9	4.6	0.9	-11.2	3.3	1.3	-	2.0	-1.1
	Feb	0.6	-1.7	0.2	6.9	0.8	-3.9	2.7	0.1	0.1	0.5	2.4
	Mar	-	3.4	-0.7	4.9	0.3	2.3	2.5	-4.3	0.5	1.1	3.7
	Apr	-0.6	4.3	-1.4	1.3	0.8	5.0	-1.2	-2.5	-1.8	-0.6	2.8
	May	-0.5	3.9	-0.9	-0.8	0.6	4.9	-1.9	-1.9	-1.3	-0.3	1.5
	Jun	-0.6	1.8	-0.9	-1.0	0.6	3.7	-2.2	0.8	-1.4	-2.3	0.3
	Jul	-0.9	1.7	-1.0	-1.4	-1.0	3.4	0.4	-0.1	-0.5	-2.4	-0.9
	Aug	-1.7	-1.7	-1.9	-1.5	-1.0	-0.8	2.8	-1.4	-0.7	-3.3	-2.5
	Sep	-1.8	-2.9	-1.7	-1.3	-1.9	-3.5	3.1	-1.5	-0.7	-2.3	-3.3
	Oct	-1.5	-7.2	-1.1	-1.3	-1.3	-8.8	1.2	0.1	-0.6	-2.1	-4.3
	Nov	-0.5	-4.8	-	-0.9	-1.4	-5.3	-1.9	2.3	0.3	-2.0	-3.1
	Dec	-	-5.9	0.6	-0.3	-0.6	-5.7	-2.0	2.7	1.6	-2.4	-2.7
2023	Jan	0.1	-4.9	0.4	1.0	0.7	-4.5	-1.2	0.4	2.0	-1.6	-1.5
	Feb	-	-7.8	0.4	1.4	0.7	-9.0	0.9	-0.9	2.2	-0.5	-2.0
	Mar	0.1	-6.6	0.5	0.6	0.8	-8.0	2.3	-1.5	2.1	0.3	-1.6
	Apr	0.5	-4.2	0.9	-0.1	-0.2	-5.1	2.5	-0.9	3.3	-0.4	-0.8
	May	0.6	-2.2	1.1	-0.5	-0.6	-1.8	2.0	-0.3	3.7	-1.0	-
	Jun	1.2	-1.2	1.9	-0.4	-1.1	-0.9	1.1	0.8	4.4	-0.3	0.2
	Jul	1.2	-1.3	1.9	-0.4 <sup>†</sup>	-1.1	-1.0	0.9	2.4 <sup>†</sup>	3.1	0.2	-0.2 <sup>†</sup>
	Aug	1.3 <sup>†</sup>	0.2	1.7	0.7	-0.7 <sup>†</sup>	0.3 <sup>†</sup>	-0.8	2.9	2.2	0.8	-
	Sep	-	0.6	0.1	0.4	-0.8	1.3	-2.8	1.6	0.2	-1.0	-0.2

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.

<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	115.8	23.9	48.0	12.6	44.2	49.8
	K22B	K22P	K22T	K22X	K22Z	K239
2018	99.9	88.9	98.1	123.0	87.3	94.6
2019	100.0	100.0	100.0	100.0	100.0	100.0
2020	103.4	66.7	89.3	85.6	101.9	120.2
2021	114.4	119.2	92.5	82.4	90.8	121.9
2022	116.8	127.3	88.3	87.3	86.9	116.3
2022 Q3	116.3	127.4	87.1	80.8	85.6	111.7
Q4	115.1	125.4	84.4	81.1	80.9	129.1
2023 Q1	115.2	122.5	82.8	85.3	80.4	121.5
Q2	115.7	120.8	83.0	89.7	78.7	125.0
Q3	117.1	119.0	83.7	83.5	79.7	128.0
2022 Jul	117.2	126.5	89.0	80.8	85.2	111.0
Aug	116.9	128.0	86.7	81.6	86.8	104.1
Sep	114.9	127.5	85.5	79.9	84.8	120.0
Oct	115.1	124.9	85.7	81.3	83.2	135.7
Nov	115.6	125.3	84.2	81.7	80.8	123.6
Dec	114.7	125.8	83.3	80.5	78.8	128.1
2023 Jan	115.3	125.4	83.2	82.8	82.2	121.1
Feb	115.4	122.1	82.6	84.4	79.5	118.9
Mar	115.0	119.9	82.6	88.6	79.5	124.4
Apr	114.2	118.8	83.5	90.2	78.6	121.9
May	115.7	119.8	82.0	91.4	78.1	121.4
Jun	117.3	123.9	83.5	87.5	79.5	131.8
Jul	117.1 <sup>†</sup>	117.8 <sup>†</sup>	84.4 <sup>†</sup>	83.9 <sup>†</sup>	79.7	128.6 <sup>†</sup>
Aug	116.6	119.7	84.0	84.4	79.1 <sup>†</sup>	128.0
Sep	117.6	119.6	82.6	82.2	80.2	127.4

## Percentage change, latest year on previous year<sup>1</sup>

2018	13.0	1.8	4.0	-14.9	9.0	2.9
2019	0.1	12.5	1.9	-18.7	14.5	5.7
2020	3.4	-33.3	-10.7	-14.4	1.9	20.2
2021	10.7	78.6	3.7	-3.7	-10.9	1.4
2022	2.1	6.8	-4.6	5.9	-4.3	-4.6

## Percentage change, latest month on same month a year ago

2021 Jul	9.8	85.3	2.2	10.7	-12.1	-5.5
Aug	8.5	78.8	-1.7	14.7	-14.4	-6.4
Sep	8.1	80.0	0.7	-4.3	-15.0	-1.8
Oct	9.2	74.8	4.6	-1.0	-12.6	11.7
Nov	9.1	65.4	-0.8	7.4	-12.9	10.9
Dec	8.5	47.9	-0.9	5.3	-4.2	27.5
2022 Jan	10.6	46.9	0.9	16.0	0.9	-10.0
Feb	8.1	35.0	1.2	28.2	-0.6	-1.9
Mar	7.0	22.1	1.0	34.0	1.5	-11.4
Apr	2.0	15.9	-6.1	23.8	-4.1	5.1
May	2.2	6.1	-4.6	14.8	0.4	-11.6
Jun	0.3	-2.8	-4.6	-4.2	-7.1	1.2
Jul	0.8	1.6	-3.7	-6.9	-4.6	-10.1
Aug	0.8	0.2	-3.8	-6.4	-1.1	-14.0
Sep	-1.1	-2.8	-6.7	-0.7	-2.7	3.3
Oct	-1.4	-5.4	-9.6	-1.0	-7.2	6.6
Nov	-1.5	-7.3	-9.0	-7.5	-10.9	-0.6
Dec	-1.5	-2.8	-9.7	-6.9	-15.7	-9.2
2023 Jan	-1.9	-3.7	-9.8	-6.8	-14.8	11.8
Feb	-1.8	-3.0	-11.0	-8.5	-13.6	1.9
Mar	-2.6	-7.5	-10.6	-8.3	-12.2	15.5
Apr	-3.3	-9.7	-7.6	-7.4	-12.2	9.2
May	-2.7	-6.8	-9.1	-6.1	-13.4	5.9
Jun	0.1	0.1	-4.2	-2.8	-6.5	15.9
Jul	-0.1 <sup>†</sup>	-6.9 <sup>†</sup>	-5.2 <sup>†</sup>	3.8 <sup>†</sup>	-6.4	15.9 <sup>†</sup>
Aug	-0.3	-6.5	-3.1	3.4	-8.9 <sup>†</sup>	23.0
Sep	2.4	-6.2	-3.4	2.8	-5.4	6.2

<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

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

continued

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	52.4	80.8	50.4	18.4	57.2	101.2	66.8
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z
2018	98.7	103.7	99.4	86.0	109.4	102.9	101.2
2019	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2020	100.2	107.6	103.9	135.2	104.7	99.7	98.8
2021	103.8	93.5	106.8	94.1	107.1	100.4	102.8
2022	99.9	87.7	107.4	80.0	94.5	93.3	102.8
2022 Q3	99.1	86.5	109.2	79.0	92.5	90.8	103.2
Q4	97.5	84.6	108.6	78.1	92.1	94.4	103.2
2023 Q1	97.6	88.4	111.4	77.1	93.1	96.4	105.4
Q2	94.6	90.1	113.9	80.4	92.7	105.0	107.5
Q3	86.6	92.6	111.9	85.8	92.7	107.4	104.1
2022 Jul	100.4	86.7	107.6	78.3	93.7	91.6	103.1
Aug	99.6	86.7	111.4	79.9	92.4	89.8	104.1
Sep	97.3	86.0	108.6	79.0	91.4	90.9	102.4
Oct	98.2	84.9	107.4	78.8	91.1	93.0	102.5
Nov	96.8	84.9	108.8	78.0	91.8	94.8	103.4
Dec	97.5	84.1	109.7	77.5	93.5	95.4	103.8
2023 Jan	99.1	88.0	108.4	80.8	92.4	94.5	105.0
Feb	98.5	87.9	111.8	74.6	93.8	96.3	105.4
Mar	95.2	89.3	114.1	75.9	93.2	98.3	105.9
Apr	94.5	89.2	109.8	79.6	94.6	103.9	108.4
May	93.4	89.9	114.5	77.2	92.1	102.7	106.6
Jun	95.9	91.2	117.4	84.5	91.5	108.3	107.4
Jul	88.0	92.3 <sup>†</sup>	113.4	86.0 <sup>†</sup>	93.7 <sup>†</sup>	106.8 <sup>†</sup>	106.2 <sup>†</sup>
Aug	87.0 <sup>†</sup>	93.1	109.7	85.1	91.0	108.2	103.1
Sep	84.8	92.3	112.7	86.4	93.4	107.3	102.9
<b>Percentage change, latest year on previous year</b>							
2018	5.2	0.3	1.0	-0.5	10.1	-1.5	4.7
2019	1.3	-3.6	0.6	16.3	-8.6	-2.8	-1.2
2020	0.2	7.6	3.9	35.2	4.7	-0.3	-1.2
2021	3.6	-13.1	2.8	-30.4	2.3	0.6	4.0
2022	-3.8	-6.2	0.5	-15.0	-11.8	-7.0	-
<b>Percentage change, latest month on same month a year ago</b>							
2021 Jul	-3.4	-16.8	2.1	-43.1	-5.2	-1.2	4.5
Aug	-7.9	-19.2	-3.3	-47.8	-13.0	-9.4	-2.1
Sep	-7.2	-23.3	-3.8	-46.1	-14.9	-19.1	-1.6
Oct	-5.4	-24.8	-10.5	-43.7	-30.6	-22.0	-0.5
Nov	-4.2	-21.9	-5.8	-43.8	-25.9	-21.1	-2.2
Dec	-9.1	-22.8	8.1	-28.4	-30.1	-16.4	-3.2
2022 Jan	-4.0	-13.3	2.7	-29.9	-12.7	-12.7	-2.7
Feb	-5.6	-10.2	-4.5	-28.8	-14.3	-15.4	0.5
Mar	-7.3	-8.7	1.3	-22.2	-18.5	-13.0	2.2
Apr	-4.5	-6.8	-6.6	-21.9	-17.6	-8.4	-2.2
May	1.7	-7.2	-4.1	-19.0	-12.7	-1.1	-1.6
Jun	-2.3	-9.3	-1.3	-10.7	-12.1	-6.6	-1.3
Jul	-0.7	-2.7	1.6	-9.0	-9.0	-8.0	-1.6
Aug	-0.9	-1.9	5.9	-2.7	-11.1	-11.0	2.6
Sep	-4.8	-1.9	3.5	-3.2	-15.6	-5.7	0.2
Oct	-5.4	-1.6	7.1	-3.4	-1.7	0.9	-0.5
Nov	-9.0	-4.3	1.0	-3.8	-9.2	-	1.2
Dec	-2.0	-4.3	0.8	-8.6	-3.4	0.3	3.5
2023 Jan	-1.9	-2.8	-0.9	-4.5	-9.4	1.0	3.7
Feb	-0.9	-3.4	5.9	-9.1	-3.8	3.3	1.5
Mar	-5.3	-2.2	7.1	-9.2	-2.1	4.0	2.3
Apr	-7.1	-1.0	6.4	-1.2	1.1	9.8	7.7
May	-10.9	1.5	9.9	-1.9	-4.3	8.1	4.3
Jun	-5.0	4.6	10.7	6.6	-4.0	16.1	4.2
Jul	-12.3	6.4 <sup>†</sup>	5.4	9.8 <sup>†</sup>	- <sup>†</sup>	16.6 <sup>†</sup>	3.1
Aug	-12.7 <sup>†</sup>	7.4	-1.5	6.5	-1.5	20.5	-1.0 <sup>†</sup>
Sep	-12.9	7.3	3.8	9.4	2.2	17.9	0.4

<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	115.8	23.9	48.0	12.6	44.2	49.8
	K22B	K22P	K22T	K22X	K22Z	K239

## Percentage change, latest month on previous month

2021	Jul	-0.5	-2.2	1.2	-7.7	-2.4	9.7
	Aug	-0.3	2.6	-2.6	0.4	-1.6	-1.9
	Sep	0.1	2.7	1.7	-7.7	-0.8	-4.0
	Oct	0.5	0.6	3.5	2.0	2.9	9.6
	Nov	0.6	2.4	-2.4	7.6	1.1	-2.3
	Dec	-0.8	-4.2	-0.3	-2.1	3.2	13.5
2022	Jan	1.0	0.5	0.1	2.8	3.2	-23.3
	Feb	-0.1	-3.3	0.5	3.8	-4.7	7.8
	Mar	0.5	3.0	-0.4	4.7	-1.6	-7.6
	Apr	0.1	1.5	-2.1	0.9	-1.1	3.6
	May	0.6	-2.3	-0.2	-0.2	0.7	2.6
	Jun	-1.4	-3.7	-3.4	-7.5	-5.8	-0.7
	Jul	-	2.2	2.1	-10.3	0.2	-2.5
	Aug	-0.2	1.2	-2.7	1.0	2.0	-6.2
	Sep	-1.7	-0.4	-1.3	-2.1	-2.3	15.3
	Oct	0.2	-2.0	0.2	1.7	-1.8	13.0
	Nov	0.5	0.3	-1.8	0.5	-3.0	-8.9
	Dec	-0.8	0.4	-1.0	-1.5	-2.4	3.7
2023	Jan	0.5	-0.3	-0.1	2.9	4.3	-5.5
	Feb	0.1	-2.7	-0.8	2.0	-3.3	-1.8
	Mar	-0.4	-1.8	-	4.9	0.1	4.7
	Apr	-0.7	-1.0	1.2	1.9	-1.1	-2.0
	May	1.3	0.9	-1.8	1.3	-0.7	-0.4
	Jun	1.4	3.4	1.9	-4.2	1.7	8.6
	Jul	-0.2 <sup>†</sup>	-4.9 <sup>†</sup>	1.1 <sup>†</sup>	-4.2 <sup>†</sup>	0.3	-2.5 <sup>†</sup>
	Aug	-0.4	1.7	-0.6	0.6	-0.8 <sup>†</sup>	-0.4
	Sep	0.9	-0.1	-1.7	-2.6	1.4	-0.5

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

2021	Jul	15.0	124.8	11.8	14.0	-10.0	-5.6
	Aug	11.2	92.8	2.8	15.3	-11.7	-8.2
	Sep	8.8	81.3	0.4	6.7	-13.8	-4.6
	Oct	8.6	77.8	1.2	2.8	-14.0	0.8
	Nov	8.8	73.1	1.5	0.7	-13.5	6.8
	Dec	8.9	62.0	0.9	3.9	-10.0	16.6
2022	Jan	9.4	53.1	-0.3	9.4	-5.6	8.9
	Feb	9.0	43.1	0.4	16.0	-1.3	4.6
	Mar	8.5	33.9	1.0	25.9	0.6	-7.8
	Apr	5.6	23.7	-1.4	28.5	-1.1	-3.1
	May	3.7	14.4	-3.3	23.7	-0.8	-6.6
	Jun	1.5	6.0	-5.1	10.6	-3.6	-2.4
	Jul	1.1	1.5	-4.3	1.0	-3.8	-7.2
	Aug	0.6	-0.3	-4.0	-5.8	-4.3	-7.9
	Sep	0.2	-0.3	-4.7	-4.8	-2.8	-7.1
	Oct	-0.5	-2.7	-6.7	-2.8	-3.7	-1.3
	Nov	-1.3	-5.2	-8.5	-3.2	-7.0	3.1
	Dec	-1.5	-5.2	-9.5	-5.2	-11.3	-1.4
2023	Jan	-1.6	-4.6	-9.5	-7.0	-13.8	-0.3
	Feb	-1.7	-3.2	-10.2	-7.4	-14.7	0.5
	Mar	-2.1	-4.7	-10.5	-7.8	-13.6	9.5
	Apr	-2.6	-6.8	-9.7	-8.0	-12.7	8.7
	May	-2.9	-8.0	-9.1	-7.2	-12.6	10.1
	Jun	-2.0	-5.5	-7.0	-5.5	-10.8	10.3
	Jul	-0.9 <sup>†</sup>	-4.6	-6.2 <sup>†</sup>	-2.0 <sup>†</sup>	-8.8	12.5
	Aug	-0.1	-4.5 <sup>†</sup>	-4.2	1.3	-7.3 <sup>†</sup>	18.1
	Sep	0.7	-6.5	-3.9	3.4	-6.9	14.6

<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	52.4	80.8	50.4	18.4	57.2	101.2	66.8
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z
<b>Percentage change, latest month on previous month</b>							
2021 Jul	-2.2	-7.3	-1.5	-3.2	-5.0	-0.3	0.3
Aug	-0.6	-0.8	-0.7	-4.5	0.9	1.4	-3.2
Sep	1.8	-0.8	-0.2	-0.6	4.3	-4.4	0.8
Oct	1.5	-1.6	-4.4	-0.1	-14.5	-4.5	0.7
Nov	2.4	2.9	7.4	-0.6	9.0	2.9	-0.7
Dec	-6.4	-0.9	1.0	4.7	-4.2	0.2	-1.9
2022 Jan	1.6	2.9	0.5	-0.3	5.5	-1.6	1.0
Feb	-1.7	0.6	-3.5	-3.0	-4.5	-0.3	2.6
Mar	1.2	0.4	1.0	1.8	-2.3	1.4	-0.3
Apr	1.2	-1.3	-3.2	-3.6	-1.7	0.1	-2.8
May	3.1	-1.8	0.9	-2.2	2.9	0.4	1.5
Jun	-3.7	-1.4	1.9	0.7	-1.0	-1.8	0.9
Jul	-0.6	-0.6	1.4	-1.3	-1.7	-1.8	-
Aug	-0.8	-	3.5	2.0	-1.4	-2.0	1.0
Sep	-2.3	-0.8	-2.5	-1.1	-1.1	1.3	-1.6
Oct	0.9	-1.3	-1.1	-0.2	-0.3	2.3	-
Nov	-1.4	0.1	1.3	-1.0	0.8	1.9	0.9
Dec	0.8	-0.9	0.8	-0.6	1.9	0.6	0.4
2023 Jan	1.6	4.5	-1.2	4.3	-1.1	-0.9	1.2
Feb	-0.7	-	3.2	-7.7	1.5	1.9	0.4
Mar	-3.3	1.6	2.1	1.7	-0.6	2.1	0.5
Apr	-0.8	-0.1	-3.8	4.9	1.5	5.7	2.4
May	-1.2	0.7	4.2	-3.0	-2.6	-1.2	-1.7
Jun	2.7	1.5	2.6	9.5	-0.7	5.5	0.8
Jul	-8.3 <sup>†</sup>	1.2 <sup>†</sup>	-3.5 <sup>†</sup>	1.7 <sup>†</sup>	2.4 <sup>†</sup>	-1.5 <sup>†</sup>	-1.1
Aug	-1.1	0.9	-3.2	-1.1	-2.9	1.3	-2.9 <sup>†</sup>
Sep	-2.5	-0.9	2.8	1.6	2.7	-0.9	-0.2
<b>Percentage change, latest 3 months on same 3 months a year ago</b>							
2021 Jul	10.0	-7.7	6.0	-35.7	14.2	18.7	15.1
Aug	-1.7	-14.9	2.3	-43.2	-4.2	0.7	6.0
Sep	-6.2	-19.8	-1.7	-45.7	-11.3	-10.4	0.2
Oct	-6.8	-22.5	-5.9	-45.9	-19.8	-17.0	-1.4
Nov	-5.6	-23.3	-6.7	-44.5	-23.9	-20.7	-1.4
Dec	-6.2	-23.2	-3.1	-39.3	-28.8	-19.9	-2.0
2022 Jan	-5.8	-19.5	1.4	-34.6	-23.4	-16.9	-2.7
Feb	-6.3	-15.7	1.9	-29.1	-19.7	-14.9	-1.8
Mar	-5.7	-10.8	-0.2	-27.1	-15.2	-13.7	-
Apr	-5.8	-8.6	-3.4	-24.4	-16.8	-12.3	0.1
May	-3.5	-7.6	-3.2	-21.1	-16.3	-7.7	-0.6
Jun	-1.7	-7.7	-4.0	-17.5	-14.2	-5.4	-1.7
Jul	-0.4	-6.5	-1.3	-13.2	-11.3	-5.3	-1.5
Aug	-1.3	-4.7	2.1	-7.6	-10.8	-8.6	-0.1
Sep	-2.1	-2.1	3.7	-5.1	-12.0	-8.3	0.4
Oct	-3.7	-1.8	5.5	-3.1	-9.9	-5.5	0.8
Nov	-6.4	-2.6	3.8	-3.4	-9.2	-1.7	0.3
Dec	-5.5	-3.4	2.8	-5.3	-4.8	0.4	1.4
2023 Jan	-4.4	-3.8	0.3	-5.7	-7.4	0.4	2.8
Feb	-1.6	-3.5	1.9	-7.4	-5.6	1.5	2.9
Mar	-2.7	-2.8	4.0	-7.6	-5.2	2.8	2.5
Apr	-4.4	-2.2	6.5	-6.6	-1.6	5.7	3.8
May	-7.8	-0.6	7.8	-4.2	-1.8	7.3	4.7
Jun	-7.7	1.7	9.0	1.1	-2.4	11.3	5.4
Jul	-9.4	4.2 <sup>†</sup>	8.6 <sup>†</sup>	4.8 <sup>†</sup>	-2.8 <sup>†</sup>	13.5	3.9
Aug	-10.0 <sup>†</sup>	6.1	4.8	7.6	-1.9	17.7 <sup>†</sup>	2.1 <sup>†</sup>
Sep	-12.6	7.0	2.5	8.6	0.2	18.3	0.9

1 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	115.8	23.9	48.0	12.6	44.2	49.8	
	K22B	K22P	K22T	K22X	K22Z	K239	
<b>Percentage change, latest 3 months on previous 3 months</b>							
2021	Jul	4.4	19.3	-0.3	19.3	-1.7	5.4
	Aug	1.9	11.4	-3.0	13.8	-1.4	-0.2
	Sep	-0.2	5.9	-2.9	-1.2	-3.8	3.5
	Oct	-0.2	4.8	-0.7	-6.0	-2.2	-0.3
	Nov	0.3	5.0	1.8	-6.4	-0.4	3.1
	Dec	0.6	3.5	2.0	0.9	3.6	8.9
2022	Jan	0.8	1.0	0.2	5.5	6.0	2.5
	Feb	0.4	-3.3	-0.6	6.6	5.4	-0.5
	Mar	0.8	-2.8	-0.8	8.1	1.9	-15.3
	Apr	0.7	-2.0	-0.6	8.6	-3.0	-10.1
	May	1.0	1.1	-1.6	8.9	-4.1	-8.8
	Jun	0.3	-0.5	-3.4	2.6	-5.1	2.2
	Jul	-0.1	-2.1	-3.3	-6.3	-4.3	1.0
	Aug	-1.1	-2.9	-3.7	-13.3	-4.9	-1.6
	Sep	-1.5	-0.4	-2.5	-14.9	-3.0	-1.5
	Oct	-1.8	0.5	-3.2	-9.4	-2.1	6.0
	Nov	-1.6	-0.1	-2.9	-3.8	-3.2	15.4
	Dec	-1.0	-1.6	-3.1	0.5	-5.4	15.6
2023	Jan	-0.3	-1.1	-2.8	0.9	-5.1	3.6
	Feb	-	-1.2	-2.4	2.0	-3.3	-3.0
	Mar	0.1	-2.3	-1.9	5.1	-0.7	-5.9
	Apr	-0.3	-4.2	-0.8	7.5	-1.7	-2.0
	May	-0.1	-4.0	-0.4	9.1	-1.8	-0.1
	Jun	0.4	-1.3	0.3	5.2	-2.1	2.9
	Jul	1.6 <sup>†</sup>	0.2 <sup>†</sup>	0.5 <sup>†</sup>	-0.2 <sup>†</sup>	-0.1	4.5
	Aug	1.8	0.8	1.5	-5.3	0.9 <sup>†</sup>	5.6
	Sep	1.2	-1.5	0.8	-7.0	1.2	2.4

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# 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	52.4	80.8	50.4	18.4	57.2	101.2	66.8
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z

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

2021	Jul	-4.0	-5.8	-1.3	-16.5	-6.5	-8.3	1.8
	Aug	-4.1	-6.3	-1.8	-16.5	-7.5	-2.5	0.8
	Sep	-2.9	-8.0	-3.3	-13.6	-5.1	-0.7	-0.9
	Oct	-0.3	-6.6	-3.6	-9.9	-5.2	-2.0	-2.1
	Nov	2.5	-4.0	-1.7	-5.0	-4.2	-5.6	-1.1
	Dec	1.9	-0.8	0.3	-0.9	-7.8	-5.0	-1.0
2022	Jan	0.1	1.9	5.0	2.2	-1.6	-2.1	-1.0
	Feb	-4.0	2.6	3.4	3.0	-1.9	-0.5	-0.6
	Mar	-2.8	3.8	1.4	1.1	1.5	-0.2	1.1
	Apr	-1.8	2.0	-3.3	-1.8	-4.5	-0.4	1.4
	May	2.4	0.2	-3.0	-3.5	-3.8	0.8	0.3
	Jun	2.2	-2.5	-2.5	-4.7	-3.3	0.5	-0.9
	Jul	1.5	-3.7	0.8	-4.0	-0.4	-0.9	0.1
	Aug	-2.0	-3.5	3.5	-2.2	-1.3	-3.3	1.2
	Sep	-3.3	-2.4	4.5	-0.6	-2.7	-3.7	1.2
	Oct	-3.6	-1.9	3.0	0.5	-3.7	-2.2	0.2
	Nov	-2.9	-1.9	-	-0.7	-2.5	1.5	-0.6
	Dec	-1.6	-2.1	-0.5	-1.2	-0.4	4.0	-
2023	Jan	-0.6	-0.2	-0.2	-0.5	1.1	4.0	1.0
	Feb	1.0	1.6	1.5	-1.2	2.0	2.7	1.9
	Mar	0.1	4.4	2.6	-1.3	1.1	2.1	2.2
	Apr	-1.8	3.7	2.7	-2.7	1.4	4.9	2.4
	May	-4.1	3.2	2.6	-0.1	0.1	6.6	2.1
	Jun	-3.1	2.0	2.2	4.3	-0.4	8.9	1.9
	Jul	-3.8	2.6 <sup>†</sup>	2.8	7.7 <sup>†</sup>	-1.5 <sup>†</sup>	6.4	0.2
	Aug	-4.3 <sup>†</sup>	3.1	0.6	9.9	-1.4	6.0 <sup>†</sup>	-1.3 <sup>†</sup>
	Sep	-8.4	2.7	-1.7	6.7	-0.1	2.3	-3.2

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