

Statistical bulletin

Index of Production, UK: October 2020

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



Contact:
Mark Stephens
indexofproduction@ons.gov.uk
+44 (0)1633 456387

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1 . Main points

- Production output rose by 1.3% between September 2020 and October 2020, with all sectors showing growth: manufacturing rose by 1.7%; electricity and gas rose by 0.3%; mining and quarrying rose by 0.2%; and water supply rose by 0.6%.
- In October 2020, the index of production was 4.4% below February 2020, the previous month of “normal” trading conditions prior to the coronavirus (COVID-19) pandemic.
- The monthly increase of 1.7% in manufacturing output was led by manufacturing of transport equipment; 11 of the 13 subsectors displayed upward contributions.
- Total production output increased by 7.6% for the three months to October 2020, compared with the three months to July 2020; this was primarily because of the strength displayed during July 2020.
- For the three months to October 2020, compared with the three months to October 2019, production output decreased by 6.1%; this was led by a fall in manufacturing of 7.8%.
- The coronavirus continued to have a significant impact on our estimates of monthly, three-monthly and three-monthly on a year ago growth for production output during October 2020; for further and detailed analysis of the effect on our monthly index of production estimate, please see our article [Coronavirus and the impact on output in the UK economy, UK: October 2020](#), published today (10 December 2020).

2 . Index of Production data

[Index of Production time series](#)

Dataset DIOP | Released 10 December 2020

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

[Output of the production industries](#)

Dataset | Released 10 December 2020

Index values and growth rates for production, manufacturing and the main industrial groupings in the UK.

[Index of Production and industry sectors to four decimal places](#)

Dataset | Released 10 December 2020

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

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

Dataset | Released 10 December 2020

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

[Export proportions for manufacturing industries](#)

Dataset | Released 10 December 2020

Monthly, three-monthly and annual export data for the manufacturing industries, collected by the MBS at industry level in the UK.

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

3 . Measuring the data

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

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

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

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

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

End of EU exit transition period

After the transition period ends on 31 December 2020, the UK statistical system will continue to collect and produce our wide range of economic and social statistics. We are committed to continued alignment with international statistical standards, enabling comparability both over time and internationally and we will work with users of statistics to make sure they have the data they need to support the decisions they have to make.

Additionally, the Withdrawal Agreement outlines a need for UK gross national income (a fundamental component of the national accounts, which includes GDP) statistics to remain in line with those of other EU countries until EU budget contributions are finalised for the years in which we were a member, and making budget contributions during the transition period. To ensure this comparability during this period, the national accounts will continue to be produced according to European System of Accounts (ESA) 2010 definitions and standards until at least 2024.

As the shape of the UK’s future statistical relationship with the EU becomes clearer over the coming period, the Office for National Statistics (ONS) is making preparations to assume responsibilities that as part of our membership of the EU, and during the transition period, were delegated to the statistical office of the EU, Eurostat. This includes responsibilities relating to international comparability of economic statistics, deciding what international statistical guidance to apply in the UK context and to provide further scrutiny of our statistics and sector classification decisions.

In applying international statistical standards and best practice to UK economic statistics, we will draw on the technical advice of experts in the UK and internationally, and our work will be underpinned by the UK’s well-established and robust framework for independent official statistics, set out in the Statistics and Registration Service Act 2007. Further information on our proposals will be made available in early 2021.

Coronavirus (COVID-19)

The ONS’ Monthly Business Survey (MBS) is fully online, meaning that business owners can log on from any location and submit their data at an appropriate time. Most other data in the IoP come from the BEIS and therefore will be less affected than survey data.

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

The ONS has released a [public statement](#) on the coronavirus and the production of statistics. Specific queries must be directed to the [Media Relations Office](#).

4 . Related links

[Coronavirus and the impact on output in the UK economy, UK: October 2020](#)

Article | Released 10 December 2020

Analysis of monthly growth for the production, services and construction industries in the UK economy between September and October 2020, highlighting the early impact from the coronavirus (COVID-19) pandemic.

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

Article | Released 10 January 2020

A comparison of the methodologies used to estimate motor vehicle manufacturing outputs by the Office for National Statistics (ONS) and the Society of Motor Manufacturers and Traders (SMMT).

[A comparison between official estimates of UK output and diffusion indices](#)

Article | Released 21 October 2019

The level of correlation between ONS data and IHS Markit and Chartered Institute of Procurement and Supply Purchasing Managers' Indices.

[GDP monthly estimate, UK: October 2020](#)

Bulletin | Released 10 December 2020

Gross domestic product (GDP) measures the value of goods and services produced in the UK. It estimates the size of and growth in the economy and includes the Index of Production (IoP), Index of Services (IoS) and construction output in Great Britain.

[Producer price inflation, UK: October 2020](#)

Bulletin | Released 18 November 2020

The corresponding price indices used to deflate the IoP are published in the monthly publication of UK producer price inflation.

[UK manufacturers' sales by product \(ProdCom\): 2019 results](#)

Bulletin | Released 1 July 2020

Product sales by manufacturers are published on an annual basis in ProdCom statistical bulletins; estimates are in current prices, unlike the chained volume measures published in the IoP release.

[Energy Trends: October 2020](#)

Bulletin | Released 26 November 2020

The data published by the Department for Business, Energy and Industrial Strategy (BEIS) in Energy Trends are used to measure the mining and quarrying, electricity and gas, and manufacture of coke and refined petroleum products sectors within this release.

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IOP5 Output of the Production Industries

Chained volume indices of gross value added¹

Seasonally adjusted 2018 = 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	80.9	725.1	102.2	91.8	68.2	67.9	199.0	278.7	231.6	213.2
	K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K24O	K24T
2015	96.3	96.5	96.4	99.7	93.3	89.1	86.7	98.3	90.5	102.4	97.3
2016	97.3	94.3	96.6	103.3	99.2	92.6	87.0	98.4	92.6	99.7	99.9
2017	99.1	95.0	98.9	101.2	101.5	93.6	90.0	98.6	97.3	100.8	98.9
2018	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2019	98.8	99.2	98.3	101.0	99.8	99.2	99.4	102.4	94.8	98.6	100.5
2019 Q3	98.3	100.0	97.6	99.9	100.5	100.3	98.0	101.7	94.5	97.6	100.1
2019 Q4	98.0	98.2	96.9	103.1	100.1	98.3	98.3	101.2	93.1	97.2	101.5
2020 Q1	96.0	94.9	95.2	98.4	100.4	94.8	93.2	104.1	88.3	95.5	98.1
2020 Q2	80.3	93.5	75.0	92.9	96.2	96.2	73.3	95.9	62.1	75.2	94.8
2020 Q3	91.8	94.7	89.1	100.4	100.8	94.6	86.8	102.4	78.2	92.0	97.7
2019 Aug	97.9	98.3	97.3	99.7	100.7	98.1	97.9	100.4	94.5	97.5	99.5
2019 Sep	98.3	104.5	97.2	99.4	100.7	105.4	98.0	101.1	94.1	97.6	101.2
2019 Oct	98.8	98.5	97.9	103.7	99.9	98.3	101.4	101.8	95.0	97.8	101.8
2019 Nov	97.8	99.6	96.5	103.8	100.0	99.6	97.7	101.3	92.4	96.7	102.2
2019 Dec	97.3	96.5	96.4	101.8	100.4	97.0	95.9	100.5	92.0	97.2	100.6
2020 Jan	97.2	96.8	96.6	98.9	100.4	96.6	94.9	102.0	91.5	97.7	98.8
2020 Feb	97.6	96.7	97.4	98.2	99.4	96.7	95.0	105.1	91.8	96.9	98.7
2020 Mar	93.1	91.2	91.5	98.1	101.4	91.1	89.8	105.2	81.6	92.0	96.8
2020 Apr	74.9	89.7	68.5	91.3	93.9	94.0	66.0	93.5	54.8	65.8	93.4
2020 May	79.1	92.1	73.9	91.7	95.3	94.6	73.6	95.7	59.9	74.4	93.9
2020 Jun	86.9	98.8	82.8	95.6	99.5	100.0	80.2	98.5	71.6	85.4	97.0
2020 Jul	91.5	97.1	88.5	99.9	100.6	97.2	87.1	103.4	77.2	90.6	98.2
2020 Aug	91.7	92.9	89.3	100.5	100.0	92.9	86.3	103.3	78.2	91.8	97.1
2020 Sep	92.1	94.1	89.4	100.9	101.8	93.8	87.0	100.4	79.2	93.4	98.0
2020 Oct	93.3	94.3	91.0	101.1	102.4	94.3	86.9	101.1	81.2	95.1	98.3
Percentage change, latest year on previous year											
2015	0.3	2.3	-0.5	2.1	3.0	4.4	-1.1	0.2	-2.4	0.3	2.7
2016	1.1	-2.3	0.3	3.6	6.3	3.8	0.3	0.1	2.2	-2.7	2.6
2017	1.8	0.7	2.3	-2.1	2.3	1.2	3.5	0.2	5.1	1.2	-0.9
2018	0.9	5.3	1.1	-1.2	-1.4	6.8	11.1	1.4	2.8	-0.8	1.1
2019	-1.2	-0.8	-1.7	1.0	-0.2	-0.8	-0.6	2.4	-5.2	-1.4	0.5
Percentage change, latest month on same month a year ago											
2019 Aug	-2.3	-6.7	-2.5	0.2	-0.2	-7.4	-1.3	0.6	-4.5	-3.1	-2.1
2019 Sep	-2.1	3.7	-3.4	0.1	0.5	5.0	-0.9	-	-5.5	-3.6	0.8
2019 Oct	-0.8	-2.8	-1.6	5.6	-	-3.1	3.1	0.9	-2.5	-3.1	2.0
2019 Nov	-1.1	-0.4	-2.4	5.7	0.8	-0.7	-	-0.4	-4.6	-2.0	2.7
2019 Dec	-1.5	-2.6	-2.5	3.4	1.2	-2.7	-3.0	-1.1	-4.8	-1.6	1.3
2020 Jan	-2.2	-0.3	-3.0	-1.9	2.0	0.7	-4.6	-1.3	-4.4	-2.9	-1.0
2020 Feb	-2.2	-2.6	-2.9	0.6	0.6	-2.0	-5.3	1.2	-4.5	-4.8	0.2
2020 Mar	-8.1	-12.1	-10.1	-0.3	2.5	-12.5	-12.2	-2.8	-16.0	-9.2	-3.8
2020 Apr	-23.7	-7.9	-29.9	-9.8	-5.0	-2.9	-34.1	-9.3	-40.6	-33.4	-6.3
2020 May	-20.3	-8.1	-25.1	-10.3	-5.5	-5.9	-28.8	-4.5	-38.3	-24.4	-7.6
2020 Jun	-12.1	0.9	-15.7	-7.2	-1.0	2.0	-18.7	-2.8	-25.3	-13.0	-3.7
2020 Jul	-7.3	-0.2	-10.1	-0.6	0.6	-0.2	-11.2	-0.2	-18.7	-7.2	-1.5
2020 Aug	-6.4	-5.4	-8.3	0.7	-0.6	-5.3	-11.9	2.9	-17.3	-5.8	-2.4
2020 Sep	-6.3	-9.9	-7.9	1.5	1.1	-11.0	-11.2	-0.7	-15.8	-4.2	-3.2
2020 Oct	-5.5	-4.2	-7.1	-2.5	2.5	-4.0	-14.3	-0.7	-14.5	-2.7	-3.4

¹ 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 added¹

Seasonally adjusted 2018 = 100

		Broad industry groups					Main industrial groupings					
		Production industries	Mining and quarrying	Manufacturing	Electricity, gas, steam and air conditioning	Water supply, sewerage and waste management	Oil and gas extraction	Consumer durables	Consumer non-durables	Capital goods	Intermediate goods	Energy
Section		B+C+D+E	B	C	D	E	06	MIG-CD	MIG-CND	MIG-CAG	MIG-IG	MIG-NRG
Latest weight		1 000.0	80.9	725.1	102.2	91.8	68.2	67.9	199.0	278.7	231.6	213.2
		K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K24O	K24T
Percentage change, latest month on previous month												
2019	Aug	-0.8	1.0	-1.1	-0.8	0.7	0.7	-0.2	-3.2	-0.4	-0.1	-0.2
	Sep	0.4	6.4	-0.1	-0.4	-	7.5	0.1	0.7	-0.4	-	1.7
	Oct	0.5	-5.8	0.8	4.4	-0.8	-6.8	3.4	0.7	0.9	0.2	0.6
	Nov	-1.0	1.1	-1.5	0.1	0.1	1.4	-3.7	-0.4	-2.7	-1.1	0.4
	Dec	-0.5	-3.1	-	-2.0	0.4	-2.6	-1.8	-0.8	-0.4	0.6	-1.5
2020	Jan	-0.1	0.3	0.2	-2.9	-	-0.4	-1.1	1.5	-0.6	0.5	-1.8
	Feb	0.4	-0.1	0.8	-0.7	-1.0	0.1	0.1	3.0	0.3	-0.9	-0.1
	Mar	-4.6	-5.7	-6.0	-0.1	2.0	-5.8	-5.4	0.1	-11.1	-5.0	-1.9
	Apr	-19.6	-1.7	-25.1	-7.0	-7.4	3.2	-26.6	-11.1	-32.8	-28.5	-3.5
	May	5.7	2.7	7.8	0.5	1.4	0.6	11.6	2.4	9.2	13.0	0.6
	Jun	9.8	7.2	12.0	4.3	4.4	5.7	8.9	3.0	19.6	14.8	3.3
	Jul	5.2	-1.7	6.9	4.5	1.1	-2.7	8.6	5.0	7.9	6.1	1.2
	Aug	0.3	-4.3	0.9	0.6	-0.5	-4.5	-0.9	-0.2	1.2	1.4	-1.1
	Sep	0.5	1.3	0.2	0.4	1.7	1.1	0.8	-2.8	1.4	1.7	1.0
	Oct	1.3	0.2	1.7	0.3	0.6	0.5	-0.2	0.7	2.5	1.8	0.3
Percentage change, latest 3 months on same 3 months a year ago²												
2019	Aug	-1.8	-5.1	-2.2	2.4	-0.9	-5.1	-2.2	1.1	-4.4	-2.9	-0.5
	Sep	-2.1	-3.4	-2.6	0.3	-0.2	-3.4	-1.6	1.3	-4.9	-3.3	-1.0
	Oct	-1.7	-2.0	-2.5	1.9	0.1	-1.9	0.3	0.5	-4.2	-3.3	0.2
	Nov	-1.3	0.2	-2.5	3.8	0.4	0.4	0.7	0.2	-4.2	-2.9	1.8
	Dec	-1.2	-1.9	-2.2	4.9	0.7	-2.2	-	-0.2	-4.0	-2.2	2.0
2020	Jan	-1.6	-1.1	-2.6	2.3	1.3	-0.9	-2.5	-1.0	-4.6	-2.1	1.0
	Feb	-2.0	-1.8	-2.8	0.7	1.3	-1.4	-4.3	-0.4	-4.6	-3.1	0.2
	Mar	-4.2	-5.1	-5.3	-0.5	1.7	-4.8	-7.4	-1.0	-8.3	-5.6	-1.6
	Apr	-11.3	-7.6	-14.1	-3.2	-0.6	-6.0	-17.1	-3.6	-20.1	-15.6	-3.4
	May	-17.3	-9.4	-21.5	-6.9	-2.7	-7.2	-25.0	-5.5	-31.5	-22.2	-5.9
	Jun	-18.7	-5.0	-23.6	-9.1	-3.8	-2.3	-27.3	-5.6	-34.7	-23.7	-5.9
	Jul	-13.3	-2.5	-17.0	-6.1	-2.0	-1.4	-19.7	-2.5	-27.5	-14.9	-4.3
	Aug	-8.6	-1.6	-11.4	-2.4	-0.4	-1.2	-13.9	-0.1	-20.4	-8.7	-2.5
	Sep	-6.7	-5.3	-8.8	0.5	0.3	-5.6	-11.4	0.6	-17.3	-5.8	-2.4
	Oct	-6.1	-6.6	-7.8	-0.1	1.0	-6.9	-12.5	0.5	-15.9	-4.3	-3.0

1 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 added¹

Seasonally adjusted 2018 = 100

		Broad industry groups					Main industrial groupings					
		Production industries	Mining and quarrying	Manufacturing	Electricity, gas, steam and air conditioning	Water supply, sewerage and waste management	Oil and gas extraction	Consumer durables	Consumer non-durables	Capital goods	Intermediate goods	Energy
Section		B+C+D+E	B	C	D	E	06	MIG-CD	MIG-CND	MIG-CAG	MIG-IG	MIG-NRG
Latest weight		1 000.0	80.9	725.1	102.2	91.8	68.2	67.9	199.0	278.7	231.6	213.2
		K222	K224	K22A	K248	K24C	K226	K24Q	K24R	K24S	K24O	K24T
Percentage change, latest 3 months on previous 3 months²												
2019	Aug	-1.1	-2.6	-1.4	0.5	0.9	-2.6	-3.6	-1.9	-0.4	-1.8	-0.7
	Sep	-0.5	1.6	-0.6	-2.2	0.4	1.8	-2.7	0.2	-0.5	-0.9	-0.6
	Oct	-0.6	2.0	-1.0	-1.0	-	1.9	-0.9	-0.7	-1.4	-0.5	0.1
	Nov	-0.2	3.1	-0.8	1.2	-0.2	3.3	0.8	-0.4	-1.3	-0.5	1.8
	Dec	-0.4	-1.8	-0.7	3.2	-0.4	-2.0	0.3	-0.5	-1.5	-0.4	1.4
2020	Jan	-0.9	-2.8	-1.0	0.6	-0.2	-2.8	-3.0	0.2	-2.7	-0.4	-0.3
	Feb	-0.9	-4.2	-0.4	-2.6	-0.1	-4.3	-3.8	1.1	-2.2	-0.1	-2.3
	Mar	-2.1	-3.3	-1.8	-4.6	0.3	-3.6	-5.2	2.8	-5.2	-1.7	-3.4
	Apr	-9.2	-5.2	-11.1	-5.6	-2.0	-3.9	-13.1	-	-17.3	-12.7	-4.2
	May	-15.4	-5.8	-19.5	-6.0	-3.2	-3.7	-19.7	-4.3	-28.7	-20.4	-4.7
	Jun	-16.3	-1.5	-21.1	-5.6	-4.2	1.5	-21.4	-7.8	-29.7	-21.3	-3.4
	Jul	-3.0	3.7	-4.8	-0.1	0.2	3.6	-3.9	-2.0	-8.6	-1.7	0.1
	Aug	9.3	5.8	11.4	5.3	3.3	3.7	10.6	3.7	15.6	15.3	2.9
	Sep	14.3	1.3	18.7	8.1	4.8	-1.6	18.5	6.7	26.0	22.3	3.1
	Oct	7.6	-2.3	10.0	5.3	3.0	-3.7	8.0	2.4	14.3	12.0	1.5

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IOP5 Output of the Production Industries

continued

Chained volume indices of gross value added¹

Seasonally adjusted 2018 = 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	113.5	26.0	47.2	10.9	42.9	48.6
	K22B	K22P	K22T	K22X	K22Z	K239
2015	96.2	104.4	101.6	104.2	103.0	96.5
2016	96.4	102.2	100.3	103.2	96.6	99.3
2017	98.2	101.8	101.1	104.3	98.7	97.9
2018	100.0	100.0	100.0	100.0	100.0	100.0
2019	101.4	100.0	100.9	102.8	99.3	106.8
2019 Q3	100.8	100.5	100.2	95.9	96.6	105.2
Q4	100.9	99.2	100.4	104.5	96.5	102.9
2020 Q1	100.4	90.7	96.6	100.0	101.6	117.4
Q2	89.8	59.7	74.7	71.9	94.6	130.4
Q3	97.6	93.0	91.3	75.8	101.0	125.4
2019 Aug	101.0	99.0	100.7	96.6	96.3	100.3
Sep	101.7	101.2	101.0	90.8	97.2	99.3
Oct	101.9	102.3	102.2	104.3	97.7	102.5
Nov	100.7	99.0	100.2	102.4	93.7	104.7
Dec	100.0	96.3	98.8	106.9	98.0	101.6
2020 Jan	100.4	93.9	98.7	101.6	101.7	107.4
Feb	101.3	96.6	97.2	102.6	99.4	117.3
Mar	99.5	81.5	94.0	95.8	103.8	127.4
Apr	87.7	40.4	67.7	73.6	94.0	132.0
May	89.3	58.8	73.4	70.1	95.3	130.0
Jun	92.5	80.0	82.9	72.1	94.4	129.1
Jul	97.2	92.7	91.5	74.3	98.9	131.8
Aug	97.9	92.9	90.2	73.3	101.9	128.5
Sep	97.7	93.4	92.3	79.9	102.3	115.9
Oct	98.0	97.2	91.9	80.0	104.5	118.5
Percentage change, latest year on previous year						
2015	-	-0.7	0.6	1.8	4.4	-0.4
2016	0.2	-2.2	-1.2	-1.0	-6.2	2.9
2017	1.9	-0.4	0.8	1.1	2.1	-1.4
2018	1.8	-1.8	-1.1	-4.1	1.4	2.1
2019	1.4	-	0.9	2.8	-0.7	6.8
Percentage change, latest month on same month a year ago						
2019 Aug	0.1	-3.0	2.5	-8.7	-0.9	1.0
Sep	1.1	-1.6	0.7	-14.0	-5.5	-2.5
Oct	0.9	2.7	2.4	1.6	-4.3	-
Nov	0.1	-0.4	-2.1	0.1	-9.2	-0.3
Dec	-0.9	-3.3	-1.3	5.1	-5.9	-3.4
2020 Jan	-1.9	-5.2	-2.0	-5.7	-2.9	-2.3
Feb	-1.6	-3.1	-5.2	-6.0	-5.9	7.1
Mar	-4.7	-20.2	-10.1	-9.3	-1.5	5.9
Apr	-14.1	-60.2	-34.2	-30.1	-4.5	23.4
May	-11.3	-40.6	-26.1	-34.7	-4.2	28.0
Jun	-6.4	-19.3	-16.9	-25.4	-4.6	18.0
Jul	-2.6	-8.5	-7.3	-25.9	2.8	13.4
Aug	-3.1	-6.2	-10.4	-24.2	5.8	28.2
Sep	-3.9	-7.6	-8.7	-12.0	5.3	16.7
Oct	-3.9	-5.0	-10.0	-23.3	7.0	15.6

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IOP5 Output of the Production Industries

continued

Chained volume indices of gross value added¹

Seasonally adjusted 2018 = 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	51.4	75.4	51.2	18.1	60.7	110.5	68.7
	K23B	K23G	K23N	K23P	K23R	K23T	K23Z
2015	100.1	103.1	84.7	106.9	92.3	93.5	88.7
2016	102.5	99.8	83.9	102.3	91.6	97.6	92.9
2017	101.7	100.4	87.8	105.3	97.7	100.7	98.7
2018	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2019	97.2	97.7	98.3	98.8	92.7	94.6	95.9
2019 Q3	96.3	97.2	96.2	98.2	91.5	96.4	95.0
Q4	96.0	96.9	97.0	96.4	89.6	93.3	95.2
2020 Q1	94.0	95.3	92.4	96.2	81.4	87.6	93.5
Q2	66.9	72.7	82.1	77.5	56.8	46.3	70.9
Q3	88.9	84.2	87.1	97.3	73.5	70.3	89.5
2019 Aug	96.0	96.9	95.4	97.7	91.9	96.6	95.4
Sep	96.0	97.0	96.6	97.4	90.7	95.2	95.4
Oct	95.8	96.2	101.1	95.6	90.6	95.5	95.0
Nov	95.2	96.7	96.0	95.2	90.0	91.6	95.8
Dec	97.0	98.0	93.9	98.2	88.4	92.8	94.8
2020 Jan	97.4	97.4	93.0	98.2	85.7	92.5	95.4
Feb	96.9	97.5	92.5	97.0	85.0	93.7	95.6
Mar	87.7	91.0	91.6	93.4	73.5	76.4	89.6
Apr	51.5	65.5	77.3	68.2	46.1	39.2	62.9
May	67.3	71.5	82.3	77.3	56.0	40.8	71.2
Jun	81.9	81.1	86.7	87.1	68.5	59.1	78.7
Jul	87.3	82.5	88.0	94.3	72.7	68.2	88.3
Aug	89.2	83.9	86.2	98.2	73.4	69.9	90.9
Sep	90.1	86.3	87.0	99.5	74.5	72.8	89.3
Oct	91.4	87.1	86.5	101.6	76.0	76.7	90.7
Percentage change, latest year on previous year							
2015	1.3	-0.5	-2.8	-	-12.9	4.5	-1.2
2016	2.3	-3.2	-0.9	-4.3	-0.8	4.3	4.7
2017	-0.8	0.6	4.6	2.9	6.7	3.2	6.3
2018	-1.7	-0.4	13.9	-5.1	2.3	-0.7	1.3
2019	-2.8	-2.3	-1.7	-1.2	-7.3	-5.4	-4.1
Percentage change, latest month on same month a year ago							
2019 Aug	-4.8	-4.4	-4.4	-3.0	-6.8	-2.6	-2.7
Sep	-5.2	-3.5	-2.0	-2.2	-7.4	-4.5	-6.3
Oct	-4.9	-3.5	3.1	-6.3	-6.8	-0.8	-4.3
Nov	-4.8	4.2	-0.8	-5.3	-7.3	-4.3	-3.6
Dec	-1.5	3.3	-4.7	-0.2	-9.1	-3.7	-1.9
2020 Jan	-1.7	-1.7	-5.6	-0.6	-10.9	-2.8	1.1
Feb	-2.3	-3.2	-7.3	-2.7	-11.5	-1.5	-
Mar	-12.1	-8.3	-9.9	-7.6	-23.2	-21.0	-7.5
Apr	-47.3	-32.4	-21.7	-32.7	-51.1	-54.3	-36.4
May	-30.5	-26.8	-19.9	-22.7	-40.0	-57.7	-27.5
Jun	-15.7	-15.7	-11.5	-13.5	-26.6	-39.3	-18.0
Jul	-10.1	-15.7	-8.7	-5.1	-20.8	-29.8	-6.1
Aug	-7.0	-13.4	-9.7	0.5	-20.2	-27.6	-4.7
Sep	-6.1	-11.0	-9.9	2.2	-17.8	-23.6	-6.4
Oct	-4.5	-9.4	-14.5	6.2	-16.0	-19.7	-4.5

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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 2018 = 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	113.5	26.0	47.2	10.9	42.9	48.6
	K22B	K22P	K22T	K22X	K22Z	K239

Percentage change, latest month on previous month

2019	Aug	1.3	-2.3	2.0	-3.7	-	-13.7
	Sep	0.6	2.2	0.3	-6.0	0.9	-1.0
	Oct	0.2	1.1	1.2	14.9	0.5	3.2
	Nov	-1.2	-3.2	-2.0	-1.9	-4.0	2.2
	Dec	-0.7	-2.7	-1.4	4.3	4.5	-2.9
2020	Jan	0.4	-2.5	-	-4.9	3.8	5.7
	Feb	0.9	2.8	-1.6	1.0	-2.3	9.2
	Mar	-1.8	-15.6	-3.2	-6.6	4.4	8.6
	Apr	-11.9	-50.5	-28.0	-23.2	-9.4	3.6
	May	1.9	45.7	8.4	-4.8	1.4	-1.5
	Jun	3.5	36.1	12.9	2.9	-0.9	-0.8
	Jul	5.1	15.9	10.5	3.1	4.8	2.1
	Aug	0.8	0.1	-1.5	-1.4	3.0	-2.5
	Sep	-0.3	0.6	2.3	9.1	0.4	-9.8
	Oct	0.3	4.0	-0.3	0.1	2.2	2.2

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

2019	Aug	-1.2	-1.8	-0.3	-4.2	-2.4	9.3
	Sep	-0.1	-1.7	-	-7.4	-3.9	6.2
	Oct	0.7	-0.7	1.9	-7.1	-3.6	-0.5
	Nov	0.7	0.2	0.3	-4.2	-6.3	-0.9
	Dec	-	-0.3	-0.4	2.3	-6.5	-1.3
2020	Jan	-0.9	-3.0	-1.8	-0.3	-6.0	-2.0
	Feb	-1.5	-3.9	-2.8	-2.4	-4.9	0.5
	Mar	-2.7	-9.6	-5.8	-7.0	-3.4	3.6
	Apr	-6.8	-27.9	-16.5	-15.0	-4.0	11.9
	May	-10.0	-40.3	-23.4	-24.7	-3.4	18.4
	Jun	-10.6	-40.2	-25.8	-30.2	-4.4	23.0
	Jul	-6.8	-22.7	-16.8	-28.8	-2.0	19.5
	Aug	-4.0	-11.3	-11.6	-25.2	1.3	19.5
	Sep	-3.2	-7.5	-8.8	-20.9	4.6	19.1
	Oct	-3.6	-6.3	-9.7	-20.1	6.0	20.2

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IOP5 Output of the Production Industries

continued

Chained volume indices of gross value added¹

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

Percentage change, latest month on previous month

2019	Aug	-1.1	-1.0	-1.0	-1.7	0.1	-0.6	1.4
	Sep	-	-	1.3	-0.4	-1.3	-1.5	0.1
	Oct	-0.2	-0.8	4.6	-1.8	-0.1	0.3	-0.5
	Nov	-0.6	0.5	-5.0	-0.4	-0.6	-4.1	0.9
	Dec	1.9	1.3	-2.2	3.2	-1.8	1.3	-1.0
2020	Jan	0.4	-0.6	-1.0	-	-3.0	-0.3	0.6
	Feb	-0.4	0.1	-0.5	-1.3	-0.9	1.3	0.2
	Mar	-9.5	-6.7	-1.0	-3.6	-13.5	-18.4	-6.3
	Apr	-41.3	-28.0	-15.6	-27.0	-37.3	-48.8	-29.8
	May	30.6	9.2	6.4	13.3	21.4	4.2	13.2
	Jun	21.7	13.3	5.3	12.6	22.3	44.8	10.5
	Jul	6.6	1.8	1.5	8.3	6.2	15.5	12.2
	Aug	2.2	1.7	-2.1	4.1	0.9	2.5	2.9
	Sep	1.0	2.9	1.0	1.4	1.6	4.1	-1.8
	Oct	1.4	1.0	-0.6	2.1	2.0	5.4	1.6

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

2019	Aug	-4.8	-3.9	-3.9	0.2	-6.8	-2.1	-4.7
	Sep	-4.8	-3.6	-3.5	-1.6	-7.3	-3.2	-4.9
	Oct	-5.0	-3.8	-1.1	-3.8	-7.0	-2.6	-4.5
	Nov	-5.0	-1.1	0.1	-4.6	-7.2	-3.2	-4.8
	Dec	-3.8	1.3	-0.8	-4.0	-7.7	-2.9	-3.3
2020	Jan	-2.7	1.9	-3.7	-2.1	-9.1	-3.6	-1.5
	Feb	-1.8	-0.6	-5.9	-1.2	-10.5	-2.7	-0.3
	Mar	-5.4	-4.4	-7.6	-3.7	-15.2	-8.5	-2.2
	Apr	-20.4	-14.4	-12.9	-14.4	-28.4	-24.6	-14.9
	May	-29.8	-22.4	-17.2	-21.0	-38.0	-43.9	-23.9
	Jun	-31.2	-25.0	-17.8	-23.0	-39.3	-50.2	-27.4
	Jul	-18.8	-19.4	-13.5	-13.8	-29.2	-42.2	-17.3
	Aug	-11.0	-15.0	-10.0	-6.1	-22.5	-32.3	-9.6
	Sep	-7.7	-13.4	-9.5	-0.9	-19.6	-27.0	-5.8
	Oct	-5.9	-11.3	-11.4	2.9	-18.0	-23.7	-5.2

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IOP5 Output of the Production Industries

continued

Chained volume indices of gross value added¹

Seasonally adjusted 2018 = 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	113.5	26.0	47.2	10.9	42.9	48.6	
	K22B	K22P	K22T	K22X	K22Z	K239	
Percentage change, latest 3 months on previous 3 months							
2019	Aug	-2.5	-1.0	-2.5	-7.7	-3.9	-0.9
	Sep	0.3	0.7	-0.5	-6.9	-2.4	-0.7
	Oct	1.8	1.0	2.1	-4.1	-1.2	-7.7
	Nov	1.6	1.0	1.4	1.4	-1.0	-5.9
	Dec	0.1	-1.3	0.2	9.0	-0.1	-2.2
2020	Jan	-1.2	-4.4	-2.1	6.6	0.8	3.9
	Feb	-0.8	-5.2	-2.9	4.5	3.6	6.5
	Mar	-0.4	-8.6	-3.7	-4.3	5.4	14.0
	Apr	-4.2	-24.5	-13.0	-12.5	1.3	20.1
	May	-8.4	-37.0	-20.2	-23.0	-2.0	19.3
	Jun	-10.6	-34.1	-22.7	-28.1	-6.9	11.1
	Jul	-3.3	6.0	-4.3	-20.4	-2.9	3.8
	Aug	4.0	47.0	12.5	-8.3	0.7	-
	Sep	8.7	55.7	22.3	5.4	6.8	-3.8
	Oct	5.3	22.4	10.7	7.7	7.0	-7.2

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IOP5 Output of the Production Industries

Chained volume indices of gross value added¹

continued

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

Percentage change, latest 3 months on previous 3 months

2019 Aug	-1.5	-1.0	-4.4	-1.5	-2.2	4.4	-2.9
Sep	-1.0	0.3	-3.7	-2.5	-2.3	3.5	-2.8
Oct	-1.1	-0.6	-1.3	-3.1	-1.9	-1.2	-0.8
Nov	-1.1	-0.4	1.4	-3.2	-2.1	-3.0	0.3
Dec	-0.3	-0.3	0.9	-1.8	-2.0	-3.2	0.3
2020 Jan	0.6	0.7	-3.5	0.3	-3.3	-3.6	0.1
Feb	1.5	1.1	-4.9	1.8	-4.5	-1.2	-0.1
Mar	-2.1	-1.7	-4.8	-0.2	-9.2	-6.2	-1.7
Apr	-18.4	-13.0	-7.6	-11.3	-22.6	-24.4	-13.3
May	-29.1	-22.1	-10.1	-18.6	-32.2	-44.0	-21.8
Jun	-28.8	-23.7	-11.1	-19.4	-30.2	-47.1	-24.2
Jul	0.1	-7.4	-1.7	-	-3.6	-19.7	-4.0
Aug	25.1	8.5	3.8	17.0	22.2	26.1	15.3
Sep	32.8	15.8	6.1	25.5	29.4	51.8	26.2
Oct	14.5	9.4	1.1	15.7	13.6	30.5	13.7

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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.gsi.gov.uk

Statistical contact:
Name: Mark Stephens
Tel: Mark Stephens +44 (0) 1633 456387
Email: indexofproduction@ons.gsi.gov.uk

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