

Statistical bulletin

Index of Production, UK: November 2023

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

Contact:
John Allcoat
indexofproduction@ons.gov.uk
[+44 1633 456616](tel:+441633456616)

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1 . Main points

- Production output growth in the three months to November 2023 was estimated to have fallen by 1.5% when compared with the three months to August 2023.
- At the section level, in the three months to November 2023 there were falls in "manufacturing" and "mining and quarrying" of 1.9% each; this was partially offset by a rise in "electricity and gas" (1.0%).
- Monthly production output is estimated to have risen by 0.3% in November 2023; this follows a revised fall of 1.3% in October 2023 (revised down by 0.5 percentage points).
- The monthly increase in output for November 2023 resulted from a rise in three of the four production sectors, with "manufacturing" being the main contributor to the monthly rise (0.4%) and a smaller positive contribution from "mining and quarrying" (1.3%) and "electricity and gas" (0.2%); this is partially offset by a fall in "water supply and sewerage" (1.0%).
- Monthly manufacturing output rose by 0.4% in November 2023 following four consecutive monthly falls; there were increases in 9 of its 13 sub-sectors during November 2023.
- The largest contributing manufacturing sub-sectors to the monthly rise in November 2023 were "manufacture of basic pharmaceutical products and pharmaceutical preparations" and "manufacture of food products, beverages and tobacco", which increased by 4.8% and 1.4%, respectively.
- Further analysis of the effect on our monthly Index of Production (IoP) estimate is available in our [Gross domestic product \(GDP\) monthly estimate, UK: November 2023 bulletin](#), published 12 January 2024.

2 . Index of Production (IoP) data

[Index of Production time series](#)

Dataset DIOP | Released 12 January 2024

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 January 2024

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 January 2024

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 January 2024

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 12 January 2024

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) Monthly Business Survey (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 article](#).

A comprehensive list of the IoP source data can be found in our [Gross domestic product \(GDP\) data sources catalogue \(XLS, 1.9MB\)](#).

Response rates for November 2023

For November 2023, the response rates were 72.3% based on forms returned and this accounted for 79.5% of total turnover coverage of the sample population. Historical information can be found in our [IoP response rates](#).

Quality and methodology

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 \(QMI\)](#).

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 IoP

In line with the [National Accounts Revision Policy](#), this release gives data for November 2023, with October 2023 also open for revision.

We have also included revisions to the monthly data from January 2022 to September 2023 as a result of revisions incorporated in the [GDP quarterly National Accounts, UK: July to September 2023](#) release published on 22 December 2023.

Updates to monthly GDP 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 9: Measuring the data in the [GDP monthly estimate, UK: November 2023 bulletin](#).

Office for Statistics Regulation review of GDP

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

We have already started work looking into the [recommendations of this review](#) and will set out plans more fully during January 2024.

4 . Related links

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

Bulletin | Released 12 January 2024

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: November 2023](#)

Bulletin | Released 12 January 2024

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

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

Bulletin | Released 20 December 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 21 December 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 12 January 2024, ONS website, statistical bulletin, [Index of Production, UK: November 2023](#)

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IOP5 Output of the Production Industries

Chained volume indices of gross value added¹

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	95.0 ^T	75.9 ^T	100.4	63.4 ^T	106.4 ^T	72.1 ^T	107.3 ^T	113.1 ^T	97.5 ^T	93.3	72.7 ^T
2022 Q3	94.1 ^T	76.2 ^T	99.3 ^T	63.2 ^T	106.1 ^T	72.4 ^T	109.3 ^T	111.6 ^T	96.7	92.3	72.2 ^T
2022 Q4	94.1	71.9	99.9	62.5	105.2	68.5	107.0	115.1	98.0 ^T	90.1 ^T	70.1
2023 Q1	94.1	66.7	100.4	63.5	105.4	62.5	109.1	113.2	100.3	90.1	69.0
2023 Q2	95.0	66.2	102.1	62.0	103.7	62.4	109.9	114.1	104.5	89.7	68.5
2023 Q3	95.1	66.4	102.2	63.2	102.5	62.8	107.0	115.5	105.0	89.0	68.8
2022 Sep	93.8 ^T	74.7 ^T	99.1 ^T	63.5 ^T	105.8 ^T	70.6 ^T	106.9 ^T	112.7 ^T	96.4 ^T	91.4	71.6 ^T
2022 Oct	94.2	72.5	100.2	61.9	104.1	68.8	106.2	117.1	96.5	90.8 ^T	70.0
2022 Nov	94.0	74.5	99.6	61.9	105.8	71.6	107.5	113.8	98.0	90.1	70.5
2022 Dec	94.1	68.8	100.0	63.8	105.6	65.2	107.3	114.4	99.5	89.3	69.6
2023 Jan	94.0	65.3	100.2	63.6	105.8	60.8	106.7	113.6	98.9	91.1	68.5
2023 Feb	93.9	68.4	100.1	62.6	104.2	64.0	109.6	112.2	100.4	90.2	68.8
2023 Mar	94.6	66.3	100.7	64.5	106.1	62.7	111.1	113.8	101.7	89.0	69.7
2023 Apr	94.7	66.4	101.3	63.6	104.5	62.5	107.4	112.5	103.9	89.4	69.4
2023 May	93.9	66.6	100.8	60.7	102.3	62.9	109.9	112.7	103.2	88.7	68.0
2023 Jun	96.4	65.7	104.0	61.8	104.1	61.7	112.3	117.2	106.4	91.2	68.2
2023 Jul	95.4	65.7	102.7	62.2	102.8	62.0	108.2	116.1	105.8	89.4	68.1
2023 Aug	95.0	67.8	102.1	62.7	101.8	64.4	105.2	115.1	104.5	89.6	68.9
2023 Sep	94.9	65.6	101.7	64.8	102.8	61.9	107.5	115.5	104.5	88.1	69.3
2023 Oct	93.7	64.6	100.4	61.8	103.6	60.3	105.7	113.7	103.8	86.7	67.4
2023 Nov	93.9	65.4	100.8	62.0	102.5	61.7	106.6	116.4	103.0	86.8	67.8
Percentage change, latest year on previous year											
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	-3.4 ^T	-1.0 ^T	-3.3	-11.2 ^T	0.3 ^T	-1.9 ^T	0.7 ^T	- ^T	-5.6 ^T	-4.3	-5.6 ^T
Percentage change, latest month on same month a year ago											
2021 Sep	-10.8	-14.8	-7.5	-41.7	2.3	-15.9	-1.3	5.6	-12.5	-13.2	-25.9
2021 Oct	-11.4	-17.5	-8.3	-41.7	3.0	-20.2	-8.0	10.0	-18.1	-11.9	-26.8
2021 Nov	-10.2	-17.0	-7.5	-37.4	2.7	-20.8	-5.1	9.1	-15.9	-11.2	-24.3
2021 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	-5.9 ^T	-13.6 ^T	-3.1	-28.8 ^T	1.5 ^T	-18.4 ^T	2.7 ^T	4.4 ^T	-8.0 ^T	-4.3 ^T	-18.0 ^T
2022 Feb	-5.3	-5.6	-3.5	-24.7	0.5	-8.7	-1.0	5.3	-10.4	-4.8	-13.0
2022 Mar	-5.1	-6.1	-3.8 ^T	-21.1	0.3	-9.6	3.2	1.6	-9.6	-3.7	-10.7
2022 Apr	-3.9	12.2	-4.2	-18.8	2.6	14.7	-4.0	2.5	-10.0	-4.9	-3.7
2022 May	-3.6	10.9	-3.5	-19.4	0.9	12.5	-2.3	-2.3	-6.0	-2.8	-5.9
2022 Jun	-2.9	21.3	-4.1	-11.3	0.7	28.4	-1.1	0.9	-6.4	-6.2	0.1
2022 Jul	-2.4	12.9	-3.8	-2.5	-0.8	14.5	0.3	-2.0	-5.9	-2.5	2.2
2022 Aug	-3.1	-14.2	-3.0	0.7	0.3	-18.8	6.5	-3.5	-4.0	-1.1	-6.6
2022 Sep	-2.1	-7.0	-2.9	5.9	1.6	-9.9	0.3	-0.1	-4.7	-3.2	-1.6
2022 Oct	-1.0	-6.1	-1.0	5.7	-2.6	-7.6	4.3	0.8	0.9	-4.7	-1.4
2022 Nov	-2.6	0.8	-3.5	1.0	-0.6	2.9	0.2	-1.6	-1.9	-7.0	-1.0
2022 Dec	-2.8	-6.1	-3.1	0.8	-0.6	-5.3	-0.3	-4.7	0.4	-5.6	-3.1
2023 Jan	-2.5	-14.8	-1.9	-1.3	-0.9	-15.0	-2.2	1.8	-0.6	-6.8	-7.5
2023 Feb	-2.4	-11.2	-1.6	-3.0	-2.1	-12.0	2.2	-1.3	2.4	-5.9	-7.3
2023 Mar	-1.3	-14.4	-0.7	1.7	-0.4	-13.9	3.4	1.8	3.7	-7.6	-5.7
2023 Apr	-1.0	-15.8	0.6	-0.9	-3.4	-16.9	3.4	-0.8	8.0	-5.9	-8.0
2023 May	-2.1	-16.0	-0.5	-4.0	-3.8	-16.7	5.1	-1.0	6.3	-7.1	-8.2
2023 Jun	1.4	-15.0	3.9	-3.0	-3.7	-17.1	5.0	3.9	9.8	-1.7	-7.5
2023 Jul	0.9	-19.0	3.5	-1.8	-3.1	-20.7	-0.3	3.4	10.4	-3.5	-8.1
2023 Aug	1.1	-7.1	2.6	-	-4.3	-5.8	-6.3	4.8	6.8	-3.5	-2.8
2023 Sep	1.1	-12.1	2.6	2.0	-2.8	-12.3	0.5	2.5	8.5	-3.5	-3.2
2023 Oct	-0.5	-11.0	0.2	-0.1	-0.5	-12.4	-0.5	-2.8	7.5	-4.5	-3.7
2023 Nov	-0.1	-12.2	1.3	0.1	-3.2	-13.9	-0.9	2.3	5.1	-3.7	-3.9

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

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

IOP5 Output of the Production Industries

Chained volume indices of gross value added¹

continued

Seasonally adjusted 2019 = 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	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
Percentage change, latest month on previous month												
2021	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	4.7 [†]	-1.0 [†]	1.8	0.4 [†]	4.1 [†]	1.3	-7.0 [†]	0.5	3.3 [†]	3.0 [†]
	Feb	-0.3	0.4	-0.4	0.2 [†]	-0.3	1.6	-1.7 [†]	1.8	-1.6 [†]	-1.9	0.3
	Mar	-0.3	0.7	-0.3	-1.8	0.1	0.1	0.2	-1.6	-	0.5	-0.5
	Apr	-0.2 [†]	1.7	-0.7	1.2	1.6	3.4	-3.3	1.4	-1.9	-1.4	2.0
	May	0.2	0.5	0.6	-1.6	-1.7	0.4	0.6	0.5	0.9	0.5	-1.7
	Jun	-0.9	-2.4	-1.2	0.9	1.7	-1.5	2.3	-1.0	-0.2	-2.8	-0.5
	Jul	-0.5	4.9	-0.8	-0.7	-1.8	5.2	1.5	-0.5	-1.1	-0.2	0.5
	Aug	-0.6	-10.0	0.2	-1.0	0.2	-12.7	3.5	-2.1	2.2	0.2	-4.3
	Sep	-0.1	2.3	-0.4	1.4	-0.5	3.2	-4.8	2.6	-1.6	-1.5	1.0
	Oct	0.3	-2.8	1.1	-2.6	-1.6	-2.5	-0.7	3.9	0.2	-0.6	-2.2
	Nov	-0.1	2.7	-0.6	-	1.7	4.1	1.3	-2.8	1.5	-0.8	0.7
	Dec	0.1	-7.7	0.4	3.1	-0.2	-9.0	-0.2	0.5	1.6	-0.8	-1.3
2023	Jan	-0.1	-5.0	0.2	-0.3	0.1	-6.7	-0.6	-0.7	-0.6	2.0	-1.7
	Feb	-0.1	4.7	-0.1	-1.6	-1.4	5.2	2.7	-1.3	1.5	-1.0	0.5
	Mar	0.7	-3.0	0.7	3.0	1.8	-2.0	1.4	1.4	1.3	-1.4	1.3
	Apr	0.2	0.1	0.6	-1.3	-1.5	-0.3	-3.3	-1.2	2.2	0.5	-0.5
	May	-0.9	0.3	-0.5	-4.6	-2.1	0.6	2.3	0.2	-0.7	-0.9	-1.9
	Jun	2.7	-1.2	3.1	1.9	1.8	-2.0	2.1	4.0	3.2	2.8	0.2
	Jul	-1.0	-	-1.2	0.5	-1.3	0.6	-3.6	-1.0	-0.6	-1.9	-0.1
	Aug	-0.4	3.2	-0.6	0.8	-1.0	3.8	-2.7	-0.9	-1.2	0.2	1.2
	Sep	-0.1	-3.3	-0.4	3.4	1.0	-3.9	2.1	0.4	-	-1.6	0.7
	Oct	-1.3	-1.5	-1.2	-4.6	0.8	-2.6	-1.7	-1.5	-0.7	-1.6	-2.8
	Nov	0.3	1.3	0.4	0.2	-1.0	2.2	0.9	2.3	-0.7	-	0.5
Percentage change, latest 3 months on same 3 months a year ago²												
2021	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	-17.5 [†]	-5.2	-33.4	1.3 [†]	-22.2 [†]	0.9	9.2 [†]	-12.5 [†]	-8.9	-22.3
	Feb	-6.6	-14.0	-3.9	-29.2 [†]	0.6	-18.5	2.4	7.9	-10.5	-6.8	-18.7 [†]
	Mar	-5.4 [†]	-8.6	-3.5 [†]	-25.0	0.8	-12.4	1.6 [†]	3.7	-9.3	-4.3	-14.0
	Apr	-4.8	-0.4	-3.9	-21.6	1.1	-2.2	-0.6	3.1	-10.0	-4.5 [†]	-9.3
	May	-4.2	5.0	-3.8	-19.8	1.3	4.8	-1.1	0.5	-8.5	-3.8	-6.8
	Jun	-3.5	14.6	-3.9	-16.6	1.4	18.1	-2.4	0.3	-7.5	-4.7	-3.2
	Jul	-3.0	14.8	-3.8	-11.6	0.3	18.0	-1.0	-1.2	-6.1	-3.8	-1.3
	Aug	-2.8	4.9	-3.6	-4.7	0.1	5.0	1.9	-1.5	-5.4	-3.3	-1.5
	Sep	-2.6	-3.5	-3.2	1.3	0.3	-5.9	2.3	-1.9	-4.8	-2.2	-2.1
	Oct	-2.1	-9.2	-2.3	4.1	-0.3	-12.3	3.7	-0.9	-2.7	-3.0	-3.3
	Nov	-1.9	-4.2	-2.5	4.2	-0.6	-5.1	1.6	-0.3	-1.9	-5.0	-1.4
	Dec	-2.1	-3.8	-2.5	2.4	-1.3	-3.4	1.3	-1.9	-0.2	-5.8	-1.9
2023	Jan	-2.6	-6.8	-2.8	0.1	-0.7	-5.9	-0.8	-1.6	-0.7	-6.5	-3.9
	Feb	-2.6	-10.8	-2.2	-1.2	-1.2	-10.9	-0.1	-1.5	0.7	-6.1	-6.0
	Mar	-2.1	-13.5	-1.4	-0.9	-1.1	-13.6	1.1	0.8	1.8	-6.8	-6.9
	Apr	-1.5	-13.8	-0.6	-0.7	-2.0	-14.3	3.0	-0.1	4.7	-6.5	-7.0
	May	-1.4	-15.4	-0.2	-1.0	-2.5	-15.9	4.0	-	6.0	-6.9	-7.3
	Jun	-0.5	-15.6	1.3	-2.6	-3.6	-16.9	4.5	0.7	8.1	-4.9	-7.9
	Jul	0.1	-16.7	2.3	-2.9	-3.5	-18.2	3.2	2.1	8.8	-4.1	-8.0
	Aug	1.2	-13.9	3.3	-1.6	-3.7	-14.9	-0.6	4.0	9.0	-2.9	-6.2
	Sep	1.1	-12.9	2.9	0.1	-3.4	-13.3	-2.1	3.6	8.5	-3.5	-4.8
	Oct	0.6	-10.1	1.8	0.7	-2.5	-10.2	-2.2	1.4	7.6	-3.8	-3.2
	Nov	0.2	-11.8	1.4	0.7	-2.2	-12.9	-0.3	0.6	7.0	-3.9	-3.6

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.

IOP5 Output of the Production Industries

continued

Chained volume indices of gross value added¹

Seasonally adjusted 2019 = 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	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
Percentage change, latest 3 months on previous 3 months²												
2021	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	-7.7 [†]	0.9	4.6	0.8 [†]	-11.4 [†]	3.3	1.3	-0.1 [†]	2.0	-1.1
	Feb	0.6	-1.9	0.2	7.0 [†]	0.6	-4.2	2.6 [†]	0.2 [†]	-	0.6 [†]	2.3 [†]
	Mar	-	3.0	-0.7	5.1	-	2.0	2.2	-4.2	0.3	1.1	3.7
	Apr	-0.7 [†]	4.3	-1.5 [†]	1.6	0.5	5.1	-1.7	-2.5	-2.1	-0.7	2.9
	May	-0.7	3.8	-1.2	-0.8	0.5	4.9	-2.5	-1.8	-1.8	-0.5	1.5
	Jun	-0.6	1.8	-1.0	-0.7	0.9	3.7	-2.6	0.9	-1.8	-2.3	0.5
	Jul	-0.8	1.8	-1.0	-1.0	-0.2	3.4	0.4	-	-0.8	-2.2	-0.7
	Aug	-1.3	-1.8	-1.5	-0.5	-0.1	-1.2	3.7	-1.2	-0.2	-3.0	-2.1
	Sep	-1.5	-2.8	-1.4	-0.8	-1.4	-3.6	3.9	-1.6	-	-2.3	-2.9
	Oct	-1.2	-7.3	-0.7	-1.1	-1.3	-9.0	1.7	0.2	0.4	-2.1	-4.2
	Nov	-0.5	-4.2	-	-1.3	-1.5	-4.5	-2.2	2.6	0.1	-2.1	-3.0
	Dec	-	-5.7	0.7	-1.0	-0.8	-5.3	-2.1	3.1	1.4	-2.4	-3.0
2023	Jan	-	-5.3	0.4	0.6	0.3	-4.9	-1.2	0.7	1.9	-1.7	-1.8
	Feb	-	-8.6	0.5	1.4	-	-10.0	0.9	-1.0	2.7	-0.6	-2.5
	Mar	-	-7.3	0.4	1.6	0.2	-8.8	2.0	-1.6	2.3	-	-1.5
	Apr	0.4	-3.6	0.8	0.7	-0.7	-4.3	2.0	-1.0	3.2	-0.7	-0.4
	May	0.4	-1.6	0.9	-0.6	-0.9	-1.0	1.5	-0.3	3.3	-1.3	0.1
	Jun	0.9	-0.7	1.7	-2.4	-1.6	-0.2	0.7	0.8	4.2	-0.4	-0.7
	Jul	0.9	-1.6	1.8	-3.1	-1.8	-1.4	0.7	2.2	3.1	0.2	-1.7
	Aug	1.3	-	1.9	-1.1	-1.3	-	-0.9	2.8	2.6	1.1	-0.9
	Sep	0.1	0.2	0.1	1.9	-1.1	0.7	-2.6	1.2	0.4	-0.8	0.4
	Oct	-0.7	-	-1.1	2.5	-0.3	-	-3.6	-0.5	-0.8	-1.8	0.7
	Nov	-1.5	-1.9	-1.9	1.0	-	-2.2	-1.8	-0.8	-1.7	-3.1	-0.3

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.

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

IOP5 Output of the Production Industries

Chained volume indices of gross value added¹

continued

Seasonally adjusted 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	116.9 [†]	128.0 [†]	88.1 [†]	87.7 [†]	86.7 [†]	117.2 [†]
2022 Q3	116.5 [†]	128.3 [†]	86.4 [†]	81.5 [†]	84.8 [†]	112.6 [†]
Q4	115.0	127.2	84.4	82.0	80.8	131.1
2023 Q1	115.1	123.4	82.6	85.4	80.3	123.0
Q2	115.7	121.1	83.3	89.5	78.7	126.0
Q3	116.8	117.8	83.9	83.2	79.8	127.3
2022 Sep	114.5 [†]	128.6 [†]	85.1 [†]	81.9 [†]	83.6 [†]	122.4 [†]
Oct	114.7	126.0	85.6	82.9	83.2	138.9
Nov	115.6	128.0	84.3	82.6	80.5	124.8
Dec	114.7	127.7	83.3	80.5	78.6	129.5
2023 Jan	115.3	126.4	83.1	83.1	82.1	122.5
Feb	115.3	123.0	82.3	84.6	79.4	120.1
Mar	114.9	120.8	82.5	88.3	79.5	126.3
Apr	114.4	119.5	83.6	90.1	78.7	123.3
May	115.7	119.4	82.2	91.2	77.6	122.0
Jun	117.1	124.3	84.0	87.3	80.0	132.6
Jul	117.0	116.9	84.8	83.6	80.3	128.6
Aug	116.1	117.3	84.5	84.1	79.2	127.9
Sep	117.2	119.2	82.4	81.8	80.0	125.4
Oct	117.3	115.1	81.5	79.8	78.2	121.1
Nov	118.9	115.3	81.8	80.9	78.9	126.9

Percentage change, latest year on previous year

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	2.2 [†]	7.4 [†]	-4.8 [†]	6.4 [†]	-4.5 [†]	-3.9 [†]

Percentage change, latest month on same month a year ago

2021 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	10.7 [†]	47.0 [†]	0.9	16.3 [†]	1.0 [†]	-9.8 [†]
Feb	8.3	34.6	1.2	28.5	-0.4	-1.8
Mar	7.1	22.4	0.9 [†]	33.7	1.7	-11.4
Apr	2.2	15.9	-6.3	23.8	-4.1	5.2
May	2.3	6.2	-4.7	14.8	0.1	-11.5
Jun	0.7	-3.0	-4.4	-4.3	-7.1	2.6
Jul	1.2	3.3	-4.3	-7.0	-5.4	-10.1
Aug	1.2	0.1	-5.0	-6.1	-1.6	-13.6
Sep	-1.3	-2.0	-7.1	1.8	-4.1	5.3
Oct	-1.7	-4.6	-9.7	1.0	-7.2	9.1
Nov	-1.5	-5.3	-8.9	-6.5	-11.1	0.3
Dec	-1.5	-1.4	-9.7	-6.8	-15.9	-8.2
2023 Jan	-2.1	-3.0	-10.0	-6.7	-15.0	12.8
Feb	-2.1	-1.9	-11.3	-8.4	-13.9	2.9
Mar	-2.7	-7.0	-10.6	-8.3	-12.4	17.2
Apr	-3.3	-9.1	-7.4	-7.6	-12.2	10.3
May	-2.8	-7.3	-8.9	-6.2	-13.6	6.2
Jun	-0.4	0.6	-3.8	-3.0	-5.9	14.9
Jul	-0.6	-9.1	-4.2	3.6	-5.0	15.9
Aug	-1.0	-8.3	-1.3	2.7	-8.4	22.3
Sep	2.3	-7.3	-3.2	-0.1	-4.2	2.5
Oct	2.2	-8.6	-4.8	-3.7	-6.0	-12.8
Nov	2.8	-9.9	-3.0	-2.0	-2.0	1.7

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

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

IOP5 Output of the Production Industries

continued

Chained volume indices of gross value added¹

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	99.7 [†]	87.9 [†]	107.1 [†]	79.9 [†]	93.7 [†]	93.7 [†]	102.1 [†]
2022 Q3	99.0 [†]	86.6 [†]	109.1 [†]	78.9 [†]	91.4 [†]	92.1 [†]	102.6 [†]
Q4	97.4	85.0	108.7	78.2	90.9	94.8	102.9
2023 Q1	97.6	88.7	111.2	75.9	93.7	97.5	103.4
Q2	94.3	90.2	113.3	79.6	92.6	105.5	106.0
Q3	89.0	93.0	111.3	83.3	91.5	108.1	104.0
2022 Sep	97.4 [†]	86.1 [†]	107.5 [†]	79.0	90.8 [†]	91.8 [†]	102.0 [†]
Oct	98.2	85.4	107.3	79.1 [†]	89.0	93.4	101.5
Nov	96.6	85.3	109.1	78.2	90.3	95.1	102.8
Dec	97.5	84.3	109.7	77.5	93.3	95.9	104.3
2023 Jan	99.6	88.5	108.3	79.6	93.0	95.7	103.0
Feb	98.4	88.3	111.5	73.6	94.3	97.4	103.4
Mar	94.9	89.2	113.8	74.4	93.9	99.3	103.6
Apr	93.9	89.4	109.3	78.8	95.0	104.8	106.5
May	92.6	89.9	113.7	77.1	91.6	103.0	104.6
Jun	96.4	91.3	116.9	83.0	91.3	108.9	107.0
Jul	89.9	92.4	113.0	84.0	93.7	107.3	105.8
Aug	89.5	93.6	109.1	82.8	91.3	109.1	103.1
Sep	87.5	92.9	111.8	83.1	89.4	108.0	103.0
Oct	85.5	92.3	109.2	80.5	86.3	108.5	103.0
Nov	84.3	92.5	111.5	80.9	84.0	107.4	101.8

Percentage change, latest year on previous year

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	-3.9 [†]	-6.0 [†]	0.3 [†]	-15.1 [†]	-12.5 [†]	-6.7 [†]	-0.7 [†]

Percentage change, latest month on same month a year ago

2021 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	-3.8 [†]	-13.2 [†]	2.7	-30.1 [†]	-13.1 [†]	-12.4 [†]	-3.2 [†]
Feb	-5.8	-10.1	-4.8 [†]	-29.2	-14.7	-15.2	-0.1
Mar	-7.4	-8.5	0.8	-22.7	-18.7	-13.0	1.2
Apr	-4.9	-6.9	-7.3	-22.1	-17.8	-8.7	-3.4
May	0.9	-6.7	-5.1	-19.0	-13.1	-1.9	-3.0
Jun	-2.2	-8.8	-1.7	-11.0	-12.6	-7.2	-1.9
Jul	-0.9	-2.9	1.4	-9.3	-10.6	-8.3	-2.5
Aug	-1.0	-1.5	6.9	-3.0	-12.0	-7.7	2.3
Sep	-4.7	-1.7	2.4	-3.1	-16.1	-4.8	-0.2
Oct	-5.4	-1.0	7.0	-3.0	-4.0	1.4	-1.3
Nov	-9.2	-3.9	1.2	-3.6	-10.6	0.3	0.6
Dec	-2.0	-4.1	0.8	-8.7	-3.5	0.9	4.0
2023 Jan	-1.7	-2.3	-1.0	-5.6	-8.4	1.9	2.3
Feb	-0.7	-3.1	6.0	-9.9	-2.8	4.1	0.2
Mar	-5.5	-2.5	7.3	-10.3	-1.1	5.1	1.0
Apr	-7.3	-0.7	6.6	-1.9	1.8	11.1	7.0
May	-11.0	1.1	10.4	-2.1	-4.4	9.3	3.9
Jun	-4.7	4.1	10.6	4.9	-3.7	17.5	4.5
Jul	-10.2	6.9	5.2	7.7	1.8	17.5	3.6
Aug	-10.0	7.5	-2.9	4.0	-0.2	17.1	-0.7
Sep	-10.2	7.8	4.1	5.2	-1.5	17.5	1.0
Oct	-12.9	8.1	1.7	1.9	-3.0	16.2	1.4
Nov	-12.7	8.5	2.2	3.5	-7.0	12.9	-1.0

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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

continued

Chained volume indices of gross value added¹

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	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	1.1 [†]	0.6 [†]	0.1	3.1 [†]	3.3 [†]	-23.1 [†]
	Feb	-	-3.8	0.5	3.7	-4.5	7.6
	Mar	0.3	3.6	-0.6 [†]	4.2	-1.6	-7.7
	Apr	0.2	1.2	-2.2	1.2	-1.2	3.7
	May	0.6	-2.1	-0.1	-0.2	0.3	2.7
	Jun	-1.1	-4.0	-3.2	-7.5	-5.4	0.5
	Jul	0.1	4.1	1.4	-10.3	-0.6	-3.9
	Aug	-0.4	-0.5	-3.3	1.4	2.3	-5.7
	Sep	-2.4	0.6	-0.6	-	-3.3	17.0
	Oct	0.2	-2.0	0.6	1.2	-0.5	13.6
	Nov	0.8	1.6	-1.6	-0.4	-3.2	-10.2
	Dec	-0.8	-0.2	-1.2	-2.5	-2.4	3.8
2023	Jan	0.5	-1.0	-0.3	3.3	4.4	-5.4
	Feb	-	-2.7	-0.9	1.8	-3.3	-1.9
	Mar	-0.3	-1.8	0.3	4.4	0.1	5.1
	Apr	-0.5	-1.0	1.3	2.0	-1.0	-2.4
	May	1.1	-0.1	-1.7	1.3	-1.4	-1.1
	Jun	1.2	4.1	2.2	-4.4	3.1	8.7
	Jul	-0.1	-6.0	1.0	-4.2	0.4	-3.0
	Aug	-0.8	0.3	-0.4	0.6	-1.4	-0.5
	Sep	1.0	1.7	-2.5	-2.7	1.1	-1.9
	Oct	0.1	-3.4	-1.0	-2.4	-2.3	-3.4
	Nov	1.4	0.2	0.3	1.4	1.0	4.8

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

2021	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	9.5 [†]	-5.6	9.0 [†]
	Feb	9.1 [†]	43.0 [†]	0.4	16.2	-1.2 [†]	4.7
	Mar	8.7	33.9	1.0	26.0	0.8	-7.7
	Apr	5.8	23.7	-1.5 [†]	28.5	-1.0	-3.0
	May	3.8	14.5	-3.4	23.6	-0.8	-6.5
	Jun	1.7	6.0	-5.1	10.6	-3.7	-1.8
	Jul	1.4	2.1	-4.5	0.9	-4.2	-6.7
	Aug	1.0	0.1	-4.6	-5.8	-4.7	-7.3
	Sep	0.4	0.4	-5.4	-3.9	-3.7	-6.3
	Oct	-0.6	-2.2	-7.3	-1.2	-4.3	0.4
	Nov	-1.5	-4.0	-8.6	-1.4	-7.5	5.0
	Dec	-1.5	-3.8	-9.4	-4.2	-11.5	0.1
2023	Jan	-1.7	-3.3	-9.5	-6.7	-14.1	0.7
	Feb	-1.9	-2.1	-10.3	-7.3	-14.9	1.5
	Mar	-2.3	-4.0	-10.6	-7.8	-13.8	10.7
	Apr	-2.7	-6.1	-9.8	-8.1	-12.8	9.9
	May	-2.9	-7.8	-8.9	-7.4	-12.7	11.1
	Jun	-2.2	-5.4	-6.7	-5.7	-10.6	10.5
	Jul	-1.3	-5.3	-5.6	-2.2	-8.3	12.3
	Aug	-0.7	-5.7	-3.1	1.0	-6.4	17.6
	Sep	0.2	-8.2	-2.9	2.1	-5.9	13.0
	Oct	1.2	-8.1	-3.1	-0.4	-6.2	2.3
	Nov	2.5	-8.6	-3.7	-1.9	-4.1	-3.3

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

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

IOP5 Output of the Production Industries

continued

Chained volume indices of gross value added¹

Seasonally adjusted 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 month on previous month								
2021	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	1.9 [†]	3.0 [†]	0.5	-0.6 [†]	5.0 [†]	-1.2 [†]	0.5 [†]
	Feb	-2.2	0.6	-3.8 [†]	-3.2	-4.5	-0.4	2.4
	Mar	1.3	0.3	0.7	1.5	-2.1	1.0	-0.6
	Apr	0.9	-1.6	-3.3	-3.2	-1.7	-0.2	-3.0
	May	2.7	-1.2	0.5	-1.9	2.8	-0.1	1.2
	Jun	-2.8	-1.4	2.6	0.4	-1.2	-1.6	1.7
	Jul	-1.0	-1.4	1.5	-1.3	-2.9	-1.5	-0.3
	Aug	-0.6	0.7	4.7	2.0	-0.7	2.0	1.6
	Sep	-2.0	-1.1	-4.3	-0.8	-0.7	-1.4	-1.7
	Oct	0.8	-0.8	-0.1	0.1	-2.0	1.7	-0.5
	Nov	-1.6	-0.1	1.6	-1.1	1.5	1.9	1.2
	Dec	1.0	-1.1	0.5	-0.8	3.3	0.8	1.4
2023	Jan	2.1	4.9	-1.2	2.7	-0.4	-0.2	-1.2
	Feb	-1.2	-0.2	2.9	-7.5	1.4	1.8	0.3
	Mar	-3.6	1.0	2.0	1.1	-0.4	2.0	0.3
	Apr	-1.0	0.3	-4.0	5.8	1.2	5.5	2.7
	May	-1.4	0.6	4.1	-2.1	-3.6	-1.7	-1.8
	Jun	4.2	1.6	2.8	7.7	-0.4	5.7	2.4
	Jul	-6.7	1.2	-3.4	1.2	2.6	-1.4	-1.2
	Aug	-0.5	1.2	-3.4	-1.4	-2.5	1.7	-2.6
	Sep	-2.3	-0.7	2.5	0.4	-2.0	-1.1	-
	Oct	-2.3	-0.6	-2.4	-3.1	-3.5	0.5	-0.1
	Nov	-1.3	0.2	2.1	0.5	-2.6	-1.0	-1.1
Percentage change, latest 3 months on same 3 months a year ago								
2021	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	-5.7 [†]	-19.5	1.4	-34.7 [†]	-23.6 [†]	-16.8 [†]	-2.8 [†]
	Feb	-6.3	-15.6 [†]	1.8 [†]	-29.2	-20.0	-14.7	-2.2
	Mar	-5.7	-10.6	-0.5	-27.5	-15.5	-13.5	-0.7
	Apr	-6.1	-8.5	-3.9	-24.8	-17.1	-12.4	-0.8
	May	-3.9	-7.4	-4.0	-21.3	-16.6	-8.1	-1.8
	Jun	-2.1	-7.5	-4.7	-17.6	-14.5	-6.0	-2.8
	Jul	-0.7	-6.2	-1.8	-13.3	-12.1	-5.8	-2.5
	Aug	-1.4	-4.5	2.2	-7.9	-11.7	-7.7	-0.8
	Sep	-2.2	-2.0	3.5	-5.2	-13.0	-7.0	-0.2
	Oct	-3.7	-1.4	5.4	-3.1	-11.0	-3.8	0.2
	Nov	-6.5	-2.2	3.5	-3.2	-10.6	-1.1	-0.3
	Dec	-5.6	-3.0	2.9	-5.1	-6.1	0.8	1.1
2023	Jan	-4.4	-3.4	0.3	-6.0	-7.6	1.0	2.3
	Feb	-1.5	-3.2	1.9	-8.0	-5.0	2.3	2.1
	Mar	-2.7	-2.6	4.1	-8.6	-4.2	3.7	1.2
	Apr	-4.5	-2.1	6.7	-7.4	-0.7	6.8	2.7
	May	-8.0	-0.7	8.1	-4.9	-1.3	8.5	4.0
	Jun	-7.7	1.5	9.2	0.3	-2.1	12.6	5.1
	Jul	-8.6	4.0	8.7	3.5	-2.2	14.7	4.0
	Aug	-8.3	6.1	4.2	5.5	-0.7	17.4	2.4
	Sep	-10.1	7.4	2.1	5.6	-	17.4	1.3
	Oct	-11.0	7.8	0.9	3.7	-1.6	16.9	0.6
	Nov	-11.9	8.1	2.7	3.5	-3.9	15.5	0.5

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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

continued

Chained volume indices of gross value added¹

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 3 months on previous 3 months

2021	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	5.7 [†]	6.1 [†]	2.6 [†]
	Feb	0.5 [†]	-3.3	-0.5 [†]	6.8	5.5	-0.4
	Mar	0.9	-2.8	-0.8	8.2	2.1	-15.2
	Apr	0.8	-2.1 [†]	-0.7	8.5	-2.9	-10.1
	May	1.0	1.3	-1.7	8.7	-4.3	-8.7
	Jun	0.4	-0.5	-3.5	2.5	-5.4	2.7
	Jul	-	-1.6	-3.4	-6.4	-4.9	1.4
	Aug	-0.8	-2.6	-4.1	-13.2	-5.3	-1.1
	Sep	-1.5	0.3	-3.2	-14.2	-3.8	-1.2
	Oct	-2.2	0.5	-3.6	-8.0	-2.3	7.3
	Nov	-2.2	0.7	-2.5	-2.1	-3.3	16.7
	Dec	-1.3	-0.9	-2.3	0.6	-4.8	16.4
2023	Jan	-0.3	-0.1	-2.2	-0.2	-4.7	3.0
	Feb	0.1	-1.4	-2.5	0.4	-2.9	-3.6
	Mar	0.1	-3.0	-2.1	4.1	-0.6	-6.2
	Apr	-0.3	-4.9	-0.9	6.8	-1.5	-1.9
	May	-0.1	-4.6	-0.2	8.6	-1.8	-0.1
	Jun	0.5	-1.9	0.8	4.9	-1.9	2.4
	Jul	1.5	-0.8	1.0	-0.4	0.1	3.6
	Aug	1.5	-0.4	2.0	-5.5	1.5	4.7
	Sep	0.9	-2.7	0.8	-7.1	1.4	1.0
	Oct	0.2	-2.5	-1.1	-6.3	-0.2	-2.3
	Nov	0.9	-2.4	-3.0	-4.9	-0.9	-4.0

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IOP5 Output of the Production Industries

continued

Chained volume indices of gross value added¹

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	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	0.2 [†]	1.9	5.0	2.1 [†]	-1.8 [†]	-2.0 [†]	-1.1 [†]
	Feb	-4.0	2.7 [†]	3.3 [†]	2.8	-2.2	-0.3	-1.0
	Mar	-2.8	3.9	1.2	0.6	1.1	-	0.4
	Apr	-2.1	2.0	-3.8	-2.1	-4.7	-0.5	0.7
	May	1.9	0.3	-3.7	-3.5	-3.8	0.2	-0.5
	Jun	1.8	-2.4	-2.9	-4.3	-3.3	-0.3	-1.3
	Jul	1.5	-3.5	0.7	-3.7	-0.9	-1.5	-
	Aug	-1.6	-3.4	4.5	-2.2	-2.1	-2.1	1.8
	Sep	-3.0	-2.6	5.1	-0.6	-3.4	-1.7	1.7
	Oct	-3.3	-1.7	3.5	0.8	-4.1	0.1	0.7
	Nov	-2.8	-1.7	-0.5	-0.2	-2.9	1.2	-0.6
	Dec	-1.6	-1.8	-0.3	-0.8	-0.6	2.9	0.2
2023	Jan	-0.5	-0.2	-	-1.0	2.0	3.0	0.9
	Feb	1.1	1.7	1.7	-2.3	3.9	3.1	1.4
	Mar	0.2	4.3	2.3	-3.0	3.2	2.8	0.5
	Apr	-2.2	3.4	2.3	-3.6	2.4	5.2	1.1
	May	-4.8	2.8	2.2	-0.2	-	6.3	1.3
	Jun	-3.4	1.8	1.9	4.9	-1.2	8.3	2.6
	Jul	-2.9	2.5	2.7	7.6	-2.3	5.9	1.2
	Aug	-1.9	3.3	0.7	8.5	-1.5	6.0	0.4
	Sep	-5.6	3.0	-1.8	4.7	-1.3	2.5	-2.0
	Oct	-5.9	1.9	-3.9	1.0	-3.5	2.0	-2.6
	Nov	-6.7	0.1	-1.9	-2.1	-6.0	-0.5	-2.6

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

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

Statistical contact:
Name: John Allcoat
Tel: John Allcoat +44 (0) 1633 456616
Email: indexofproduction@ons.gov.uk

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