

Statistical bulletin

GDP monthly estimate, UK: January 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.

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Table of contents

1. [Main points](#)
2. [Monthly GDP](#)
3. [The services sector](#)
4. [The production sector](#)
5. [The construction sector](#)
6. [Cross-industry themes](#)
7. [Monthly GDP data](#)
8. [Glossary](#)
9. [Measuring the data](#)
10. [Strengths and limitations](#)
11. [Related links](#)
12. [Cite this statistical bulletin](#)

1 . Main points

- Monthly real gross domestic product (GDP) is estimated to have grown by 0.3% in January 2023, after falling by 0.5% in December 2022.
- Looking at the broader picture, GDP was flat in the three months to January 2023.
- The services sector grew by 0.5% in January 2023, after falling by 0.8% in December 2022, with the largest contributions to growth in January 2023 coming from education, transport and storage, human health activities, and arts, entertainment and recreation activities, all of which have rebounded after falls in December 2022.
- Output in consumer-facing services grew by 0.3% in January 2023; this follows a fall of 1.2% in December 2022.
- Production output fell by 0.3% in January 2023, following growth of 0.3% in December 2022.
- The construction sector fell by 1.7% in January 2023 after being flat in December 2022.
- There are no revisions to previously published data in this release.

2 . Monthly GDP

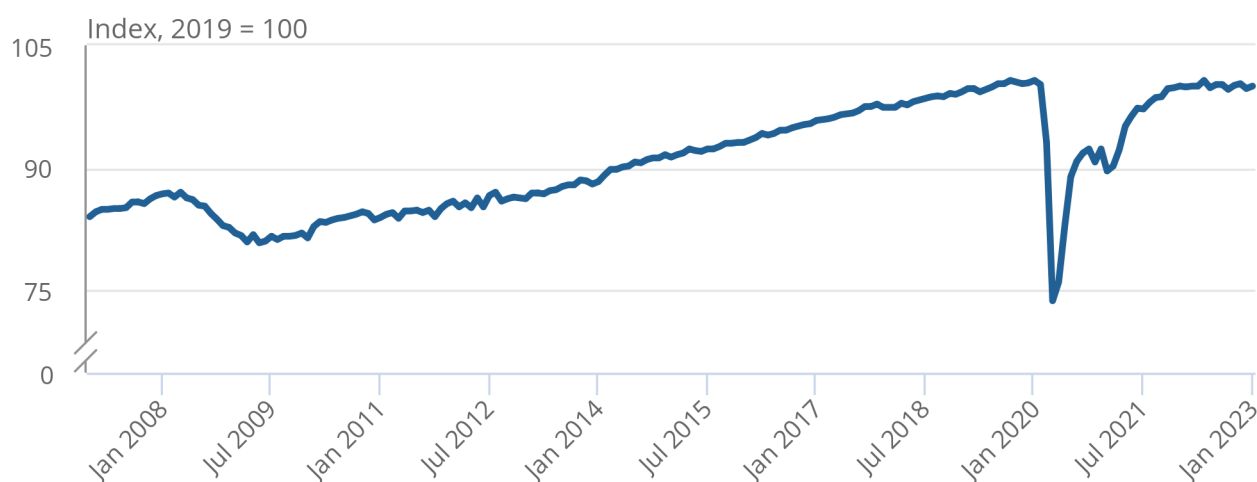
Monthly real gross domestic product (GDP) is estimated to have increased by 0.3% in January 2023 (Figure 1) following a fall of 0.5% in December 2022. Monthly GDP is now estimated to be 0.2% below its pre-coronavirus levels (February 2020).

Figure 1: UK GDP is estimated to have increased by 0.3% in January 2023

Monthly index, January 2007 to January 2023, UK

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Monthly index, January 2007 to January 2023, UK



Source: GDP monthly estimate from the Office for National Statistics

Notes:

1. GDP is gross domestic product.

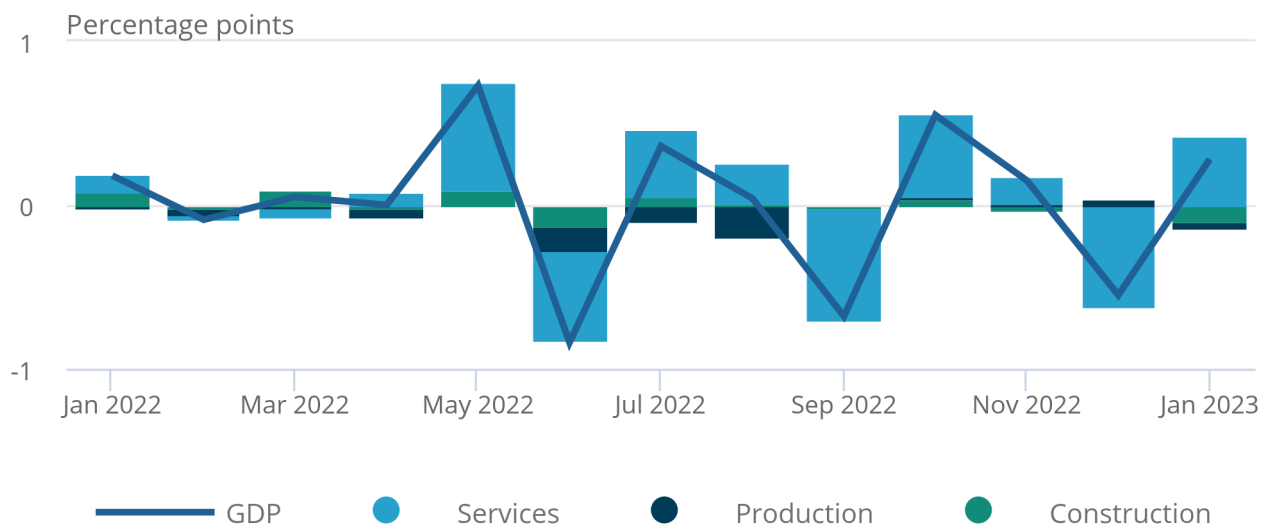
The services sector grew by 0.5% in January 2023 and was the main driver of the increase in GDP. Production fell by 0.3% in January 2023, and construction output decreased by 1.7%.

Figure 2: The services sector was the main contributor to the growth in GDP in January 2023

Contributions to monthly gross domestic product (GDP) growth, January 2022 to January 2023, UK

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Contributions to monthly gross domestic product (GDP) growth, January 2022 to January 2023, UK



Source: GDP monthly estimate from the Office for National Statistics

Notes:

1. Sum of component contributions may not sum to total growth because of rounding.

Looking more broadly, GDP was flat in the three months to January 2023 when compared with the three months to October 2022. Services was flat in the three months to January 2023, while production grew by 0.3% and construction fell by 0.7% in this period.

Monthly GDP was broadly flat in January 2023 compared with the same month last year. For comparison, monthly GDP fell by 0.1% between December 2021 and December 2022.

There have been no revisions to previously published data in this release.

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- View [all economic data](#).

3 . The services sector

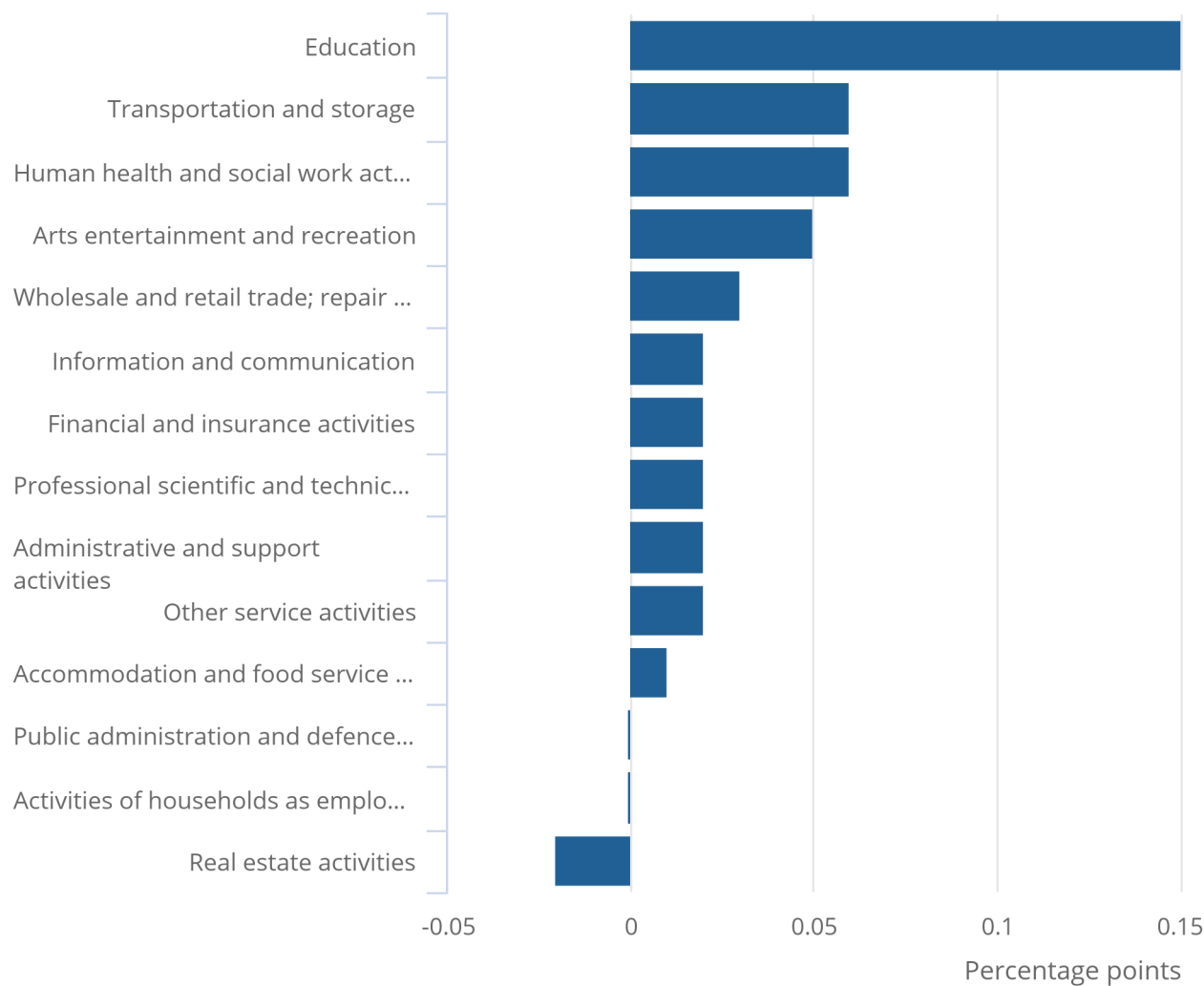
Services grew by 0.5% in January 2023, following a fall of 0.8% in December 2022. Figure 3 shows the contributions from the services sector to gross domestic product (GDP) in January 2023.

Figure 3: Services grew by 0.5% in January 2023

Monthly services contributions to gross domestic product (GDP), January 2023

Figure 3: Services grew by 0.5% in January 2023

Monthly services contributions to gross domestic product (GDP), January 2023



Source: GDP monthly estimate from the Office for National Statistics

Notes:

- 1. Sum of component contributions may not sum to total services growth because of rounding.

The largest driver of the growth in services in January 2023 was education, which grew by 2.5% following a fall of 2.6% in December 2022. In January 2023, school attendance levels returned to normal levels following a significant drop in December 2022.

Transport and storage services grew by 1.6% on the month; the main contributor was an increase of 6.4% in postal and courier activities. This growth comes after a fall of 10.5% in December 2022, which was partly because of the impact of postal strikes.

Human health and social work activities grew by 0.7% in January 2023, following a fall of 2.8% in December 2022. January saw growth of 1.1% in human health activities driven by increased output in the private sector.

Arts, entertainment and recreation grew by 3.4% in January 2023. This was largely driven by sports, amusements and recreation activities, which grew by 8.9% in a month where Premier League football returned to a full schedule following fixtures being postponed in December 2022 for the FIFA World Cup.

Real estate activities, which fell by 0.1% in January 2023, was the only negative contributor in services. Within this subsector, real estate activities on a fee or contract basis fell by 2.3%.

NHS Test and Trace services and vaccine programmes

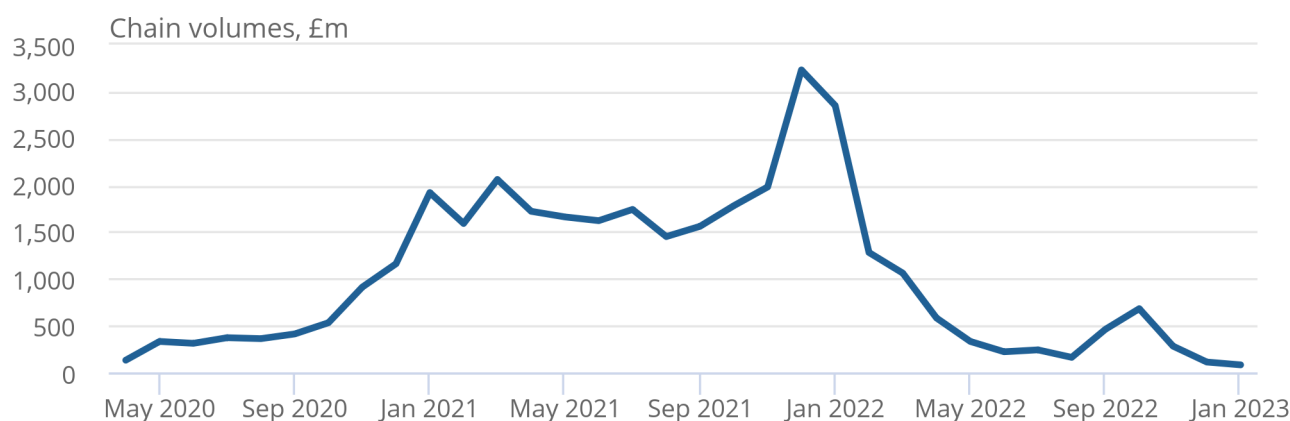
[NHS Test and Trace and coronavirus \(COVID-19\) vaccination programme](#) activity fell by 32% in January 2023 for its third consecutive monthly fall (Figure 4) and remains significantly lower than its peak towards the end of 2021. Overall, NHS Test and Trace and the COVID-19 vaccination programme contributed negligibly to monthly GDP growth.

Figure 4: NHS Test and Trace and coronavirus (COVID-19) vaccination programme activity decreased in January 2023

Monthly chain volume data in £ million, April 2020 to January 2023, UK

Figure 4: NHS Test and Trace and coronavirus (COVID-19) vaccination programme activity decreased in January 2023

Monthly chain volume data in £ million, April 2020 to January 2023, UK



Source: GDP monthly estimate from the Office for National Statistics, NHS England

Notes:

1. Data are chain volumes rounded to the nearest £10 million, unless labelled otherwise.
2. GDP is gross domestic product.

A full record of the volume estimates of Test and Trace and vaccination programmes, along with their contribution to GDP growth, can be found in the [accompanying dataset](#).

Consumer-facing services

Output in consumer-facing services grew by 0.3% in January 2023, following a fall of 1.2% in December 2022. Consumer-facing services were 8.6% below their pre-coronavirus levels (February 2020) in January 2023, while all other services were 2.1% above (Figure 5).

The largest contribution to the growth in consumer-facing services in January 2023 came from sports, amusement and recreation activities. This grew by 8.9% as Premier League football resumed a full schedule of fixtures after matches were postponed in December 2022 for the FIFA World Cup.

Growth was also seen in food and beverage services (1.1%), other personal services (2.6%) and retail trade, except of motor vehicles and motorcycles (0.5%), which all contributed to the overall growth in consumer-facing services.

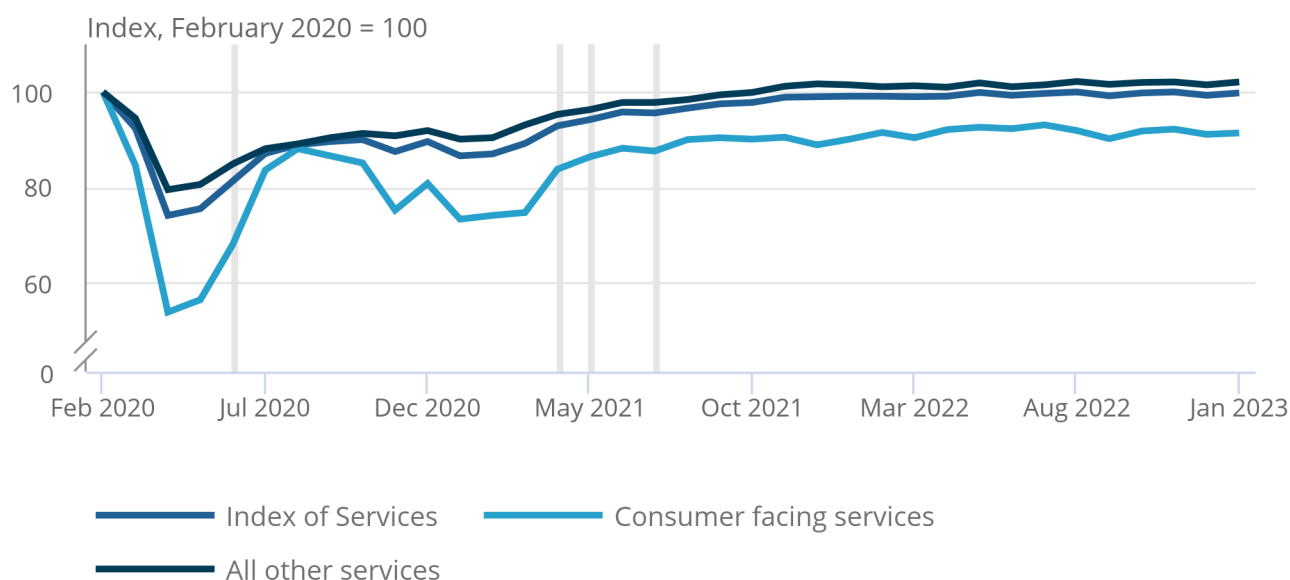
The largest negative contributor was wholesale and retail trade and repair of motor vehicles and motorcycles, which fell by 2.3%.

Figure 5: Output in consumer-facing services grew by 0.3% in January 2023

Monthly index of services, February 2020 to January 2023, UK

Figure 5: Output in consumer-facing services grew by 0.3% in January 2023

Monthly index of services, February 2020 to January 2023, UK



Source: GDP monthly estimate from the Office for National Statistics

Notes:

1. Consumer-facing services refer to retail trade, accommodation, food and beverage serving activities, travel and transport, and entertainment and recreation (Standard Industrial Classification 2007 codes 45, 47, 49.1 to 49.2, 55, 56, 68.1 to 68.2, 75, 79, 92, 93, 94, 96 and 97).
2. Vertical grey lines represent (from left to right): Hospitality reopening on 1 June 2020, outdoor hospitality reopening on 12 April 2021, indoor hospitality reopening on 17 May 2021, and social distancing restrictions easing on 19 July 2021.

Overall, the services sector was flat in the three months to January 2023 compared with the three months to October 2022, with positive growth in 6 of the 14 services sub-sectors offset by negative contributions in the other 8.

More detailed breakdowns on services are available in our [Index of Services, UK: January 2023 bulletin](#).

4 . The production sector

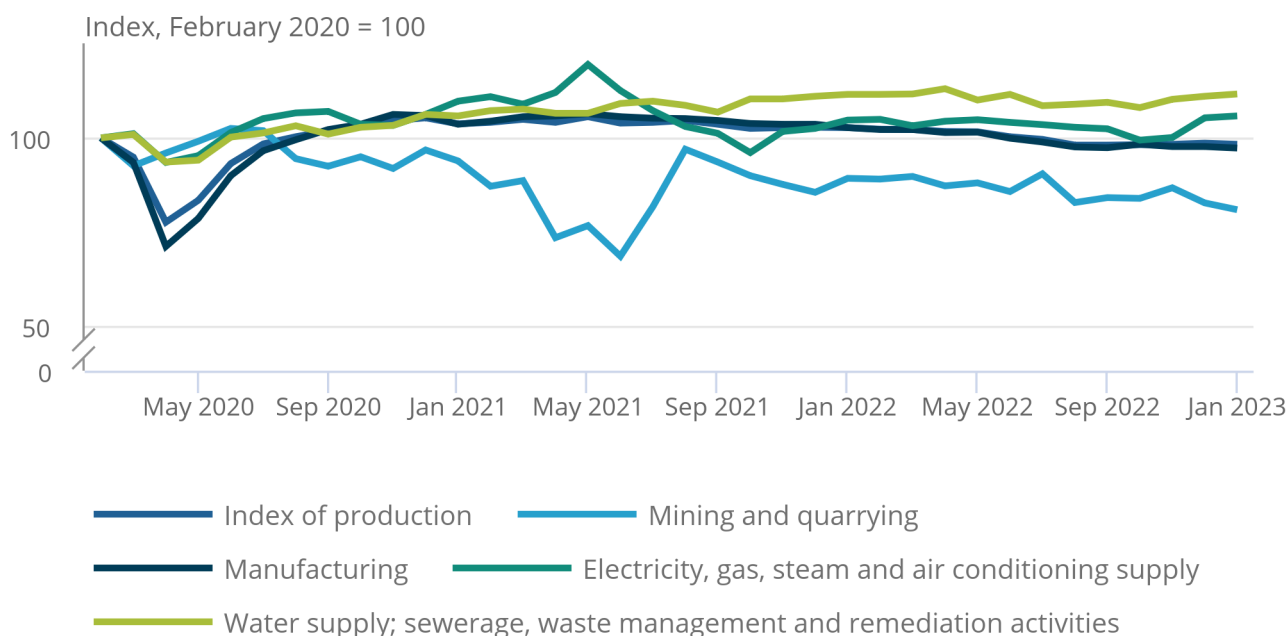
Production output fell by 0.3% in January 2023, after growth of 0.3% in December 2022. The sector saw falls in two of its four subsectors, with manufacturing being the largest contributor to the production sector's negative growth.

Figure 6: Production output fell by 0.3% in January 2023, with manufacturing being the largest negative contributor

Monthly index, February 2020 to January 2023, UK

Figure 6: Production output fell by 0.3% in January 2023, with manufacturing being the largest negative contributor

Monthly index, February 2020 to January 2023, UK



Source: GDP monthly estimate from the Office for National Statistics

Notes:

1. GDP is gross domestic product.
2. Indexes are rounded to one decimal place.
3. Weights of these sub-sectors are available in the [GDP\(O\) data sources catalogue](#).

Manufacturing was the largest negative contributor, falling by 0.4% in the month. Manufacturing saw declines in 7 of its 13 subsectors (Figure 7) with the manufacture of basic pharmaceutical products and pharmaceutical preparations, which fell by 4.7%, being the largest negative contributor. Falls were also seen in manufacture of machinery and equipment not elsewhere classified (n.e.c.) (down 1.6%), manufacture of transport equipment (down 0.5%) and manufacture of computer, electronic and optical products (down 1.0%).

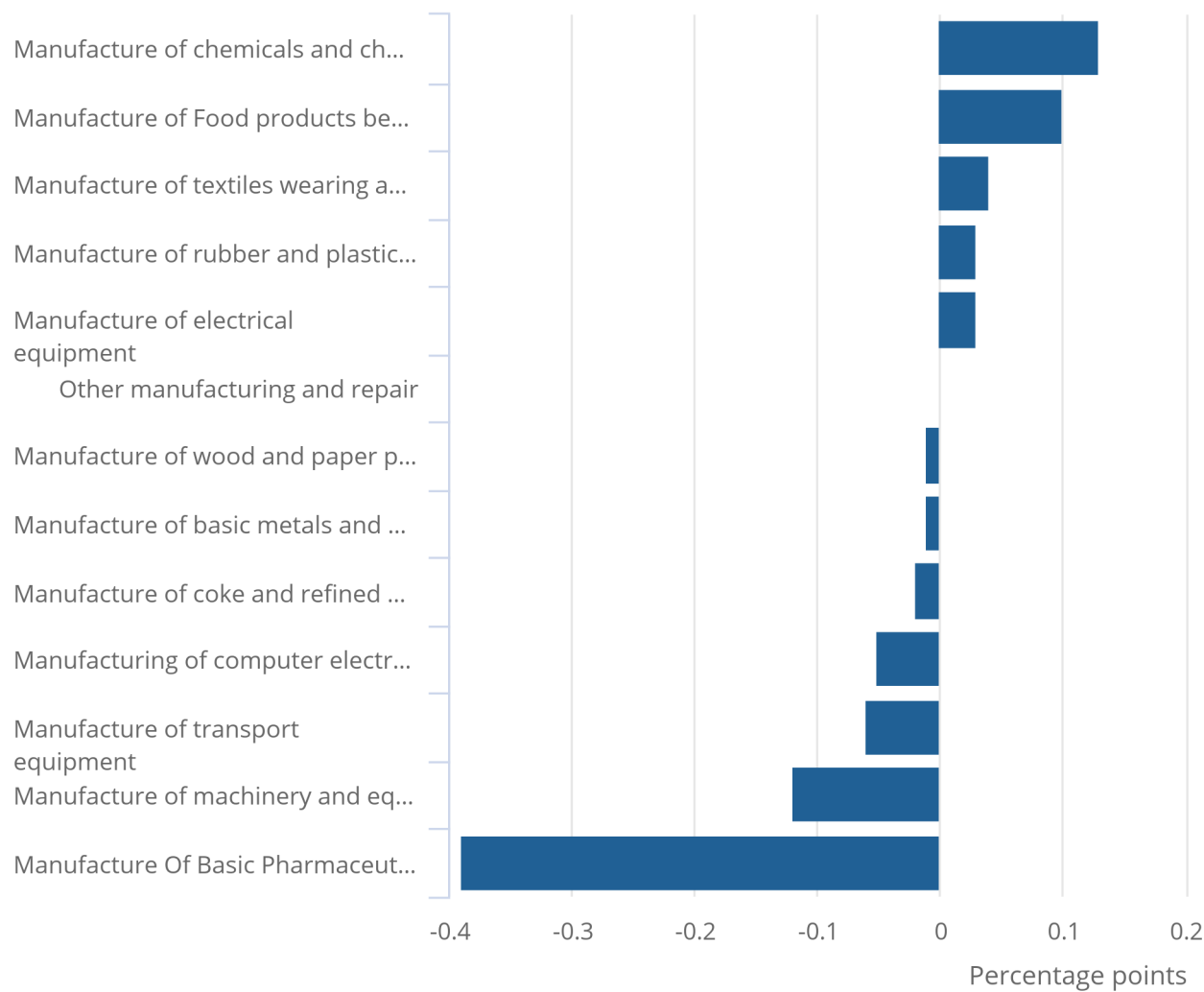
Manufacture of chemical and chemical products was the largest positive contributor (up 2.2%). There were also growths in the manufacture of food products, beverages and tobacco (up 0.7%), manufacture of textiles, wearing apparel and leather products (up 1.2%), manufacture of rubber and plastics products, and other non-metallic mineral products (up 0.4%) and manufacture of electrical equipment (up 1.2%).

Figure 7: Manufacturing was the largest negative contributor to production in January 2023 with falls in 7 of its 13 sub-sectors

Monthly manufacturing subsectors contributions to manufacturing output, January 2023, UK

Figure 7: Manufacturing was the largest negative contributor to production in January 2023 with falls in 7 of its 13 sub-sectors

Monthly manufacturing subsectors contributions to manufacturing output, January 2023, UK



Source: GDP monthly estimate from the Office for National Statistics

Notes:

- 1. GDP is gross domestic product.
- 2. Sum of component contributions may not sum to total production growth because of rounding.

Mining and quarrying fell by 2.2% in January 2023. This was driven by extraction of crude petroleum and natural gas with a 3.0% fall.

Electricity, gas, steam and air conditioning supply grew by 0.5%, with a growth of 0.9% in electric power generation, transmission and distribution and a fall of 0.5% in manufacture of gas.

Water supply and sewerage grew by 0.6% in January 2023, with growth in all four industries.

Overall, production increased by 0.3% in the three months to January 2023, compared with the three months to October 2022, driven primarily by electricity, gas, steam and air conditioning supply, which grew by 2.2%.

More detailed breakdowns on production are available in our [Index of Production, UK: January 2023 bulletin](#).

5 . The construction sector

Monthly construction output is estimated to have decreased 1.7% in volume terms in January 2023; this is the weakest monthly growth since June 2022 (negative 2.0%). It is the lowest monthly value in level terms (£14,841 million) since February 2022 (£14,719 million).

The decrease in monthly construction output came from a fall in new work (4.0% fall), partially offset by an increase in repair and maintenance (2.0%), with five out of the nine sectors seeing a decrease.

At the sector level, the main contributors to the monthly decrease were seen in infrastructure new work and private new housing, which decreased 6.5% and 3.0%, respectively.

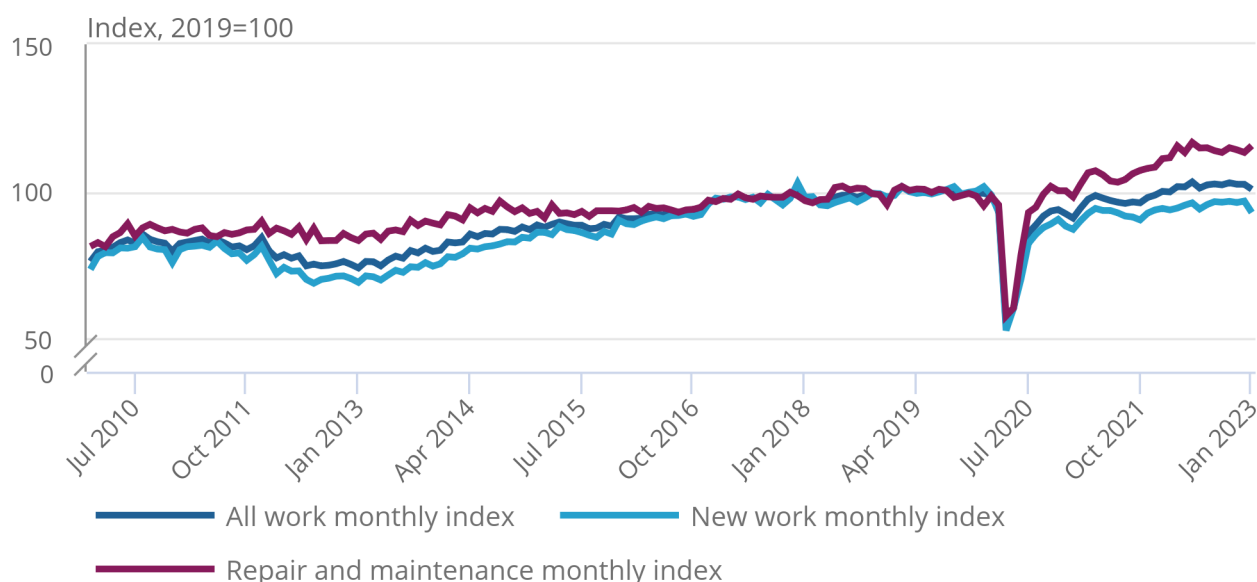
Anecdotal evidence received from returns for the [Monthly Business Survey for Construction and Allied Trades](#) (MBS) continued the narrative around economic uncertainty leading to delays, cancellations and less work being requested by customers in general. Further anecdotal evidence highlighted the mixed impact of heavy rainfall in the first two weeks of January 2023, with outdoor work being affected negatively, but repair and maintenance work seeing an increase because of the weather. This was confirmed in the Met Office [Monthly Weather Report \(PDF, 5.06 MB\)](#) for January 2023.

Figure 8: The monthly all work construction output index fell by 1.7% in January 2023, coming from a 4.0% decrease in new work, partially offset by a 2.0% increase in repair and maintenance

Monthly all work index, chained volume measure, seasonally adjusted, Great Britain, January 2010 to January 2023

Figure 8: The monthly all work construction output index fell by 1.7% in January 2023, coming from a 4.0% decrease in new work, partially offset by a 2.0% increase in repair and maintenance

Monthly all work index, chained volume measure, seasonally adjusted, Great Britain, January 2010 to January 2023



Source: GDP monthly estimate, construction output and employment, from the Office for National Statistics

Notes:

1. GDP is gross domestic product.
2. Indexes are rounded to one decimal place.
3. Monthly output records began in January 2010.

Further detail on construction output growth rates, along with new orders in the construction industry and construction output prices, can be found in our [Construction output in Great Britain: January 2023 bulletin](#).

6 . Cross-industry themes

There were some common themes that were anecdotally reported (as part of the Monthly Business Survey) to have played a part in performance across different industries. However, it is often difficult to quantify these effects.

The cost-of-living crisis continued to be mentioned extensively throughout the comments received to the survey. This came from reduced demand from households and businesses for goods and services and also in rising costs of materials, energy, and staff costs.

7 . Monthly GDP data

[Monthly gross domestic product by gross value added](#)

Dataset | Released 10 March 2023

The gross value added (GVA) tables showing the monthly and annual growths and indices as published within the monthly gross domestic product (GDP) statistical bulletin.

[Contributions to monthly GDP](#)

Dataset | Released 10 March 2023

Contributions to growth within monthly gross domestic product (GDP), UK.

[Monthly gross domestic product: time series](#)

Dataset MGDG | Released 10 March 2023

Monthly estimate of gross domestic product (GDP) containing constant price gross value added (GVA) data for the UK.

[Monthly GDP and main sectors to four decimal places](#)

Dataset | Released 10 March 2023

Monthly index values for monthly gross domestic product (GDP) and the main sectors in the UK to four decimal places.

[Revisions triangles for monthly GDP](#)

Dataset | Released 10 March 2023

Comparison of gross domestic product (GDP) first estimates against estimates published later.

[Health volume adjustments and contribution to GDP growth](#)

Dataset | Released 10 March 2023

Volume estimates for the NHS Test and Trace services and vaccine programmes and their impact on real GDP.

8 . Glossary

Contribution to growth

Contribution to growth indicates how many percentage points a sector or industry is adding or removing from a given growth rate, usually headline gross domestic product (GDP) growth.

Gross domestic product (GDP)

A measure of the economic activity produced by a country or region. GDP growth is the main indicator of economic performance. There are three approaches used to measure GDP:

- the output approach
- the expenditure approach
- the income approach

Index numbers

Data relative to a given base value, which typically refers to a year.

Rolling three-month growth

Rolling three-month growth takes the average level of three consecutive months (for example, April, May and June), and compares it with the average level of the previous three months (for example, January, February and March). The rolling three-month growth rate is often used alongside the monthly growth rate, as the latter can be more volatile.

Real GDP

Real GDP excludes any inflationary issues and reflects the changes in volume terms. This can also be referred to as volume estimates of GDP. For further definitions, please see the [Glossary of economic terms](#).

9 . Measuring the data

Further information on measuring the data across our main data sources is available in the following releases:

- [Construction output in Great Britain: January 2023](#)
- [Index of Production, UK: January 2023](#)
- [Index of Services, UK: January 2023](#)

There have been large movements in UK gross domestic product (GDP) over the course of the coronavirus (COVID-19) pandemic. This is primarily in response to public health restrictions and voluntary social distancing that have been in place over this period. Given the size of these effects, there has been a focus on where the economy is relative to its pre-coronavirus pandemic levels.

In the UK, we produce estimates of monthly and quarterly GDP. However, there are reasons as to why these would not provide the same estimate as to where the economy is relative to its pre-pandemic levels. This primarily reflects that monthly estimates of GDP are based on only the output measure of GDP, while quarterly estimates of GDP reflect the average of the three approaches (output, income and expenditure).

However, the coronavirus pandemic has brought many [measurement challenges](#) that have created more uncertainty around our three approaches. This has led to an initial divergence between the output and average estimate, which is then reflected in how we compare monthly and quarterly estimates of GDP. Further information is available in our [Measuring monthly and quarterly UK gross domestic product during the coronavirus \(COVID-19\) pandemic article](#).

Estimates for the construction industry within monthly GDP will differ to those published in the construction output release as they account for both the outputs produced and inputs consumed by the industry. There are also some coverage differences given the use of the Annual Business Survey in their compilation.

Within the monthly GDP publication, government data are sourced on a quarterly basis; a monthly forecast is used to estimate data for the monthly round until quarterly data are available. While this is a standard practice with many of our data sources, pre-empting the behaviour of a series during a pandemic, in particular for health and education, comes with more uncertainty than usual so caution is advised when looking at the monthly estimates beyond the latest published quarter.

The Office for National Statistics (ONS) is aware of reclassifications or relocations of companies that may affect these published estimates of GDP and associated breakdowns. It is monitoring the data and will seek to implement any resulting changes into the national accounts as soon as possible.

Additional bank holiday for Queen Elizabeth II's State Funeral in September 2022

An additional bank holiday was announced for the State Funeral of Queen Elizabeth II, which occurred on 19 September 2022. This resulted in one fewer working day in September 2022, which may affect GDP estimates. Past experience with similar events in 2002 and 2012, as described in Section 3 of [A guide to interpreting monthly gross domestic product](#), highlighted the possibility of fluctuations in monthly GDP.

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. We reviewed the trading day patterns of all industries to ensure the genuine activity from the bank holiday was reflected in our published GDP seasonally adjusted estimates. Caution is advised when interpreting seasonally adjusted movements involving September and October 2022, and rolling three-month estimates.

10 . Strengths and limitations

Quality and methodology information (QMI) on strengths, limitations, appropriate uses, and how the data were created is available in the [Gross domestic product \(GDP\) QMI](#).

Monthly growth rates can be volatile. This indicator should therefore be used with caution and alongside other measures, such as the three-month growth rate, when looking for an indicator of the medium-term trend of the economy. However, it is useful in highlighting one-off changes that can be masked by three-month growth rates.

The latest comparisons of month on same month a year ago should be treated with caution given the impact of [base effects](#) on growth rates because of the economic impact of the coronavirus (COVID-19) pandemic throughout 2020 and 2021. Such comparisons and growth rates can be found in our [accompanying dataset](#).

11 . Related links

[Construction output in Great Britain: January 2023](#)

Bulletin | Released 10 March 2023

Short-term measures of output by the construction industry.

[Index of Production, UK: January 2023](#)

Bulletin | Released 10 March 2023

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

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

Bulletin | Released 10 March 2023

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

[Coronavirus and the effects on UK GDP](#)

Article | Released 6 May 2020

How the global coronavirus (COVID-19) pandemic and the wider containment efforts are expected to impact on UK gross domestic product (GDP) as well as some of the challenges that national statistical institutes are likely to face.

[Measuring monthly and quarterly UK gross domestic product during the coronavirus \(COVID-19\) pandemic](#)

Article | Released 11 November 2021

How we produce monthly and quarterly estimates of UK gross domestic product and why this affects estimating where the economy is relative to its pre-coronavirus (COVID-19) pandemic level.

12 . Cite this statistical bulletin

Office for National Statistics (ONS), released 10 March 2023, ONS website, statistical bulletin, [GDP monthly estimate, UK: January 2023](#)

GVA1

Monthly GDP based on GVA (Gross Value Added) ¹
Chained volume indices of gross value added at basic prices ^{2,3,4,5}

seasonally adjusted 2019=100

Industry sections (SIC2007)																							
	Total GVA at basic prices	Agriculture, forestry and fishing	Total production industries	Mining & quarrying	Manufacturing	Electricity gas, steam and air	Water supply, sewerage etc	Construction ⁶	Total service industries	Wholesale and retail: repair of motor vehicles and motorcycles	Transport and storage	Accommodation and food service activities	Information and Communication	Financial and insurance activities	Real estate activities	Professional, scientific and technical activities	Administrative and support service activities	Public administration and defence	Education	Human health and social work activities	Arts, entertainment and recreation	Other service activities	Activities of households as employers, undifferentiated goods and services
Section	A-T	A	B-E	B	C	D	E	F	G-T	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
2019 weights	1000	7	135	11	97	15	12	62	796	104	40	30	63	82	132	73	51	49	60	77	15	17	2
	YBFR	L2KL	L2KQ	L2KR	L2KX	L2MW	L2N2	L2N8	L2NC	L2NE	L2NI	L2NQ	L2NT	L2O6	L2OC	L2OI	L2OX	L2P8	L2PA	L2PC	L2PJ	L2PP	L2PT
2018	98.3	85.6	97.7	97.9	98.9	87.7	100.3	98.6	98.5	100.4	98.2	96.6	91.6	102.6	98.4	100.9	99.6	95.0	94.0	101.6	98.3	101.8	94.1
2019	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2020	89.4	96.5	101.3	96.8	100.1	109.1	104.8	86.5	87.6	81.6	70.3	59.9	98.6	100.3	100.0	92.5	89.0	95.2	82.5	69.1	71.9	86.3	78.0
2021	96.1	102.1	108.6	85.5	109.8	114.6	112.9	97.8	93.7	84.6	77.9	78.4	104.4	105.5	99.9	101.7	99.1	97.4	92.3	82.2	83.7	78.7	73.9
2022	100.2	105.7	104.7	86.8	104.6	110.6	115.1	103.3	98.9	82.4	87.6	107.1	113.0	104.8	99.5	108.3	113.5	101.1	98.5	89.6	103.9	81.1	68.4
	ECY2	ECY3	ECY4	ECY5	ECY6	ECY7	ECY8	ECY9	ECYC	ECYD	ECYG	ECYH	ECYI	ECYJ	ECYK	ECYL	ECYP	ECYQ	ECYR	ECYS	ECYT	ECYU	ECYV
2021 Jan	89.6	97.4	108.5	94.0	108.5	117.4	110.3	92.2	86.1	76.2	71.2	39.3	101.7	104.8	101.2	94.5	90.6	93.8	74.9	65.2	73.4	74.7	76.0
Feb	90.2	98.4	108.8	87.2	109.4	118.7	111.7	95.7	86.5	78.6	72.3	41.1	99.9	104.9	100.4	97.1	90.6	94.2	73.7	66.1	72.9	74.7	70.5
Mar	92.2	99.6	109.7	88.7	110.7	116.5	112.2	98.7	88.7	81.2	74.2	40.6	100.7	105.7	100.3	101.4	94.9	94.5	82.9	69.8	70.8	73.3	60.4
Apr	95.1	99.2	108.8	73.6	110.8	119.9	111.1	100.0	92.4	88.1	75.1	59.5	105.0	105.7	100.1	99.6	94.7	96.5	94.5	74.0	75.3	89.8	72.3
May	96.3	100.6	110.4	76.8	111.4	127.8	111.1	99.1	93.7	87.7	73.9	80.6	104.4	105.4	100.0	99.5	96.2	97.7	96.8	79.7	81.2	76.9	82.1
Jun	97.3	102.3	108.6	68.8	110.7	120.4	113.7	98.4	95.3	87.9	77.0	91.0	103.9	105.1	100.2	103.4	98.1	97.9	99.4	84.0	81.5	73.5	89.5
Jul	97.2	103.7	108.8	81.9	110.2	114.7	114.4	97.7	95.1	86.8	78.0	92.3	105.2	104.4	99.5	102.1	99.5	98.4	99.0	83.0	83.8	74.9	77.2
Aug	98.0	104.9	109.4	97.1	110.1	110.3	113.2	97.3	96.1	86.5	79.3	103.3	105.9	104.4	99.6	102.5	100.0	98.6	97.7	86.7	88.3	77.3	67.4
Sep	98.6	104.7	108.3	93.7	109.6	108.3	111.3	97.8	96.9	86.3	81.5	104.2	103.5	105.5	99.5	105.2	102.6	99.1	96.4	90.6	90.0	82.0	68.6
Oct	98.7	104.8	107.2	90.0	108.8	102.9	115.0	97.5	97.3	86.7	81.6	98.8	107.2	106.1	99.4	103.1	105.8	98.5	95.2	93.5	92.5	81.2	70.8
Nov	99.7	104.6	107.5	87.7	108.5	108.9	115.0	99.3	98.4	85.8	84.9	98.4	107.2	106.6	99.5	105.5	107.9	99.7	98.0	95.1	97.1	83.1	74.4
Dec	99.8	104.6	107.5	85.6	108.5	109.7	115.7	100.2	98.4	83.7	85.2	92.2	108.2	106.7	99.6	106.0	108.7	100.1	98.4	98.2	97.6	83.0	77.2
2022 Jan	100.0	104.7	107.4	89.4	107.6	112.1	116.3	101.5	98.6	84.8	85.4	98.1	112.1	105.5	99.5	105.8	109.3	100.4	97.8	93.6	97.2	85.5	75.1
Feb	99.9	105.4	107.0	89.2	107.0	112.2	116.2	101.3	98.5	83.5	86.0	105.3	113.5	104.9	99.1	106.3	111.4	100.4	97.3	90.8	99.0	83.3	69.2
Mar	100.0	105.7	106.9	89.8	107.0	110.4	116.4	103.1	98.5	81.8	87.6	105.8	112.1	104.6	99.3	107.5	111.6	100.4	97.0	91.0	103.7	82.6	63.7
Apr	100.0	105.9	106.3	87.3	106.2	111.8	117.8	103.0	98.6	83.2	87.2	107.2	112.5	104.9	99.5	107.2	112.9	100.5	98.1	86.9	107.4	81.3	66.5
May	100.7	106.1	106.3	88.1	106.4	112.1	114.7	104.7	99.4	82.3	88.0	108.2	113.7	105.2	99.6	109.9	114.3	100.6	98.3	90.3	105.1	81.8	69.2
Jun	99.8	106.1	104.9	85.9	104.6	111.4	116.2	102.6	98.7	81.8	86.8	110.5	112.9	105.2	99.5	108.6	111.1	100.7	98.6	87.9	105.3	81.2	72.9
Jul	100.2	106.3	104.2	90.6	103.6	110.7	113.1	103.7	99.2	82.2	89.0	110.2	113.2	105.1	99.6	108.7	113.0	101.1	99.9	88.0	108.4	81.1	68.3
Aug	100.2	106.1	102.6	83.0	102.3	110.0	113.6	103.9	99.5	82.4	90.0	108.0	114.9	104.9	99.6	109.7	114.1	101.6	100.2	88.7	105.6	79.1	65.3
Sep	99.6	105.5	102.5	84.3	102.1	109.6	114.1	103.7	98.7	80.6	89.5	107.1	111.4	104.4	99.5	108.9	112.8	101.9	99.6	89.1	102.6	79.5	66.8
Oct	100.1	105.5	102.7	84.0	103.0	106.4	112.6	104.4	99.3	82.3	89.4	107.5	111.6	104.1	99.7	109.2	115.2	101.9	99.4	90.0	108.3	79.5	68.3
Nov	100.3	105.4	102.8	86.9	102.4	107.1	114.9	103.9	99.5	82.2	87.7	109.0	113.9	104.0	99.6	108.5	117.8	101.9	99.1	90.5	106.2	79.7	68.9
Dec	99.7	105.3	103.1	82.9	102.4	112.7	115.7	103.9	98.7	81.9	84.9	108.1	113.7	104.2	99.5	109.3	118.3	101.9	96.5	88.0	98.0	78.0	67.1
2023 Jan	100.0	105.3	102.8	81.1	102.0	113.2	116.4	102.1	99.3	82.1	86.3	108.5	114.1	104.5	99.4	109.6	118.8	101.9	98.9	88.6	101.3	79.3	67.4
Percentage change, latest year on previous year																							
	GDPQ	L3BB	L3BG	L3BH	L3BN	L3DM	L3DQ	L3DW	L3E2	L3E4	L3E8	L3EG	L3EJ	L3EU	L3F2	L3F8	L3FN	L3FW	L3FY	L3G2	L3G9	L3GF	L3GJ
2018	1.6	-12.5	3.3	6.3	4.3	-3.2	1.1	-1.7	1.7	-0.7	3.2	-1.7	13.2	-0.9	1.4	0.5	0.1	0.9	4.6	-0.9	1.1	5.0	8.5
2019	1.7	16.9	2.3	2.2	1.2	14.0	-0.3	1.5	1.5	-0.4	1.9	3.5	9.2	-2.5	1.7	-0.9	0.5	5.3	6.4	-1.6	1.8	-1.7	6.3
2020	-10.6	-3.5	1.2	-3.2	0.1	9.1	4.8	-13.5	-12.4	-18.4	-29.7	-40.1	-1.4	0.3	0.0	-7.5	-11.0	-4.9	-17.5	-30.9	-28.2	-13.7	-22.1
2021	7.4	5.8	7.3	-11.7	9.7	5.1	7.8	13.1	7.0	3.7	10.8	30.9	5.9	5.2	-0.1	9.9	11.4	2.4	11.9	19.0	16.5	-8.8	-5.2
2022	4.1	3.5	-3.6	1.6	-4.8	-3.5																	

GVA2

Monthly GDP based on GVA (Gross Value Added) ¹
Chained volume indices of gross value added at basic prices ^{2,3,4,5}

seasonally adjusted 2019=100

	Industry sections (SIC2007)																						Activities of households as employers, undifferentiated goods and services
	Total GVA at basic prices	Agriculture, forestry and fishing	Total production industries	Mining & quarrying	Manufacturing	Electricity gas, steam and air	Water supply, sewerage etc	Construction ⁶	Total service industries	Wholesale and retail: repair of motor vehicles and motorcycles	Transport and storage	Accommodation and food service activities	Information and Communication	Financial and insurance activities	Real estate activities	Professional, scientific and technical activities	Administrative and support service activities	Public administration and defence	Education	Human health and social work activities	Arts, entertainment and recreation	Other service activities	
Section	A-T	A	B-E	B	C	D	E	F	G-T	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
2019 weights	1000	7	135	11	97	15	12	62	796	104	40	30	63	82	132	73	51	49	60	77	15	17	2

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

	ED9T	ED9U	ED9V	ED9W	EDGQ	EDGR	EDGS	EDGT	EDGU	EDGV	EDGW	EDGX	EDGY	EDGZ	EDHA	EDHB	EDHC	EDHD	EDHE	EDHF	EDHG	EDHH	EDHI
2021 Jan	-9.6	-6.5	6.9	-1.3	8.1	3.5	8.5	-6.3	-12.7	-17.7	-22.1	-56.2	-0.6	2.3	0.8	-5.7	-14.4	-5.2	-12.9	-38.1	-29.0	-19.9	-25.1
Feb	-9.7	-5.7	5.7	-4.4	6.1	7.8	7.9	-6.0	-12.7	-16.5	-20.8	-56.8	-1.3	3.8	0.6	-3.7	-15.1	-3.9	-19.2	-37.9	-27.5	-19.9	-28.3
Mar	-7.5	-4.1	6.3	-7.0	7.1	9.4	6.9	-2.6	-10.4	-12.4	-15.6	-55.7	-0.9	4.2	0.0	-1.7	-12.1	-3.1	-13.6	-34.0	-24.3	-23.6	-27.2
Apr	3.9	1.7	14.8	-13.6	19.3	12.6	9.1	18.2	0.9	6.3	6.7	-22.3	2.3	5.6	-0.4	5.8	1.7	-2.0	14.6	-15.4	-7.5	-7.9	-9.9
May	16.9	7.1	22.8	-16.9	30.6	17.4	11.1	41.3	14.1	23.9	34.8	99.2	7.0	6.4	-0.2	12.8	20.0	-0.6	56.1	16.0	26.0	6.0	27.0
Jun	24.3	10.5	23.3	-26.4	32.4	18.5	11.9	56.5	22.5	27.4	52.3	402.6	10.5	6.7	0.2	18.1	28.8	1.0	75.2	55.7	55.1	17.6	67.6
Jul	17.4	9.8	14.0	-25.1	19.6	12.3	10.1	32.9	17.1	12.2	31.9	166.8	8.5	5.2	0.2	16.4	21.9	2.6	52.8	51.9	46.5	-5.5	50.4
Aug	11.4	9.4	7.1	-17.2	10.4	3.1	7.5	17.0	11.9	3.2	18.0	61.1	7.2	4.8	0.1	14.9	16.5	3.9	27.9	46.8	33.4	-12.3	11.7
Sep	8.2	8.9	3.9	-5.7	5.6	-2.3	6.4	8.5	9.1	1.5	11.8	27.1	6.6	4.9	-0.1	14.0	16.6	5.3	9.2	43.5	28.3	-15.3	-15.6
Oct	7.4	8.9	1.9	-0.5	2.7	-5.3	6.1	5.5	8.7	2.0	10.9	24.5	6.4	5.6	-0.3	12.9	18.5	5.8	0.4	45.4	28.5	-9.8	-24.1
Nov	8.1	8.8	-0.1	-2.9	0.0	-4.7	6.6	4.2	10.1	3.9	12.0	53.1	6.4	5.9	-0.4	12.5	20.4	6.5	-0.8	47.4	32.8	-4.5	-20.1
Dec	8.3	8.6	-1.5	-7.2	-1.5	-4.1	6.2	4.7	10.7	3.8	12.7	76.1	7.8	4.9	-0.5	10.7	19.4	6.7	1.5	50.9	31.9	-6.1	-12.1
2022 Jan	9.9	8.1	-1.7	-7.1	-1.9	-3.2	5.5	7.0	12.6	6.7	15.4	120.9	9.4	3.0	-0.8	11.1	19.7	7.2	11.7	49.7	34.3	1.4	-5.1
Feb	10.2	7.4	-1.7	-5.0	-1.7	-4.5	4.6	7.6	13.0	6.5	17.2	126.4	11.3	1.0	-1.2	10.0	20.0	6.9	21.6	45.3	31.9	3.2	-1.9
Mar	10.2	6.9	-1.8	-0.6	-2.1	-5.0	4.4	6.7	13.1	6.0	18.9	155.5	11.7	-0.1	-1.3	9.1	20.4	6.6	26.2	37.0	38.2	12.9	0.6
Apr	8.0	6.7	-2.2	6.7	-3.2	-5.8	4.6	4.4	10.5	0.3	17.6	125.5	10.7	-0.6	-1.0	7.7	19.9	5.6	16.5	28.0	41.6	3.9	-1.8
May	6.0	6.1	-2.9	10.9	-4.0	-8.2	4.3	4.4	7.9	-3.7	17.6	77.9	9.1	-0.7	-0.7	8.0	18.5	4.4	7.0	20.0	39.2	2.4	-7.1
Jun	4.0	5.3	-3.2	19.2	-4.7	-8.9	3.8	4.3	5.4	-6.2	15.9	41.0	8.2	-0.3	-0.5	7.7	17.0	3.3	1.5	11.5	33.6	1.8	-14.4
Jul	3.4	3.9	-3.8	16.3	-5.4	-7.9	1.4	5.4	4.7	-6.1	15.2	24.6	8.4	0.2	-0.3	7.3	15.2	2.8	0.5	7.9	29.4	8.4	-15.4
Aug	2.7	2.4	-4.7	4.7	-6.2	-3.8	0.5	5.7	3.8	-5.7	13.5	14.7	8.2	0.4	-0.2	6.2	13.6	2.8	0.9	4.3	25.9	7.0	-11.8
Sep	2.1	1.5	-5.3	-5.4	-6.7	-0.9	0.5	6.3	3.2	-5.5	12.4	8.5	7.9	0.0	0.0	5.7	12.5	2.8	2.2	2.1	20.8	2.4	-6.0
Oct	1.6	0.8	-5.3	-10.5	-6.5	1.4	0.2	6.6	2.5	-5.4	11.0	5.3	6.8	-0.8	0.1	5.5	10.9	3.1	3.4	-1.1	16.9	-1.0	-3.1
Nov	1.0	0.7	-4.6	-6.0	-5.9	1.0	0.1	5.9	1.6	-5.3	7.5	7.4	6.0	-1.8	0.1	4.1	9.3	2.9	2.9	-3.4	13.4	-3.1	-4.6
Dec	0.6	0.7	-4.2	-3.6	-5.6	1.5	-0.7	5.1	1.2	-3.8	4.1	12.2	5.1	-2.2	0.1	4.0	9.0	2.5	1.1	-6.4	8.8	-4.1	-8.1
2023 Jan	0.1	0.6	-4.2	-4.5	-5.5	0.7	0.0	3.0	0.7	-3.2	1.3	12.7	4.3	-1.9	0.0	3.2	8.9	1.9	0.1	-6.9	4.7	-5.9	-10.3

Percentage change, latest month on previous month

	ECYX	ECYY	ECYZ	ECZ2	ECZA	ECZC	ECZD	ECZE	ECZG	ECZK	ECZN	ECZT	ECZU	ED2G	ED2H	ED2I	ED2J	ED2K	ED2L	ED2M	ED2N	ED2O	ED2P
2021 Jan	-2.9	0.2	-1.5	-3.0	-2.2	3.3	-0.4	-1.6	-3.4	-7.0	-5.9	-21.6	3.5	0.6	1.0	-3.3	-3.0	0.4	-19.4	3.0	-4.0	-21.0	-4.2
Feb	0.7	1.0	0.3	-7.2	0.8	1.1	1.2	3.7	0.5	3.1	1.6	4.6	-1.8	0.0	-0.8	2.8	0.1	0.5	-1.6	1.3	-0.7	0.0	-7.3
Mar	2.3	1.3	0.8	1.7	1.2	-1.8	0.4	3.1	2.5	3.4	2.7	-1.3	0.8	0.8	-0.1	4.4	4.7	0.3	12.4	5.7	-2.9	-1.9	-14.3
Apr	3.1	-0.4	-0.8	-17.0	0.1	2.9	-1.0	1.4	4.1	8.5	1.2	46.6	4.3	0.0	-0.2	-1.8	-0.2	2.1	14.0	6.0	6.4	22.5	19.8
May	1.3	1.3	1.4	4.3	0.6	6.6	0.0	-0.9	1.5	-0.4	-1.6	35.4	-0.6	-0.3	0.0	-0.1	1.6	1.3	2.5	7.7	7.8	-14.4	13.6
Jun	1.0	1.8	-1.6	-10.5	-0.7	-5.8	2.4	-0.8	1.7	0.3	4.1	13.0	-0.5	-0.2	0.1	3.9	2.0	0.2	2.6	5.4	0.3	-4.4	9.0
Jul	-0.2	1.3	0.2	19.1	-0.4	-4.7	0.6	-0.7	-0.2	-1.3	1.4	1.4	1.3	-0.7	-0.6	-1.3	1.4	0.5	-0.3	-1.2	2.9	1.9	-13.7
Aug	0.9	1.2	0.5	18.6	-0.1	-3.9	-1.0	-0.4	1.0	-0.3	1.6	12.0	0.6	0.0	0.1	0.5	0.2	-1.4	4.4	5.4	3.2	-12.7	-12.7
Sep	0.6	-0.2	-1.0	-3.5	-0.5	-1.8	-1.7	0.5	0.9	-0.3	2.7	0.9	-2.3	1.0	-0.1	2.6	2.6	0.5	-1.3	4.5	1.9	6.1	1.8
Oct	0.1	0.1	-1.0	-3.9	-0.7	-5.0	3.3	-0.3	0.4	0.4	0.1	-5.2	3.6	0.6	-0.1	-2.0	3.1	-0.7	-1.2	3.2	2.8	-1.0	3.1
Nov	1.0	-0.3	0.2	-2.6	-0.3	5.8	0.0	1.8	1.1	-1.0	4.1	-0.3	0.0	0.5	0.1	2.3	2.0	1.2	2.9	1.7	5.0	2.3	5.2
Dec	0.1	0.1	0.0	-2.4	0.0	0.7	0.7	0.9	0.1	-2.5	0.4	-6.3	0.9	0.1	0.1	0.5	0.8	0.5	0.5	3.2	0.5	-0.1	3.7
2022 Jan	0.2	0.1	-0.1	4.4	-0.9	2.1	0.5	1.3	0.1	1.3	0.2	6.4	3.6	-1.1	-0.1	-0.2	0.5	0.3	-0.6	-4.7	-0.5	3.0	-2.8
Feb	-0.1	0.6	-0.4	-0.2	-0.5	0.1	0.0	-0.2	0.0	-1.4	0.6	7.3	1.3	-0.6	-0.4	0.5	2.0	0.0	-0.5	-3.0	1.9	-2.6	-7.8
Mar	0.0	0.3	-0.1	0.7	0.0	-1.6	0.1	1.8	-0.1	-2.0	1.9	0.5	-1.3	-0.3	0.1	1.1	0.1	0.0	-0.3	0.3	4.8	-0.8	-8.0
Apr	0.0	0.2	-0.5	-2.8	-0.8	1.2	1.2	-0.1	0.1	1.7	-0.5	1.3	0.3	0.3	0.2	-0.3	1.2	0.0	1.1	-4.6	3.5	-1.5	4.3
May	0.7	0.2	0.0	0.9	0.2	0.3	-2.6	1.7	0.8	-1.1	0.9	0.9	1.1	0.3	0.2	2.5	1.3	0.1	0.3	4.0	-2.1	0.6	4.1
Jun	-0.8	0.0	-1.3	-2.5	-1.6	-0.7	1.3	-2.0	-0.7	-0.7	-1.3	2.1	-0.8	0.1	-0.1	-1.2	-2.8	0.1	0.2	-2.7	0.2	-0.7	5.3
Jul	0.4	0.3	-0.7	5.5	-1.0	-0.6	-2.7	1.0	0.5	0.6	2.6	-0.3	0.3	-0.2	0.1	0.2	1.8	0.4	1.3	0.0	2.9	-0.2	-6.0
Aug	0.0	-0.3	-1.5	-8.4	-1.3	-0.7	0.4	0.3	0.3	0.2	1.1	-2.0	1.5	-0.1	0.0	0.9	0.9	0.6	0.4	0.9	-2.6	-2.5	-4.5
Sep	-0.7	-0.5	0.0	1.5	-0.2	-0.3	0.4	-0.3	-0.8	-2.2	-0.6	-0.8	-3.0	-0.5	-0.1	-0.7	-1.1	0.3	-0.6	0.5	-2.8	0.5	2.3
Oct	0.5	0.0	0.1	-0.3	0.9	-3.0	-1.3	0.7	0.6	2.0	0.0	0.4	0.1	-0.2	0.2	0.2	2.1	0.0	-0.2	1.0	5.6	0.0	2.3
Nov	0.1	-0.2	0.1	3.4	-0.6	0.7	2.1	-0.5	0.2	-0.1	-2.0	1.4	2.1	-0.1	-0.1	-0.6	2.3	0.0	-0.3	0.6	-1.9	0.2	0.9
Dec	-0.5	-0.1	0.3	-4.6	0.0	5.2	0.7	0.0	-0.8	-0.4	-3.1	-0.8	-0.2	0.2	0.0	0.7	0.4	0.0	-2.6	-2.8	-7.8	-2.1	-2.7
2023 Jan	0.3	0.0	-0.3	-2.2	-0.4	0.5	0.6	-1.7	0.5	0.3	1.6	0.3	0.3	0.3	-0.1	0.3	0.4	0.0	2.5	0.7	3.4	1.7	0.5

1 The GVA output is designated as a National Statistic.

2 Indices reflect values measured at basic prices, which exclude "taxes less subsidies on products".

3 Estimates cannot be regarded as accurate to the last digit shown.

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

5 A complete run of data is available on the ONS website.

6. The construction growth rates calculated from this release may have small differences to those in [Construction Output in Great Britain](#) releases, due to rounding differences. For the most accurate figure, please refer to the Construction Output release.

Sources: For further information on these data please telephone 01633 582428 or E-mail gdp@ons.gov.uk

GVA3

Monthly GDP based on GVA (Gross Value Added) ¹
Chained volume indices of gross value added at basic prices ^{2,3,4,5}

seasonally adjusted 2019=100

	Industry sections (SIC2007)																						Activities of households as employers, undifferentiated goods and services
	Total GVA at basic prices	Agriculture, forestry and fishing	Total production industries	Mining & quarrying	Manufacturing	Electricity gas, steam and air	Water supply, sewerage etc	Construction ⁶	Total service industries	Wholesale and retail: repair of motor vehicles and motorcycles	Transport and storage	Accommodation and food service activities	Information and Communication	Financial and insurance activities	Real estate activities	Professional, scientific and technical activities	Administrative and support service activities	Public administration and defence	Education	Human health and social work activities	Arts, entertainment and recreation	Other service activities	
Section	A-T	A	B-E	B	C	D	E	F	G-T	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
2019 weights	1000	7	135	11	97	15	12	62	796	104	40	30	63	82	132	73	51	49	60	77	15	17	2

Percentage change, latest month on same month a year ago

	ED2R	ED2S	ED2T	ED2U	ED2V	ED2W	ED2X	ED2Y	ED2Z	ED32	ED33	ED34	ED35	ED36	ED37	ED38	ED39	ED3A	ED3B	ED3C	ED3D	ED3E	ED3F
2021 Jan	-11.1	-7.0	4.6	-3.7	4.3	9.8	6.7	-7.8	-14.1	-20.1	-23.7	-61.2	1.3	4.7	1.2	-6.0	-16.8	-3.9	-25.6	-38.1	-28.5	-24.7	-30.3
Feb	-10.0	-5.1	4.1	-12.8	4.4	10.9	7.2	-3.8	-13.0	-14.5	-18.8	-59.8	-2.0	3.8	-0.3	-1.7	-16.9	-3.0	-23.9	-37.2	-28.6	-25.7	-29.9
Mar	-1.0	-0.1	10.5	-4.2	13.0	7.7	6.7	4.3	-3.5	-1.2	-1.9	-41.6	-2.0	4.2	-0.9	2.5	-1.3	-2.4	17.7	-25.8	-13.7	-20.2	-18.9
Apr	29.1	11.6	34.0	-23.4	48.4	19.9	13.8	81.6	25.3	49.1	74.8	506.5	11.8	8.7	0.1	18.6	34.4	-0.5	82.8	51.1	43.3	36.2	43.0
May	26.8	10.6	26.4	-22.5	35.2	25.3	13.2	62.4	24.8	32.6	57.5	607.0	12.0	6.4	0.2	19.2	34.5	1.2	80.9	60.5	77.1	12.3	86.1
Jun	17.6	9.5	11.5	-33.0	17.3	10.9	8.8	33.0	17.8	7.6	31.6	267.4	7.7	5.0	0.5	16.5	19.1	2.3	63.8	55.6	48.0	5.4	75.9
Jul	9.3	9.4	5.8	-19.7	9.0	2.0	8.3	12.2	9.7	1.0	14.5	47.1	6.1	4.3	-0.1	13.8	14.2	4.2	25.3	41.3	24.4	-25.2	9.6
Aug	8.0	9.3	4.3	2.7	5.6	-3.3	5.3	8.4	8.7	1.2	10.2	14.4	8.0	5.3	-0.1	14.4	16.4	5.3	6.3	44.5	30.5	-11.7	-23.6
Sep	7.4	8.2	1.7	1.2	2.4	-5.5	5.7	5.3	8.8	2.3	10.8	26.0	5.8	5.2	-0.2	14.0	19.4	6.4	-1.2	44.6	29.9	-7.7	-27.0
Oct	6.9	9.1	-0.4	-5.3	0.2	-7.3	7.3	3.0	8.7	2.4	11.5	35.5	5.5	6.4	-0.5	10.5	19.7	5.8	-3.5	47.1	25.5	-9.8	-21.4
Nov	10.0	9.1	-1.7	-4.6	-2.5	-1.5	6.7	4.3	13.0	7.1	13.7	138.2	7.9	6.1	-0.3	13.1	22.0	7.2	2.4	50.4	43.8	5.4	-11.0
Dec	8.2	7.7	-2.4	-11.6	-2.2	-3.4	4.5	6.9	10.5	2.1	12.8	84.0	10.2	2.4	-0.6	8.4	16.5	7.2	6.0	55.2	27.6	-12.2	-2.7
2022 Jan	11.6	7.6	-1.0	-4.9	-0.9	-4.5	5.4	10.1	14.5	11.3	20.0	149.6	10.2	0.7	-1.7	12.0	20.7	7.0	30.6	43.6	32.4	14.5	-1.2
Feb	10.8	7.1	-1.7	2.2	-2.2	-5.4	4.0	5.8	13.9	6.3	18.9	155.9	13.7	0.0	-1.2	9.5	22.9	6.5	32.0	37.4	35.8	11.5	-1.7
Mar	8.4	6.1	-2.6	1.2	-3.3	-5.2	3.7	4.5	11.0	0.8	17.9	160.8	11.3	-1.1	-1.0	6.0	17.6	6.3	17.1	30.4	46.6	12.7	5.6
Apr	5.1	6.7	-2.3	18.6	-4.2	-6.8	6.1	3.0	6.7	-5.5	16.0	80.3	7.1	-0.8	-0.6	7.7	19.2	4.1	3.8	17.4	42.6	-9.4	-8.1
May	4.5	5.5	-3.7	14.7	-4.5	-12.2	3.3	5.6	6.1	-6.1	19.0	34.3	8.9	-0.2	-0.4	10.5	18.8	2.9	1.6	13.3	29.5	6.4	-15.7
Jun	2.6	3.6	-3.4	24.9	-5.5	-7.5	2.2	4.3	3.6	-7.0	12.8	21.4	8.6	0.1	-0.6	5.0	13.2	2.8	-0.8	4.6	29.2	10.6	-18.5
Jul	3.1	2.6	-4.3	10.6	-6.1	-3.5	-1.1	6.1	4.3	-5.2	14.1	19.4	7.5	0.6	0.1	6.5	13.6	2.7	0.8	5.9	29.3	8.3	-11.5
Aug	2.3	1.1	-6.2	-14.5	-7.2	-0.3	0.3	6.8	3.6	-4.7	13.5	4.5	8.5	0.5	0.0	7.0	14.0	3.0	2.6	2.3	19.6	2.4	-3.2
Sep	1.0	0.8	-5.3	-10.1	-6.9	1.2	2.5	6.0	1.8	-6.5	9.8	2.8	7.7	-1.0	0.0	3.5	9.9	2.8	3.3	-1.6	14.0	-3.1	-2.7
Oct	1.4	0.7	-4.2	-6.7	-5.3	3.4	-2.1	7.0	2.0	-5.0	9.6	8.8	4.1	-1.9	0.3	5.9	8.9	3.5	4.4	-3.7	17.1	-2.1	-3.5
Nov	0.6	0.8	-4.3	-0.9	-5.6	-1.6	-0.1	4.6	1.1	-4.2	3.2	10.8	6.2	-2.4	0.1	2.9	9.2	2.3	1.1	-4.8	9.4	-4.1	-7.4
Dec	-0.1	0.6	-4.0	-3.2	-5.7	2.7	0.0	3.7	0.3	-2.1	-0.4	17.2	5.1	-2.3	-0.1	3.2	8.8	1.8	-2.0	-10.3	0.4	-6.1	-13.1
2023 Jan	0.0	0.5	-4.3	-9.3	-5.2	1.0	0.1	0.6	0.7	-3.1	1.0	10.5	1.8	-0.9	-0.1	3.6	8.7	1.5	1.1	-5.3	4.3	-7.3	-10.2

1 The GVA output is designated as a National Statistic.

2 Indices reflect values measured at basic prices, which exclude "taxes less subsidies on products".

3 Estimates cannot be regarded as accurate to the last digit shown.

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

5 A complete run of data is available on the ONS website.

6 The construction growth rates calculated from this release may have small differences to those in [Construction Output in Great Britain](#) releases, due to rounding differences. For the most accurate figure, please refer to the Construction Output release.

Sources: For further information on these data please telephone 01633 582428 or E-mail gdp@ons.gov.uk

CONTRIB 1

Monthly GDP based on GVA (Gross Value Added) ¹
Contributions to growth of gross value added at basic prices ^{2,3,4,5}

seasonally adjusted 2019=100

	Industry sections (SIC2007)																							Activities of households as employers, undifferentiated goods and services
	Total GVA at basic prices	Agriculture, forestry and fishing	Total production industries	Mining & quarrying	Manufacturing	Electricity gas, steam and air	Water supply, sewerage etc	Construction	Total service industries	Wholesale and retail: repair of motor vehicles and motorcycles	Transport and storage	Accommodation and food service activities	Information and Communication	Financial and insurance activities	Real estate activities	Professional, scientific and technical activities	Administrative and support service activities	Public administration and defence	Education	Human health and social work activities	Arts, entertainment and recreation	Other service activities		
Section	A-T	A	B-E	B	C	D	E	F	G-T	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	
2019 weights	1000	7	137	11	99	15	12	64	792	105	40	29	62	82	131	74	51	48	59	76	16	17	2	

Contribution to growth, latest 3 months on previous 3 months

		EDMB	EDMC	EDMD	EDME	EDMF	EDMG	EDMH	EDMI	EDMJ	EDMK	EDML	EDMM	EDMN	EDMO	EDMP	EDMQ	EDMR	EDMS	EDMT	EDMU	EDMV	EDMW	EDMX
2021	Jan	-0.86	0.00	0.38	0.00	0.34	0.01	0.03	0.08	-1.43	-0.67	0.04	-1.22	0.04	0.30	0.08	0.27	0.22	0.00	-0.61	0.22	0.04	-0.11	-0.02
	Feb	-0.99	0.01	0.17	0.00	0.06	0.06	0.05	-0.02	-1.21	-0.52	-0.04	-0.70	0.02	0.38	0.10	0.28	0.21	0.04	-1.26	0.20	0.07	-0.08	-0.03
	Mar	-1.19	0.01	0.00	-0.04	-0.07	0.08	0.03	0.06	-1.32	-0.45	-0.09	-0.46	0.07	0.31	0.09	0.23	0.11	0.06	-1.39	0.44	0.00	-0.25	-0.03
	Apr	1.84	0.02	-0.02	-0.09	0.00	0.06	0.02	0.28	1.60	0.40	0.00	0.11	0.14	0.19	-0.02	0.34	0.14	0.09	-0.31	0.74	0.01	-0.06	-0.02
	May	4.29	0.02	0.07	-0.10	0.13	0.07	0.01	0.35	3.95	0.85	0.06	0.53	0.23	0.08	-0.06	0.30	0.20	0.13	0.83	1.18	0.02	-0.02	-0.01
	Jun	6.18	0.02	0.04	-0.13	0.14	0.07	0.01	0.23	6.06	1.17	0.13	1.17	0.25	0.02	-0.07	0.26	0.23	0.18	1.49	1.49	0.11	0.11	0.03
	Jul	4.81	0.02	0.02	-0.06	0.05	0.04	0.02	0.02	4.90	0.60	0.11	1.28	0.17	-0.04	-0.05	0.18	0.24	0.16	1.09	1.47	0.15	-0.08	0.03
	Aug	3.11	0.03	-0.09	0.02	-0.06	-0.08	0.03	-0.09	3.39	0.17	0.16	1.08	0.11	-0.08	-0.05	0.20	0.20	0.11	0.53	1.17	0.14	-0.09	0.01
	Sep	1.72	0.03	-0.05	0.13	-0.09	-0.15	0.01	-0.05	1.92	-0.16	0.18	0.69	0.03	-0.05	-0.07	0.19	0.22	0.07	0.06	0.86	0.12	-0.03	-0.02
	Oct	1.53	0.02	-0.12	0.13	-0.11	-0.18	0.00	-0.05	1.76	-0.12	0.19	0.42	0.06	0.03	-0.05	0.15	0.25	0.04	-0.14	0.91	0.12	0.09	-0.03
	Nov	1.54	0.01	-0.15	0.06	-0.12	-0.11	0.00	0.02	1.74	-0.10	0.19	0.15	0.06	0.11	-0.03	0.15	0.31	0.04	-0.15	0.96	0.13	0.12	-0.01
	Dec	1.52	0.00	-0.18	-0.02	-0.12	-0.05	0.02	0.08	1.69	-0.13	0.18	-0.10	0.17	0.14	-0.01	0.12	0.34	0.04	-0.03	1.00	0.13	0.08	0.01
2022	Jan	1.42	0.00	-0.10	-0.06	-0.11	0.04	0.03	0.16	1.40	-0.21	0.18	-0.17	0.22	0.08	0.00	0.16	0.29	0.07	0.11	0.55	0.11	0.06	0.01
	Feb	0.91	0.00	-0.04	-0.02	-0.11	0.06	0.03	0.16	0.81	-0.27	0.12	-0.06	0.32	-0.03	-0.01	0.10	0.22	0.06	0.09	0.11	0.07	0.03	0.00
	Mar	0.54	0.00	-0.04	0.02	-0.12	0.06	0.01	0.17	0.41	-0.24	0.10	0.19	0.30	-0.12	-0.02	0.12	0.16	0.05	0.01	-0.39	0.06	0.02	-0.01
	Apr	0.10	0.01	-0.12	0.01	-0.12	0.02	0.01	0.12	0.06	-0.22	0.07	0.29	0.21	-0.12	-0.03	0.09	0.17	0.02	-0.04	-0.61	0.09	-0.03	-0.02
	May	0.29	0.01	-0.10	0.00	-0.10	0.00	0.00	0.15	0.24	-0.18	0.08	0.25	0.09	-0.07	0.00	0.16	0.15	0.01	0.00	-0.48	0.11	-0.03	-0.01
	Jun	0.21	0.01	-0.15	-0.02	-0.13	0.00	0.00	0.09	0.29	-0.11	0.04	0.16	0.03	0.01	0.03	0.15	0.10	0.01	0.06	-0.34	0.09	-0.04	0.00
	Jul	0.31	0.00	-0.19	-0.01	-0.16	0.00	-0.02	0.07	0.46	-0.09	0.04	0.10	0.03	0.03	0.04	0.15	0.04	0.02	0.09	-0.08	0.04	-0.02	0.01
	Aug	-0.10	0.00	-0.31	-0.02	-0.26	-0.01	-0.02	-0.01	0.27	-0.04	0.04	0.07	0.05	0.02	0.02	0.06	-0.01	0.03	0.11	-0.12	0.01	-0.02	0.00
	Sep	-0.16	0.00	-0.33	-0.01	-0.26	-0.02	-0.03	0.02	0.19	-0.08	0.09	-0.01	0.01	-0.03	0.01	0.04	0.03	0.05	0.10	0.02	-0.01	-0.03	0.00
	Oct	-0.28	0.00	-0.30	-0.04	-0.20	-0.04	-0.01	0.02	0.04	-0.04	0.07	-0.06	-0.04	-0.06	0.00	0.02	0.06	0.06	0.05	0.05	-0.01	-0.03	-0.01
	Nov	-0.13	-0.01	-0.14	-0.01	-0.08	-0.04	-0.01	0.03	0.01	-0.05	0.01	-0.05	-0.08	-0.07	0.00	-0.01	0.13	0.04	-0.01	0.17	-0.01	-0.02	0.00
	Dec	0.02	0.00	-0.03	-0.01	0.00	-0.02	0.01	0.02	0.04	0.04	-0.09	-0.01	-0.01	-0.05	0.00	-0.01	0.19	0.02	-0.10	0.09	-0.02	-0.01	0.00
2023	Jan	0.01	0.00	0.04	0.00	-0.02	0.05	0.02	-0.04	0.01	0.04	-0.15	0.03	0.07	-0.02	-0.01	-0.01	0.21	0.01	-0.10	-0.02	-0.05	-0.01	0.00

Contribution to growth, latest 3 months on same 3 months a year ago

		EDMY	EDMZ	EDNA	EDNB	EDNC	EDND	EDNE	EDNF	EDNG	EDNH	EDNI	EDNJ	EDNK	EDNL	EDNM	EDNN	EDNO	EDNP	EDNQ	EDNR	EDNS	EDNT	EDNU
2021	Jan	-9.60	-0.04	0.82	-0.01	0.71	0.05	0.09	-0.36	-10.44	-1.94	-0.86	-1.62	-0.04	0.19	0.09	-0.42	-0.74	-0.25	-0.89	-4.33	-0.44	-0.35	-0.05
	Feb	-9.71	-0.04	0.68	-0.03	0.54	0.10	0.09	-0.34	-10.41	-1.77	-0.79	-1.65	-0.08	0.30	0.07	-0.27	-0.80	-0.19	-1.31	-4.35	-0.42	-0.34	-0.06
	Mar	-7.50	-0.03	0.77	-0.05	0.64	0.13	0.08	-0.15	-8.47	-1.30	-0.57	-1.50	-0.06	0.34	0.00	-0.13	-0.63	-0.15	-0.85	-3.88	-0.35	-0.39	-0.05
	Apr	3.95	0.01	1.85	-0.10	1.73	0.19	0.11	0.98	0.76	0.63	0.22	-0.44	0.16	0.49	-0.05	0.45	0.08	-0.11	0.83	-1.58	-0.10	-0.13	-0.02
	May	16.86	0.05	2.94	-0.14	2.77	0.28	0.15	2.08	11.52	2.33	0.98	1.07	0.51	0.62	-0.03	1.02	0.96	-0.04	2.79	1.40	0.29	0.09	0.04
	Jun	24.26	0.08	3.11	-0.24	3.03	0.31	0.17	2.68	18.27	2.79	1.38	2.31	0.78	0.67	0.04	1.45	1.36	0.06	3.69	4.04	0.54	0.26	0.08
	Jul	17.43	0.07	1.90	-0.22	1.90	0.20	0.14	1.71	13.75	1.32	0.93	1.93	0.61	0.49	0.03	1.27	1.04	0.15	2.83	3.76	0.47	-0.09	0.06
	Aug	11.45	0.07	0.96	-0.14	1.03	0.05	0.10	0.94	9.55	0.35	0.56	1.20	0.49	0.43	0.01	1.11	0.79	0.21	1.69	3.41	0.36	-0.20	0.02
	Sep	8.22	0.06	0.53	-0.04	0.56	-0.04	0.08	0.49	7.24	0.16	0.38	0.68	0.44	0.43	-0.02	1.03	0.78	0.27	0.63	3.21	0.32	-0.26	-0.03
	Oct	7.44	0.06	0.25	0.00	0.27	-0.08	0.08	0.32	6.96	0.21	0.36	0.64	0.42	0.48	-0.04	0.95	0.86	0.30	0.03	3.40	0.33	-0.16	-0.04
	Nov	8.10	0.06	-0.02	-0.02	0.00	-0.07	0.08	0.25	8.04	0.40	0.40	1.10	0.42	0.51	-0.05	0.93	0.95	0.33	-0.06	3.61	0.37	-0.07	-0.04
	Dec	8.34	0.06	-0.21	-0.05	-0.16	-0.06	0.08	0.28	8.48	0.39	0.43	1.32	0.52	0.43	-0.06	0.80	0.93	0.34	0.11	3.88	0.38	-0.10	-0.02
2022	Jan	9.91	0.06	-0.24	-0.07	-0.19	-0.05	0.07	0.42	9.96	0.70	0.51	1.69	0.62	0.27	-0.11	0.85	0.97	0.39	0.74	3.51	0.41	0.02	-0.01
	Feb	10.18	0.06	-0.24	-0.05	-0.18	-0.08	0.06	0.45	10.20	0.67	0.57	1.77	0.75	0.09	-0.15	0.77	1.00	0.38	1.26	3.26	0.39	0.05	0.00
	Mar	10.25	0.05	-0.25	-0.01	-0.22	-0.09	0.06	0.41	10.34	0.62	0.62	2.02	0.78	-0.01	-0.18	0.71	1.03	0.36	1.47	2.75	0.46	0.18	0.00
	Apr	8.04	0.05	-0.31	0.06	-0.33	-0.10	0.06	0.27	8.28	0.03	0.58	1.86	0.70	-0.06	-0.12	0.60	0.99	0.30	0.98	2.13	0.50	0.06	0.00
	May	5.96	0.05	-0.40	0.09	-0.40	-0.14	0.06	0.26	6.26	-0.40	0.57	1.45	0.60	-0.06	-0.09	0.62	0.93	0.24	0.45	1.58	0.47	0.03	-0.01
	Jun	4.05	0.04	-0.43	0.14	-0.46	-0.15	0.05	0.26	4.35	-0.67	0.51	0.96	0.53	-0.02	-0.07	0.59	0.84	0.17	0.10	0.95	0.42	0.02	-0.02
	Jul	3.40	0.03	-0.51	0.12	-0.52	-0.13	0.02	0.31	3.72	-0.66	0.49	0.65	0.54	0.02	-0.04	0.56	0.76	0.15	0.03	0.67	0.38	0.11	-0.02
	Aug	2.66	0.02	-0.62	0.04	-0.60	-0.06	0.01	0.33	3.07	-0.60	0.44	0.42	0.53	0.04	-0.02	0.47	0.69	0.15	0.06	0.37	0.34	0.09	-0.02
	Sep	2.12	0.01	-0.70	-0.05	-0.64	-0.01	0.01	0.36	2.59	-0.58	0.41	0.25	0.51	0.00	0.01	0.44	0.64	0.15	0.15	0.19	0.28	0.03	-0.01
	Oct	1.55	0.01	-0.69	-0.09	-0.61	0.02	0.00	0.38	1.98	-0.57	0.37	0.16	0.43	-0.07	0.01	0.42	0.57	0.16	0.22	-0.10	0.23	-0.01	0.00
	Nov	0.98	0.01	-0.60	-0.05	-0.56	0.01	0.00	0.34	1.33	-0.54	0.26	0.22	0.38	-0.15	0.01	0.31	0.49	0.15	0.19	-0.32	0.19	-0.04	-0.01
	Dec	0.61	0.01	-0.54	-0.03	-0.52	0.02	-0.01	0.29	0.93	-0.39	0.14	0.34	0.33	-0.19	0.01	0.30	0.48	0.13	0.07	-0.62	0.13	-0.06	-0.01
2023	Jan	0.14	0.00	-0.60	-0.05	-0.53	0.01	0.00	0.17	0.57	-0.33	0.05	0.36	0.28	-0.16	0.00	0.25	0.47	0.10	0.00	-0.61	0.07	-0.08	-0.01

CONTRIB 2 Monthly GDP based on GVA (Gross Value Added) ¹
Contributions to growth of gross value added at basic prices ^{2,3,4,5}

seasonally adjusted 2019=100

Section	Industry sections (SIC2007)																					
	Total GVA at basic prices	Agriculture, forestry and fishing	Total production industries	Mining & quarrying	Manufacturing	Electricity gas, steam and air	Water supply, sewerage etc	Construction	Total service industries	Wholesale and retail: repair of motor vehicles and motorcycles	Transport and storage	Accommodation and food service activities	Information and Communication	Financial and insurance activities	Real estate activities	Professional, scientific and technical activities	Administrative and support service activities	Public administration and defence	Education	Human health and social work activities	Arts, entertainment and recreation	Other service activities
	A-T	A	B-E	B	C	D	E	F	G-T	G	H	I	J	K	L	M	N	O	P	Q	R	S
2019 weights	1000	7	137	11	99	15	12	64	792	105	40	29	62	82	131	74	51	48	59	76	16	17

Contribution to growth, latest month on previous month

		EDKH	EDKI	EDKJ	EDKK	EDKL	EDKM	EDKN	EDKO	EDKP	EDKQ	EDKR	EDKS	EDKT	EDKU	EDKV	EDKW	EDKX	EDKY	EDKZ	EDLA	EDLB	EDLC	EDLD
2021	Jan	-2.92	0.00	-0.21	-0.02	-0.23	0.05	0.00	-0.09	-2.67	-0.71	-0.20	-0.34	0.23	0.05	0.14	-0.26	-0.15	0.02	-1.34	0.23	-0.05	-0.36	-0.01
	Feb	0.66	0.01	0.05	-0.05	0.08	0.02	0.02	0.22	0.37	0.30	0.05	0.06	-0.12	0.00	-0.11	0.21	0.00	0.02	-0.09	0.11	-0.01	0.00	-0.01
	Mar	2.28	0.01	0.11	0.01	0.12	-0.03	0.01	0.19	2.00	0.33	0.09	-0.02	0.05	0.07	-0.01	0.35	0.23	0.01	0.70	0.46	-0.04	-0.03	-0.02
	Apr	3.12	0.00	-0.11	-0.12	0.01	0.05	-0.01	0.09	3.26	0.85	0.04	-0.59	0.29	0.00	-0.03	-0.14	-0.01	0.11	0.86	0.50	0.07	0.30	0.02
	May	1.30	0.01	0.19	0.02	0.06	0.10	0.00	-0.06	1.16	-0.05	-0.05	0.64	-0.04	-0.03	-0.01	-0.01	0.08	0.06	0.17	0.66	0.09	-0.23	0.02
	Jun	1.03	0.01	-0.21	-0.06	-0.07	-0.10	0.03	-0.05	1.36	0.03	0.13	0.32	-0.03	-0.02	0.02	0.30	0.10	0.01	0.18	0.49	0.00	-0.06	0.01
	Jul	-0.18	0.01	0.02	0.10	-0.04	-0.07	0.01	-0.04	-0.18	-0.14	0.05	0.04	0.08	-0.06	-0.08	-0.10	0.07	0.02	-0.02	-0.12	0.04	0.02	-0.02
	Aug	0.86	0.01	0.07	0.11	-0.01	-0.06	-0.01	-0.02	0.82	-0.03	0.05	0.33	0.04	0.00	0.01	0.04	0.03	0.01	-0.10	0.42	0.07	0.04	-0.02
	Sep	0.60	0.00	-0.13	-0.02	-0.05	-0.03	-0.02	0.03	0.74	-0.03	0.09	0.03	-0.15	0.08	-0.01	0.20	0.13	0.03	-0.09	0.44	0.03	0.08	0.00
	Oct	0.13	0.00	-0.13	-0.03	-0.07	-0.07	0.04	-0.02	0.31	0.04	0.00	-0.16	0.23	0.05	-0.02	-0.16	0.16	-0.03	-0.08	0.33	0.04	-0.01	0.00
	Nov	0.99	0.00	0.03	-0.02	-0.02	0.08	0.00	0.10	0.87	-0.10	0.14	-0.01	0.00	0.04	0.01	0.17	0.11	0.06	0.19	0.18	0.07	0.03	0.01
	Dec	0.13	0.00	0.00	-0.01	0.00	0.01	0.01	0.05	0.07	-0.24	0.01	-0.18	0.06	0.01	0.01	0.04	0.04	0.02	0.03	0.34	0.01	0.00	0.01
2022	Jan	0.18	0.00	-0.01	0.04	-0.08	0.03	0.01	0.08	0.11	0.13	0.01	0.17	0.23	-0.09	-0.01	-0.02	0.03	0.01	-0.04	-0.46	-0.01	0.04	0.00
	Feb	-0.09	0.00	-0.05	0.00	-0.05	0.00	0.00	-0.01	-0.02	-0.15	0.02	0.21	0.09	-0.05	-0.05	0.04	0.11	0.00	-0.03	-0.29	0.03	-0.04	-0.01
	Mar	0.05	0.00	-0.02	0.01	0.00	-0.02	0.00	0.10	-0.05	-0.20	0.07	0.02	-0.09	-0.02	0.01	0.08	0.01	0.00	-0.02	0.03	0.07	-0.01	-0.01
	Apr	0.00	0.00	-0.06	-0.02	-0.07	0.02	0.02	-0.01	0.08	0.17	-0.02	0.04	0.02	0.02	0.03	-0.02	0.06	0.00	0.07	-0.42	0.06	-0.02	0.00
	May	0.73	0.00	0.00	0.01	0.02	0.00	-0.03	0.10	0.65	-0.11	0.03	0.03	0.07	0.02	0.02	0.20	0.07	0.00	0.02	0.35	-0.03	0.01	0.00
	Jun	-0.84	0.00	-0.16	-0.02	-0.15	-0.01	0.02	-0.12	-0.54	-0.07	-0.05	0.07	-0.05	0.00	-0.01	-0.10	-0.16	0.01	0.02	-0.24	0.00	-0.01	0.01
	Jul	0.36	0.00	-0.09	0.04	-0.09	-0.01	-0.03	0.06	0.40	0.06	0.09	-0.01	0.02	-0.01	0.01	0.01	0.10	0.02	0.08	0.00	0.05	0.00	-0.01
	Aug	0.04	0.00	-0.19	-0.07	-0.11	-0.01	0.01	0.02	0.24	0.02	0.04	-0.06	0.10	-0.01	0.00	0.07	0.05	0.03	0.02	0.08	-0.04	-0.03	-0.01
	Sep	-0.68	0.00	0.00	0.01	-0.02	0.00	0.01	-0.02	-0.68	-0.21	-0.02	-0.03	-0.21	-0.04	-0.01	-0.06	-0.06	0.02	-0.04	0.04	-0.04	0.01	0.00
	Oct	0.55	0.00	0.02	0.00	0.08	-0.04	-0.02	0.04	0.50	0.20	0.00	0.01	0.01	-0.02	0.02	0.02	0.12	0.00	-0.01	0.09	0.09	0.00	0.00
	Nov	0.15	0.00	0.01	0.03	-0.05	0.01	0.02	-0.03	0.17	-0.01	-0.07	0.05	0.14	-0.01	-0.02	-0.05	0.13	0.00	-0.02	0.05	-0.03	0.00	0.00
	Dec	-0.55	0.00	0.04	-0.04	0.00	0.08	0.01	0.00	-0.61	-0.04	-0.11	-0.03	-0.01	0.02	0.00	0.06	0.02	0.00	-0.17	-0.25	-0.12	-0.03	0.00
2023	Jan	0.28	0.00	-0.04	-0.02	-0.03	0.01	0.01	-0.10	0.43	0.03	0.06	0.01	0.02	0.02	-0.02	0.02	0.02	0.00	0.15	0.06	0.05	0.02	0.00

Contribution to growth, latest month on same month a year ago

		EDLE	EDLF	EDLG	EDLH	EDLI	EDLJ	EDLK	EDLL	EDLM	EDLN	EDLO	EDLP	EDLQ	EDLR	EDLS	EDLT	EDLU	EDLV	EDLW	EDLX	EDLY	EDLZ	EDMA
2021	Jan	-11.06	-0.05	0.55	-0.03	0.39	0.13	0.08	-0.45	-11.52	-2.17	-0.91	-1.78	0.08	0.36	0.15	-0.43	-0.89	-0.19	-1.76	-4.40	-0.43	-0.41	-0.06
	Feb	-9.99	-0.04	0.50	-0.09	0.40	0.14	0.08	-0.22	-10.63	-1.52	-0.69	-1.77	-0.13	0.30	-0.04	-0.12	-0.90	-0.15	-1.59	-4.31	-0.43	-0.43	-0.06
	Mar	-0.97	0.00	1.31	-0.03	1.18	0.11	0.08	0.25	-2.85	-0.12	-0.06	-0.90	-0.14	0.36	-0.12	0.19	-0.06	-0.13	0.92	-2.88	-0.18	-0.34	-0.03
	Apr	29.13	0.09	4.38	-0.22	4.24	0.34	0.20	3.54	20.81	4.50	1.81	1.96	0.92	0.91	0.01	1.55	1.61	-0.04	3.99	3.75	0.46	0.55	0.06
	May	26.81	0.08	3.55	-0.21	3.30	0.42	0.19	2.91	20.12	3.24	1.47	2.64	0.90	0.65	0.03	1.54	1.59	0.08	3.92	4.37	0.69	0.19	0.09
	Jun	17.60	0.07	1.58	-0.29	1.70	0.18	0.12	1.71	14.31	0.86	0.93	2.32	0.55	0.47	0.07	1.30	0.93	0.13	3.21	4.00	0.48	0.08	0.09
	Jul	9.25	0.07	0.78	-0.16	0.88	0.03	0.11	0.69	7.78	0.11	0.46	0.96	0.41	0.38	-0.02	1.02	0.68	0.22	1.54	3.01	0.28	-0.48	0.01
	Aug	7.99	0.07	0.58	0.02	0.56	-0.05	0.07	0.48	6.95	0.13	0.34	0.41	0.53	0.45	-0.01	1.04	0.76	0.27	0.44	3.25	0.34	-0.19	-0.04
	Sep	7.45	0.06	0.23	0.01	0.24	-0.09	0.07	0.31	7.01	0.25	0.36	0.68	0.38	0.45	-0.03	1.03	0.89	0.32	-0.08	3.36	0.34	-0.13	-0.05
	Oct	6.90	0.06	-0.05	-0.04	0.02	-0.11	0.09	0.18	6.92	0.25	0.38	0.81	0.37	0.55	-0.07	0.78	0.93	0.29	-0.25	3.58	0.30	-0.16	-0.04
	Nov	9.98	0.06	-0.24	-0.03	-0.26	-0.02	0.09	0.26	10.23	0.72	0.47	1.83	0.53	0.53	-0.04	0.99	1.05	0.37	0.17	3.88	0.49	0.08	-0.02
	Dec	8.18	0.05	-0.33	-0.09	-0.23	-0.05	0.06	0.41	8.33	0.22	0.43	1.32	0.66	0.21	-0.08	0.65	0.82	0.36	0.41	4.18	0.34	-0.21	0.00
2022	Jan	11.63	0.06	-0.14	-0.05	-0.09	-0.08	0.07	0.60	11.41	1.14	0.65	1.92	0.69	0.06	-0.23	0.92	1.04	0.39	1.68	3.19	0.40	0.20	0.00
	Feb	10.80	0.05	-0.24	0.02	-0.22	-0.10	0.05	0.36	10.94	0.66	0.62	2.08	0.91	0.00	-0.17	0.75	1.14	0.36	1.72	2.76	0.44	0.16	0.00
	Mar	8.37	0.05	-0.36	0.01	-0.34	-0.09	0.05	0.28	8.69	0.08	0.59	2.06	0.74	-0.10	-0.14	0.48	0.90	0.34	1.01	2.31	0.54	0.17	0.01
	Apr	5.09	0.05	-0.31	0.14	-0.41	-0.12	0.08	0.18	5.37	-0.61	0.52	1.47	0.47	-0.07	-0.07	0.58	0.95	0.22	0.25	1.36	0.51	-0.15	-0.01
	May	4.51	0.04	-0.51	0.11	-0.45	-0.22	0.04	0.34	4.82	-0.66	0.60	0.84	0.58	-0.02	-0.05	0.79	0.93	0.16	0.10	1.11	0.37	0.09	-0.02
	Jun	2.57	0.03	-0.45	0.17	-0.53	-0.13	0.03	0.25	2.88	-0.75	0.41	0.58	0.55	0.01	-0.08	0.39	0.66	0.15	-0.05	0.40	0.37	0.13	-0.03
	Jul	3.12	0.02	-0.57	0.08	-0.58	-0.06	-0.01	0.35	3.47	-0.55	0.46	0.54	0.49	0.05	0.02	0.50	0.69	0.14	0.05	0.51	0.38	0.11	-0.02
	Aug	2.29	0.01	-0.83	-0.14	-0.68	0.00	0.00	0.39	2.88	-0.50	0.45	0.14	0.55	0.04	0.00	0.53	0.71	0.16	0.17	0.21	0.27	0.03	0.00
	Sep	0.98	0.01	-0.70	-0.09	-0.65	0.02	0.03	0.34	1.44	-0.68	0.33	0.09	0.48	-0.09	0.00	0.27	0.51	0.15	0.21	-0.15	0.19	-0.04	0.00
	Oct	1.40	0.01	-0.54	-0.06	-0.50	0.05	-0.03	0.40	1.63	-0.53	0.33	0.26	0.27	-0.16	0.04	0.45	0.47	0.18	0.28	-0.35	0.24	-0.03	0.00
	Nov	0.56	0.01	-0.56	-0.01	-0.52	-0.02	0.00	0.27	0.93	-0.43	0.11	0.31	0.40	-0.21	0.01	0.22	0.49	0.12	0.07	-0.46	0.14	-0.06	-0.01
	Dec	-0.12	0.00	-0.52	-0.03	-0.53	0.04	0.00	0.22	0.24	-0.21	-0.01	0.46	0.33	-0.20	-0.01	0.24	0.48	0.09	-0.13	-1.02	0.01	-0.09	-0.02
2023	Jan	-0.02	0.00	-0.60	-0.11	-0.50	0.02	0.00	0.04	0.57	-0.32	0.04	0.30	0.12	-0.08	-0.01	0.28	0.46	0.08	0.06	-0.46	0.06	-0.10	-0.01