

Statistical bulletin

# GDP monthly estimate, UK: May 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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### 1. Main points

- Monthly real gross domestic product (GDP) is estimated to have fallen by 0.1% in May 2023 after growth of 0.2% in April 2023, which is unrevised from the previous publication.
- Looking at the broader picture, GDP has shown no growth in the three months to May 2023.
- Production output fell by 0.6% in May 2023 after a fall of 0.2% in April 2023, revised up from a fall of 0.3% in the previous publication; this sector was the main contributor to the fall in monthly GDP in May.
- The construction sector fell by 0.2% in May 2023 following a fall of 0.9% in April 2023, revised down from a fall of 0.6% in the previous publication.
- Services output showed no growth in May 2023 following growth of 0.3% in April 2023, unrevised from the previous publication.
- Output in consumer-facing services fell by 0.2% in May 2023 following growth of 1.1% in April 2023, revised up from growth of 1.0% in the previous publication.
- Revisions for the period January to April 2023 are included in this publication.

### 2. Monthly gross domestic product (GDP)

Monthly real gross domestic product (GDP) is estimated to have fallen by 0.1% in May 2023 (Figure 1) following growth of 0.2% in April 2023. Monthly GDP is now estimated to be 0.2% above its pre-coronavirus (COVID-19) levels (February 2020). The King's Coronation on 6 May 2023 led to an additional bank holiday on Monday 8 May. More information on this bank holiday is in <u>Section 6: Cross-industry themes</u> and <u>Section 10: Measuring the data</u>.

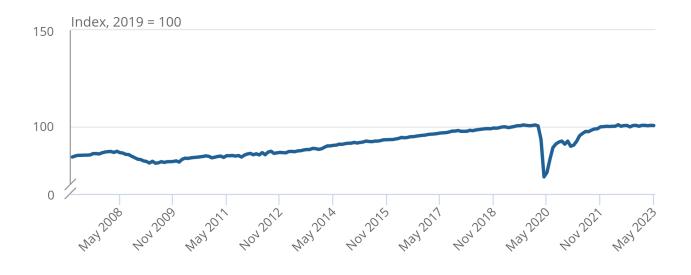
Looking more broadly, GDP showed no growth in the three months to May 2023 when compared with the three months to February 2023. Services also showed no growth in the three months to May, while production grew by 0.4% and construction grew by 0.2%.

#### Figure 1: UK GDP is estimated to have fallen by 0.1% in May 2023

#### Monthly index, January 2007 to May 2023, UK

# Figure 1: UK GDP is estimated to have fallen by 0.1% in May 2023

Monthly index, January 2007 to May 2023, UK



#### Source: GDP monthly estimate from the Office for National Statistics

Output by the services sector showed no growth in May 2023. Production output fell by 0.6% and construction output fell by 0.2%.

#### Figure 2: The production sector was the main contributor to the fall in GDP in May 2023

#### Contributions to monthly GDP growth, May 2022 to May 2023, UK

# Figure 2: The production sector was the main contributor to the fall in GDP in May 2023

Contributions to monthly GDP growth, May 2022 to May 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.

Monthly GDP fell by 0.4% in May 2023 compared with the same month last year. For comparison, monthly GDP grew by 0.5% between April 2022 and April 2023. The Platinum Jubilee, and the move of the May bank holiday, led to an additional working day in May 2022 and two fewer working days in June 2022. This should be considered when interpreting the seasonally-adjusted movements involving May and June 2022.

#### More about economy, business and jobs

- All Office for National Statistics (ONS) analysis, summarised in our <u>economy, business and jobs</u> roundup.
- Explore the latest trends in employment, prices and trade in our economic dashboard.
- View <u>all economic data</u>.

### 3. The services sector

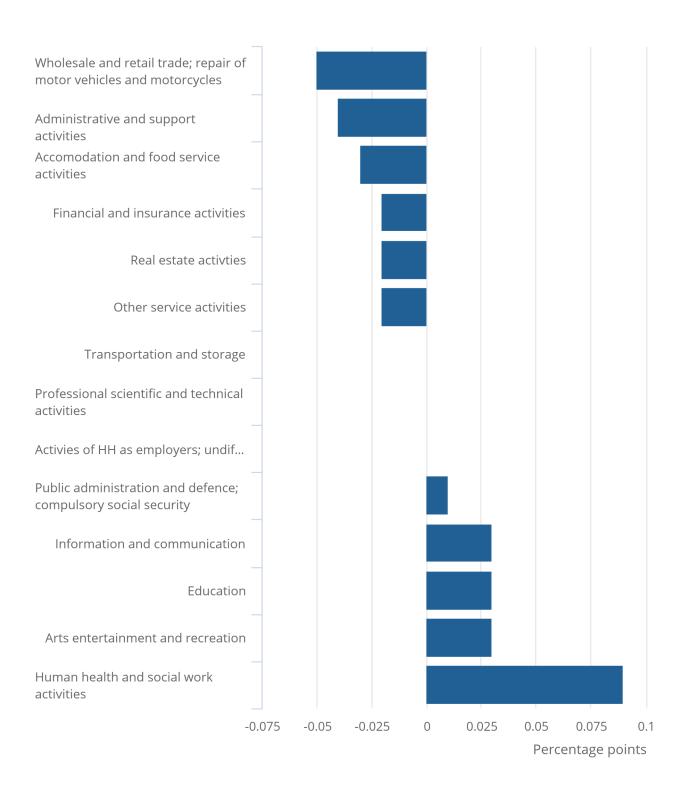
Service output showed no growth in May 2023, following growth of 0.3% in April 2023. Overall, the services sector showed no growth in the three months to May 2023 compared with the three months to February 2023. Figure 3 shows the monthly contributions from the services sector to gross domestic product (GDP) in May 2023.

### Figure 3: Services growth showed no growth in May 2023

Monthly services contributions to GDP, May 2023

### Figure 3: Services growth showed no growth in May 2023

Monthly services contributions to GDP, May 2023



#### Notes:

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

Although there was no overall change in total services output in May 2023, within the sector the largest increase was a 1.1% increase in human health and social work activities. This was largely caused by an increase of 1.8% in human health activities after falls in March and April 2023. There was no industrial action by junior doctors in May 2023, compared with four days of industrial action in April 2023. There were two days of industrial action by nurses in England in May, compared with none in April.

There was also increased output from arts, entertainment and recreation (up 1.8%), education (up 0.5%) and information and communication (up 0.4%). The growth in arts, entertainment and recreation output was caused by growth of 3.5% in creative arts and entertainment activities (after a fall of 4.1% in April) and continued growth in sports activities and amusement and recreation activities (up 1.7%).

These increases were offset by a fall in wholesale and retail trade and repair of motor vehicles and motorcycles, which fell by 0.5%, largely caused by a fall of 1.4% in wholesale trade, excluding motor vehicles and motorcycles. Administration and support services fell by 0.7%, largely caused by a fall of 3.5% in employment activities. There was anecdotal evidence from the monthly business survey that there was less demand for recruitment services in May 2023, which is supported by our <u>Vacancies and jobs in the UK: July 2023 bulletin</u>, which shows the 12th consecutive fall in vacancies. Accommodation and food services fell by 0.9% in May 2023, with falls in both accommodation (down 0.4%) and food and beverage services (down 1.1%).

NHS Test and Trace and coronavirus (COVID-19) vaccination programme activity increased by 20% in May 2023 after a rise of 99% in April 2023 but remains significantly lower than its peak towards the end of 2021. 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 <u>accompanying dataset</u>. For information on our measurements of COVID-19 testing, see our <u>Measuring the economic output of COVID-19 testing</u>, tracing and vaccinations methodology.

### **Consumer-facing services**

Output in consumer-facing services fell by 0.2% in May 2023 after growth of 1.1% in April 2023, revised up from 1.0% in the previous publication. Looking at the broader picture, consumer-facing services grew by 0.2% in the three months to May 2023. Consumer facing services were 8.8% below their pre-coronavirus levels (February 2020) in May 2023, while all other services were 2.0% above, as shown in Figure 4.

The largest contribution to the fall in consumer-facing services in May 2023 came from food and beverage service activities, which fell by 1.1% in May after growth of 2.4% in April.

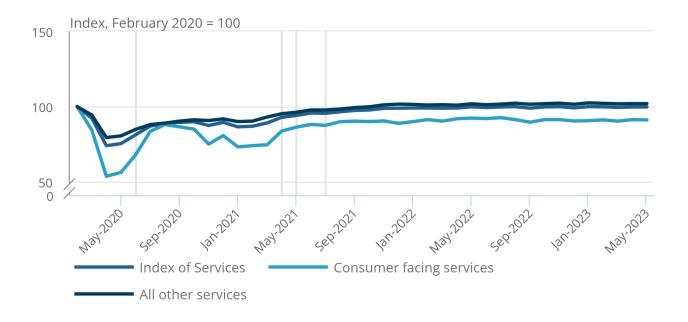
The next largest contribution came from buying and selling, renting and operating of own or leased real estate, which fell 0.7% after a similar fall in April 2023.

#### Figure 4: Output in consumer-facing services fell by 0.2% in May 2023 and remains 8.8% below precoronavirus pandemic levels

#### Monthly index of services, February 2020 to May 2023, UK

### Figure 4: Output in consumer-facing services fell by 0.2% in May 2023 and remains 8.8% below pre-coronavirus pandemic levels

Monthly index of services, February 2020 to May 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, 49.1-2, 55, 56, 68.1-2, 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.

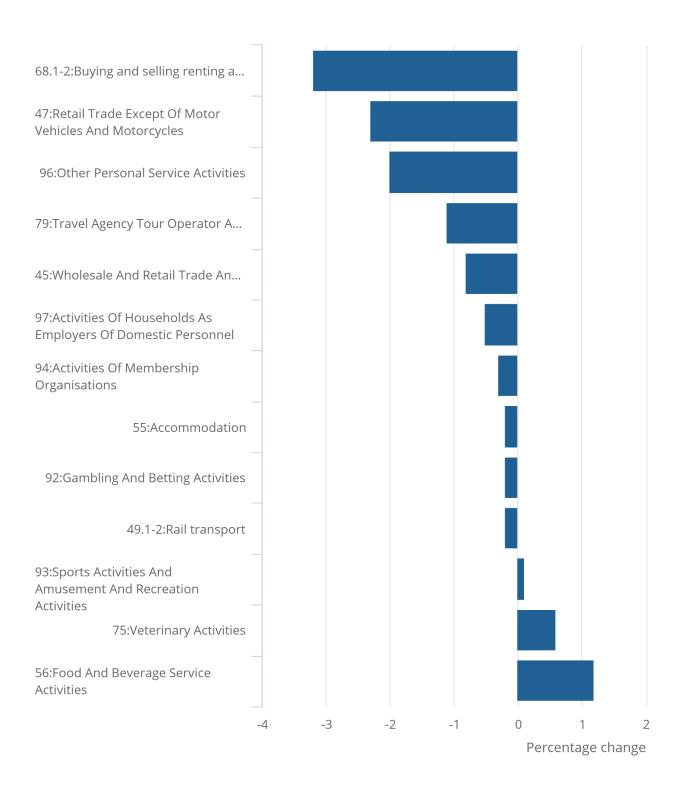
Consumer-facing services were 8.8% below their pre-coronavirus levels (February 2020) in May 2023, with 10 of 13 industries lower than February 2020 (Figure 5). Within consumer-facing services, the largest contributors to this decline between February 2020 and May 2023 were buying and selling, renting and operating of own or leased real estate, excluding imputed rent and retail trade, excluding motor vehicles and motorcycles which have seen output decrease by 14.4% and 8.7%, respectively. The largest positive contributor within consumer-facing services was food and beverage service activities, which has grown by 8.7% between February 2020 and May 2023.

Figure 5: 10 of 13 consumer-facing service industries remain below their pre-coronavirus levels (February 2020) in May 2023

Service industries contributions to consumer-facing services growth, February 2020 to May 2023, UK

# Figure 5: 10 of 13 consumer-facing service industries remain below their pre-coronavirus levels (February 2020) in May 2023

Service industries contributions to consumer-facing services growth, February 2020 to May 2023, UK



Source: GDP monthly estimate from the Office for National Statistics

More detailed breakdowns on services are available in our Index of Services, UK: May 2023 bulletin.

### 4. The production sector

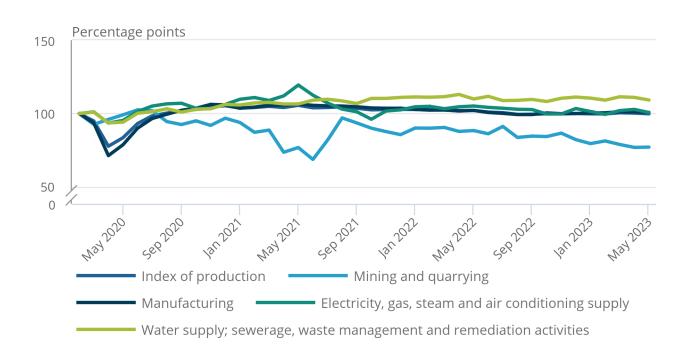
Production output fell by 0.6% in May 2023, following a fall of 0.2% in April 2023, revised up from a fall of 0.3% in the previous publication. Electricity, gas, steam and air conditioning supply fell by 2.0% and was the largest contributor to the fall in production output in May 2023 Overall, production output grew 0.4% in the three months to May 2023, compared with the three months to February 2023, with growth of 0.8% in manufacturing being the largest positive contributor to growth in production output in that period.

#### Figure 6: Production output fell by 0.6% in May 2023

Monthly Manufacturing Subsectors contributions to Manufacturing output, May 2023, UK

### Figure 6: Production output fell by 0.6% in May 2023

Monthly Manufacturing Subsectors contributions to Manufacturing output, May 2023, UK



#### Source: GDP monthly estimate from the Office for National Statistics

#### Notes:

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

Mining and quarrying was the only production sub-sector to see increased output in May 2023. It increased by 0.3%, attributed to growth of 0.6% in the extraction of crude petroleum and natural gas.

Electricity, gas, steam and air conditioning supply was the largest negative contributor, falling 2.0% after growth of 0.7% in April (revised up from 0.6% in our previous publication) and growth of 2.6% in March (revised up from 1.1% in our previous publication).

Water supply and sewerage fell by 1.7% in May 2023, with falls of 2.6% in sewerage, 1.6% in waste collection, treatment, and disposal activities and 0.5% in water collection, treatment, and supply.

Manufacturing fell by 0.2% in May 2023 after a fall of 0.1% in April 2023, revised up from a fall of 0.3% in the previous publication.

Figure 7 shows that the manufacturing sector saw falls in 8 of its 13 subsectors. Manufacture of wood and paper products, and printing and other manufacturing and repair, were the largest negative contributors falling by 3.0% and 1.7% respectively.

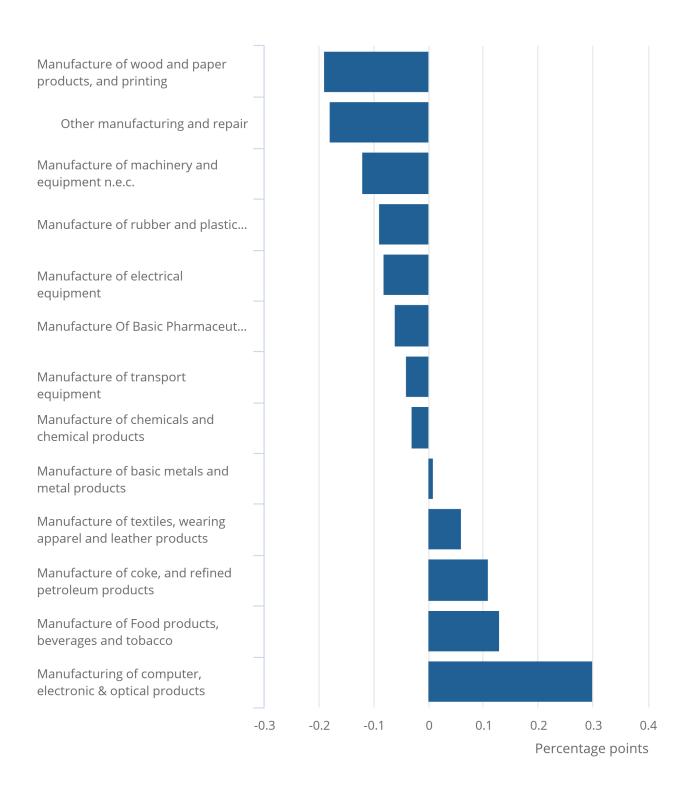
Growth was seen in 5 of the 13 subsectors, with manufacturing of computer, electronic and optical products being the largest positive contributor, growing by 4.8% in May 2023 after a fall of 4.4% in April.

### Figure 7: Manufacturing fell by 0.2% in May 2023

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

### Figure 7: Manufacturing fell by 0.2% in May 2023

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



Source: GDP monthly estimate from the Office for National Statistics

More detailed breakdowns on production are available in our Index of Production, UK: May 2023 bulletin.

### 5. The construction sector

We estimate monthly construction output to have decreased 0.2% in volume terms in May 2023; this is the third consecutive fall in the month-on-month series.

The decrease in monthly output came from a decrease in new work (0.4% fall), with repair and maintenance showing no growth (0.0%) on the month. Four out of the nine sectors saw a decrease on the month.

At the sector level, the main contributors to the monthly decrease were seen in non-housing repair and maintenance and private housing new work, which decreased 2.5% and 1.7%, respectively.

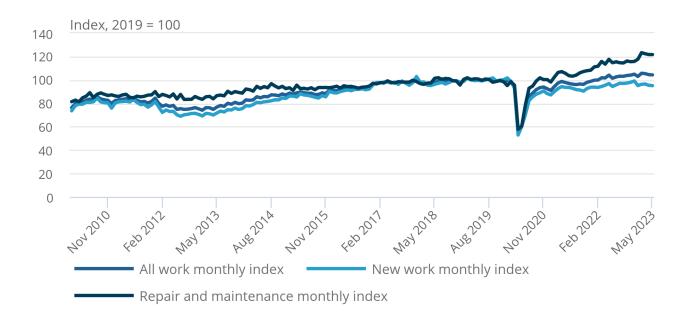
Anecdotal evidence received from our <u>Monthly Business Survey for Construction and allied trades (MBS)</u> continued to indicate a slow-down in private housing, referring to customers' economic worries. Despite this, some businesses across other sectors continued to report an easing in inflation.

## Figure 8: The monthly all work construction output index in May 2023 saw a decrease of 0.2% on the month

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

### Figure 8: The monthly all work construction output index in May 2023 saw a decrease of 0.2% on the month

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



#### Source: Construction: output and employment from the Office for National Statistics

Further detail on construction output growth rates, along with new orders in the construction industry and construction output prices, can be found in our <u>Construction output in Great Britain: May 2023 bulletin</u>.

### 6. Cross-industry themes

There were some common themes that were anecdotally reported (as part of the Monthly Business Survey for Production and Services) to have played a part in performance across different industries. However, it is difficult to quantify the exact impact.

A range of manufacturing industries and businesses within construction cited the additional bank holiday for the Coronation of King Charles III on Monday 8 May as a reason for reduced output. On the positive side, we had comments suggesting industries in the arts, entertainment and recreation sector benefitted from the extra bank holiday. There were also comments on both increased and reduced output received in the accommodation and food services sector.

There was also anecdotal evidence, reported on monthly business survey returns, to suggest that industrial action in May 2023 had an impact on different industries of varying degrees. The health sector (nurses), rail network, education sector and the civil service all saw industrial action take place in May 2023 and this should be considered when interpreting monthly movements in these industries. We also had some anecdotal evidence to suggest that the rail network industrial action had an adverse impact in terms of footfall for food and beverage service activities.

### 7. Revisions to monthly gross domestic product (GDP)

This release gives data for May 2023 for the first time, and April 2023 is also open for revision. Revisions to monthly data from January 2023 to March 2023 published in our <u>GDP quarterly national accounts</u>, UK: January to <u>March 2023 bulletin</u> on 30 June 2023 are also included.

Table 1: Revisions to month-on-month growth for GDP and its sectors Percentage points, January 2023 to April 2023, UK

#### Jan-2023 Feb-2023 Mar-2023 Apr-2023

GDP	-0.1	0.1	0.1	0.0
Services	0.0	0.0	0.1	0.0
Production	0.1	0.0	0.1	0.1
Construction	-0.2	0.0	-0.4	-0.3

Source: Monthly GDP estimate from Office for National Statistics

#### Notes

- 1. Revisions are rounded to one decimal place and calculated based on the one decimal place indexes.
- 2. Further information on current and past revisions can be found in our Revision triangles dataset.

The next monthly GDP release on 11 August 2023 will have April and May 2023 open for revision in line with our <u>National Accounts Revision Policy</u>.

### 8 . Monthly gross domestic product (GDP) data

within the monthly gross domestic product (GDP) statistical bulletin. Contributions to monthly GDP Dataset | Released 13 July 2023 Contributions to growth within monthly gross domestic product (GDP), UK. Monthly gross domestic product: time series Dataset | Released 13 July 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 13 July 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 13 July 2023 Comparison of gross domestic product (GDP) first estimates against estimates published later.

The gross value added (GVA) tables showing the monthly and annual growths and indices as published

Health volume adjustments and contribution to GDP growth

Monthly gross domestic product by gross value added

Dataset | Released 13 July 2023

Dataset | Released 13 July 2023

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

### 9. Glossary

### 10 . 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: May 2023.
- Index of Production, UK: May 2023.
- Index of Services, UK: May 2023.

In the UK, we produce estimates of monthly and quarterly gross domestic product (GDP). However, there are reasons as to why these would not provide the same estimate as to where the economy is relative to its precoronavirus (COVID-19) pandemic levels. This primarily reflects that monthly estimates of GDP are based only on the output measure of GDP, while quarterly estimates of GDP reflect the average of the three approaches (output, income, and expenditure).

The coronavirus pandemic has brought many measurement challenges that have created more uncertainty around our three approaches (see our <u>Coronavirus and the effects on UK GDP article</u>). 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 <u>Measuring monthly and quarterly UK gross</u> 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.

Our GDP data sources catalogue provides a full breakdown of the data used in this publication.

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

An additional bank holiday was announced 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.

### 11 . Strengths and limitations

Quality and methodology information on strengths, limitations, appropriate uses, and how the data were created is available in our <u>Gross domestic product (GDP) Quality and Methodology Information (QMI)</u>.

Monthly growth rates can be volatile. Therefore, this indicator should 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 (see our <u>Beware Base Effects blog post</u>) 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 <u>accompanying dataset</u>.

### 12. Related links

#### Construction output in Great Britain: May 2023

Bulletin | Released 13 July 2023

Short-term measures of output by the construction industry, contracts awarded for new construction work in Great Britain and a summary of the Construction Output Price Indices (OPIs) in the UK for Quarter 2 (Apr to June) 2022.

#### Index of Production, UK: May 2023

Bulletin | Released 13 July 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: May 2023

Bulletin | Released 13 July 2023 Monthly movements in output for the services industries.

GDP quarterly national accounts, UK: January to March 2023

Bulletin | Released 30 June 2023 Revised quarterly estimate of gross domestic product (GDP) for the UK. Uses additional data to provide a more precise indication of economic growth than the first estimate.

#### 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.

### 13 . Cite this statistical bulletin

Office for National Statistics (ONS), released 13 July 2023, ONS website, statistical bulletin <u>GDP monthly</u> <u>estimate, UK: May 2023</u>

## **GVA1** Monthly GDP based on GVA (Gross Value Added) <sup>1</sup> Chained volume indices of gross value added at basic prices <sup>2,3,4,5</sup>

GVA1	Chained volume i	indices of gross	value added at	basic price	es <sup>2,0,4,0</sup>							s Industry sectio	easonally adjuste	d 2019=100									
										Wholesale		industry sectio	ris (SIC2007)										Activities of
	Total GVA at	Agriculture,	Total			Electricity	Water supply,		Total	and retail: repair of		Accommodation and food	Information	Financial		Professional, scientific	Administrative and support ad	Public		Human health	Arts,	Other	household as employers
	basic	forestry and	production	Mining &		gas, steam	sewerage		service	motor vehicles	Transport	service	and	and insurance	Real estate	and technical	service	and		and social	entertainment	service	undifferentiate
Continu	prices	fishing	industries		Manufacturing	and air		Construction 6 F	industries	and motorcycles	and storage	activities	Communication	activities	activities	activities	activities	defence	Education	work activities	and recreation	activities	goods and services
Section 2019 weights	A-T 1000	A 7	B-E 135	B 11	C 97	D 15	E 12	F 62	G-T 796	G 104	H 40	30	J 63	K 82	132	M 73	N 51	O 49	P 60	Q 77	R 15	S 17	
C C	YBFR	L2KL	L2KQ	L2KR	L2KX	L2MW	L2N2	L2N8	L2NC	L2NE	L2NI	L2NQ	L2NT	L206	L2OC	L201	L2OX	L2P8	L2PA	L2PC	L2PJ	L2PP	L2P1
2018	98.3	85.6	97.7	97.9	98.9	87.7	100.3	99.0	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 2020	100.0 89.4	100.0 96.5	100.0 101.3	100.0 96.8	100.0 100.1	100.0 109.1	100.0 104.8	100.0 86.0	100.0 87.6	100.0 81.6	100.0 70.3	100.0 59.9	100.0 98.6	100.0 100.3	100.0 100.0	100.0 92.5	100.0 89.0	100.0 95.2	100.0 82.5	100.0 69.1	100.0 71.9	100.0 86.3	100.0 78.0
2021	96.1	102.1	108.6	85.5	109.8	114.6	112.9	98.0	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	105.6	87.2	105.7	110.5	115.2	104.0	98.9	82.4	87.3	106.2	114.1	105.1	99.6	107.8	112.6	101.2	98.6	89.7	103.5	81.1	65.6
	ECY2	ECY3	ECY4	ECY5	ECY6	ECY7	ECY8	ECY9	ECYC	ECYD	ECYG	ECYH	ECYI	ECYJ	ECYK	ECYL	ECYP	ECYQ	ECYR	ECYS	ECYT	ECYU	ECYV
2021 May Jun	96.3 97.3	100.6 102.3	110.4 108.6	76.8 68.8	111.4 110.7	127.8 120.4	111.1 113.7	99.1 98.4	93.7 95.3	87.7 87.9	73.9 77.0	80.6 91.0	104.4 103.9	105.4 105.1	100.0 100.2	99.5 103.4	96.2 98.1	97.7 97.9	96.8 99.4	79.7 84.0	81.2 81.5	76.9 73.5	82.1 89.5
Jul	97.2	102.5	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 98.6	104.9 104.7	109.4 108.3	97.1 93.7	110.1 109.6	110.3 108.3	113.2 111.3	97.3 97.8	96.1 96.9	86.5 86.3	79.3 81.5	103.3 104.2	105.9 103.5	104.4 105.5	99.6 99.5	102.5	100.0 102.6	98.6	97.7 96.4	86.7 90.6	88.3	77.3 82.0	67.4 68.6
Sep Oct	98.0 98.7	104.7	108.3	93.7	109.6	108.3	111.3	97.8 97.5	96.9 97.3	86.7	81.6	98.8	103.5	105.5	99.5 99.4	105.2 103.1	102.6	99.1 98.5	96.4 95.2	90.6	90.0 92.5	82.0	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 2022 Jan	99.8 100.0	104.6 104.7	107.5 107.5	85.6 90.2	108.5 107.7	109.7 112.0	115.7 116.0	100.2 101.2	98.4 98.6	83.7 84.7	85.2 85.4	92.2 97.7	108.2 112.6	106.7 105.5	99.6 99.6	106.0 105.5	108.7 109.0	100.1 100.4	98.4 97.8	98.2 93.7	97.6 97.4	83.0 85.3	77.2 74.8
Feb	99.9	105.4	107.2	90.1	107.2	112.3	115.8	101.2	98.5	83.5	85.8	104.9	114.2	104.9	99.2	106.2	110.9	100.4	97.3	90.8	99.0	83.0	68.9
Mar Apr	100.0 100.0	105.8 105.8	107.1 106.6	90.5 87.9	107.3 106.5	110.5 111.9	116.3 117.8	103.2 103.1	98.5 98.5	81.8 83.2	87.2 86.8	105.5 107.0	112.6 113.2	104.8 105.0	99.3 99.6	107.1 106.6	111.2 112.3	100.4 100.3	97.1 98.2	91.2 87.0	103.7 106.3	82.4 81.1	64.6 66.8
May	100.0	105.8	106.7	88.5	106.5	111.9	117.6	105.5	98.5 99.4	82.3	87.6	107.0	113.2	105.0	99.8 99.8	109.4	112.3	100.5	98.2 98.4	90.5	106.3	81.7	68.0
Jun	100.0	106.1	105.6	86.2	105.5	111.5	116.4	102.8	98.8	81.7	86.3	110.2	114.0	105.7	99.7	108.2	110.9	100.9	98.7	88.3	104.8	81.2	70.8
Jul Aug	100.4 100.4	106.2 106.0	105.2 103.9	91.3 83.8	104.9 104.0	110.9 110.2	113.4 113.7	104.0 104.6	99.3 99.4	82.1 82.3	88.8 90.0	109.0 106.2	114.1 115.4	105.9 105.5	99.7 99.7	108.3 108.9	112.3 113.2	101.3 101.8	100.0 100.3	88.4 89.1	107.7 103.8	80.9 79.0	66.8 63.4
Sep	99.7	105.4	104.0	84.6	104.0	110.0	114.2	104.5	98.5	80.6	89.5	105.3	112.2	104.5	99.6	107.5	111.6	102.0	99.6	89.6	102.1	79.6	61.6
Oct Nov	100.4 100.5	105.5 105.3	104.4 104.4	84.4 86.7	105.2 104.6	106.7 106.7	112.8 115.1	105.2 105.5	99.2 99.5	82.3 82.2	89.0 87.2	105.9 107.4	112.9 116.5	104.4 104.3	99.9 99.5	108.6 108.1	113.9 116.1	102.0 102.0	99.5 99.2	90.2 90.4	108.0 105.6	79.6 79.8	61.3 61.3
Dec	100.0	105.3	104.4	82.3	104.0	110.7	115.9	105.3	98.7	81.8	84.3	106.8	116.5	104.5	99.4	109.0	116.1	102.0	96.6	87.5	99.3	79.3	59.4
2023 Jan	100.5	105.3	104.4	79.5	105.2	108.6	115.2	104.4	99.5	82.6	86.6	106.5	117.4	104.9	99.5	108.7	117.2	102.0	98.8	88.5	103.9	80.4	60.4
Feb Mar	100.5 100.3	105.4 105.4	104.3 105.1	81.3 78.9	105.3 106.1	106.4 109.2	113.8 116.1	107.1 106.9	99.4 98.9	82.4 81.1	86.2 84.8	106.9 106.4	117.1 116.0	105.1 104.9	99.5 99.6	108.4 108.4	117.7 116.6	100.9 101.0	97.2 97.4	89.0 88.5	105.7 107.1	82.0 81.0	61.0 62.2
Apr May	100.5 100.4	105.5 105.6	104.9 104.3	77.0 77.2	105.9 105.6	110.0 107.8	115.7 113.8	105.9 105.7	99.2 99.2	82.2 81.8	84.8 84.9	108.6 107.5	117.6 118.0	104.8 104.6	99.4 99.2	108.0 108.0	117.5 116.8	101.1 101.2	97.9 98.5	87.8 88.8	107.1 109.1	81.6 80.5	59.4 57.9
Percentage change,			1 200								1.250								L3FY			L3GF	
2018	<b>GDPQ</b> 1.6	<b>L3BB</b> -12.5	L3BG 3.3	<b>L3BH</b> 6.3	<b>L3BN</b> 4.3	-3.2	<b>L3DQ</b>	-1.7	L3E2	<b>L3E4</b> -0.7	<b>L3E8</b> 3.2	L3EG	L3EJ 13.2	-0.9	L3F2	L3F8 0.0	<b>L3FN</b> 0.1	L3FW 0.9	4.6	<b>L3G2</b> -0.9	L3G9	5.0	L3GJ 8.5
2019	1.0	16.9	2.3	2.2	4.5	-3.2	0.0	1.5	1.5	-0.4	1.9	3.5	9.2	-0.9	1.4	-1.0	0.5	5.3	6.4	-1.6	1.8	-2.0	6.3
2020	-10.6	-3.5	1.2	-3.2	0.1	9.1	5.0	-13.5	-12.4	-18.4	-29.7	-40.1	-1.4	0.3	0.0	-8.0	-11.0	-4.9	-17.5	-30.9	-28.2	-14.0	-22.1
2021 2022	7.4 4.3	5.8 3.5	7.3 -2.8	-11.7 2.1	9.7 -3.7	5.1 -3.6	8.0 2.0	13.1 6.2	7.0 5.5	3.7 -2.6	10.8 12.2	30.9 35.3	5.9 9.3	5.2 -0.4	-0.1 -0.4	10.0 6.0	11.4 13.6	2.4 3.8	11.9 6.8	19.0 9.2	16.5 23.7	-9.0 3.0	-5.2 -11.1
Percentage change, la	latest 3 months on	n previous 3 mor	nths																				
	ED3H	ED3I	ED3J	ED3K	ED3L	ED3M	ED3N	ED3O	ED3P	ED3Q	ED3R	ED3S	ED3T	ED3U	ED3V	ED3W	ED3X	ED3Y	ED3Z	ED42	ED43	ED44	ED9R
2021 May	4.3	2.2	0.5	-14.0	1.2	4.2	0.5	5.8	5.0	8.6	1.9	38.3	3.4	0.9	-0.5	3.9	4.1	2.6	13.5	15.0	2.0	-1.6	-4.9
Jun Jul	6.2 4.8	2.3 3.2	0.3 0.2	-18.8 -8.9	1.3 0.4	4.4 2.2	0.5 1.2	3.8 0.3	7.7 6.2	11.8 5.9	3.8 3.3	90.9 86.8	3.6 2.6	0.2 -0.4	-0.5 -0.3	3.3 2.3	4.7 4.9	3.4 3.1	25.5 17.6	18.3 17.6	9.6 12.5	7.8 -5.3	17.9 22.5
Aug	3.1	3.9	-0.6	3.6	-0.6	-5.2	2.1	-1.5	4.3	1.7	5.0	58.7	1.6	-0.9	-0.4	2.5	4.2	2.2	8.0	13.5	11.6	-6.0	9.0
Sep Oct	1.7 1.5	3.7 2.6	-0.4 -0.9	24.4 23.4	-0.9 -1.2	-9.5 -11.4	0.9 0.1	-1.6 -0.9	2.4 2.2	-1.6 -1.1	5.7 5.9	29.8 16.1	0.4 1.0	-0.6 0.3	-0.5 -0.4	2.4 2.0	4.5 5.0	1.4 0.8	0.8 -2.0	9.5 9.7	10.1 9.9	-2.5 6.8	-12.6 -16.9
Nov	1.5	1.0	-1.2	9.6	-1.2	-7.3	0.0	0.4	2.2	-1.0	5.8	5.2	0.9	1.3	-0.4	1.9	6.3	0.8	-2.2	10.0	10.3	9.2	-8.6
Dec	1.5	0.2	-1.4	-3.4	-1.3	-3.5	2.0	1.4	2.1	-1.3	5.4	-3.5	2.5	1.6	-0.1	1.5	6.7	0.7	-0.5	10.2	9.6	5.7	4.3
2022 Jan Feb	1.4 0.9	-0.2 0.2	-0.8 -0.3	-6.2 -2.1	-1.2 -1.1	2.8 4.4	2.1 1.8	2.7 2.7	1.7 1.0	-2.0 -2.7	5.4 3.4	-5.9 -2.2	3.6 5.4	0.9 -0.3	0.0 0.0	2.0 1.2	5.6 3.9	1.3 1.2	1.7 1.4	6.0 1.3	7.9 5.2	4.5 2.0	9.5 3.3
Mar	0.6	0.6	-0.1	2.8	-1.1	4.1	0.7	2.9	0.5	-2.4	2.7	6.5	5.2	-1.3	-0.1	1.3	2.7	0.9	0.2	-3.9	4.5	1.4	-6.3
Apr May	0.1 0.3	1.0 0.9	-0.5 -0.5	1.9 0.4	-1.1 -0.8	1.3 0.3	0.9 0.3	2.3 3.0	0.1 0.3	-2.2 -1.8	1.7 2.0	10.1 8.7	3.7 1.6	-1.3 -0.6	-0.2 0.1	0.9 1.7	2.7 2.6	0.3 0.1	-0.6 0.1	-6.3 -5.0	5.7 6.9	-1.9 -2.4	-11.5 -9.7
Jun	0.3	0.6	-0.9	-3.0	-1.0	0.3	0.2	1.9	0.4	-1.1	0.9	5.5	0.6	0.3	0.3	1.7	1.8	0.2	1.0	-3.6	5.2	-2.7	-1.3
Jul	0.5	0.4	-1.0	-0.9	-1.1	0.0	-1.6	1.5	0.6	-0.9	1.1	3.0	0.8	0.7	0.3	1.9	0.8	0.5	1.5	-0.7	2.6	-1.2	2.6
Aug Sep	0.0 -0.1	0.2 -0.1	-1.8 -1.8	-2.1 -1.1	-2.0 -1.9	-0.7 -1.5	-1.5 -2.1	-0.1 0.6	0.4 0.2	-0.4 -0.9	1.4 2.9	1.5 -1.4	1.0 0.0	0.6 -0.1	0.1 0.0	0.7 0.2	-0.2 0.0	0.9 1.1	1.8 1.6	-1.1 0.5	0.6 -0.6	-1.7 -1.8	0.8 -6.7
Oct	-0.3	-0.4	-1.6	-5.0	-1.3	-2.4	-1.1	0.7	-0.1	-0.4	2.2	-3.0	-0.6	-0.8	0.0	-0.2	0.5	1.1	0.8	0.7	-1.0	-2.2	-9.4
Nov Dec	-0.1 0.1	-0.6 -0.5	-0.6 0.0	-2.1 -2.4	-0.2 0.5	-2.8 -2.1	-0.4 0.7	1.2 1.3	-0.1 0.1	-0.5 0.5	0.2 -2.9	-2.1 -0.1	-0.5 1.2	-1.2 -0.8	0.0 -0.1	-0.4 0.3	1.5 2.6	0.7 0.3	-0.2 -1.5	1.7 0.4	-0.2 -0.3	-0.9 -0.3	-8.4 -5.1
2023 Jan	0.2	-0.4	0.3	-1.7	0.4	-0.3	1.6	0.6	0.1	0.6	-3.9	1.0	2.9	-0.2	-0.3	0.2	3.1	0.0	-1.6	-0.9	-1.6	0.5	-2.8
	0.2	-0.1	0.2	-4.9	0.4	0.7	0.8	0.8	0.1	0.7	-3.3	0.5	2.7	0.4	-0.2	0.6	2.7	-0.4	-1.9	-1.9	-2.1	1.1	-1.8
Feb Mar		0.0	0.1	E /	0.6	<u>^ ^</u>	0.0			A 4	4.4	0.4	1 0	0 E	∩ 1	<u>∩ 1</u>	10	0.7	0 6	∩ 0	10	2.0	<u>^ ^</u>
Feb Mar Apr	0.1	0.0 0.2	0.1 0.3	-5.4 -4.5	0.6 0.9	0.0 -0.1	0.3 -0.2	0.4 1.2	0.1 0.0	-0.1 -0.4	-1.1 -0.9	-0.1 0.3	1.3 0.1	0.5 0.3	-0.1 0.0	-0.1 -0.3	1.6 0.7	-0.7 -0.9	-0.6 -0.7	-0.8 -0.4	1.2 3.6	2.0 2.1	0.8 0.8

The GVA output is designated as a National Statistic.
 Indices reflect values measured at basic prices, which exclude "taxes less subsidies on products".
 Estimates cannot be regarded as accurate to the last digit shown.
 Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.
 A complete run of data is available on the ONS website.
 The construction Output in Great Britain releases, due to rounding differences. For the most accurate figure, please refer to the Construction Output release.

## **GVA2** Monthly GDP based on GVA (Gross Value Added) <sup>1</sup> Chained volume indices of gross value added at basic prices <sup>2,3,4,5</sup>

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   |   |   |  |  | seasonally adjust  |  |   
   
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   |   | \//=  |  | Industry section   | ons (SIC2007)  |  |   
   
   |  |  |  |   |  |   
  |  | A _41141  |
| Total                                     |  |   |   |   |  | Water  
   
  |  
   
   
   |   |   |  | Accommodation  |  |  |   
   
   | Professional.  | Administrative   | Public   |   |  | |
  |  | Activities of<br>household  |
|   | Aariculture.   | Total   |   |   | Electricity  |  
   
  |  
   
   
   | Total   |   |  |  | Information  | Financial  |   
   
   |  |  |  |   | Human health   | Arts.   
  | Other  | as employers  |
| basic                                     | forestry and   | production  | Mining &  |   | gas, steam   | sewerage   
   
  |  
   
   
   | service   | motor vehicles  | Transport  | service  | and  | and insurance  | Real estate                                 
   
   | and technical  | service  | and  |   | and social   | entertainment   
  | service  | undifferentiate   |
| prices                                    | fishing  | industries  | -   | Manufacturing   | and air  | -  
   
  | Construction 6   
   
   
   | industries  | and motorcycles   | and storage  | activities   | Communication  | activities   | activities                                  
   
   | activities   | activities   | defence  | Education   | work activities  | and recreation  
  | activities   | goods and service   |
| A-T                                       | A  | B-E   | В   | С   | D  | E  
   
  | F  
   
   
   | G-T   | G   | Н  | I  | J  | К  | L   
   
   | М  | N  | 0  | Р   | Q  | R   
  | S  |   |
| 1000                                      | 7  | 135   | 11  | 97  | 15   | 12   
   
  | 62   
   
   
   | 796   | 104   | 40   | 30   | 63   | 82   | 132   
   
   | 73   | 51   | 49   | 60  | 77   | 15  
  | 17   | :   |
| st 3 months on s                          | same 3 months a  | vear ago  |   |   |  |  
   
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  |  |   |
|   |  |   | ED0W/   | EDGO  | EDCP   | EDGS   
   
  | EDGT   
   
   
   | EDCU  | EDGV  | EDGW   | EDGY   | EDCV   | EDC7   | EDUA  
   
   | EDUR   | EDUC   | EDHD   | EDUE  | EDHE   | EDUC  
  | EDUU   | EDH   |
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  |  | 27.0<br>67.6  |
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   |  |  |  |   |  | |
  |  | 50.4  |
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  |  | 11.7  |
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   |   |   |  |  |  |  |   
   
   |  |  |  |   |  | |
  |  | -15.6   |
| 7.4                                       | 8.9  |   |   |   |  |  
   
  |  
   
   
   |   |   |  |  | 6.4  |  |   
   
   |  |  |  | 0.4   | 45.4   |   
  | -9.8   | -24.1   |
| 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   |
| 8.3                                       | 8.6  |   | -7.2  | -1.5  | -4.1   | 6.2  
   
  | 4.7  
   
   
   | 10.7  | 3.8   |  | 76.1   | 7.8  | 4.9  | -0.5  
   
   | 10.7   | 19.4   | 6.7  | 1.5   | 50.9   | 31.9  
  | -6.1   | -12.1   |
| 9.9                                       | 8.1  | -1.7  | -6.8  | -1.8  | -3.2   | 5.4  
   
  | 6.9  
   
   
   | 12.6  | 6.7   | 15.4   | 120.5  | 9.6  | 3.0  | -0.8  
   
   | 11.1   | 19.6   | 7.1  | 11.7  | 49.7   | 34.4  
  | 1.3  | -5.3  |
| 10.2                                      | 7.5  | -1.6  | -4.4  | -1.7  | -4.5   | 4.4  
   
  | 7.4  
   
   
   | 12.9  | 6.4   | 17.1   | 125.8  | 11.7   | 1.0  | -1.1  
   
   | 9.8  | 19.7   | 6.9  | 21.5  | 45.3   | 32.0  
  | 3.0  | -2.2  |
| 10.3                                      | 7.0  | -1.6  | 0.3   | -2.0  | -5.0   | 4.1  
   
  | 6.6  
   
   
   | 13.1  | 5.9   | 18.7   | 154.6  | 12.3   | -0.1   | -1.2  
   
   | 8.8  | 19.9   | 6.6  | 26.2  | 37.1   | 38.2  
  | 12.6   | 0.7   |
| 8.1                                       | 6.7  | -2.0  | 7.6   | -3.0  | -5.7   | 4.4  
   
  | 4.5  
   
   
   | 10.5  | 0.3   | 17.2   | 124.8  | 11.3   | -0.5   | -0.9  
   
   | 7.3  | 19.3   | 5.5  | 16.5  | 28.1   | 41.1  
  | 3.7  | -1.4  |
| 6.0                                       | 6.1  | -2.6  | 11.6  | -3.7  | -8.0   | 4.3  
   
  | 4.7  
   
   
   | 7.9   | -3.8  | 17.2   | 77.4   | 9.7  | -0.5   | -0.6  
   
   | 7.5  | 18.0   | 4.3  | 7.1   | 20.1   | 38.4  
  | 2.2  | -7.1  |
| 4.1                                       | 5.2  | -2.7  | 19.8  | -4.2  | -8.7   | 3.8  
   
  | 4.6  
   
   
   | 5.5   | -6.3  | 15.3   | 40.7   | 9.0  | -0.1   | -0.4  
   
   | 7.2  | 16.6   | 3.3  | 1.6   | 11.7   | 32.6  
  | 1.6  | -15.7   |
| 3.6                                       | 3.8  | -3.1  | 16.9  | -4.5  | -7.7   | 1.5  
   
  | 5.8  
   
   
   | 4.7   | -6.2  | 14.7   | 24.0   | 9.3  | 0.6  | -0.2  
   
   | 6.9  | 14.7   | 2.9  | 0.6   | 8.2  | 28.6  
  | 8.2  | -17.4   |
| 2.9                                       | 2.4  | -3.7  | 5.4   | -5.0  | -3.7   | 0.6  
   
  | 6.1  
   
   
   | 3.9   |   | 13.2   | 13.5   | 9.0  |  |   
   
   | 5.7  | 13.0   |  | 1.0   | 4.7  | 24.8  
  | 6.9  | -14.1   |
| 2.3                                       | 1.4  | -4.1  | -4.8  |   | -0.7   | 0.7  
   
  |  
   
   
   | 3.2   |   |  | 6.9  | 8.6  |  | 0.1   
   
   | 4.8  | 11.6   | 3.0  | 2.3   | 2.6  | 19.7  
  | 2.3  | -10.1   |
| 1.7                                       | 0.8  | -3.9  | -10.0   |   | 1.7  | 0.3  
   
  |  
   
   
   |   |   |  | 3.6  | 7.6  |  | 0.2   
   
   | 4.6  | 9.8  | 3.2  |   | -0.7   | |
  |  | -9.9  |
| 1.2                                       |  |   |   |   |  |  
   
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  |  | -13.9   |
| 0.9                                       |  |   |   |   |  |  
   
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  |  | -18.2   |
| 0.5                                       |  |   |   |   |  |  
   
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   |   |   |  |  | 6.8  |  | -0.1  
   
   |  |  |  |   |  | |
  |  | -20.0   |
| 0.4                                       | 0.4  |   | -8.6  |   |  |  
   
  | 5.0  
   
   
   |   |   | 0.3  | 8.6  | 4.8  |  | 0.0   
   
   |  |  |  | -0.3  |  | |
  | -3.8   | -18.2   |
|   |  |   |   |   |  |  
   
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   |   |   |  |  |  |  |   
   
   |  |  |  |   |  | |
  |  | -11.9   |
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   |   |   |  |  | 3.1  |  |   
   
   |  |  |  |   |  |   
  |  | -8.9  |
| 0.1                                       | -0.3   | -1.9  | -12.7   | -1.0  | -2.4   | -0.8   
   
  | 2.1  
   
   
   | 0.3   | -0.9  | -2.7   | 0.6  | 3.3  | -0.3   | -0.2  
   
   | 0.4  | 4.0  | 0.7  | 0.0   | -1.3   | 2.8   
  | -0.9   | -10.0   |
| st month on prev                          | vious month  |   |   |   |  |  
   
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  |  |   |
| ECYX                                      | ECYY   | ECYZ  | ECZ2  | ECZA  | ECZC   | ECZD   
   
  | ECZE   
   
   
   | ECZG  | ECZK  | ECZN   | ECZT   | ECZU   | ED2G   | ED2H  
   
   | ED2I   | ED2J   | ED2K   | ED2L  | ED2M   | ED2N  
  | ED2O   | ED2F  |
| 13  | 13   | 1.4   | 13  | 0.6   | 6.6  | 0.0  
   
  | -0.9   
   
   
   | 15  | -0.4  | -16  | 35.4   | -0.6   | -0.3   | 0.0   
   
   | -0.1   | 16   | 13   | 2.5   | 77   | 7.8   
  | -14.4  | 13.6  |
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  |  | -3.2  |
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  |  | 4.1   |
| 0.4                                       | 0.2  | -0.4  | 5.8   | -0.6  | -0.6   | -2.6   
   
  | 1.2  
   
   
   | 0.4   | 0.5   | 2.9  | -1.1   | 0.2  | 0.2  | 0.0   
   
   | 0.1  | 1.2  | 0.4  | 1.3   | 0.1  | 2.8   
  | -0.4   | -5.6  |
|   | -0.3   | -1.2  | -8.2  | -0.8  | -0.7   | 0.3  
   
  | 0.6  
   
   
   | 0.2   | 0.3   | 1.3  | -2.6   | 1.1  | -0.4   | 0.0   
   
   | 0.6  | 0.9  | 0.5  | 0.3   | 0.9  | -3.6  
  | -2.3   | -5.0  |
| 0.0                                       |  | 0.1   | 1.1   | 0.0   | -0.2   | 0.5  
   
  | -0.1   
   
   
   | -0.9  | -2.2  | -0.6   | -0.9   | -2.8   | -1.0   | -0.1  
   
   | -1.3   | -1.5   | 0.2  | -0.7  | 0.5  | -1.6  
  | 0.7  | -2.9  |
| 0.0<br>-0.7                               | -0.5   |   |   |   | -2.9   | -1.2   
   
  | 0.7  
   
   
   | 0.7   | 2.1   | -0.5   | 0.6  | 0.7  | 0.0  | 0.3   
   
   | 1.0  | 2.1  | 0.0  | -0.2  | 0.7  | 5.7   
  | 0.0  | -2.3  |
| -0.7                                      | -0.5<br>0.1  | 0.3   | -0.3  |   |  | 1.4  
   
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   | -0.5   |  |  |   |  | 0.1   
  | 0.0  | -0.0  |
| -0.7<br>0.7                               | 0.1  | 0.3   | -0.3<br>2 7   | 1.1<br>-0.5   |  | 20   
   
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  | 0.2  | 0.0   |
| -0.7<br>0.7<br>0.2                        | 0.1<br>-0.3  | 0.0   | 2.7   | -0.5  | -0.1   | 2.0  
   
  | 0.2  
   
   
   | 0.2   | 0.0   | -2.0<br>-3.4   | 1.5<br>-0.6  |  |  |   
   
   |  | 1.9  | 0.0<br>-0.1  | -0.3<br>-2.7  | 0.3<br>-3.2  | -2.2  
  | 0.2  | 0.0   |
| -0.7<br>0.7<br>0.2<br>-0.5                | 0.1<br>-0.3<br>0.0   | 0.0<br>0.2  | 2.7<br>-5.1   | -0.5<br>0.1   | -0.1<br>3.8  | 0.7  
   
  | 0.8  
   
   
   | -0.8  | -0.5  | -3.4   | -0.6   | 0.0  | 0.3  | -0.1  
   
   | 0.8  | 0.0  | -0.1   | -2.7  | -3.2   | -5.9  
  | -0.6   | -3.0  |
| -0.7<br>0.7<br>0.2<br>-0.5<br>0.4         | 0.1<br>-0.3<br>0.0<br>0.0  | 0.0<br>0.2<br>-0.2  | 2.7<br>-5.1<br>-3.3   | -0.5<br>0.1<br>0.4  | -0.1<br>3.8<br>-1.9  | 0.7<br>-0.7  
   
  | 0.8<br>-1.8  
   
   
   | -0.8<br>0.8   | -0.5<br>0.9   | -3.4<br>2.7  | -0.6<br>-0.3   | 0.0<br>0.8   | 0.3<br>0.3   | -0.1<br>0.1                                 
   
   | 0.8<br>-0.3  | 0.0<br>1.0   | -0.1<br>0.0  | -2.7<br>2.4   | -3.2<br>1.1  | -5.9<br>4.7   
  | -0.6<br>1.4  | -3.0<br>1.5   |
| -0.7<br>0.2<br>-0.5<br>0.4<br>0.1         | 0.1<br>-0.3<br>0.0<br>0.0<br>0.2   | 0.0<br>0.2<br>-0.2<br>-0.1  | 2.7<br>-5.1<br>-3.3<br>2.3  | -0.5<br>0.1<br>0.4<br>0.1   | -0.1<br>3.8<br>-1.9<br>-2.0  | 0.7<br>-0.7<br>-1.2  
   
  | 0.8<br>-1.8<br>2.6   
   
   
   | -0.8<br>0.8<br>-0.1   | -0.5<br>0.9<br>-0.3   | -3.4<br>2.7<br>-0.5  | -0.6<br>-0.3<br>0.4  | 0.0<br>0.8<br>-0.2   | 0.3<br>0.3<br>0.2  | -0.1<br>0.1<br>0.0                          
   
   | 0.8<br>-0.3<br>-0.2  | 0.0<br>1.0<br>0.4  | -0.1<br>0.0<br>-1.0  | -2.7<br>2.4<br>-1.6   | -3.2<br>1.1<br>0.6   | -5.9<br>4.7<br>1.7  
  | -0.6<br>1.4<br>1.9   | -3.0<br>1.5<br>1.0  |
| -0.7<br>0.7<br>-0.5<br>0.4<br>0.1<br>-0.2 | 0.1<br>-0.3<br>0.0<br>0.0<br>0.2<br>0.0  | 0.0<br>0.2<br>-0.2<br>-0.1<br>0.8   | 2.7<br>-5.1<br>-3.3<br>2.3<br>-3.0  | -0.5<br>0.1<br>0.4<br>0.1<br>0.7  | -0.1<br>3.8<br>-1.9<br>-2.0<br>2.6   | 0.7<br>-0.7<br>-1.2<br>2.0   
   
  | 0.8<br>-1.8<br>2.6<br>-0.2   
   
   
   | -0.8<br>0.8<br>-0.1<br>-0.4   | -0.5<br>0.9<br>-0.3<br>-1.5   | -3.4<br>2.7<br>-0.5<br>-1.6  | -0.6<br>-0.3<br>0.4<br>-0.5  | 0.0<br>0.8<br>-0.2<br>-1.0   | 0.3<br>0.3<br>0.2<br>-0.1  | -0.1<br>0.1<br>0.0<br>0.1                   
   
   | 0.8<br>-0.3<br>-0.2<br>0.0   | 0.0<br>1.0<br>0.4<br>-0.9  | -0.1<br>0.0<br>-1.0<br>0.1   | -2.7<br>2.4<br>-1.6<br>0.1  | -3.2<br>1.1<br>0.6<br>-0.6   | -5.9<br>4.7<br>1.7<br>1.4   
  | -0.6<br>1.4<br>1.9<br>-1.1   | -3.0<br>1.5<br>1.0<br>2.0   |
| -0.7<br>0.2<br>-0.5<br>0.4<br>0.1         | 0.1<br>-0.3<br>0.0<br>0.0<br>0.2   | 0.0<br>0.2<br>-0.2<br>-0.1  | 2.7<br>-5.1<br>-3.3<br>2.3  | -0.5<br>0.1<br>0.4<br>0.1   | -0.1<br>3.8<br>-1.9<br>-2.0  | 0.7<br>-0.7<br>-1.2  
   
  | 0.8<br>-1.8<br>2.6   
   
   
   | -0.8<br>0.8<br>-0.1   | -0.5<br>0.9<br>-0.3   | -3.4<br>2.7<br>-0.5  | -0.6<br>-0.3<br>0.4  | 0.0<br>0.8<br>-0.2   | 0.3<br>0.3<br>0.2  | -0.1<br>0.1<br>0.0                          
   
   | 0.8<br>-0.3<br>-0.2  | 0.0<br>1.0<br>0.4  | -0.1<br>0.0<br>-1.0  | -2.7<br>2.4<br>-1.6   | -3.2<br>1.1<br>0.6   | -5.9<br>4.7<br>1.7  
  | -0.6<br>1.4<br>1.9   | -3.0<br>1.5<br>1.0  |
|   | prices           A-T           1000           t 3 months on s           ED9T           16.9           24.3           17.4           11.4           8.2           7.4           8.1           8.3           9.9           10.2           10.3           8.1           6.0           4.1           3.6           2.9           2.3           1.7           1.2           0.9           0.5           0.4           0.5           0.5           0.1           t month on pre- | GVA at<br>basic         Agriculture,<br>forestry and<br>prices         fishing           A-T         A           1000         7           t 3 months on same 3 months at           ED9T         ED9U           16.9         7.1           24.3         10.5           17.4         9.8           11.4         9.4           8.2         8.9           7.4         8.9           8.1         8.8           8.3         8.6           9.9         8.1           10.2         7.5           10.3         7.0           8.1         6.7           6.0         6.1           4.1         5.2           3.6         3.8           2.9         2.4           2.3         1.4           1.7         0.8           1.2         0.7           0.9         0.6           0.5         0.6           0.4         0.4           0.5         0.1           0.5         0.2           0.1         0.3           1.2         0.7           0.9         1.2 | GVA at<br>basic         Agriculture,<br>forestry and<br>production<br>industries         Total<br>production<br>industries           A-T         A         B-E           1000         7         135           2         1000         7         135           t 3 months on same 3 months a year ago         ED9T         ED9U         ED9V           16.9         7.1         22.8         24.3         10.5         23.3           17.4         9.8         14.0         11.4         9.4         7.1           8.2         8.9         3.9         7.4         8.9         1.9           8.1         8.8         -0.1         8.1         8.8         -0.1           8.3         8.6         -1.5         9.9         8.1         -1.7           10.2         7.5         -1.6         1.1         5.2         -2.7           3.6         3.8         -3.1         2.9         2.4         -3.7           2.3         1.4         -4.1         1.7         0.8         -3.9           1.2         0.7         -3.2         0.9         0.6         -2.7           3.6         3.8         -3.1         2.9         2.4         -3.7 | GVA at<br>basic         Agriculture,<br>forestry and<br>prices         Total<br>forestry and<br>production         Mining &<br>quarrying           A-T         A         B-E         B           1000         7         135         11           A-T         A         B-E         B           1000         7         135         11           A-T         A         B-E         B           1000         7         135         11           A-T         ED9T         ED9U         ED9V         ED9W           16.9         7.1         22.8         -16.9           24.3         10.5         23.3         -26.4           17.4         9.8         14.0         -25.1           11.4         9.4         7.1         -17.2           8.2         8.9         3.9         -5.7           7.4         8.9         1.9         -0.5           8.1         8.8         -0.1         -2.9           8.3         8.6         -1.5         -7.2           9.9         8.1         -1.7         -6.8           10.2         7.5         -1.6         -4.4           10.3         7.0         -1.6 | GVA at<br>prices         Agriculture,<br>fishing         Total<br>production         Mining &<br>quarying         Manufacturing           A-T         A         B-E         B         C           1000         7         135         11         97           Call         Call         Same         Call         Same           ED9T         ED9U         ED9V         ED9W         ED9W         ED9Q           16.9         7.1         22.8         -16.9         30.6           24.3         10.5         23.3         -26.4         32.4           17.4         9.8         14.0         -25.1         19.6           11.4         9.4         7.1         -17.2         10.4           8.2         8.9         3.9         -5.7         5.6           7.4         8.9         1.9         -0.5         2.7           8.1         8.8         -0.1         -2.9         0.0           8.3         8.6         -1.5         -7.2         -1.5           9.9         8.1         -1.6         4.4         -1.7           10.3         7.0         -1.6         0.4         -2.0           8.1         6.7         -2 | GVA at<br>basic         Agriculture,<br>freshry and<br>fishing         Total<br>production<br>industries         Mining &<br>quarying         Electricity<br>manufacturing         gas, steam<br>and air           A-T         A         B-E         B         C         D           1000         7         135         11         97         15           t3 months on same 3 months a year ago         ED9T         ED9U         ED9V         ED9W         ED9W         EDGQ         EDGR           16.9         7.1         22.8         -16.9         30.6         17.4           24.3         10.5         23.3         -26.4         32.4         18.5           17.4         9.8         14.0         -25.1         19.6         12.3           18.2         8.9         3.9         -5.7         5.6         -2.3           7.4         8.9         1.9         -0.5         2.7         -5.3           8.1         8.6         -1.5         -7.2         -1.5         4.1           9.9         8.1         -1.7         -6.8         -1.8         -3.2           10.2         7.5         -1.6         -4.4         -1.7         -4.5           10.3         7.0         -1.6 <t< td=""><td>GVA at<br/>basic<br/>prices<br/>firshing         Agriculture,<br/>production<br/>industries<br/>(uarying)         Total<br/>Mining &amp;<br/>Quarying         Electricity<br/>gas, steam         supply,<br/>sewerage<br/>and air           A-T         A         B-E         B         C         D         E           1000         7         135         11         97         15         12           1000         7         135         11         97         15         12           1000         7         135         11         97         15         12           11         97         15         200         EDST         EDST         EDST         EDSU         EDSW         EDSW         EDGQ         EDGR         EDGS           16.9         7.1         22.8         -16.9         30.6         17.4         11.1           24.3         10.5         23.3         -26.4         32.4         18.5         11.9           17.4         9.8         14.0         -25.1         19.6         12.3         10.1           11.4         9.4         7.1         -7.7         5.6         -2.3         6.4           7.7         8.3         8.0         1.7         7.5         6.1         -2.6         <td< td=""><td>GVA at<br/>basic         Agriculture,<br/>forestry and<br/>industries<br/>guarding         Total<br/>guarding         Head<br/>Manufacturing<br/>Manufacturing         Supply:<br/>gas, steam         Supply:<br/>severage           A-T         A         B-E         B         C         D         E         F           A-T         A         B-E         B         C         D         E         F           1000         7         13s         11         97         15         12         62           2         2         13         11         97         15         12         62           2         16.9         7.1         22.8         16.9         20.6         EDG         EDG         EDG         EDG         EDG         11.4         9.4         1.1         1.1         9.5         17.0           8.2         8.9         3.9         -5.7         5.6         -2.3         6.4         8.5           7.4         8.9         1.9         -0.5         2.7         -5.3         6.1         5.5           8.1         8.8         -0.1         -2.9         0.0         -4.7         6.6         4.2           9.9         8.1         -1.7         -6.8         -1.8</td><td>GVA at<br/>basic         Agriculture,<br/>frishing<br/>industrise         Total<br/>production<br/>industrise         Electricity<br/>quarying<br/>memory         supply,<br/>gas, steam         supply,<br/>and air         supply,<br/>severage         Construction <sup>6</sup><br/>industrise           AT         A         B-E         B         C         D         E         F         G-T           1000         7         135         11         97         15         12         62         7           1000         7         135         11         97         15         12         62         7           13         111         141         111         413         141           143         105         233         264         204         185         119         65         90           143         94         71         -72         164         31         75         166         43         111         413         141           143         94         71         -72         164         31         75         166         43         175         170         111           14         94         71         -72         1.5         4.1         6.2         4.7           111         848&lt;</td><td>GV at<br/>basis         Apricultors<br/>finiting         Total<br/>production<br/>industries         Total<br/>parameter<br/>quarrying<br/>quarrying         Manufacturing<br/>parameter<br/>modurying<br/>quarrying         method<br/>parameter<br/>quarrying<br/>modurying         Total<br/>parameter<br/>quarrying<br/>modurying         Total<br/>parameter<br/>quarrying<br/>modurying         Total<br/>parameter<br/>quarrying<br/>modurying         Total<br/>parameter<br/>quarrying<br/>modurying         Total<br/>parameter<br/>quarrying<br/>modurying         Total<br/>parameter<br/>quarrying<br/>modurying         Total<br/>parameter<br/>quarrying<br/>modurying         Total<br/>parameter<br/>quarrying<br/>modurying         Total<br/>quarrying<br/>modurying<br/>modurying         Total<br/>quarrying<br/>modurying<br/>modurying         Construction<br/>quarrying<br/>modurying<br/>modurying         Construction<br/>quarrying<br/>modurying<br/>modurying         Total<br/>quarrying<br/>modurying<br/>modurying<br/>modurying         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        Unitarial         Unitaria         Unitarial         Unitaria         Unitarial         Unit</td><td>Total         Water         Total         Water         Total         Monocation         Management         Accommodation           basic         bestyrand         production         Mining &amp; gas, steam service         issuerice         inductions         and total         service         and total         and total         service         and totage         and totag</td><td>Total         Water         Total         Constraints         Accommodation           GVA t         Agriculture,<br/>prices         Total         Electricity         supply,<br/>supply,         Total         repart of<br/>notartices         Accommodation         and supply,<br/>supply,         Total         repart of<br/>notartices         accommodation         accommodation           Art         A         B         C         D         E         C         CT         at the part of<br/>notartices         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    Table         garring         Munitarial         garring         Mun</td><td>Index         Weisser         Weisser         Totel         Professore         Adamsatzione         Professore         Professore</td><td>Internation         Work         Work         Control or expended         Accumation         Description         Description</td><td>Tall         Weiner         Tall and the part of the part of</td><td>Inter         Markati         Accounting         Defaultion         Defaultion</td><td>Norm         Norm         Norm         Norm         Automation         Product         Product         Automation         Product         Produ</td></td></td<></td></t<> | GVA at<br>basic<br>prices<br>firshing         Agriculture,<br>production<br>industries<br>(uarying)         Total<br>Mining &<br>Quarying         Electricity<br>gas, steam         supply,<br>sewerage<br>and air           A-T         A         B-E         B         C         D         E           1000         7         135         11         97         15         12           1000         7         135         11         97         15         12           1000         7         135         11         97         15         12           11         97         15         200         EDST         EDST         EDST         EDSU         EDSW         EDSW         EDGQ         EDGR         EDGS           16.9         7.1         22.8         -16.9         30.6         17.4         11.1           24.3         10.5         23.3         -26.4         32.4         18.5         11.9           17.4         9.8         14.0         -25.1         19.6         12.3         10.1           11.4         9.4         7.1         -7.7         5.6         -2.3         6.4           7.7         8.3         8.0         1.7         7.5         6.1         -2.6 <td< td=""><td>GVA at<br/>basic         Agriculture,<br/>forestry and<br/>industries<br/>guarding         Total<br/>guarding         Head<br/>Manufacturing<br/>Manufacturing         Supply:<br/>gas, steam         Supply:<br/>severage           A-T         A         B-E         B         C         D         E         F           A-T         A         B-E         B         C         D         E         F           1000         7         13s         11         97         15         12         62           2         2         13         11         97         15         12         62           2         16.9         7.1         22.8         16.9         20.6         EDG         EDG         EDG         EDG         EDG         11.4         9.4         1.1         1.1         9.5         17.0           8.2         8.9         3.9         -5.7         5.6         -2.3         6.4         8.5           7.4         8.9         1.9         -0.5         2.7         -5.3         6.1         5.5           8.1         8.8         -0.1         -2.9         0.0         -4.7         6.6         4.2           9.9         8.1         -1.7         -6.8         -1.8</td><td>GVA at<br/>basic         Agriculture,<br/>frishing<br/>industrise         Total<br/>production<br/>industrise         Electricity<br/>quarying<br/>memory         supply,<br/>gas, steam         supply,<br/>and air         supply,<br/>severage         Construction <sup>6</sup><br/>industrise           AT         A         B-E         B         C         D         E         F         G-T           1000         7         135         11         97         15         12         62         7           1000         7         135         11         97         15         12         62         7           13         111         141         111         413         141           143         105         233         264         204         185         119         65         90           143         94         71         -72         164         31         75         166         43         111         413         141           143         94         71         -72         164         31         75         166         43         175         170         111           14         94         71         -72         1.5         4.1         6.2         4.7           111         848&lt;</td><td>GV at<br/>basis         Apricultors<br/>finiting         Total<br/>production<br/>industries         Total<br/>parameter<br/>quarrying<br/>quarrying         Manufacturing<br/>parameter<br/>modurying<br/>quarrying         method<br/>parameter<br/>quarrying<br/>modurying         Total<br/>parameter<br/>quarrying<br/>modurying         Total<br/>parameter<br/>quarrying<br/>modurying         Total<br/>parameter<br/>quarrying<br/>modurying         Total<br/>parameter<br/>quarrying<br/>modurying         Total<br/>parameter<br/>quarrying<br/>modurying         Total<br/>parameter<br/>quarrying<br/>modurying         Total<br/>parameter<br/>quarrying<br/>modurying         Total<br/>parameter<br/>quarrying<br/>modurying         Total<br/>quarrying<br/>modurying<br/>modurying  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        Unitarial         Unitaria         Unitarial         Unitaria         Unitarial         Unit</td><td>Total         Water         Total         Water         Total         Monocation         Management         Accommodation           basic         bestyrand         production         Mining &amp; gas, steam service         issuerice         inductions         and total         service         and total         and total         service         and totage         and totag</td><td>Total         Water         Total         Constraints         Accommodation           GVA t         Agriculture,<br/>prices         Total         Electricity         supply,<br/>supply,         Total         repart of<br/>notartices         Accommodation         and supply,<br/>supply,         Total         repart of<br/>notartices         accommodation         accommodation           Art         A         B         C         D         E         C         CT         at the part of<br/>notartices         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    Table         garring         Munitarial         garring         Mun</td><td>Index         Weisser         Weisser         Totel         Professore         Adamsatzione         Professore         Professore</td><td>Internation         Work         Work         Control or expended         Accumation         Description         Description</td><td>Tall         Weiner         Tall and the part of the part of</td><td>Inter         Markati         Accounting         Defaultion         Defaultion</td><td>Norm         Norm         Norm         Norm         Automation         Product         Product         Automation         Product         Produ</td></td></td<> | GVA at<br>basic         Agriculture,<br>forestry and<br>industries<br>guarding         Total<br>guarding         Head<br>Manufacturing<br>Manufacturing         Supply:<br>gas, steam         Supply:<br>severage           A-T         A         B-E         B         C         D         E         F           A-T         A         B-E         B         C         D         E         F           1000         7         13s         11         97         15         12         62           2         2         13         11         97         15         12         62           2         16.9         7.1         22.8         16.9         20.6         EDG         EDG         EDG         EDG         EDG         11.4         9.4         1.1         1.1         9.5         17.0           8.2         8.9         3.9         -5.7         5.6         -2.3         6.4         8.5           7.4         8.9         1.9         -0.5         2.7         -5.3         6.1         5.5           8.1         8.8         -0.1         -2.9         0.0         -4.7         6.6         4.2           9.9         8.1         -1.7         -6.8         -1.8 | GVA at<br>basic         Agriculture,<br>frishing<br>industrise         Total<br>production<br>industrise         Electricity<br>quarying<br>memory         supply,<br>gas, steam         supply,<br>and air         supply,<br>severage         Construction <sup>6</sup><br>industrise           AT         A         B-E         B         C         D         E         F         G-T           1000         7         135         11         97         15         12         62         7           1000         7         135         11         97         15         12         62         7           13         111         141         111         413         141           143         105         233         264         204         185         119         65         90           143         94         71         -72         164         31         75         166         43         111         413         141           143         94         71         -72         164         31         75         166         43         175         170         111           14         94         71         -72         1.5         4.1         6.2         4.7           111         848< | GV at<br>basis         Apricultors<br>finiting         Total<br>production<br>industries         Total<br>parameter<br>quarrying<br>quarrying         Manufacturing<br>parameter<br>modurying<br>quarrying         method<br>parameter<br>quarrying<br>modurying         Total<br>parameter<br>quarrying<br>modurying         Total<br>parameter<br>quarrying<br>modurying         Total<br>parameter<br>quarrying<br>modurying         Total<br>parameter<br>quarrying<br>modurying         Total<br>parameter<br>quarrying<br>modurying         Total<br>parameter<br>quarrying<br>modurying         Total<br>parameter<br>quarrying<br>modurying         Total<br>parameter<br>quarrying<br>modurying         Total<br>quarrying<br>modurying<br>modurying         Total<br>quarrying<br>modurying<br>modurying         Construction<br>quarrying<br>modurying<br>modurying         Construction<br>quarrying<br>modurying<br>modurying         Total<br>quarrying<br>modurying<br>modurying<br>modurying         Total<br>quarrying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modurying<br>modu | Total         Unitarial         Unitaria         Unitarial         Unitaria         Unitarial         Unit | Total         Water         Total         Water         Total         Monocation         Management         Accommodation           basic         bestyrand         production         Mining & gas, steam service         issuerice         inductions         and total         service         and total         and total         service         and totage         and totag | Total         Water         Total         Constraints         Accommodation           GVA t         Agriculture,<br>prices         Total         Electricity         supply,<br>supply,         Total         repart of<br>notartices         Accommodation         and supply,<br>supply,         Total         repart of<br>notartices         accommodation         accommodation           Art         A         B         C         D         E         C         CT         at the part of<br>notartices         and sup<br>mode         accommodation         accommodation | Total         Water         Modelante         Accomposition         Accomposition           GVA at         Agriculture,<br>printer         Total         Bencial         Bencial </td <td>Water         Water         and feats         Accommodion           Total         Section         Total         Accommodion           Date Toropy and the production         Accommodion         and feats         Accommodion           Date Toropy and the production         Toropy and the production         and the producti</td> <td>Total         Bitcherity         Water         Total         Bitcherity         Section         Accammadian         Accammadian         Production         Production</td> <td>Totel         Description         Water         Weaker         Weaker         Weaker         Weaker         Weaker         Accommodation         Production         Production         Administration           GVA         Agriculut:         Table         garring         Munitarial         garring         Mun</td> <td>Index         Weisser         Weisser         Totel         Professore         Adamsatzione         Professore         Professore</td> <td>Internation         Work         Work         Control or expended         Accumation         Description         Description</td> <td>Tall         Weiner         Tall and the part of the part of</td> <td>Inter         Markati         Accounting         Defaultion         Defaultion</td> <td>Norm         Norm         Norm         Norm         Automation         Product         Product         Automation         Product         Produ</td> | Water         Water         and feats         Accommodion           Total         Section         Total         Accommodion           Date Toropy and the production         Accommodion         and feats         Accommodion           Date Toropy and the production         Toropy and the production         and the producti | Total         Bitcherity   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Sources: For further information on these data please telephone 01633 582428 or E-mail gdp@ons.gov.uk

seasonally adjusted 2019=100

The GVA output is designated as a National Statistic.
 Indices reflect values measured at basic prices, which exclude "taxes less subsidies on products".
 Estimates cannot be regarded as accurate to the last digit shown.
 Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.
 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.

**GVA3** Monthly GDP based on GVA (Gross Value Added)<sup>1</sup> Chained volume indices of gross value added at basic prices <sup>2,3,4,5</sup>

												Industry sectio	ns (SIC2007)										
										Wholesale			(										Activities
	Total						Water			and retail:		Accommodation				Professional,	Administrative	Public					househol
	GVA at	Agriculture,	Total			Electricity	supply,		Total	repair of		and food	Information	Financial		scientific	and support ad	ministration		Human health	Arts.	Other	as employer
	basic	forestry and	production	Mining &		gas, steam	sewerage		service	motor vehicles	Transport	service	and	and insurance	Real estate	and technical	service	and		and social	entertainment	service	undifferentiate
	prices	fishina	' industries	0	Manufacturing	and air	etc	Construction 6	industries	and motorcycles	and storage	activities	Communication	activities	activities	activities	activities	defence	Education	work activities	and recreation	activities	goods and service
Section	A-T	A	B-E	B	C C	D	E	F	G-T	G	у	1	J	К	L	М	N	0	Р	0	R	S	
2019 weights	1000	7	135	11	97	15	12	62	796	104	40	30	63	82	132	73	51	49	60	77	15	17	
Percentage change,	latest month on sa	ame month a yea	r ago																				
	ED2R	ED2S	ED2T	ED2U	ED2V	ED2W	ED2X	ED2Y	ED2Z	ED32	ED33	ED34	ED35	ED36	ED37	ED38	ED39	ED3A	ED3B	ED3C	ED3D	ED3E	ED3
2021 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.
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	-0.9	-4.0	-0.8	-4.6	5.1	9.7	14.5	11.2	20.0	148.5	10.7	0.6	-1.6	11.7	20.3	7.0	30.6	43.7	32.8	14.2	-1.6
Feb	10.8	7.2	-1.5	3.3	-2.0	-5.3	3.6	5.8	13.9	6.3	18.6	155.0	14.3	0.0	-1.2	9.4	22.3	6.5	31.9	37.5	35.8	11.1	-2.2
Mar	8.4	6.2	-2.4	2.0	-3.1	-5.1	3.6	4.6	11.0	0.7	17.5	160.0	11.9	-0.9	-1.0	5.6	17.2	6.2	17.2	30.5	46.5	12.4	7.1
Apr	5.1	6.6	-2.0	19.4	-3.9	-6.7	6.0	3.1	6.7	-5.5	15.5	79.8	7.8	-0.7	-0.5	7.1	18.6	4.0	3.9	17.5	41.1	-9.6	-7.6
May	4.6	5.4	-3.3	15.2	-4.0	-12.0	3.1	6.4	6.0	-6.1	18.5	33.9	9.6 9.7	0.0	-0.3	10.0	18.2	2.9	1.6	13.5	28.7	6.2	-17.2
Jun	2.8 3.3	3.6	-2.8	25.4	-4.7	-7.4	2.4 -0.9	4.5	3.7	-7.1	12.2	21.1	0.11	0.5	-0.5	4.7	13.1	3.0	-0.7	5.0	28.6 28.5	10.5	-20.9 -13.5
Jul	3.3 2.5	2.5 1.0	-3.3 -5.0	11.4 -13.7	-4.9 -5.6	-3.3 -0.1	-0.9	6.4 7.5	4.4 3.5	-5.3 -4.8	13.8 13.5	18.1 2.8	8.5 9.0	1.4 1.1	0.2 0.1	6.1 6.2	12.8 13.2	2.9 3.2	0.9 2.7	6.4 2.8	28.5 17.6	8.0 2.3	-13.: -5.9
Aug Sep	2.5	0.7	-5.0	-13.7	-5.0	-0.1	2.6	6.8	1.6	-4.8	9.8	1.0	9.0 8.4	-0.9	0.1	2.2	8.7	2.9	3.4	-1.1	13.5	-2.9	-10.3
Oct	1.7	0.7	-4.0	-9.0	-3.3	3.8	-1.9	7.9	2.0	-0.0	9.0	7.2	5.4 5.4	-0.9	0.0	5.3	7.7	2.9	3.4 4.5	-3.5	16.7	-2.9	-10.
Nov	0.9	0.7	-2.9	-0.3	-3.6	-2.1	0.1	6.2	1.1	-4.2	2.7	9.1	8.7	-2.1	0.0	2.5	7.6	2.4	4.5	-4.9	8.7	-4.0	-13.
Dec	0.2	0.6	-2.7	-3.9	-3.5	0.9	0.2	6.1	0.3	-2.2	-1.1	15.8	7.6	-2.0	-0.2	2.9	6.7	1.8	-1.9	-10.8	1.8	-4.5	-23.0
2023 Jan	0.5	0.5	-2.9	-11.8	-2.3	-3.1	-0.7	3.2	0.9	-2.5	1.4	9.0	4.3	-0.6	-0.2	3.0	7.5	1.6	1.0	-5.5	6.7	-5.7	-19.3
Feb	0.6	0.0	-2.7	-9.7	-1.8	-5.2	-1.7	5.8	0.8	-1.3	0.5	1.9	2.6	0.1	0.3	2.1	6.1	0.6	0.0	-2.0	6.8	-1.3	-11.6
Mar	0.3	-0.3	-1.9	-12.8	-1.1	-1.2	-0.2	3.5	0.4	-0.8	-2.7	0.8	3.0	0.1	0.3	1.2	4.9	0.6	0.2	-2.9	3.3	-1.7	-3.
Apr	0.5	-0.3	-1.6	-12.4	-0.6	-1.7	-1.7	2.7	0.7	-1.2	-2.2	1.5	3.9	-0.2	-0.2	1.3	4.7	0.8	-0.2	0.9	0.8	0.5	-11.0
May	-0.4	-0.3	-2.3	-12.8	-1.2	-4.2	-0.6	0.2	-0.1	-0.6	-3.1	-0.3	3.1	-0.8	-0.6	-1.2	2.6	0.7	0.0	-1.9	4.4	-1.4	-14.

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 <u>Construction Output in Great Britain</u> releases, due to rounding differences. For the most accurate figure, please refer to the Construction Output release.



### REV1 Monthly GDP based on GVA (Gross Value Added)<sup>1</sup> Revisions to growth of gross value added at basic prices<sup>2</sup>

												Industry sectio	easonally adjuste							-		· · ·	
	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 <sup>4</sup>	Total service industries	Wholesale and retail: repair of motor vehicles and motorcycles	Transport and storage	Accommodation and food service	Information and Communication	Financial and insurance activities	Real estate activities	Professional, scientific and technical activities	Administrative and support ad service activities	Public ministration and defence	Education	Human health and social work activities	Arts, entertainment and recreation	Other service activities	Activities househol as employe undifferentiat goods and servic
tion	A-T	A	B-E	В	C	D	E	F	G-T	G	Н	I	J	K	L	Μ	Ν	0	Р	Q	R	S	
9 weights	1000	7	135	11	97	15	12	62	796	104	40	30	63	82	132	73	51	49	60	77	15	17	
entage change, late	est 3 months on p	previous 3 month	IS <sup>3,5</sup>																				
1 Apr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
May	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Jun Jul	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0
Aug	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Sep	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Oct	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Nov	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
2 Jan Feb	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0
Mar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Apr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
May	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(
Jun	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	C
Jul	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(
Aug	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	(
Sep Oct	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	( (
Nov	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
3 Jan	0.0	-0.1	0.0	0.1	0.0	0.0	0.0	-0.1	-0.1	0.0	-0.1	-0.1	0.0	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	0.2	0.0	0
Feb Mar	0.0 0.0	0.0 -0.1	0.1 0.0	0.1 -0.4	0.0 0.1	-0.3 0.0	0.0 0.2	-0.2 -0.3	0.0 0.0	0.0 0.0	-0.2 -0.1	0.0 0.1	0.0 0.1	0.0 0.1	0.0 -0.1	-0.1 -0.1	0.1 0.3	0.0 0.0	0.0 0.1	-0.1 -0.3	0.5 0.7	0.0 0.0	0
Apr	0.0	0.0	0.0	-0.4	0.1	0.0	0.2	-0.3	0.0	0.0	-0.1	0.1	0.1	0.0	-0.1	0.1	0.5	0.0	0.1	-0.3	0.7	0.0	0 -0
entage change, late	est 3 months on s	ame 3 months a	year ago <sup>3,5</sup>																				
1 Apr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
May	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Jun	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Jul	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	( (
Aug Sep	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	
Oct	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Nov	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Jan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Feb	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0	0.0 0.0	
Mar Apr	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0	
May	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Jun	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Jul	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Aug	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sep	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Oct Nov	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	
Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Jan	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	-0.1	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	0.2	0.0	
Feb Mar	0.0	0.0	0.0	0.1	0.1		0.0	-0.2	0.0	0.0	-0.1	0.0	0.0	0.0	0.0	-0.1	0.1	0.0	0.0	0.0	0.5	0.0	(
	0.0	0.0	0.1	-0.4	0.1	0.0	0.2	-0.3	0.0	-0.1	-0.2	0.1	0.2	0.1	0.0	-0.1	0.4	0.0	0.0	-0.3	0.8	0.0	(

 1
 The GVA output is designated as a National Statistic.
 Sources: For further information on these data please telephone

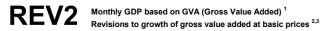
 2
 Estimates cannot be regarded as accurate to the last digit shown.
 01633 582428 or E-mail gdp@ons.gov.uk

 3
 Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.
 01633 582428 or E-mail gdp@ons.gov.uk

 4
 Monthly data from the construction survey are only available from January 2010, therefore the data prior to this period are derived using statistical methods from the available quarterly data, and should therefore be treated with some caution.

 5
 Revisions to periods highlighted in Grey are consistent with the Quarterly National Accounts published on 30 June 2023

#### Periods open for revision: Jan 23 - Apr 23



	iteriololio to grou	vth of gross valu	e added at busi	o prioco									seasonally adjust	54 2010 100							de open le	or revision: Ja	an 20 - Api 7	
												Industry section	ons (SIC2007)											
	Total									Wholesale								<b>D</b> 1 //						Activities
			<b>.</b>			_	Water		Tatal	and retail:		Accommodation					Administrative	Public				• ·		househ
	GVA at	Agriculture,	Total			Electricity	supply,		Total	repair of		and food	Information	Financial		scientific	and support ad				man health	Arts,	Other	as employ
	basic	forestry and	production	Mining &		gas, steam	sewerage	4	service	motor vehicles	Transport	service	and	and insurance	Real estate	and technical	service	and				entertainment	service	undifferentia
	prices	fishing	industries		Manufacturing	and air		Construction <sup>4</sup>	industries	and motorcycles	-	activities	Communication	activities	activities	activities	activities		Education			and recreation	activities	goods and servic
ection	A-T	A	B-E	В	C	D	E	F	G-T	G	Н	1	J	K	L	M	N	0		·	Q	R	S	
)19 weights	1000	7	135	11	97	15	12	62	796	104	40	30	63	82	132	73	51	49	60	60	77	15	17	
rcentage change, lat	test month on pre	vious month 3,5																						
21 Apr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
May	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
Jun	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
Jul	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
Aug	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
Sep	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Oct	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Nov	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2 Jan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
Mar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
Apr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
May	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
Jun	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
Jul	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
Aug	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sep	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Oct	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Nov	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
23 Jan	-0.1	-0.1	0.1	0.2	0.1	0.0	-0.1	-0.2	0.0	0.0	-0.3	-0.2	-0.2		0.0	-0.2	0.1	0.0	0.0		-0.1	0.6	-0.1	
Feb	-0.1	0.1	0.0	-0.1	0.0	-0.7	0.1	0.0	0.0	-0.1	0.1	0.2	-0.2		-0.1	-0.2	0.1	0.0	0.0		-0.1	0.4	-0.1	
Mar Apr	0.1 0.0	0.0 0.0	0.1 0.1	-1.6 -0.5	0.0 0.2	1.5 0.1	0.3 -0.2	-0.4 -0.3	0.1	-0.1 0.3	0.1 -0.5	0.3	0.1	0.0 -0.2	0.0	0.5 -0.1	0.4 -0.1	0.1 0.0	0.0 -0.2		-0.3 0.1	-0.1 -0.2	0.2 -0.1	
ercentage change, la				0.0	0.2	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.1	0.1	0.0	0.2		0.1	0.2	0.1	
21 Apr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
May	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
Jun	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
Jul	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Aug	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sep	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Oct	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Nov	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
22 Jan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
Mar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
Apr	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
May	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
Jun	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
Jul	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
Aug	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Sep	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Oct	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
Nov	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
23 Jan	0.0	-0.1	0.0	0.0	0.0	0.0	-0.1	-0.2	0.0	0.0	-0.3	-0.1	-0.1		0.0	-0.1	0.0	0.0	0.0		0.0	0.0	-0.1	
Feb	0.0	0.0	0.0	0.1	0.1	-0.6	0.2	-0.2	0.0	0.0		0.1	0.2		0.0	-0.3	0.2	0.0			-0.2	0.9	-0.1	
Mar	0.0	0.0	0.1	-1.2	0.2	0.8	0.5	-0.6	0.0	-0.1	0.0	0.4	0.3		-0.1	0.2	0.7	0.1	0.1		-0.5	0.7	0.0	
Apr	0.0	0.0	0.3	-1.8	0.3	1.0	0.3	-0.9	0.0	0.2	-0.5	0.7	0.4	-0.2	0.0	0.1	0.6	0.1	-0.1		-0.5	0.6	0.0	

seasonally adjusted 2019=100

 1
 The GVA output is designated as a National Statistic.
 Sources: For further information on these data please telephone

 2
 Estimates cannot be regarded as accurate to the last digit shown.
 01633 582428 or E-mail gdp@ons.gov.uk

 3
 Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.
 01633 582428 or E-mail gdp@ons.gov.uk

 4
 Monthly data from the construction survey are only available from January 2010, therefore the data prior to this period are derived using statistical methods from the available quarterly data, and should therefore be treated with some caution.

 5
 Revisions to periods highlighted in Grey are consistent with the Quarterly National Accounts published on 30 June 2023

#### Periods open for revision: Jan 23 - Apr 23

### **CONTRIB 1** Monthly GDP based on GVA (Gross Value Added) <sup>1</sup> Contributions to growth of gross value added at basic prices <sup>2,3,4,5</sup>

CONTRIB 1	Contributions to										Industry	sections (SIC2007	easonally adjusted										
										Wholesale			,										Activities o
	Total						Water			and retail:		Accommodation				Professional,	Administrative	Public					household
	GVA at basic	Agriculture, forestry and	Total production	Mining &		Electricity gas, steam	supply,		Total service	repair of motor vehicles	Transport	and food service	Information and	Financial and insurance	Real estate	scientific and technical	and support ad service	ministration and		Human health and social	Arts, entertainment	Other service	as employers undifferentiate
	prices	fishing	industries		Manufacturing	and air	sewerage etc	Construction	industries	and motorcycles	and storage		Communication	activities	activities	activities	activities	defence	Education		and recreation	activities	goods and services
Section	A-T	Ā	B-E	В	С	D	E	F	G-T	G	Н	I	J	к	L	М	Ν	0	Р	Q	R	S	1
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, lates	st 3 months on previo	ous 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 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 Jul	6.18 4.81	0.02 0.02	0.04	-0.13 -0.06	0.14 0.05	0.07 0.04	0.01 0.02	0.23 0.02	6.06 4.90	1.17 0.60	0.13 0.11	1.17 1.28	0.25 0.17	0.02 -0.04	-0.07 -0.05	0.26 0.18	0.23 0.24	0.18 0.16	1.49 1.09	1.49 1.47	0.11 0.15	0.11 -0.08	0.03 0.03
Aug	3.11	0.02	0.02 -0.09	-0.06	-0.06	-0.08	0.02	-0.09	4.90 3.39	0.80	0.11	1.28	0.17	-0.04	-0.05	0.18	0.24	0.16	0.53	1.47	0.15	-0.08	0.03
Sep	1.72	0.03	-0.05	0.13	-0.09	-0.15	0.03	-0.09	1.92	-0.16	0.18	0.69	0.03	-0.05	-0.07	0.19	0.22	0.07	0.06	0.86	0.14	-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	1.41	0.00	-0.10	-0.06	-0.11	0.04	0.03	0.16	1.40	-0.21	0.18	-0.18	0.23	0.08	0.01	0.15	0.29	0.07	0.11	0.55	0.11	0.06	0.01
Feb	0.91	0.00	-0.03	-0.02	-0.10	0.06	0.02	0.15	0.80	-0.27	0.12	-0.06	0.35	-0.03	0.00	0.09	0.21	0.06	0.09	0.12	0.07	0.03	0.00
Mar	0.55 0.13	0.01	-0.01	0.02	-0.10	0.06	0.01	0.17	0.40 0.05	-0.25	0.09 0.06	0.18	0.34	-0.11	-0.02	0.10 0.07	0.14 0.14	0.05	0.01	-0.38	0.06	0.02 -0.03	-0.01
Apr Mav	0.13	0.01 0.01	-0.06 -0.07	0.02 0.00	-0.11 -0.08	0.02 0.00	0.01 0.00	0.13 0.18	0.05	-0.23 -0.18	0.06	0.28 0.25	0.24 0.10	-0.11 -0.05	-0.02 0.01	0.07	0.14	0.02 0.01	-0.04 0.00	-0.61 -0.47	0.08 0.10	-0.03	-0.02 -0.01
Jun	0.30	0.00	-0.11	-0.03	-0.09	0.00	0.00	0.10	0.31	-0.10	0.03	0.16	0.04	0.02	0.04	0.13	0.10	0.01	0.07	-0.33	0.08	-0.04	0.00
Jul	0.45	0.00	-0.13	-0.01	-0.10	0.00	-0.02	0.09	0.52	-0.09	0.04	0.09	0.05	0.02	0.04	0.15	0.04	0.03	0.10	-0.06	0.04	-0.02	0.00
Aug	0.04	0.00	-0.23	-0.02	-0.18	-0.01	-0.02	-0.01	0.32	-0.04	0.05	0.05	0.07	0.05	0.02	0.06	-0.01	0.05	0.11	-0.10	0.01	-0.02	0.00
Sep	-0.09	0.00	-0.23	-0.01	-0.17	-0.02	-0.03	0.03	0.14	-0.08	0.10	-0.04	0.00	0.00	0.00	0.01	0.00	0.06	0.10	0.04	-0.01	-0.03	-0.01
Oct	-0.26	0.00	-0.21	-0.04	-0.12	-0.04	-0.01	0.04	-0.07	-0.04	0.08	-0.09	-0.04	-0.07	0.00	-0.02	0.03	0.06	0.05	0.06	-0.02	-0.03	-0.01
Nov	-0.10	0.00	-0.08	-0.02	-0.02	-0.04	-0.01	0.07	-0.08	-0.05	0.01	-0.07	-0.04	-0.10	0.00	-0.03	0.08	0.04	-0.01	0.15	0.00	-0.01	-0.01
Dec	0.14	0.00	0.01	-0.02	0.05	-0.03	0.01	0.08	0.05	0.05	-0.11	0.00	0.08	-0.07	-0.01	0.02	0.15	0.01	-0.10	0.04	0.00	0.00	-0.01
2023 Jan Feb	0.20 0.16	0.00 0.00	0.04 0.02	-0.02 -0.05	0.04 0.04	-0.01 0.01	0.02 0.01	0.04 0.05	0.12 0.08	0.06 0.07	-0.16 -0.13	0.03 0.01	0.19 0.18	-0.02 0.03	-0.03 -0.02	0.02 0.05	0.17 0.15	0.00 -0.02	-0.10 -0.12	-0.07 -0.16	-0.02 -0.03	0.01 0.01	0.00
Mar	0.10	0.00	0.02	-0.05	0.04	0.00	0.00	0.03	0.00	-0.01	-0.04	0.00	0.09	0.04	-0.02	0.00	0.09	-0.02	-0.12	-0.07	0.02	0.01	0.00
Apr	0.09	0.00	0.04	-0.05	0.08	0.00	0.00	0.07	-0.03	-0.04	-0.03	0.01	0.01	0.02	0.00	-0.02	0.04	-0.05	-0.04	-0.04	0.05	0.03	0.00
May	0.03	0.00	0.05	-0.04	0.07	0.01	0.00	0.01	-0.04	-0.07	-0.04	0.02	0.01	-0.01	-0.01	-0.04	0.00	-0.03	0.02	0.00	0.07	0.01	0.00
Contribution to growth, lates	st 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 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 11.45	0.07 0.07	1.90 0.96	-0.22 -0.14	1.90 1.03	0.20 0.05	0.14 0.10	1.71 0.94	13.75 9.55	1.32 0.35	0.93 0.56	1.93 1.20	0.61 0.49	0.49 0.43	0.03 0.01	1.27 1.11	1.04 0.79	0.15 0.21	2.83 1.69	3.76 3.41	0.47 0.36	-0.09 -0.20	0.06
Aug			0.30	-0.04	0.56	-0.04	0.08	0.49	7.24	0.16	0.38	0.68	0.43	0.43	-0.02	1.03	0.78	0.27	0.63	3.21	0.32	-0.26	-0.03
Aug Sep			0.53									0.00				0.95			0.03	3.40	0.33	-0.16	-0.04
Sep	8.22	0.06	0.53 0.25				0.08	0.32	6.96	0.21	0.36	0.64	0.42	0.48	-0.04		0.86	0.30					
•			0.53 0.25 -0.02	-0.04 0.00 -0.02	0.27 0.00	-0.08 -0.07	0.08 0.08	0.32 0.25	6.96 8.04	0.21 0.40	0.36 0.40	0.64 1.10	0.42 0.42	0.48 0.51	-0.04 -0.05	0.95	0.86 0.95	0.30 0.33	-0.06	3.61	0.37	-0.07	-0.04
Sep Oct	8.22 7.44	0.06 0.06	0.25	0.00	0.27	-0.08															0.37 0.38	-0.07 -0.10	-0.02
Sep Oct Nov Dec 2022 Jan	8.22 7.44 8.10 8.34 9.90	0.06 0.06 0.06 0.06 0.06	0.25 -0.02 -0.21 -0.24	0.00 -0.02 -0.05 -0.07	0.27 0.00 -0.16 -0.19	-0.08 -0.07 -0.06 -0.05	0.08 0.08 0.07	0.25 0.28 0.41	8.04 8.48 9.95	0.40 0.39 0.70	0.40 0.43 0.51	1.10 1.32 1.69	0.42 0.52 0.63	0.51 0.43 0.27	-0.05 -0.06 -0.11	0.93 0.80 0.84	0.95 0.93 0.97	0.33 0.34 0.39	-0.06 0.11 0.74	3.61 3.88 3.52	0.38 0.41	-0.10 0.02	-0.02 -0.01
Sep Oct Nov Dec 2022 Jan Feb	8.22 7.44 8.10 8.34 9.90 10.18	0.06 0.06 0.06 0.06 0.06 0.06	0.25 -0.02 -0.21 -0.24 -0.23	0.00 -0.02 -0.05 -0.07 -0.04	0.27 0.00 -0.16 -0.19 -0.17	-0.08 -0.07 -0.06 -0.05 -0.08	0.08 0.08 0.07 0.06	0.25 0.28 0.41 0.44	8.04 8.48 9.95 10.20	0.40 0.39 0.70 0.66	0.40 0.43 0.51 0.56	1.10 1.32 1.69 1.76	0.42 0.52 0.63 0.77	0.51 0.43 0.27 0.09	-0.05 -0.06 -0.11 -0.15	0.93 0.80 0.84 0.76	0.95 0.93 0.97 0.99	0.33 0.34 0.39 0.38	-0.06 0.11 0.74 1.26	3.61 3.88 3.52 3.26	0.38 0.41 0.39	-0.10 0.02 0.05	-0.02 -0.01 0.00
Sep Oct Nov Dec 2022 Jan Feb Mar	8.22 7.44 8.10 8.34 9.90 10.18 10.26	0.06 0.06 0.06 0.06 0.06 0.06 0.05	0.25 -0.02 -0.21 -0.24 -0.23 -0.23	0.00 -0.02 -0.05 -0.07 -0.04 0.00	0.27 0.00 -0.16 -0.19 -0.17 -0.20	-0.08 -0.07 -0.06 -0.05 -0.08 -0.09	0.08 0.08 0.07 0.06 0.06	0.25 0.28 0.41 0.44 0.40	8.04 8.48 9.95 10.20 10.33	0.40 0.39 0.70 0.66 0.61	0.40 0.43 0.51 0.56 0.61	1.10 1.32 1.69 1.76 2.01	0.42 0.52 0.63 0.77 0.82	0.51 0.43 0.27 0.09 -0.01	-0.05 -0.06 -0.11 -0.15 -0.17	0.93 0.80 0.84 0.76 0.69	0.95 0.93 0.97 0.99 1.00	0.33 0.34 0.39 0.38 0.36	-0.06 0.11 0.74 1.26 1.47	3.61 3.88 3.52 3.26 2.76	0.38 0.41 0.39 0.46	-0.10 0.02 0.05 0.17	-0.02 -0.01 0.00 0.00
Sep Oct Nov Dec 2022 Jan Feb Mar Apr	8.22 7.44 8.10 8.34 9.90 10.18 10.26 8.05	0.06 0.06 0.06 0.06 0.06 0.06 0.05 0.05	0.25 -0.02 -0.21 -0.24 -0.23 -0.23 -0.23	0.00 -0.02 -0.05 -0.07 -0.04 0.00 0.06	0.27 0.00 -0.16 -0.19 -0.17 -0.20 -0.30	-0.08 -0.07 -0.06 -0.05 -0.08 -0.09 -0.10	0.08 0.08 0.07 0.06 0.06 0.06	0.25 0.28 0.41 0.44 0.40 0.27	8.04 8.48 9.95 10.20 10.33 8.26	0.40 0.39 0.70 0.66 0.61 0.03	0.40 0.43 0.51 0.56 0.61 0.56	1.10 1.32 1.69 1.76 2.01 1.85	0.42 0.52 0.63 0.77 0.82 0.74	0.51 0.43 0.27 0.09 -0.01 -0.05	-0.05 -0.06 -0.11 -0.15 -0.17 -0.11	0.93 0.80 0.84 0.76 0.69 0.57	0.95 0.93 0.97 0.99 1.00 0.97	0.33 0.34 0.39 0.38 0.36 0.30	-0.06 0.11 0.74 1.26 1.47 0.98	3.61 3.88 3.52 3.26 2.76 2.14	0.38 0.41 0.39 0.46 0.49	-0.10 0.02 0.05 0.17 0.05	-0.02 -0.01 0.00 0.00 0.00
Sep Oct Nov Dec 2022 Jan Feb Mar	8.22 7.44 8.10 8.34 9.90 10.18 10.26 8.05 6.01	0.06 0.06 0.06 0.06 0.06 0.06 0.05 0.05	0.25 -0.02 -0.21 -0.24 -0.23 -0.23 -0.28 -0.35	0.00 -0.02 -0.05 -0.07 -0.04 0.00 0.06 0.09	0.27 0.00 -0.16 -0.19 -0.17 -0.20 -0.30 -0.36	-0.08 -0.07 -0.06 -0.05 -0.08 -0.09 -0.10 -0.14	0.08 0.07 0.06 0.06 0.06 0.06	0.25 0.28 0.41 0.44 0.40 0.27 0.28	8.04 8.48 9.95 10.20 10.33 8.26 6.24	0.40 0.39 0.70 0.66 0.61 0.03 -0.41	0.40 0.43 0.51 0.56 0.61 0.56 0.55	1.10 1.32 1.69 1.76 2.01 1.85 1.44	0.42 0.52 0.63 0.77 0.82 0.74 0.64	0.51 0.43 0.27 0.09 -0.01 -0.05 -0.05	-0.05 -0.06 -0.11 -0.15 -0.17 -0.11 -0.07	0.93 0.80 0.84 0.76 0.69 0.57 0.58	0.95 0.93 0.97 0.99 1.00 0.97 0.90	0.33 0.34 0.39 0.38 0.36 0.30 0.23	-0.06 0.11 0.74 1.26 1.47 0.98 0.45	3.61 3.88 3.52 3.26 2.76 2.14 1.60	0.38 0.41 0.39 0.46 0.49 0.46	-0.10 0.02 0.05 0.17 0.05 0.03	-0.02 -0.01 0.00 0.00 0.00 -0.01
Sep Oct Nov Dec 2022 Jan Feb Mar Apr May Jun	8.22 7.44 8.10 8.34 9.90 10.18 10.26 8.05 6.01 4.15	0.06 0.06 0.06 0.06 0.06 0.05 0.05 0.05	0.25 -0.02 -0.21 -0.24 -0.23 -0.23 -0.28 -0.35 -0.37	0.00 -0.02 -0.05 -0.07 -0.04 0.00 0.06 0.09 0.14	0.27 0.00 -0.16 -0.19 -0.17 -0.20 -0.30 -0.36 -0.41	-0.08 -0.07 -0.06 -0.05 -0.08 -0.09 -0.10 -0.14 -0.15	0.08 0.08 0.07 0.06 0.06 0.06 0.05 0.05	0.25 0.28 0.41 0.44 0.40 0.27 0.28 0.28	8.04 8.48 9.95 10.20 10.33 8.26 6.24 4.35	0.40 0.39 0.70 0.66 0.61 0.03 -0.41 -0.68	0.40 0.43 0.51 0.56 0.61 0.56 0.55 0.49	1.10 1.32 1.69 1.76 2.01 1.85 1.44 0.95	0.42 0.52 0.63 0.77 0.82 0.74 0.64 0.59	0.51 0.43 0.27 0.09 -0.01 -0.05 -0.05 0.00	-0.05 -0.06 -0.11 -0.15 -0.17 -0.11 -0.07 -0.05	0.93 0.80 0.84 0.76 0.69 0.57 0.58 0.55	0.95 0.93 0.97 0.99 1.00 0.97 0.90 0.82	0.33 0.34 0.39 0.38 0.36 0.30 0.23 0.17	-0.06 0.11 0.74 1.26 1.47 0.98 0.45 0.10	3.61 3.88 3.52 3.26 2.76 2.14 1.60 0.97	0.38 0.41 0.39 0.46 0.49 0.46 0.41	-0.10 0.02 0.05 0.17 0.05 0.03 0.02	-0.02 -0.01 0.00 0.00 -0.01 -0.01
Sep Oct Nov Dec 2022 Jan Feb Mar Apr May Jun Jun	8.22 7.44 8.10 8.34 9.90 10.18 10.26 8.05 6.01 4.15 3.57	0.06 0.06 0.06 0.06 0.05 0.05 0.05 0.05	0.25 -0.02 -0.21 -0.24 -0.23 -0.23 -0.28 -0.35 -0.37 -0.42	0.00 -0.02 -0.05 -0.07 -0.04 0.00 0.06 0.09 0.14 0.12	0.27 0.00 -0.16 -0.19 -0.17 -0.20 -0.30 -0.36 -0.41 -0.44	-0.08 -0.07 -0.06 -0.05 -0.08 -0.09 -0.10 -0.14 -0.15 -0.13	0.08 0.08 0.07 0.06 0.06 0.06 0.05 0.05 0.05	0.25 0.28 0.41 0.44 0.40 0.27 0.28 0.28 0.34	8.04 8.48 9.95 10.20 10.33 8.26 6.24 4.35 3.76	0.40 0.39 0.70 0.66 0.61 0.03 -0.41 -0.68 -0.66	0.40 0.43 0.51 0.56 0.61 0.56 0.55 0.49 0.48	1.10 1.32 1.69 1.76 2.01 1.85 1.44 0.95 0.63	0.42 0.52 0.63 0.77 0.82 0.74 0.64 0.59 0.60	0.51 0.43 0.27 0.09 -0.01 -0.05 -0.05 0.00 0.00	-0.05 -0.06 -0.11 -0.15 -0.17 -0.11 -0.07 -0.05 -0.02	0.93 0.80 0.84 0.76 0.69 0.57 0.58 0.55 0.52	0.95 0.93 0.97 0.99 1.00 0.97 0.90 0.82 0.73	0.33 0.34 0.39 0.38 0.36 0.30 0.23 0.17 0.16	-0.06 0.11 0.74 1.26 1.47 0.98 0.45 0.10 0.04	3.61 3.88 3.52 3.26 2.76 2.14 1.60 0.97 0.70	0.38 0.41 0.39 0.46 0.49 0.46 0.41 0.37	-0.10 0.02 0.05 0.17 0.05 0.03 0.02 0.11	-0.02 -0.01 0.00 0.00 -0.01 -0.02 -0.02
Sep Oct Nov Dec 2022 Jan Feb Mar Apr May Jun	8.22 7.44 8.10 8.34 9.90 10.18 10.26 8.05 6.01 4.15	0.06 0.06 0.06 0.06 0.06 0.05 0.05 0.05	0.25 -0.02 -0.21 -0.24 -0.23 -0.23 -0.28 -0.35 -0.37	0.00 -0.02 -0.05 -0.07 -0.04 0.06 0.09 0.14 0.12 0.04	0.27 0.00 -0.16 -0.19 -0.17 -0.20 -0.30 -0.36 -0.41	-0.08 -0.07 -0.06 -0.05 -0.08 -0.09 -0.10 -0.14 -0.15	0.08 0.08 0.07 0.06 0.06 0.06 0.05 0.05	0.25 0.28 0.41 0.44 0.40 0.27 0.28 0.28	8.04 8.48 9.95 10.20 10.33 8.26 6.24 4.35	0.40 0.39 0.70 0.66 0.61 0.03 -0.41 -0.68	0.40 0.43 0.51 0.56 0.61 0.56 0.55 0.49	1.10 1.32 1.69 1.76 2.01 1.85 1.44 0.95	0.42 0.52 0.63 0.77 0.82 0.74 0.64 0.59	0.51 0.43 0.27 0.09 -0.01 -0.05 -0.05 0.00	-0.05 -0.06 -0.11 -0.15 -0.17 -0.11 -0.07 -0.05	0.93 0.80 0.84 0.76 0.69 0.57 0.58 0.55	0.95 0.93 0.97 0.99 1.00 0.97 0.90 0.82	0.33 0.34 0.39 0.38 0.36 0.30 0.23 0.17	-0.06 0.11 0.74 1.26 1.47 0.98 0.45 0.10	3.61 3.88 3.52 3.26 2.76 2.14 1.60 0.97	0.38 0.41 0.39 0.46 0.49 0.46 0.41	-0.10 0.02 0.05 0.17 0.05 0.03 0.02	-0.02 -0.01 0.00 0.00 -0.01 -0.02 -0.02 -0.02
Sep Oct Nov Dec 2022 Jan Feb Mar Apr May Jun Jun Aug	8.22 7.44 8.10 8.34 9.90 10.18 10.26 8.05 6.01 4.15 3.57 2.85 2.29 1.74	0.06 0.06 0.06 0.06 0.06 0.05 0.05 0.05	0.25 -0.02 -0.21 -0.24 -0.23 -0.23 -0.23 -0.28 -0.35 -0.35 -0.37 -0.42 -0.49	0.00 -0.02 -0.05 -0.07 -0.04 0.00 0.06 0.09 0.14 0.12 0.04 -0.04 -0.09	0.27 0.00 -0.16 -0.19 -0.17 -0.20 -0.30 -0.36 -0.41 -0.44 -0.48 -0.49 -0.44	-0.08 -0.07 -0.06 -0.05 -0.08 -0.09 -0.10 -0.14 -0.15 -0.13 -0.06 -0.01 0.02	0.08 0.08 0.06 0.06 0.05 0.05 0.05 0.02 0.01 0.01 0.01	0.25 0.28 0.41 0.44 0.40 0.27 0.28 0.28 0.34 0.36	8.04 8.48 9.95 10.20 10.33 8.26 6.24 4.35 3.76 3.10 2.54 1.90	0.40 0.39 0.70 0.66 0.61 0.03 -0.41 -0.68 -0.66 -0.61	0.40 0.43 0.51 0.56 0.61 0.55 0.49 0.48 0.43 0.41 0.36	1.10 1.32 1.69 1.76 2.01 1.85 1.44 0.95 0.63 0.39	0.42 0.52 0.63 0.77 0.82 0.74 0.64 0.59 0.60 0.58	0.51 0.43 0.27 0.09 -0.01 -0.05 -0.05 0.00 0.06 0.09 0.04 -0.04	-0.05 -0.06 -0.11 -0.15 -0.17 -0.11 -0.07 -0.05 -0.02 -0.01 -0.02 -0.01 -0.02 -0.03	0.93 0.80 0.84 0.69 0.57 0.58 0.55 0.52 0.43	0.95 0.93 0.97 0.99 1.00 0.97 0.90 0.82 0.73 0.66	0.33 0.34 0.39 0.38 0.36 0.30 0.23 0.17 0.16 0.16	-0.06 0.11 0.74 1.26 1.47 0.98 0.45 0.10 0.04 0.04 0.06 0.15 0.23	3.61 3.88 3.52 3.26 2.76 2.14 1.60 0.97 0.70 0.41 0.23 -0.06	0.38 0.41 0.39 0.46 0.49 0.46 0.41 0.37 0.32	-0.10 0.02 0.05 0.17 0.05 0.03 0.02 0.11 0.09 0.03 -0.01	20.0- 10.0- 0.00 0.00 0.00- 0.00- 20.0- 20.0- 0.00- 0.00- 0.00- 0.00-
Sep Oct Nov Dec 2022 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov	8.22 7.44 8.10 8.34 9.90 10.18 10.26 8.05 6.01 4.15 3.57 2.85 2.29 1.74 1.20	0.06 0.06 0.06 0.06 0.05 0.05 0.05 0.05	0.25 -0.02 -0.21 -0.23 -0.23 -0.28 -0.35 -0.37 -0.42 -0.49 -0.54 -0.51 -0.51	0.00 -0.02 -0.05 -0.07 -0.04 0.00 0.09 0.14 0.12 0.04 -0.04 -0.09 -0.05	0.27 0.00 -0.16 -0.19 -0.17 -0.20 -0.30 -0.36 -0.41 -0.44 -0.48 -0.49 -0.44 -0.43	-0.08 -0.07 -0.06 -0.09 -0.10 -0.14 -0.15 -0.13 -0.06 -0.01 0.02 0.02	0.08 0.07 0.06 0.06 0.05 0.05 0.05 0.02 0.01 0.01 0.00 0.00	0.25 0.28 0.41 0.44 0.40 0.27 0.28 0.34 0.36 0.40 0.42 0.40	8.04 8.48 9.95 10.20 10.33 8.26 6.24 4.35 3.76 3.10 2.54 1.90 1.26	0.40 0.39 0.70 0.66 0.61 0.03 -0.41 -0.68 -0.66 -0.61 -0.59 -0.57 -0.55	0.40 0.43 0.51 0.56 0.61 0.55 0.49 0.48 0.43 0.41 0.36 0.24	1.10 1.32 1.69 1.76 2.01 1.85 1.44 0.95 0.63 0.39 0.20 0.11 0.17	0.42 0.52 0.63 0.77 0.82 0.74 0.64 0.59 0.60 0.58 0.55 0.49 0.48	0.51 0.43 0.27 0.09 -0.01 -0.05 -0.05 0.00 0.06 0.09 0.04 -0.04 -0.13	-0.05 -0.06 -0.11 -0.15 -0.17 -0.11 -0.07 -0.05 -0.02 -0.01 0.02 0.03 0.02	0.93 0.80 0.84 0.76 0.69 0.57 0.58 0.55 0.52 0.43 0.37 0.35 0.35	0.95 0.93 0.97 0.99 1.00 0.97 0.90 0.82 0.73 0.66 0.59 0.51 0.42	0.33 0.34 0.39 0.38 0.36 0.30 0.23 0.17 0.16 0.16 0.16 0.17 0.16	-0.06 0.11 0.74 1.26 1.47 0.98 0.45 0.10 0.04 0.06 0.15 0.23 0.19	3.61 3.88 3.52 3.26 2.76 2.14 1.60 0.97 0.70 0.41 0.23 -0.06 -0.31	0.38 0.41 0.39 0.46 0.49 0.46 0.41 0.37 0.32 0.26 0.22 0.18	-0.10 0.02 0.05 0.17 0.05 0.03 0.02 0.11 0.09 0.03 -0.01 -0.04	20.0- 10.0- 0.00 0.00 0.00 20.0- 20.0- 20.0- 20.0- 10.0- 20.0-
Sep Oct Nov Dec 2022 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec	8.22 7.44 8.10 8.34 9.90 10.18 10.26 8.05 6.01 4.15 3.57 2.85 2.29 1.74 1.20 0.90	0.06 0.06 0.06 0.06 0.05 0.05 0.05 0.05	0.25 -0.02 -0.21 -0.23 -0.23 -0.23 -0.35 -0.37 -0.42 -0.49 -0.54 -0.51 -0.41 -0.41 -0.41	0.00 -0.02 -0.05 -0.07 -0.04 0.00 0.06 0.09 0.14 -0.09 -0.04 -0.04 -0.05 -0.03	0.27 0.00 -0.16 -0.19 -0.17 -0.20 -0.30 -0.36 -0.41 -0.44 -0.48 -0.49 -0.44 -0.48 -0.49 -0.37 -0.32	-0.08 -0.07 -0.06 -0.05 -0.08 -0.09 -0.10 -0.14 -0.15 -0.13 -0.06 -0.01 0.02 0.02 0.01	0.08 0.07 0.06 0.06 0.05 0.05 0.02 0.01 0.01 0.00 0.00 -0.01	$\begin{array}{c} 0.25\\ 0.28\\ 0.41\\ 0.44\\ 0.40\\ 0.27\\ 0.28\\ 0.28\\ 0.34\\ 0.36\\ 0.40\\ 0.42\\ 0.40\\ 0.39\end{array}$	8.04 8.48 9.95 10.20 10.33 8.26 6.24 4.35 3.76 3.10 2.54 1.90 1.26 0.90	0.40 0.39 0.70 0.66 0.61 0.03 -0.41 -0.68 -0.66 -0.61 -0.59 -0.57 -0.55 -0.39	0.40 0.43 0.51 0.56 0.61 0.55 0.49 0.48 0.43 0.41 0.36 0.24 0.12	1.10 1.32 1.69 1.76 2.01 1.85 1.44 0.95 0.63 0.39 0.20 0.11 0.17 0.30	0.42 0.52 0.63 0.77 0.82 0.74 0.64 0.59 0.60 0.58 0.55 0.49 0.48 0.47	0.51 0.43 0.27 0.09 -0.01 -0.05 -0.05 0.00 0.06 0.09 0.04 -0.04 -0.13 -0.16	-0.05 -0.06 -0.11 -0.15 -0.17 -0.11 -0.07 -0.05 -0.02 -0.01 0.02 0.03 0.02 0.01	0.93 0.80 0.84 0.76 0.69 0.57 0.58 0.55 0.52 0.43 0.37 0.35 0.26 0.26 0.27	0.95 0.93 0.97 0.99 1.00 0.97 0.90 0.82 0.73 0.66 0.59 0.51 0.42 0.39	0.33 0.34 0.39 0.38 0.36 0.30 0.23 0.17 0.16 0.16 0.16 0.17 0.16 0.13	-0.06 0.11 0.74 1.26 1.47 0.98 0.45 0.10 0.04 0.06 0.15 0.23 0.19 0.08	3.61 3.88 3.52 3.26 2.76 2.14 1.60 0.97 0.70 0.41 0.23 -0.06 -0.31 -0.63	0.38 0.41 0.39 0.46 0.49 0.46 0.41 0.37 0.32 0.26 0.22 0.18 0.13	-0.10 0.02 0.05 0.07 0.05 0.03 0.02 0.11 0.09 0.03 -0.01 -0.04 -0.05	20.0- 10.0- 0.00 0.00 0.00 0.00- 20.0- 0.0- 0.0- 0.0- 0.0- 20
Sep Oct Nov Dec 2022 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2023 Jan	8.22 7.44 8.10 8.34 9.90 10.18 10.26 8.05 6.01 4.15 3.57 2.85 2.29 1.74 1.20 0.90 0.51	0.06 0.06 0.06 0.06 0.05 0.05 0.05 0.05	0.25 -0.02 -0.21 -0.23 -0.23 -0.23 -0.23 -0.28 -0.35 -0.37 -0.42 -0.49 -0.54 -0.51 -0.41 -0.35 -0.40	0.00 -0.02 -0.05 -0.07 -0.04 0.00 0.06 0.09 0.14 0.12 0.04 -0.04 -0.04 -0.05 -0.03 -0.06	0.27 0.00 -0.16 -0.19 -0.17 -0.20 -0.30 -0.36 -0.41 -0.44 -0.48 -0.49 -0.49 -0.44 -0.32 -0.30	-0.08 -0.07 -0.06 -0.05 -0.08 -0.09 -0.10 -0.14 -0.15 -0.13 -0.06 -0.01 0.02 0.02 0.01 -0.03	0.08 0.08 0.06 0.06 0.05 0.05 0.05 0.02 0.01 0.01 0.00 -0.01 0.00	0.25 0.28 0.41 0.44 0.40 0.27 0.28 0.34 0.36 0.40 0.42 0.40 0.39 0.30	8.04 8.48 9.95 10.20 10.33 8.26 6.24 4.35 3.76 3.10 2.54 1.90 1.26 0.90 0.60	0.40 0.39 0.70 0.66 0.61 -0.68 -0.66 -0.61 -0.59 -0.57 -0.55 -0.39 -0.31	0.40 0.43 0.51 0.56 0.61 0.55 0.49 0.48 0.43 0.41 0.36 0.24 0.12 0.04	1.10 1.32 1.69 1.76 2.01 1.85 1.44 0.95 0.63 0.39 0.20 0.11 0.17 0.30 0.32	0.42 0.52 0.63 0.77 0.82 0.74 0.64 0.59 0.60 0.58 0.55 0.49 0.48 0.47 0.44	0.51 0.43 0.27 0.09 -0.01 -0.05 0.00 0.06 0.09 0.04 -0.04 -0.13	-0.05 -0.06 -0.11 -0.15 -0.17 -0.15 -0.17 -0.05 -0.02 -0.01 -0.02 0.03 0.02 0.01 -0.01	0.93 0.80 0.84 0.76 0.69 0.57 0.58 0.55 0.52 0.43 0.37 0.35 0.26 0.27 0.22	$\begin{array}{c} 0.95\\ 0.93\\ 0.97\\ 0.99\\ 1.00\\ 0.97\\ 0.97\\ 0.97\\ 0.82\\ 0.73\\ 0.66\\ 0.59\\ 0.51\\ 0.42\\ 0.39\\ 0.39\end{array}$	0.33 0.34 0.39 0.38 0.30 0.23 0.17 0.16 0.16 0.16 0.17 0.16 0.13 0.10	-0.06 0.11 0.74 1.26 1.47 0.98 0.45 0.10 0.04 0.06 0.15 0.23 0.19 0.08 0.01	3.61 3.88 3.52 3.26 2.76 2.14 1.60 0.97 0.70 0.41 0.23 -0.06 -0.31 -0.63 -0.62	0.38 0.41 0.39 0.46 0.49 0.46 0.41 0.37 0.32 0.26 0.22 0.18 0.13 0.08	-0.10 0.02 0.05 0.03 0.02 0.11 0.09 0.03 -0.01 -0.04 -0.05 -0.06	20.0- 0.00 0.00 0.00 0.00 0.00 0.00- 0.02 0.00- 0.01 0.00- 0.02 0.00- 0.02 0.00- 0.02 0.00- 0.02 0.00- 0.02 0.00- 0.02 0.00- 0.02 0.00- 0.02 0.00- 0.0
Sep Oct Nov Dec 2022 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2023 Jan Feb	8.22 7.44 8.10 8.34 9.90 10.18 10.26 8.05 6.01 4.15 3.57 2.85 2.29 1.74 1.20 0.90 0.51 0.44	0.06 0.06 0.06 0.06 0.05 0.05 0.05 0.04 0.03 0.02 0.01 0.01 0.01 0.01 0.01 0.00	0.25 -0.02 -0.21 -0.24 -0.23 -0.23 -0.28 -0.35 -0.37 -0.42 -0.49 -0.54 -0.51 -0.51 -0.41 -0.55 -0.40 -0.59	0.00 -0.02 -0.05 -0.07 -0.04 0.00 0.06 0.09 0.14 0.12 0.04 -0.04 -0.09 -0.05 -0.03 -0.03 -0.06 -0.10	0.27 0.00 -0.16 -0.19 -0.17 -0.20 -0.30 -0.36 -0.41 -0.44 -0.48 -0.49 -0.44 -0.37 -0.32 -0.30 -0.25	-0.08 -0.07 -0.06 -0.05 -0.08 -0.09 -0.10 -0.14 -0.15 -0.13 -0.06 -0.01 0.02 0.02 0.01 -0.03 -0.05	0.08 0.07 0.06 0.06 0.05 0.05 0.02 0.01 0.00 0.00 -0.01	0.25 0.28 0.41 0.44 0.40 0.27 0.28 0.34 0.36 0.40 0.42 0.40 0.42 0.40 0.39 0.30	8.04 8.48 9.95 10.20 10.33 8.26 6.24 4.35 3.76 3.10 2.54 1.90 1.26 0.90 0.60 0.53	0.40 0.39 0.70 0.66 0.61 0.03 -0.41 -0.68 -0.66 -0.61 -0.59 -0.57 -0.55 -0.39 -0.31 -0.21	0.40 0.43 0.51 0.56 0.61 0.55 0.49 0.48 0.43 0.41 0.36 0.24 0.12 0.04 0.01	1.10 1.32 1.69 1.76 2.01 1.85 0.63 0.39 0.20 0.11 0.17 0.30 0.32 0.25	0.42 0.52 0.63 0.77 0.82 0.74 0.64 0.59 0.60 0.58 0.55 0.49 0.48 0.47 0.44 0.31	0.51 0.43 0.27 0.09 -0.01 -0.05 -0.05 -0.05 0.00 0.06 0.09 0.04 -0.04 -0.13 -0.16 -0.13 -0.13	-0.05 -0.06 -0.11 -0.15 -0.17 -0.17 -0.07 -0.05 -0.02 -0.01 0.02 0.03 0.02 0.01 -0.01 -0.01 0.00	0.93 0.80 0.84 0.76 0.59 0.57 0.58 0.55 0.52 0.43 0.37 0.35 0.26 0.27 0.22 0.21	$\begin{array}{c} 0.95\\ 0.93\\ 0.97\\ 0.99\\ 1.00\\ 0.97\\ 0.90\\ 0.82\\ 0.73\\ 0.66\\ 0.59\\ 0.51\\ 0.42\\ 0.39\\ 0.39\\ 0.37\\ \end{array}$	0.33 0.34 0.39 0.38 0.36 0.23 0.17 0.16 0.16 0.16 0.17 0.16 0.13 0.10 0.07	-0.06 0.11 0.74 1.26 1.47 0.98 0.45 0.10 0.04 0.06 0.15 0.23 0.19 0.08 0.01 -0.02	3.61 3.88 3.52 3.26 2.76 2.14 1.60 0.97 0.70 0.41 0.23 -0.06 -0.31 -0.63 -0.62 -0.54	0.38 0.41 0.39 0.46 0.49 0.46 0.41 0.37 0.32 0.26 0.22 0.18 0.13 0.08 0.07	-0.10 0.02 0.05 0.17 0.05 0.03 0.02 0.11 0.09 0.03 -0.01 -0.04 -0.05	20.0- 10.0- 00.0 00.0 00.0- 00.0- 00.0- 00.0- 00.0- 00.0- 00.0- 20.0
Sep Oct Nov Dec 2022 Jan Feb Mar Apr May Jun Jun Jun Jun Aug Sep Oct Nov Dec 2023 Jan Feb Mar	8.22 7.44 8.10 8.34 9.90 10.18 10.26 8.05 6.01 4.15 3.57 2.85 2.29 1.74 1.20 0.90 0.51 0.44 0.48	0.06 0.06 0.06 0.06 0.05 0.05 0.05 0.05	0.25 -0.02 -0.21 -0.23 -0.23 -0.23 -0.28 -0.35 -0.37 -0.42 -0.49 -0.54 -0.51 -0.41 -0.51 -0.41 -0.35 -0.39 -0.39 -0.35	0.00 -0.02 -0.05 -0.07 -0.04 0.00 0.06 0.09 0.14 0.12 0.04 -0.04 -0.09 -0.05 -0.03 -0.06 -0.10 -0.13	0.27 0.00 -0.16 -0.19 -0.17 -0.20 -0.30 -0.36 -0.41 -0.44 -0.48 -0.49 -0.44 -0.48 -0.49 -0.44 -0.37 -0.32 -0.30 -0.25 -0.17	-0.08 -0.07 -0.06 -0.05 -0.08 -0.09 -0.10 -0.14 -0.15 -0.13 -0.06 -0.01 0.02 0.02 0.01 -0.03 -0.05 -0.07	0.08 0.07 0.06 0.06 0.05 0.05 0.02 0.01 0.00 0.00 -0.01 -0.01	0.25 0.28 0.41 0.44 0.40 0.27 0.28 0.34 0.36 0.40 0.42 0.40 0.39 0.30 0.30 0.25	8.04 8.48 9.95 10.20 10.33 8.26 6.24 4.35 3.76 3.10 2.54 1.90 1.26 0.90 0.60 0.53 0.58	0.40 0.39 0.70 0.66 0.61 0.03 -0.41 -0.68 -0.66 -0.61 -0.59 -0.57 -0.55 -0.39 -0.57 -0.55 -0.39 -0.31 -0.21 -0.16	0.40 0.43 0.51 0.56 0.61 0.55 0.49 0.48 0.43 0.41 0.36 0.24 0.12 0.04 0.01 -0.01	1.10 1.32 1.69 1.76 2.01 1.85 1.44 0.95 0.63 0.39 0.20 0.11 0.17 0.30 0.32 0.25 0.11	0.42 0.52 0.63 0.77 0.82 0.74 0.64 0.59 0.60 0.58 0.55 0.49 0.48 0.47 0.44 0.31 0.22	0.51 0.43 0.27 0.09 -0.01 -0.05 -0.05 0.00 0.06 0.09 0.04 -0.04 -0.13 -0.16 -0.13 -0.07 -0.07 -0.01	-0.05 -0.06 -0.11 -0.15 -0.17 -0.17 -0.07 -0.05 -0.02 -0.01 0.02 0.03 0.02 0.01 -0.01 0.00 0.02	0.93 0.80 0.84 0.76 0.69 0.57 0.58 0.55 0.52 0.43 0.35 0.26 0.27 0.22 0.21 0.21 0.17	0.95 0.93 0.97 0.99 1.00 0.97 0.90 0.82 0.73 0.66 0.59 0.51 0.42 0.39 0.39 0.37 0.33	0.33 0.34 0.39 0.38 0.36 0.30 0.23 0.17 0.16 0.16 0.16 0.17 0.16 0.13 0.10 0.07 0.05	-0.06 0.11 0.74 1.26 1.47 0.98 0.45 0.10 0.04 0.06 0.15 0.23 0.19 0.08 0.01 -0.02 0.02	3.61 3.88 3.52 3.26 2.76 2.14 1.60 0.97 0.70 0.41 0.23 -0.63 -0.63 -0.62 -0.54 -0.29	0.38 0.41 0.39 0.46 0.49 0.46 0.41 0.37 0.32 0.26 0.22 0.18 0.13 0.08	-0.10 0.02 0.05 0.17 0.05 0.03 0.02 0.11 0.09 0.03 -0.01 -0.04 -0.05 -0.06 -0.05 -0.04	20.0- 10.0- 0.00 0.00 0.00 0.0-
Sep Oct Nov Dec 2022 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec 2023 Jan Feb	8.22 7.44 8.10 8.34 9.90 10.18 10.26 8.05 6.01 4.15 3.57 2.85 2.29 1.74 1.20 0.90 0.51 0.44	0.06 0.06 0.06 0.06 0.05 0.05 0.05 0.04 0.03 0.02 0.01 0.01 0.01 0.01 0.01 0.00	0.25 -0.02 -0.21 -0.24 -0.23 -0.23 -0.28 -0.35 -0.37 -0.42 -0.49 -0.54 -0.51 -0.51 -0.41 -0.55 -0.40 -0.59	0.00 -0.02 -0.05 -0.07 -0.04 0.00 0.06 0.09 0.14 0.12 0.04 -0.04 -0.09 -0.05 -0.03 -0.03 -0.06 -0.10	0.27 0.00 -0.16 -0.19 -0.17 -0.20 -0.30 -0.36 -0.41 -0.44 -0.48 -0.49 -0.44 -0.37 -0.32 -0.30 -0.25	-0.08 -0.07 -0.06 -0.05 -0.08 -0.09 -0.10 -0.14 -0.15 -0.13 -0.06 -0.01 0.02 0.02 0.01 -0.03 -0.05	0.08 0.07 0.06 0.06 0.05 0.05 0.02 0.01 0.00 0.00 -0.01	0.25 0.28 0.41 0.44 0.40 0.27 0.28 0.34 0.36 0.40 0.42 0.40 0.42 0.40 0.39 0.30	8.04 8.48 9.95 10.20 10.33 8.26 6.24 4.35 3.76 3.10 2.54 1.90 1.26 0.90 0.60 0.53	0.40 0.39 0.70 0.66 0.61 0.03 -0.41 -0.68 -0.66 -0.61 -0.59 -0.57 -0.55 -0.39 -0.31 -0.21	0.40 0.43 0.51 0.56 0.61 0.55 0.49 0.48 0.43 0.41 0.36 0.24 0.12 0.04 0.01	1.10 1.32 1.69 1.76 2.01 1.85 0.63 0.39 0.20 0.11 0.17 0.30 0.32 0.25	0.42 0.52 0.63 0.77 0.82 0.74 0.64 0.59 0.60 0.58 0.55 0.49 0.48 0.47 0.44 0.31	0.51 0.43 0.27 0.09 -0.01 -0.05 -0.05 -0.05 0.00 0.06 0.09 0.04 -0.04 -0.13 -0.16 -0.13 -0.13	-0.05 -0.06 -0.11 -0.15 -0.17 -0.17 -0.07 -0.05 -0.02 -0.01 0.02 0.03 0.02 0.01 -0.01 -0.01 0.00	0.93 0.80 0.84 0.76 0.59 0.57 0.58 0.55 0.52 0.43 0.37 0.35 0.26 0.27 0.22 0.21	$\begin{array}{c} 0.95\\ 0.93\\ 0.97\\ 0.99\\ 1.00\\ 0.97\\ 0.90\\ 0.82\\ 0.73\\ 0.66\\ 0.59\\ 0.51\\ 0.42\\ 0.39\\ 0.39\\ 0.37\\ \end{array}$	0.33 0.34 0.39 0.38 0.36 0.23 0.17 0.16 0.16 0.16 0.17 0.16 0.13 0.10 0.07	-0.06 0.11 0.74 1.26 1.47 0.98 0.45 0.10 0.04 0.06 0.15 0.23 0.19 0.08 0.01 -0.02	3.61 3.88 3.52 3.26 2.76 2.14 1.60 0.97 0.70 0.41 0.23 -0.06 -0.31 -0.63 -0.62 -0.54	0.38 0.41 0.39 0.46 0.49 0.46 0.41 0.37 0.32 0.26 0.22 0.18 0.13 0.08 0.07	-0.10 0.02 0.05 0.17 0.05 0.03 0.02 0.11 0.09 0.03 -0.01 -0.04 -0.05	2.0- 2.00- 2.00 2.00 2.00- 2.0

The GVA output is designated as a National Statistic.
 Estimates cannot be regarded as accurate to the last digit shown.
 A complete run of data is available on the ONS website.
 Contributions are based on output GVA growth
 Please use additional caution when aggregating individual contributions from April - September 2020, as the larger-than-usual growth rates mean that, when summed, the rounded contributions may not accurately represent the higher level contribution being calculated.

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

### CONTRIB 2 Monthly GDP based on GVA (Gross Value Added) <sup>1</sup> Contributions to growth of gross value added at basic prices <sup>2,3,4,5</sup>

	<ul> <li>Contributions</li> </ul>	to growth of gr	USS value added	at basic pric	.63								seasonally adjuste										
										Wholesale		Industry section	ns (SIC2007)										Activities of
	Total						Water			and retail:		Accommodation				Professional,	Administrative	Public					household
	GVA at	Agriculture,	Total			Electricity	supply,		Total	repair of		and food	Information	Financial		scientific	and support ac	dministration		Human health	Arts,	Other	as employers
	basic	forestry and	production	Mining &		gas, steam	sewerage		service	motor vehicles	Transport	service	and	and insurance	Real estate	and technical	service	and		and social	entertainment	service	undifferentiate
Section	prices A-T	fishing A	industries B-E	quarrying	Manufacturing C	and air	etc F	Construction	industries G-T	and motorcycles G	and storage H	activities	Communication	activities	activities	activities	activities N	detence O	Education	work activities	and recreation R	activities S	goods and service
2019 weights	1000	7	137	11	99	15	12	64	792	105	40	29	62	82	131	74	51	48	59	76	16	17	
Contributor to growth late		aug manth																					
Contributon to growth, late	est month on previ	ous month																					
	EDKH	EDKI	EDKJ	EDKK	EDKL	EDKM	EDKN	EDKO	EDKP	EDKQ	EDKR	EDKS	EDKT	EDKU	EDKV	EDKW	EDKX	EDKY	EDKZ	EDLA	EDLB	EDLC	EDLD
021 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 Jul	1.03 -0.18	0.01 0.01	-0.21 0.02	-0.06 0.10	-0.07 -0.04	-0.10 -0.07	0.03 0.01	-0.05 -0.04	1.36 -0.18	0.03 -0.14	0.13 0.05	0.32 0.04	-0.03 0.08	-0.02 -0.06	0.02 -0.08	0.30 -0.10	0.10 0.07	0.01 0.02	0.18 -0.02	0.49 -0.12	0.00 0.04	-0.06 0.02	0.01 -0.02
Aug	0.86	0.01	0.02	0.10	-0.04	-0.07	-0.01	-0.02	0.82	-0.03	0.05	0.33	0.04	0.00	0.00	0.04	0.03	0.02	-0.02	0.12	0.04	0.02	-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
022 Jan	0.16	0.00	0.00	0.04	-0.07	0.03	0.00	0.06	0.10	0.12	0.01	0.16	0.26	-0.10	0.00	-0.03	0.01	0.01	-0.04	-0.45	0.00	0.04	0.00
Feb	-0.07	0.01	-0.04	0.00	-0.04	0.00	0.00 0.01	0.00	-0.03	-0.14	0.02 0.06	0.21	0.10	-0.04	-0.05	0.05 0.07	0.09	0.00	-0.04	-0.29	0.02 0.07	-0.04	-0.0
Mar Apr	0.08 -0.03	0.00 0.00	-0.01 -0.05	0.00 -0.02	0.01 -0.06	-0.02 0.02	0.01	0.12 -0.01	-0.04 0.04	-0.20 0.17	-0.02	0.02	-0.09 0.03	-0.01 0.01	0.02 0.03	-0.03	0.02 0.06	0.00 0.00	-0.01 0.07	0.03 -0.42	0.07	-0.01 -0.02	-0.01 0.00
May	0.82	0.00	0.03	0.02	0.03	0.02	-0.02	0.14	0.68	-0.10	0.02	0.04	0.08	0.03	0.03	0.20	0.00	0.00	0.02	0.36	-0.03	0.02	0.00
Jun	-0.74	0.00	-0.13	-0.02	-0.12	-0.01	0.02	-0.15	-0.43	-0.07	-0.05	0.07	-0.03	0.03	-0.01	-0.08	-0.14	0.02	0.02	-0.22	0.00	-0.01	0.0
Jul	0.37	0.00	-0.05	0.05	-0.06	-0.01	-0.03	0.07	0.36	0.05	0.10	-0.04	0.01	0.02	0.01	0.00	0.07	0.02	0.08	0.01	0.04	-0.01	-0.0
Aug	0.00	0.00	-0.15	-0.07	-0.07	-0.01	0.00	0.03	0.15	0.02	0.05	-0.08	0.08	-0.03	0.00	0.05	0.05	0.03	0.02	0.08	-0.06	-0.03	-0.0
Sep	-0.74	0.00	0.01	0.01	0.00	0.00	0.01	-0.01	-0.76	-0.21	-0.02	-0.03	-0.19	-0.09	-0.01	-0.10	-0.08	0.01	-0.04	0.04	-0.03	0.01	0.00
Oct	0.68	0.00	0.04	0.00	0.10	-0.04	-0.02	0.04	0.60	0.20	-0.02	0.02	0.05	0.00	0.04	0.08	0.11	0.00	-0.01	0.06	0.09	0.00	0.00
Nov	0.19	0.00	0.00	0.02	-0.05	0.00	0.02	0.01	0.18	0.00	-0.07	0.04	0.21	-0.01	-0.05	-0.04	0.11	0.00	-0.02	0.02	-0.04	0.00	0.00
Dec	-0.52	0.00	0.03	-0.04	0.01	0.05	0.01	0.05	-0.62	-0.05	-0.12	-0.02	0.00	0.02	-0.02	0.07	0.00	0.00	-0.17	-0.29	-0.09	-0.01	0.00
2023 Jan	0.45	0.00	-0.03	-0.04	0.04	-0.04	-0.01	-0.11	0.60	0.09	0.10	-0.01	0.06	0.02	0.01	-0.02	0.06	0.00	0.14	0.09	0.07	0.02	0.00
Feb	0.08	0.00	-0.02	0.02	0.01	-0.04	-0.01	0.16	-0.08	-0.03	-0.02	0.01	-0.02	0.01	0.00	-0.02	0.02	-0.05	-0.10	0.05	0.03	0.03	0.00
Mar Apr	-0.25 0.16	0.00 0.00	0.11 -0.03	-0.03 -0.02	0.07 -0.01	0.05 0.02	0.02 0.00	-0.01 -0.06	-0.35 0.25	-0.15 0.13	-0.06 0.00	-0.01 0.06	-0.07 0.09	-0.01 -0.01	0.01 -0.02	0.00 -0.03	-0.05 0.05	0.00 0.01	0.01 0.03	-0.05 -0.06	0.02 0.00	-0.02 0.01	0.00 0.00
May	-0.09	0.00	-0.03	0.02	-0.02	-0.02	-0.02	-0.01	0.00	-0.05	0.00	-0.03	0.03	-0.02	-0.02	0.00	-0.04	0.01	0.03	0.09	0.00	-0.02	0.00
Contribution to growth, la	atest month on sar	ne month a vear	300																				
oonanbaalon to growal, la	EDLE	-	-	EDLH	5011	EDLJ		EDLL	EDLM		EDLO	EDLP				EDLT	50111	EDI V		EDLX			EDMA
	EDLE	EDLF	EDLG	EDLH	EDLI	EDLJ	EDLK	EDLL	EDLM	EDLN	EDLO	EDLP	EDLQ	EDLR	EDLS	EDLI	EDLU	EDLV	EDLW	EDLX	EDLY	EDLZ	EDIMA
2021 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 7.99	0.07 0.07	0.78	-0.16 0.02	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 -0.04
Aug Sep	7.99	0.06	0.58 0.23	0.02	0.56 0.24	-0.05 -0.09	0.07 0.07	0.48 0.31	6.95 7.01	0.13 0.25	0.34 0.36	0.41 0.68	0.53 0.38	0.45 0.45	-0.01 -0.03	1.04 1.03	0.76 0.89	0.27 0.32	0.44 -0.08	3.25 3.36	0.34 0.34	-0.19 -0.13	-0.04
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	-0.03	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	11.61	0.06	-0.13	-0.04	-0.08	-0.08	0.07	0.58	11.40	1.13	0.65	1.90	0.73	0.06	-0.22	0.90	1.02	0.39	1.68	3.20	0.41	0.20	0.00
Feb	10.80	0.06	-0.22	0.03	-0.21	-0.10	0.05	0.36	10.93	0.65	0.61	2.06	0.95	0.00	-0.16	0.73	1.11	0.36	1.71	2.77	0.44	0.16	0.00
Mar	8.42	0.05	-0.33	0.02	-0.31	-0.09	0.05	0.29	8.69	0.08	0.58	2.05	0.77	-0.08	-0.13	0.45	0.88	0.33	1.02	2.33	0.54	0.17	0.01
Apr	5.10	0.05	-0.27	0.14	-0.38	-0.11	0.08	0.19	5.32	-0.61	0.50	1.46	0.51	-0.06	-0.06	0.54	0.92	0.21	0.26	1.37	0.49	-0.15	-0.0
May	4.60 2.77	0.04	-0.45	0.11	-0.40	-0.22	0.04 0.03	0.38	4.80 2.97	-0.67	0.58	0.83 0.57	0.63	0.00	-0.03	0.75 0.36	0.90	0.15	0.11 -0.05	1.12	0.36	0.08	-0.03 -0.03
Jun		0.03	-0.37	0.17	-0.45	-0.12		0.26		-0.76	0.39		0.62	0.05	-0.06		0.65	0.16		0.44	0.36	0.13	
Jul Aug	3.33 2.46	0.02 0.01	-0.44 -0.66	0.09 -0.13	-0.47 -0.53	-0.05 0.00	-0.01 0.00	0.37 0.43	3.52 2.82	-0.57 -0.51	0.45 0.45	0.50 0.08	0.55 0.58	0.12 0.09	0.03 0.01	0.47 0.48	0.65 0.67	0.16 0.17	0.06 0.18	0.55 0.25	0.37 0.24	0.10 0.03	-0.02 -0.0
Sep	1.10	0.01	-0.52	-0.09	-0.48	0.02	0.03	0.39	1.30	-0.69	0.33	0.03	0.53	-0.08	0.01	0.17	0.45	0.15	0.22	-0.11	0.19	-0.04	-0.01
Oct	1.65	0.01	-0.34	-0.05	-0.31	0.05	-0.02	0.45	1.59	-0.53	0.31	0.21	0.35	-0.14	0.06	0.40	0.41	0.19	0.28	-0.34	0.24	-0.03	-0.02
Nov	0.85	0.01	-0.37	-0.01	-0.33	-0.03	0.00	0.36	0.90	-0.43	0.10	0.26	0.56	-0.18	0.00	0.19	0.41	0.12	0.08	-0.47	0.13	-0.06	-0.02
Dec	0.20	0.00	-0.34	-0.03	-0.32	0.01	0.00	0.36	0.21	-0.22	-0.04	0.43	0.49	-0.17	-0.03	0.22	0.36	0.10	-0.12	-1.07	0.03	-0.06	-0.03
	0.49	0.00	-0.41	-0.14	-0.23	-0.07	-0.01	0.19	0.71	-0.26	0.05	0.26	0.28	-0.05	-0.01	0.23	0.40	0.08	0.06	-0.47	0.10	-0.08	-0.02
		0.00	-0.38	-0.11	-0.17	-0.11	-0.02	0.34	0.67	-0.14	0.02	0.06	0.17	0.01	0.04	0.17	0.33	0.03	0.00	-0.17	0.10	-0.02	-0.0
Feb	0.63																						
Feb Mar	0.30	0.00	-0.26	-0.15	-0.11	-0.03	0.00	0.21	0.35	-0.08	-0.11	0.02	0.20	0.01	0.03	0.10	0.26	0.03	0.01	-0.24	0.05	-0.02	
Feb															0.03 -0.02 -0.07	0.10 0.10 -0.10	0.26 0.26 0.15		0.01 -0.01 0.00	-0.24 0.07 -0.16			0.00 -0.01 -0.02

seasonally adjusted 2019=100

The GVA output is designated as a National Statistic.
 Estimates cannot be regarded as accurate to the last digit shown.
 A complete run of data is available on the ONS website.
 Contributions are based on output GVA growth
 Please use additional caution when aggregating individual contributions from April - September 2020, as the larger-than-usual growth rates mean that, when summed, the rounded contributions may not accurately represent the higher level contribution being calculated.

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