

Statistical bulletin

# Index of Production, UK: July 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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Release date:  
13 September 2023

Next release:  
12 October 2023

## Notice

### 13 September 2023

There are no revisions to previously published data in this monthly release because of the regular [National Accounts revision policy](#). We will see data revisions from our pre-announced changes highlighted in the [Impact of Blue Book 2023 article](#) in the Quarterly national accounts release (to be published on 29 September 2023), and also in the next monthly GDP release (to be published on 12 October 2023).

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# 1 . Main points

- Monthly production output is estimated to have fallen 0.7% in July 2023; this follows an unrevised growth of 1.8% in June 2023.
- The monthly decrease in output in July 2023 resulted from a decline in three of the four production sectors, with manufacturing being the main contributor to the monthly fall (0.8%) with other smaller contributing decreases in electricity and gas (1.5%) and water supply and sewerage (0.5%); this was partially offset by a rise in mining and quarrying (1.9%).
- Monthly manufacturing output decreased by 0.8% and saw decreases in 9 of its 13 subsectors during July 2023; most notably, manufacture of rubber and plastic products and manufacture of computer, electronic and optical products fell 5.5% and 3.2%, respectively.
- Looking at the longer-term profile, production output for the three months to July 2023 rose by 0.6% compared with the three months to April 2023; growth came solely from manufacturing (1.7%), partially offset by falls in electricity and gas (2.0%), mining and quarrying (3.2%) and water supply and sewerage (1.7%).
- Further analysis of the effect on our monthly loP estimate is available in our [Gross domestic product \(GDP\) monthly estimate, UK: July 2023 bulletin, published 13 September 2023](#).

## 2 . Index of Production (loP) data

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

Dataset DIOP | Released 13 September 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 13 September 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 13 September 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 13 September 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 13 September 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 loP 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 dataset](#).

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 ad hoc 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-monthly movements over recent months since May 2023.

### **Revisions to IoP**

In line with the [National Accounts revision policy](#), this release gives data for July 2023 for the first time with no other periods open for revision.

The next monthly IoP release will be published on 12 October 2023, and we are open for revisions for all periods. These revisions will be consistent with the quarterly national accounts release that will be published on 29 September 2023, and they will incorporate improved source data, updated seasonal adjustment parameters, and additional updated data, as would happen in all quarterly national accounts releases. This includes new Value Added Tax (VAT) turnover data for Quarter 4 (Oct to Dec) 2022 and Quarter 1 (Jan to Mar) 2023.

### **Office for Statistics Regulation (OSR) review of GDP**

The OSR will shortly be completing 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 processes and quality assurance in making revisions to GDP and the potential improvements to early estimates of GDP enabled through enhanced access to data. It will also cover the communication of:

- revisions to GDP
- the story behind the most recent set of revisions in particular
- uncertainty in early estimates of GDP

## 4 . Related links

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

Bulletin | Released 13 September 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: July 2023](#)

Bulletin | Released 13 September 2023

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

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

Bulletin | Released 16 August 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 31 August 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 13 September 2023, ONS website, statistical bulletin, [Index of Production, UK: July 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	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
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	108.6	85.5	109.8	114.6	112.9	81.4	104.7	109.0	107.8	113.5	99.8
2022	105.6	87.2	105.7	110.5	115.2	83.0	104.5	109.5	101.1	107.4	98.2
2022 Q2	106.3	87.5	106.3	112.0	116.3	83.4	103.0	109.6	100.7	109.2	99.8
Q3	104.4	86.6	104.3	110.4	113.8	82.0	105.8	108.3	99.7	106.0	97.3
Q4	104.5	84.5	104.8	108.0	114.6	81.1	103.5	111.6	101.2	103.4	95.2
2023 Q1	104.6	79.9	105.5	108.1	115.0	76.0	105.2	110.8	102.6	104.3	94.1
Q2	105.4	76.5	107.2	108.1	112.9	72.1	106.2	111.5	106.5	104.2	93.1
2022 May	106.7	88.5	106.9	112.5	114.6	84.0	102.9	110.1	100.9	110.5	100.1
Jun	105.6	86.2	105.5	111.5	116.4	82.7	104.1	109.4	100.7	107.0	98.9
Jul	105.2	91.3	104.9	110.9	113.4	87.7	104.6	108.8	99.8	106.8	99.0
Aug	103.9	83.8	104.0	110.2	113.7	78.4	108.0	106.8	99.7	106.1	96.5
Sep	104.0	84.6	104.0	110.0	114.2	79.9	104.6	109.1	99.6	105.2	96.4
Oct	104.4	84.4	105.2	106.7	112.8	80.3	103.4	113.2	100.3	104.3	94.7
Nov	104.4	86.7	104.6	106.7	115.1	83.9	104.4	110.4	101.2	103.3	95.1
Dec	104.6	82.3	104.7	110.7	115.9	79.2	102.7	111.3	102.1	102.6	95.9
2023 Jan	104.4	79.5	105.2	108.6	115.2	75.6	101.8	110.7	101.6	104.5	94.4
Feb	104.3	81.3	105.3	106.4	113.8	77.1	105.8	110.0	102.5	104.5	93.5
Mar	105.1	78.9	106.1	109.2	116.1	75.4	107.9	111.6	103.7	103.8	94.4
Apr	105.2	76.8	106.5	110.2	113.8	72.6	103.5	110.1	103.3	104.1	94.1
May	104.5	77.1	106.3	107.0	111.3	73.0	106.5	110.3	105.9	103.2	93.1
Jun	106.4	75.5	108.8	107.0	113.5	70.8	108.6	114.2	108.2	105.4	92.2
Jul	105.7	76.9	108.0	105.4	112.9	72.8	104.5	113.6	107.9	103.9	91.6
<b>Percentage change, latest year on previous year</b>											
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	7.3	-11.7	9.7	5.1	7.8	-15.7	9.1	5.0	12.5	10.1	-2.2
2022	-2.8	2.1	-3.7	-3.6	2.0	2.0	-0.2	0.5	-6.3	-5.4	-1.6
<b>Percentage change, latest month on same month a year ago</b>											
2021 May	26.4	-22.5	35.2	25.3	13.2	-29.4	21.6	12.9	52.4	38.1	3.8
Jun	11.5	-33.0	17.3	10.9	8.8	-40.6	21.2	4.2	23.9	18.5	-5.7
Jul	5.8	-19.7	9.0	2.0	8.3	-24.7	10.0	1.4	13.5	8.7	-5.5
Aug	4.3	2.7	5.6	-3.3	5.3	1.1	4.8	2.6	7.9	4.9	-1.2
Sep	1.7	1.2	2.4	-5.5	5.7	-0.4	4.5	3.1	2.7	0.6	-2.6
Oct	-0.4	-5.3	0.2	-7.3	7.3	-8.0	0.6	6.0	-2.5	-1.9	-6.1
Nov	-1.7	-4.6	-2.5	-1.5	6.7	-8.0	-1.0	6.5	-6.8	-4.9	-2.5
Dec	-2.4	-11.6	-2.2	-3.4	4.5	-16.4	6.9	12.6	-9.0	-6.2	-6.3
2022 Jan	-0.9	-4.0	-0.8	-4.6	5.1	-7.6	3.8	3.4	-4.7	-1.3	-2.8
Feb	-1.5	3.3	-2.0	-5.3	3.6	1.6	-0.1	5.2	-7.5	-3.9	-1.3
Mar	-2.4	2.0	-3.1	-5.1	3.6	-1.0	2.8	1.8	-9.0	-3.3	-1.4
Apr	-2.0	19.4	-3.9	-6.7	6.0	22.8	1.0	2.9	-9.6	-5.6	2.8
May	-3.3	15.2	-4.0	-12.0	3.1	17.9	1.0	-1.9	-5.9	-5.3	-3.5
Jun	-2.8	25.4	-4.7	-7.4	2.4	35.5	-2.5	2.1	-7.2	-7.6	1.8
Jul	-3.3	11.4	-4.9	-3.3	-0.9	14.6	-2.9	-0.8	-6.9	-6.1	0.3
Aug	-5.0	-13.7	-5.6	-0.1	0.4	-17.1	1.4	-2.7	-8.0	-5.9	-5.2
Sep	-4.0	-9.6	-5.1	1.5	2.6	-12.0	-2.1	0.4	-8.0	-6.1	-3.8
Oct	-2.6	-6.3	-3.3	3.8	-1.9	-7.4	-0.9	1.5	-4.0	-6.8	-0.9
Nov	-2.9	-1.2	-3.6	-2.1	0.1	0.9	-1.6	-0.7	-3.0	-7.3	-3.0
Dec	-2.7	-3.9	-3.5	0.9	0.2	-2.5	-2.3	-4.4	-0.6	-5.8	-1.8
2023 Jan	-2.9	-11.8	-2.3	-3.1	-0.7	-11.1	-4.3	3.1	-2.0	-7.0	-6.3
Feb	-2.7	-9.7	-1.8	-5.2	-1.7	-10.2	0.7	0.4	-	-4.6	-7.1
Mar	-1.9	-12.8	-1.1	-1.2	-0.2	-11.9	2.2	2.9	1.7	-6.4	-6.0
Apr	-1.4	-12.6	-0.1	-1.5	-3.3	-13.0	1.5	0.8	4.9	-5.4	-6.3
May	-2.1	-12.9	-0.6	-4.9	-2.8	-13.0	3.4	0.2	5.0	-6.6	-6.9
Jun	0.7	-12.5	3.1	-4.0	-2.5	-14.4	4.3	4.4	7.5	-1.5	-6.7
Jul	0.4	-15.7	3.0	-5.0	-0.4	-17.0	-0.2	4.4	8.2	-2.7	-7.5

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

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



# IOP5 Output of the Production Industries

continued

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

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	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>												
2021	May	1.4	4.3	0.6	6.6	-	5.0	1.0	5.7	-3.6	0.1	6.2
	Jun	-1.6	-10.5	-0.7	-5.8	2.4	-14.3	4.8	-4.4	1.2	-0.7	-6.2
	Jul	0.2	19.1	-0.4	-4.7	0.6	25.4	0.9	2.3	-1.2	-1.8	1.5
	Aug	0.5	18.6	-0.1	-3.9	-1.0	23.6	-1.1	0.1	1.1	-0.9	3.2
	Sep	-1.0	-3.5	-0.5	-1.8	-1.7	-4.0	0.2	-1.1	-	-0.6	-1.5
	Oct	-1.0	-3.9	-0.7	-5.0	3.3	-4.5	-2.3	2.5	-3.6	-0.1	-4.7
	Nov	0.2	-2.6	-0.3	5.8	-	-4.1	1.7	-0.3	-0.1	-0.4	2.5
	Dec	-	-2.4	-	0.7	0.7	-2.3	-0.9	4.8	-1.6	-2.2	-0.3
2022	Jan	-	5.3	-0.8	2.1	0.2	4.6	1.2	-7.7	0.9	3.1	3.1
	Feb	-0.3	-0.1	-0.5	0.3	-0.2	1.1	-1.2	2.0	-1.1	-2.5	-0.1
	Mar	-0.1	0.5	0.1	-1.6	0.4	-0.3	0.5	-1.0	-0.5	1.3	-0.1
	Apr	-0.4	-2.9	-0.7	1.3	1.3	-2.6	-3.4	0.6	-1.6	-0.8	-
	May	0.1	0.7	0.4	0.5	-2.7	0.7	1.0	0.8	0.5	0.4	-0.4
	Jun	-1.1	-2.6	-1.3	-0.8	1.6	-1.5	1.2	-0.6	-0.2	-3.2	-1.1
	Jul	-0.4	5.8	-0.6	-0.6	-2.6	6.1	0.5	-0.6	-0.9	-0.2	0.1
	Aug	-1.2	-8.2	-0.8	-0.7	0.3	-10.7	3.3	-1.8	-0.1	-0.7	-2.5
	Sep	0.1	1.1	-	-0.2	0.5	1.9	-3.1	2.1	-0.1	-0.8	-0.1
	Oct	0.3	-0.3	1.1	-2.9	-1.2	0.5	-1.2	3.7	0.7	-0.9	-1.8
	Nov	-	2.7	-0.5	-0.1	2.0	4.4	0.9	-2.5	0.9	-0.9	0.4
	Dec	0.2	-5.1	0.1	3.8	0.7	-5.6	-1.6	0.9	0.9	-0.7	0.9
2023	Jan	-0.2	-3.3	0.4	-1.9	-0.7	-4.6	-0.9	-0.6	-0.4	1.8	-1.6
	Feb	-0.1	2.3	0.1	-2.0	-1.2	2.1	4.0	-0.6	0.9	-	-0.9
	Mar	0.8	-3.0	0.7	2.6	2.0	-2.2	2.0	1.4	1.2	-0.7	1.0
	Apr	-	-2.7	0.4	1.0	-1.9	-3.8	-4.1	-1.4	1.5	0.3	-0.4
	May	-0.6	0.4	-0.1	-3.0	-2.2	0.6	2.9	0.2	0.6	-0.9	-1.0
	Jun	1.8	-2.1	2.4	-	2.0	-3.1	2.0	3.6	2.1	2.1	-0.9
	Jul	-0.7	1.9	-0.8	-1.5	-0.5	2.9	-3.8	-0.6	-0.2	-1.4	-0.7
<b>Percentage change, latest 3 months on same 3 months a year ago<sup>2</sup></b>												
2021	May	22.8	-16.9	30.6	17.4	11.1	-22.7	24.1	7.4	49.1	34.3	1.3
	Jun	23.3	-26.4	32.4	18.5	11.9	-34.1	29.1	9.3	49.0	35.8	-1.0
	Jul	14.0	-25.1	19.6	12.3	10.1	-31.6	17.3	6.0	28.0	20.7	-2.6
	Aug	7.1	-17.2	10.4	3.1	7.5	-22.1	11.6	2.7	14.7	10.5	-4.2
	Sep	3.9	-5.7	5.6	-2.3	6.4	-8.5	6.4	2.3	7.8	4.6	-3.1
	Oct	1.9	-0.5	2.7	-5.3	6.1	-2.5	3.3	3.9	2.6	1.2	-3.3
	Nov	-0.1	-2.9	-	-4.7	6.6	-5.5	1.3	5.2	-2.3	-2.1	-3.7
	Dec	-1.5	-7.2	-1.5	-4.1	6.2	-10.9	2.0	8.3	-6.2	-4.3	-5.0
2022	Jan	-1.7	-6.8	-1.8	-3.2	5.4	-10.8	3.1	7.5	-6.8	-4.1	-3.9
	Feb	-1.6	-4.4	-1.7	-4.5	4.4	-7.9	3.5	7.0	-7.1	-3.8	-3.5
	Mar	-1.6	0.3	-2.0	-5.0	4.1	-2.5	2.2	3.5	-7.1	-2.8	-1.8
	Apr	-2.0	7.6	-3.0	-5.7	4.4	6.7	1.2	3.3	-8.7	-4.3	-
	May	-2.6	11.6	-3.7	-8.0	4.3	12.1	1.6	0.9	-8.2	-4.7	-0.7
	Jun	-2.7	19.8	-4.2	-8.7	3.8	24.9	-0.2	1.0	-7.6	-6.2	0.3
	Jul	-3.1	16.9	-4.5	-7.7	1.5	21.8	-1.5	-0.2	-6.6	-6.3	-0.5
	Aug	-3.7	5.4	-5.0	-3.7	0.6	7.2	-1.4	-0.5	-7.4	-6.5	-1.1
	Sep	-4.1	-4.8	-5.2	-0.7	0.7	-6.1	-1.2	-1.1	-7.7	-6.0	-2.9
	Oct	-3.9	-10.0	-4.7	1.7	0.3	-12.3	-0.5	-0.3	-6.7	-6.2	-3.4
	Nov	-3.2	-5.8	-4.0	1.0	0.3	-6.3	-1.5	0.4	-5.1	-6.7	-2.6
	Dec	-2.7	-3.8	-3.5	0.8	-0.5	-3.1	-1.6	-1.2	-2.6	-6.6	-1.9
2023	Jan	-2.8	-5.7	-3.1	-1.4	-0.1	-4.3	-2.7	-0.8	-1.9	-6.7	-3.7
	Feb	-2.8	-8.6	-2.5	-2.5	-0.8	-8.0	-2.0	-0.4	-0.9	-5.8	-5.1
	Mar	-2.5	-11.5	-1.8	-3.2	-0.9	-11.1	-0.5	2.1	-0.1	-6.0	-6.4
	Apr	-2.0	-11.7	-1.0	-2.7	-1.8	-11.7	1.5	1.3	2.2	-5.5	-6.4
	May	-1.8	-12.8	-0.6	-2.5	-2.1	-12.6	2.4	1.3	3.8	-6.1	-6.4
	Jun	-0.9	-12.7	0.8	-3.5	-2.9	-13.5	3.1	1.8	5.8	-4.5	-6.7
	Jul	-0.3	-13.7	1.8	-4.6	-1.9	-14.8	2.5	3.0	6.9	-3.6	-7.1

<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

		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	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>												
2021	May	0.5	-14.0	1.2	4.2	0.5	-17.5	-0.2	4.2	-0.6	1.1	-2.1
	Jun	0.3	-18.8	1.3	4.4	0.5	-23.9	-0.2	3.5	-1.5	1.9	-2.9
	Jul	0.2	-8.9	0.4	2.2	1.2	-12.6	2.5	3.9	-3.4	0.3	-0.6
	Aug	-0.6	3.6	-0.6	-5.2	2.1	2.9	5.1	0.6	-1.9	-1.6	-1.8
	Sep	-0.4	24.4	-0.9	-9.5	0.9	30.8	3.7	0.9	-0.9	-3.0	0.8
	Oct	-0.9	23.4	-1.2	-11.4	0.1	30.3	0.4	0.3	-0.5	-2.8	-0.6
	Nov	-1.2	9.6	-1.3	-7.3	-	12.2	-1.2	1.4	-2.1	-2.1	-1.3
	Dec	-1.4	-3.4	-1.3	-3.5	2.0	-4.2	-1.8	3.3	-3.8	-1.8	-3.2
2022	Jan	-0.8	-6.2	-1.2	2.8	2.1	-8.4	-0.1	1.5	-3.2	-1.1	-0.5
	Feb	-0.3	-2.1	-1.1	4.4	1.8	-3.3	-0.2	0.7	-2.6	-1.3	1.7
	Mar	-0.1	2.8	-1.1	4.1	0.7	2.2	0.5	-4.0	-1.1	0.2	3.6
	Apr	-0.5	1.9	-1.1	1.3	0.9	2.2	-1.5	-2.3	-1.9	-0.7	1.7
	May	-0.5	0.4	-0.8	0.3	0.3	0.4	-1.9	-1.7	-1.8	0.2	0.7
	Jun	-0.9	-3.0	-1.0	0.3	0.2	-2.5	-2.5	1.0	-2.0	-1.6	-0.8
	Jul	-1.0	-0.9	-1.1	-	-1.6	-0.2	-0.3	0.3	-1.2	-1.9	-1.1
	Aug	-1.8	-2.1	-2.0	-0.7	-1.5	-1.6	2.0	-0.8	-1.1	-3.5	-2.1
	Sep	-1.8	-1.1	-1.9	-1.5	-2.1	-1.6	2.7	-1.2	-1.0	-2.9	-2.5
	Oct	-1.6	-5.0	-1.3	-2.4	-1.1	-6.2	1.4	0.2	-0.6	-2.7	-3.5
	Nov	-0.6	-2.1	-0.2	-2.8	-0.4	-1.9	-1.4	2.3	0.4	-2.2	-2.8
	Dec	-	-2.4	0.5	-2.1	0.7	-1.1	-2.1	3.1	1.5	-2.5	-2.2
2023	Jan	0.3	-1.7	0.4	-0.3	1.6	-	-2.3	1.0	1.8	-1.6	-0.8
	Feb	0.2	-4.9	0.4	0.7	0.8	-5.0	-0.7	-0.2	1.7	-0.3	-0.9
	Mar	0.1	-5.4	0.6	-	0.3	-6.3	1.6	-0.8	1.4	0.9	-1.2
	Apr	0.4	-4.6	1.0	-	-0.7	-5.6	2.7	-0.2	2.2	0.6	-1.2
	May	0.5	-4.2	1.2	0.2	-1.1	-4.7	2.5	-	2.9	-0.2	-0.7
	Jun	0.7	-4.3	1.6	-	-1.8	-5.1	1.0	0.7	3.7	-	-1.0
	Jul	0.6	-3.2	1.7	-2.0	-1.7	-3.7	0.7	1.9	3.3	-	-1.8

<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
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	108.7	78.8	101.0	79.6	109.3	122.9
2022	110.9	79.0	98.2	86.8	104.1	118.2
2022 Q2	111.7	78.8	98.7	93.7	106.0	115.6
Q3	110.3	79.6	97.6	80.4	102.0	113.5
Q4	110.0	79.9	95.0	81.1	97.4	129.6
2023 Q1	110.2	78.4	92.7	83.0	98.7	123.5
Q2	110.6	77.3	91.7	86.9	98.0	127.3
2022 May	112.5	78.7	99.5	96.5	108.3	116.1
Jun	111.0	77.0	96.8	89.2	101.9	117.5
Jul	110.8	78.7	99.6	80.2	101.6	114.1
Aug	110.5	79.7	97.2	81.2	103.8	106.7
Sep	109.7	80.3	96.1	79.8	100.7	119.8
Oct	109.9	79.2	96.3	81.2	99.2	134.6
Nov	110.6	80.1	94.7	81.6	97.1	124.8
Dec	109.4	80.4	93.9	80.5	95.9	129.3
2023 Jan	110.3	80.3	93.5	81.2	100.3	122.3
Feb	110.4	78.0	92.8	82.3	97.3	121.5
Mar	110.0	76.8	91.7	85.4	98.5	126.8
Apr	109.6	74.7	92.7	87.5	98.2	124.5
May	110.5	76.5	90.5	88.5	97.4	123.8
Jun	111.6	80.6	91.8	84.7	98.4	133.5
Jul	111.3	77.5	93.0	82.6	99.9	130.9
<b>Percentage change, latest year on previous year</b>						
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	8.9	9.4	-2.0	3.7	3.8
2022	2.0	0.3	-2.8	9.0	-4.7	-3.8
<b>Percentage change, latest month on same month a year ago</b>						
2021 May	14.7	58.1	40.8	17.2	8.0	3.8
Jun	9.7	14.9	19.3	28.9	12.0	-9.4
Jul	3.6	1.1	7.2	21.7	6.5	-3.0
Aug	3.5	1.3	4.8	22.8	3.1	0.7
Sep	2.3	7.7	4.7	-	2.2	1.4
Oct	2.3	7.5	2.7	3.9	-0.3	12.3
Nov	2.9	3.6	-0.8	9.0	-2.9	12.3
Dec	4.9	0.9	-0.4	12.7	-1.5	27.9
2022 Jan	8.1	5.1	0.8	32.1	6.4	-6.7
Feb	6.9	5.3	1.4	39.2	1.9	-0.2
Mar	6.7	1.3	0.9	44.0	3.3	-7.6
Apr	1.8	1.3	-3.5	32.2	-3.0	4.7
May	2.1	-3.2	-3.5	16.8	-0.2	-11.7
Jun	1.2	-6.5	-3.8	-0.8	-8.4	2.4
Jul	-	-0.4	-2.0	-8.3	-7.1	-6.5
Aug	0.2	0.2	-2.2	-7.5	-4.6	-13.2
Sep	-0.2	0.4	-5.4	-4.6	-6.7	1.2
Oct	-0.8	-0.4	-4.8	-1.3	-10.2	5.3
Nov	-0.4	1.1	-5.7	-3.3	-12.6	-0.3
Dec	-0.8	0.6	-6.2	-6.5	-14.2	-10.2
2023 Jan	-1.1	2.4	-7.3	-8.2	-12.4	10.9
Feb	-0.7	2.5	-8.6	-9.9	-11.1	2.5
Mar	-1.7	-2.6	-10.0	-10.5	-9.8	12.0
Apr	-1.8	-7.3	-7.1	-8.4	-9.0	10.0
May	-1.7	-2.9	-9.0	-8.3	-10.1	6.6
Jun	0.6	4.7	-5.2	-5.1	-3.4	13.6
Jul	0.4	-1.5	-6.6	3.0	-1.7	14.7

<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	52.8	81.3	50.5	18.0	54.6	108.3	67.4
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z
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	111.7	117.9	101.6	140.6	126.9	99.0	114.2
2022	108.6	110.1	100.3	124.9	113.9	91.1	114.6
2022 Q2	114.0	111.5	97.6	124.4	114.4	91.9	113.5
Q3	107.2	108.8	101.7	123.7	111.6	88.3	114.6
Q4	104.0	106.8	101.4	122.0	111.3	91.6	114.6
2023 Q1	106.6	111.1	104.7	121.1	111.2	92.3	116.5
Q2	104.4	112.9	107.2	125.8	111.1	99.1	118.4
2022 May	116.6	111.4	97.3	123.5	115.9	91.4	113.8
Jun	111.7	109.9	99.1	124.4	114.8	90.7	114.3
Jul	109.4	110.1	100.3	122.5	113.0	89.1	114.4
Aug	107.7	108.1	103.6	124.9	111.4	87.6	115.6
Sep	104.6	108.3	101.3	123.7	110.5	88.3	113.7
Oct	104.7	107.0	100.3	123.2	110.1	90.6	114.7
Nov	103.1	107.2	101.6	122.0	110.9	92.0	114.9
Dec	104.3	106.3	102.3	120.8	113.0	92.2	114.1
2023 Jan	106.5	110.1	101.2	125.6	111.2	91.3	115.7
Feb	107.8	110.6	104.7	117.9	111.4	92.3	117.0
Mar	105.5	112.6	108.1	119.9	110.9	93.3	116.7
Apr	104.8	112.1	103.2	125.6	112.2	97.6	119.4
May	103.0	112.2	108.1	122.7	110.5	97.5	117.8
Jun	105.4	114.5	110.2	129.0	110.5	102.2	118.0
Jul	99.5	114.3	106.6	130.6	113.5	101.7	116.6
<b>Percentage change, latest year on previous year</b>							
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	15.0	9.6	4.5	11.8	28.1	7.8	15.7
2022	-2.8	-6.6	-1.2	-11.2	-10.3	-8.0	0.3
<b>Percentage change, latest month on same month a year ago</b>							
2021 May	53.2	39.7	7.9	53.1	83.8	93.3	40.5
Jun	21.0	18.2	10.2	24.4	31.4	31.1	30.9
Jul	10.2	10.3	4.3	9.3	26.0	10.5	18.0
Aug	5.4	6.7	-	-3.1	26.8	0.5	11.3
Sep	4.6	-1.3	0.9	-7.4	23.5	-10.4	11.4
Oct	2.3	-4.7	-1.9	-9.9	5.3	-12.6	9.5
Nov	0.9	-7.6	-3.4	-15.0	-0.3	-18.6	6.7
Dec	-3.0	-11.7	7.0	-1.4	-11.8	-19.7	3.3
2022 Jan	-0.1	-5.9	1.9	-7.9	-1.3	-11.7	2.7
Feb	-3.1	-5.5	-6.3	-13.3	-7.2	-12.8	4.4
Mar	-5.5	-6.5	-2.0	-9.3	-13.9	-12.0	3.8
Apr	-2.3	-6.6	-2.9	-15.5	-15.3	-10.4	0.3
May	3.8	-10.0	-3.2	-19.9	-12.9	-2.0	0.1
Jun	-0.2	-9.3	-2.9	-12.3	-13.6	-6.8	-2.2
Jul	-1.4	-6.7	-2.0	-13.2	-11.4	-8.0	-1.8
Aug	-2.2	-8.0	2.2	-8.8	-13.9	-11.2	-0.9
Sep	-6.3	-6.0	-0.1	-8.5	-16.7	-9.1	-2.0
Oct	-5.4	-6.1	0.6	-7.6	-5.7	-6.1	-0.9
Nov	-7.6	-4.5	-0.1	-7.3	-6.8	-2.8	-0.5
Dec	-3.2	-3.3	0.1	-8.4	-1.9	-0.8	1.1
2023 Jan	-3.0	-3.3	-1.4	-4.0	-9.3	-1.0	1.6
Feb	0.4	-1.8	5.9	-7.2	-4.9	-0.3	-0.3
Mar	-4.0	-0.5	8.7	-8.4	-3.3	-	0.6
Apr	-8.0	-0.9	7.0	0.2	-0.4	4.2	6.3
May	-11.7	0.8	11.1	-0.6	-4.7	6.7	3.5
Jun	-5.7	4.2	11.1	3.7	-3.8	12.7	3.2
Jul	-9.1	3.8	6.3	6.7	0.4	14.1	2.0

<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>							
2021	May	0.4	2.2	-0.3	14.4	-2.4	21.6
	Jun	-0.4	1.3	-2.3	8.8	2.6	-12.7
	Jul	1.1	-4.0	0.9	-2.7	-1.7	6.3
	Aug	-0.5	0.7	-2.2	0.4	-0.5	0.8
	Sep	-0.4	0.4	2.2	-4.7	-0.8	-3.7
	Oct	0.8	-0.4	-0.5	-1.7	2.4	8.0
	Nov	0.2	-0.4	-0.7	2.5	0.5	-2.0
	Dec	-0.6	0.9	-0.3	2.1	0.6	14.9
2022	Jan	1.1	-1.9	0.7	2.8	2.4	-23.3
	Feb	-0.3	-2.9	0.6	3.1	-4.5	7.3
	Mar	0.5	3.6	0.4	4.6	-0.1	-4.4
	Apr	-0.1	2.2	-2.1	-	-1.3	-
	May	0.7	-2.4	-0.3	1.1	0.4	2.6
	Jun	-1.3	-2.2	-2.7	-7.6	-5.9	1.2
	Jul	-0.1	2.2	2.8	-10.1	-0.3	-2.9
	Aug	-0.3	1.3	-2.4	1.3	2.1	-6.5
	Sep	-0.7	0.6	-1.1	-1.7	-3.0	12.4
	Oct	0.2	-1.3	0.2	1.7	-1.4	12.3
	Nov	0.6	1.1	-1.6	0.4	-2.1	-7.2
	Dec	-1.1	0.4	-0.9	-1.3	-1.2	3.6
2023	Jan	0.8	-0.2	-0.4	0.9	4.5	-5.4
	Feb	0.1	-2.8	-0.8	1.3	-3.0	-0.7
	Mar	-0.4	-1.5	-1.2	3.8	1.3	4.4
	Apr	-0.3	-2.7	1.1	2.4	-0.4	-1.8
	May	0.8	2.3	-2.4	1.2	-0.8	-0.6
	Jun	1.0	5.4	1.4	-4.3	1.1	7.9
	Jul	-0.3	-3.9	1.3	-2.5	1.5	-2.0
<b>Percentage change, latest 3 months on same 3 months a year ago</b>							
2021	May	10.6	50.3	30.2	-7.3	6.6	-4.2
	Jun	14.1	54.8	36.2	14.4	10.8	-7.0
	Jul	9.1	20.6	21.0	22.6	8.8	-2.9
	Aug	5.5	5.5	10.1	24.4	7.1	-4.0
	Sep	3.1	3.3	5.6	14.1	3.9	-0.4
	Oct	2.7	5.4	4.1	8.3	1.6	4.7
	Nov	2.5	6.2	2.2	4.2	-0.4	8.6
	Dec	3.4	3.9	0.5	8.5	-1.6	17.5
2022	Jan	5.3	3.1	-0.1	17.3	0.6	10.8
	Feb	6.6	3.7	0.6	27.2	2.2	6.6
	Mar	7.2	3.8	1.0	38.4	3.9	-4.9
	Apr	5.1	2.6	-0.4	38.3	0.7	-1.3
	May	3.5	-0.2	-2.0	30.0	-	-5.4
	Jun	1.7	-2.8	-3.6	14.9	-3.9	-2.1
	Jul	1.1	-3.4	-3.1	2.3	-5.3	-5.6
	Aug	0.4	-2.3	-2.7	-5.5	-6.7	-6.0
	Sep	-	0.1	-3.2	-6.8	-6.1	-6.3
	Oct	-0.3	0.1	-4.2	-4.5	-7.2	-2.2
	Nov	-0.4	0.4	-5.3	-3.1	-9.9	2.1
	Dec	-0.7	0.4	-5.6	-3.7	-12.4	-2.1
2023	Jan	-0.8	1.4	-6.4	-6.0	-13.1	-0.8
	Feb	-0.9	1.8	-7.4	-8.2	-12.6	0.1
	Mar	-1.2	0.7	-8.6	-9.6	-11.1	8.4
	Apr	-1.4	-2.6	-8.6	-9.6	-10.0	8.1
	May	-1.7	-4.3	-8.7	-9.1	-9.6	9.5
	Jun	-1.0	-1.9	-7.1	-7.3	-7.6	10.1
	Jul	-0.2	0.1	-7.0	-3.8	-5.2	11.6

<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	52.8	81.3	50.5	18.0	54.6	108.3	67.4	
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z	
<b>Percentage change, latest month on previous month</b>								
2021	May	-3.6	2.2	1.1	3.9	0.1	-10.8	1.5
	Jun	-0.5	-2.1	1.6	-7.9	-0.1	4.2	2.8
	Jul	-0.8	-2.7	0.3	-0.5	-4.0	-0.3	-0.3
	Aug	-0.9	-0.4	-1.0	-3.1	1.4	1.8	0.1
	Sep	1.5	-1.9	-	-1.2	2.5	-1.4	-0.5
	Oct	-0.8	-1.1	-1.7	-1.4	-12.0	-0.7	-0.3
	Nov	0.8	-1.4	2.0	-1.3	1.9	-2.0	-0.2
	Dec	-3.3	-2.2	0.4	0.2	-3.3	-1.8	-2.2
2022	Jan	1.8	3.7	0.4	-0.7	6.4	-0.8	0.9
	Feb	-2.2	-1.1	-3.7	-2.9	-4.4	0.4	3.0
	Mar	2.4	0.5	0.7	3.0	-2.2	0.7	-1.1
	Apr	3.5	-0.1	-3.0	-4.2	-1.8	0.4	-3.2
	May	2.5	-1.5	0.8	-1.5	3.0	-2.3	1.4
	Jun	-4.2	-1.3	1.9	0.8	-0.9	-0.9	0.5
	Jul	-2.0	0.2	1.2	-1.5	-1.6	-1.7	0.1
	Aug	-1.6	-1.9	3.3	2.0	-1.4	-1.7	1.0
	Sep	-2.8	0.3	-2.2	-1.0	-0.9	0.8	-1.6
	Oct	0.1	-1.2	-1.0	-0.4	-0.3	2.6	0.8
	Nov	-1.5	0.3	1.3	-1.0	0.7	1.5	0.2
	Dec	1.2	-0.9	0.6	-1.0	1.8	0.2	-0.7
2023	Jan	2.0	3.6	-1.0	4.0	-1.6	-0.9	1.4
	Feb	1.3	0.4	3.4	-6.1	0.2	1.1	1.1
	Mar	-2.1	1.8	3.3	1.6	-0.5	1.0	-0.2
	Apr	-0.7	-0.5	-4.5	4.8	1.2	4.6	2.3
	May	-1.7	0.1	4.7	-2.3	-1.5	-	-1.3
	Jun	2.3	2.1	1.9	5.1	-	4.8	0.2
	Jul	-5.5	-0.2	-3.2	1.3	2.8	-0.5	-1.1
<b>Percentage change, latest 3 months on same 3 months a year ago</b>								
2021	May	55.1	35.4	13.2	45.3	87.1	72.6	32.9
	Jun	54.3	35.5	14.5	44.2	75.7	77.5	39.9
	Jul	25.8	21.7	7.4	27.1	43.2	36.8	29.0
	Aug	11.9	11.6	4.7	9.2	28.1	12.6	19.5
	Sep	6.7	5.1	1.7	-0.7	25.4	-0.5	13.5
	Oct	4.1	0.1	-0.4	-6.8	18.2	-7.8	10.7
	Nov	2.6	-4.5	-1.5	-10.8	9.1	-13.9	9.2
	Dec	0.1	-8.0	0.4	-9.1	-2.8	-17.0	6.5
2022	Jan	-0.7	-8.4	1.6	-8.5	-4.7	-16.8	4.2
	Feb	-2.0	-7.8	0.6	-7.7	-6.8	-14.9	3.5
	Mar	-2.9	-6.0	-2.2	-10.2	-7.6	-12.1	3.7
	Apr	-3.6	-6.2	-3.8	-12.7	-12.2	-11.7	2.8
	May	-1.4	-7.7	-2.7	-15.0	-14.0	-8.4	1.4
	Jun	0.4	-8.7	-3.0	-16.0	-13.9	-6.5	-0.6
	Jul	0.7	-8.7	-2.7	-15.3	-12.6	-5.6	-1.3
	Aug	-1.2	-8.0	-0.9	-11.5	-13.0	-8.7	-1.6
	Sep	-3.3	-6.9	-	-10.2	-14.1	-9.5	-1.6
	Oct	-4.6	-6.7	0.9	-8.3	-12.4	-8.8	-1.3
	Nov	-6.4	-5.5	0.1	-7.8	-10.0	-6.0	-1.1
	Dec	-5.4	-4.6	0.2	-7.7	-4.8	-3.3	-0.1
2023	Jan	-4.6	-3.7	-0.5	-6.6	-6.1	-1.5	0.7
	Feb	-2.0	-2.8	1.5	-6.5	-5.4	-0.7	0.8
	Mar	-2.2	-1.9	4.3	-6.5	-5.9	-0.4	0.6
	Apr	-3.9	-1.1	7.2	-5.2	-2.9	1.3	2.1
	May	-8.0	-0.2	8.9	-3.0	-2.8	3.6	3.4
	Jun	-8.5	1.3	9.8	1.1	-3.0	7.8	4.3
	Jul	-8.9	2.9	9.5	3.2	-2.7	11.1	2.9

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

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

# IOP5 Output of the Production Industries

continued

Chained volume indices of gross value added<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>								
2021	May	3.9	5.6	2.2	5.8	-0.9	3.6	
	Jun	5.6	8.2	2.0	23.0	3.2	-1.4	
	Jul	3.8	5.6	0.3	27.4	1.5	5.4	
	Aug	1.9	0.9	-1.9	19.9	1.2	-0.7	
	Sep	0.5	-1.9	-1.5	5.8	-1.5	2.5	
	Oct	0.1	-1.5	-1.1	-2.4	-0.6	0.3	
	Nov	0.2	-0.9	0.5	-5.6	-	3.3	
	Dec	0.3	0.1	-0.3	-2.4	2.3	9.3	
	2022	Jan	0.6	-0.6	-0.2	2.1	3.1	2.8
		Feb	0.4	-1.8	-0.2	6.2	1.9	0.3
		Mar	0.7	-2.2	0.9	8.9	-0.1	-13.9
		Apr	0.5	-0.8	0.6	9.0	-3.2	-9.1
May		0.9	1.6	-0.5	8.1	-3.1	-8.1	
Jun		0.2	1.3	-2.7	2.1	-4.5	1.4	
Jul		-0.1	-0.5	-2.4	-5.8	-4.5	0.8	
Aug		-1.1	-1.2	-2.5	-12.8	-5.6	-1.3	
Sep		-1.2	1.0	-1.1	-14.2	-3.8	-1.8	
Oct		-1.3	2.1	-2.1	-8.9	-2.6	3.8	
Nov		-0.6	1.8	-2.2	-3.2	-3.4	12.1	
Dec		-0.3	0.4	-2.7	0.9	-4.5	14.1	
2023	Jan	-	0.6	-2.6	0.4	-3.4	4.3	
	Feb	-	-0.4	-2.4	0.6	-1.2	-1.6	
	Mar	0.2	-1.9	-2.4	2.3	1.3	-4.7	
	Apr	-0.1	-4.7	-1.8	4.9	0.2	-1.0	
	May	-	-4.5	-1.9	7.1	0.2	0.5	
	Jun	0.3	-1.4	-1.1	4.7	-0.7	3.0	
	Jul	1.0	2.2	-0.7	0.3	0.6	4.1	

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

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# IOP5 Output of the Production Industries

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

2021	May	4.1	0.3	-0.1	5.8	4.7	-6.9	1.5	
	Jun	1.2	1.3	-1.9	2.7	4.0	-6.8	2.2	
	Jul	-2.4	0.4	-0.5	-0.4	0.3	-9.2	3.2	
	Aug	-3.6	-2.5	1.4	-6.0	-2.3	-3.6	3.7	
	Sep	-2.4	-4.2	1.0	-7.0	-2.3	-0.8	2.0	
	Oct	-0.9	-4.5	-0.8	-7.3	-3.7	1.7	0.4	
	Nov	0.3	-4.3	-1.0	-4.7	-5.5	-1.5	-0.8	
	Dec	-0.8	-4.2	-0.5	-4.0	-9.9	-3.0	-1.5	
	2022	Jan	-1.0	-3.0	1.4	-2.7	-5.8	-4.3	-1.7
		Feb	-2.7	-1.5	0.3	-2.6	-3.7	-3.7	-0.9
		Mar	-0.9	1.1	-0.9	-2.0	0.9	-2.1	0.9
		Apr	0.6	0.9	-3.8	-2.8	-3.5	-0.1	1.0
May		4.7	0.4	-3.4	-2.6	-3.3	0.2	-0.6	
Jun		4.6	-1.6	-2.7	-4.0	-3.1	-0.9	-2.0	
Jul		2.0	-2.2	0.7	-3.4	-0.2	-3.0	-0.9	
Aug		-3.4	-2.8	3.3	-2.1	-1.1	-3.9	0.6	
Sep		-6.0	-2.3	4.2	-0.6	-2.4	-3.9	1.0	
Oct		-6.2	-2.4	2.8	0.4	-3.4	-1.7	0.4	
Nov		-5.0	-1.7	0.1	-0.8	-2.3	1.3	-0.3	
Dec		-3.0	-1.8	-0.3	-1.4	-0.3	3.7	-	
2023	Jan	-1.0	0.1	-	-0.9	0.9	3.3	0.2	
	Feb	2.0	1.4	1.6	-1.2	1.2	1.8	1.0	
	Mar	2.5	4.0	3.2	-0.7	-0.2	0.8	1.7	
	Apr	1.3	3.6	3.6	-1.4	-0.2	2.8	2.4	
	May	-1.7	3.0	3.7	1.1	-0.6	4.6	2.0	
	Jun	-2.1	1.7	2.4	3.8	-0.1	7.4	1.6	
	Jul	-3.2	1.7	2.8	5.2	-	6.4	-0.2	

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**Next publication:** 12th October 2023  
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