Statistical bulletin

GDP monthly estimate, UK: October 2019

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.

Correction

11 December 2019 13:25

The original version of this release contained a minor error in section 7 of the text where the infrastructure growth rate was 4.3% and has now been corrected to 6.3%.

None of the data tables were affected.
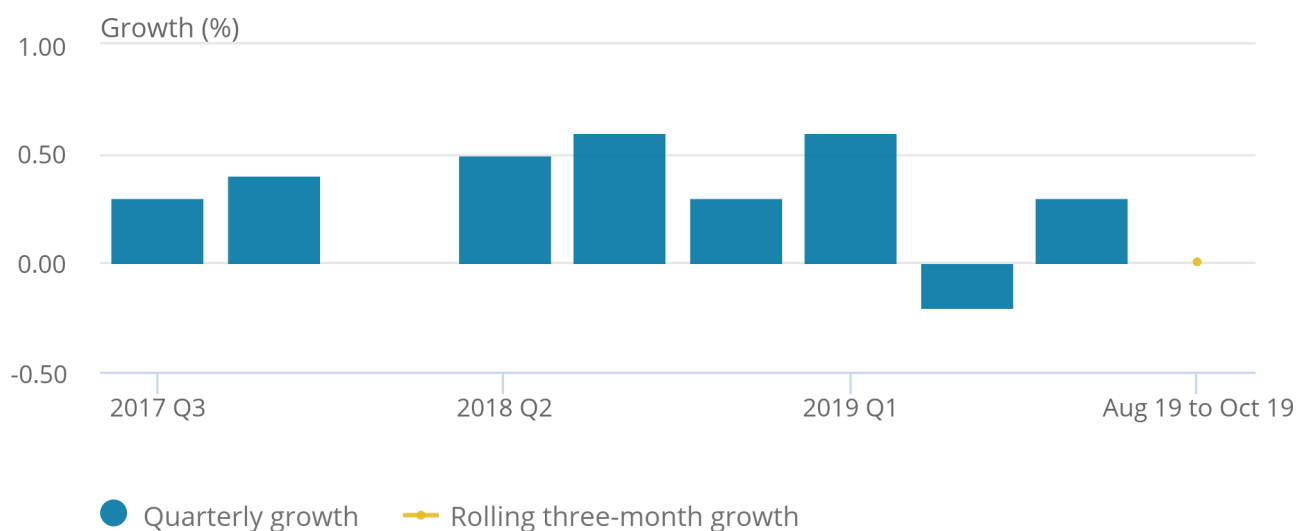
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1 . UK GDP was flat in the three months to October 2019

Figure 1: Rolling three-month GDP showed no growth in October 2019 after growth of 0.3% in Quarter 3 (July to Sept) 2019

UK GDP growth, Quarter 3 2017 until August to October 2019

Figure 1: Rolling three-month GDP showed no growth in October 2019 after growth of 0.3% in Quarter 3 (July to Sept) 2019

UK GDP growth, Quarter 3 2017 until August to October 2019

Source: Office for National Statistics – GDP monthly estimate

Notes:

1. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept), Q4 refers to Quarter 4 (Oct to Dec).

2. Rolling three-month estimates are calculated by comparing GDP in a three-month period with GDP in the previous three-month period. For example, GDP in August to October compared with the previous May to July

Commenting on today's GDP figures for the 3 months to October, an ONS Spokesperson said:

"The UK economy saw no growth in the latest three months. There were increases across the services sector, offset by falls in manufacturing with factories continuing the weak performance seen since April.

Construction also declined across the last three months with a notable drop in house building and infrastructure in October."

2 . The services sector was the main driver to GDP growth in the three months to October 2019

Table 1: The services sectors contributed positively to GDP growth in the three months to October 2019, whereas the production and construction sectors had negative contributions

	Three-month growth (%)	Contribution to growth (percentage points)
Index of Services	0.2	0.17
Index of Production	-0.7	-0.1
Construction	-0.3	-0.02

Source: Office for National Statistics - GDP monthly estimate

The services sector was the only positive contributor to gross domestic product (GDP) growth in the three months to October 2019, growing by 0.2%. Output in both the production and construction sectors contracted, by 0.7% and 0.3%, respectively. The weakness seen in construction was predominantly driven by a fall of 2.3% in October.

3 . Rolling three-month growth was 0.0% in the three months to October 2019

Figure 2: Rolling three-month growth was flat in the three months to October 2019, following growth of 0.3% in Quarter 3 (July to Sept) 2019

Growth, three-months on previous three-months, September to November 2018 until August to October 2019

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Growth, three-months on previous three-months, September to November 2018 until August to October 2019

Rolling three-month growth (%)

1.00				
0.50				
0.00				
-0.50				
	Nov 2018 - Jan 2019	Feb - Apr 2019	May - July 2019	Aug - Oct 2019

Source: Office for National Statistics – GDP monthly estimate

Notes:

1. Rolling three-month estimates are calculated by comparing GDP in a three-month period with GDP in the previous three-month period. For example, GDP in August to October compared with the previous May to July.

Rolling three-month growth was flat in October 2019, following growth of 0.3% in Quarter 3 (July to Sept) 2019. Growth has been volatile over the last year, in part as a result of changes to the timing of activity in anticipation of the UK's original planned departure from the EU at the end of March 2019.

Rolling three-month growth is based on output gross value added (GVA) and so there will be discrepancies in the time series with our quarterly estimates of gross domestic product (GDP), which include information on the expenditure and income approaches to measuring GDP.

4 . GDP was flat in October 2019

Table 2: Breakdown of GDP and its components' growth rates by month

	August 2019	September 2019	October 2019
GDP	-0.2	-0.1	0.0
Index of Services	-0.1	0	0.2
Index of Production	-0.7	-0.3	0.1
Manufacturing	-0.7	-0.4	0.2
Construction	0.1	-0.2	-2.3
Agriculture	-0.1	-0.2	0.1

Source: Office for National Statistics - GDP monthly estimate

Monthly gross domestic product (GDP) growth was 0.0% in October 2019, with growth in services and production offset by a notable fall in construction, which had its lowest level of output since January 2018.

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

5 . The services sector grew by 0.2% in the three months to October 2019

Figure 3: The professional, scientific and technical activities sector was one of the largest contributors to both monthly and rolling three-month growth in October 2019

Rolling three-month index, September to November 2017 until August to October 2019, September to November 2017 = 100

Figure 3: The professional, scientific and technical activities sector was one of the largest contributors to both monthly and rolling three-month growth in October 2019

Rolling three-month index, September to November 2017 until August to October 2019, September to November 2017 = 100
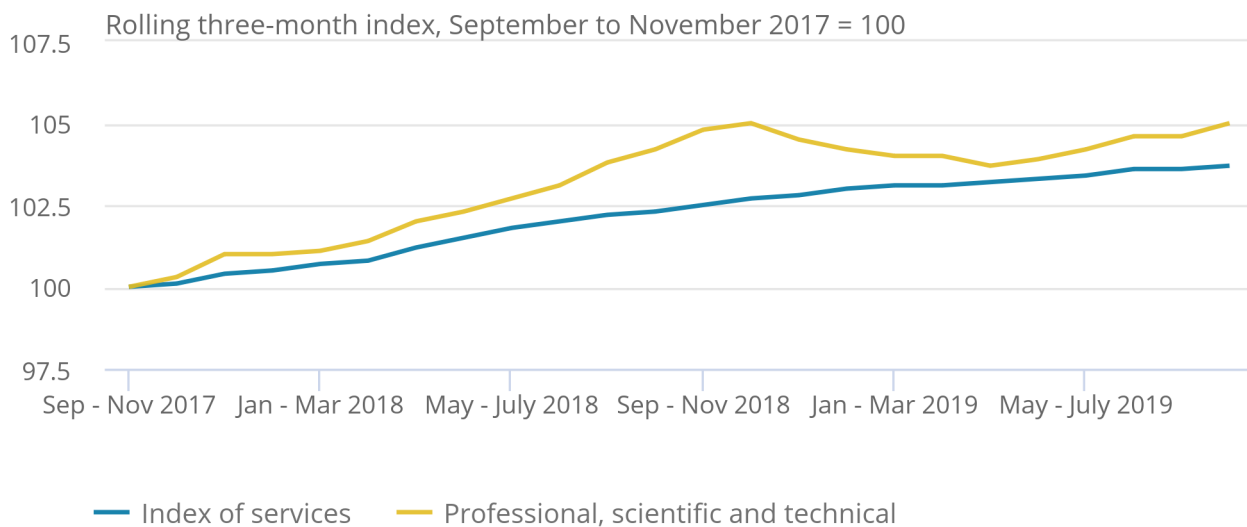
Source: Office for National Statistics – GDP monthly estimate

Notes:

1. Rolling three-month estimates are calculated by comparing GDP in a three-month period with GDP in the previous three-month period. For example, GDP in August to October compared with the previous May to July.

Growth in the services sector slowed in the three months to October 2019 to 0.2%, following growth of 0.4% in the three months to September 2019. This growth was driven by strength in professional, scientific and technical activities, wholesale trade and health, and was partially offset by weakness in office administrative and support activities.

Services also grew by 0.2% in October, with widespread growth in several industries. The most notable of these were real estate activities and professional, scientific and technical activities, which both contributed 0.06 percentage points to gross domestic product (GDP) growth. The latter was driven by strength in both architectural and engineering activities, and research and development.

Professional, scientific and technical activity has picked up in recent months following falls in the early part of 2019. However, this industry has outperformed services as a whole over the last two years, as shown in Figure 3.

6 . The production sector fell by 0.7% in the three months to October 2019

Figure 4: There has been a longer-term weakening in both production and manufacturing

Rolling three-month index, September to November 2017 until August to October 2019, September to November 2017 = 100

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Rolling three-month index, September to November 2017 until August to October 2019, September to November 2017 = 100

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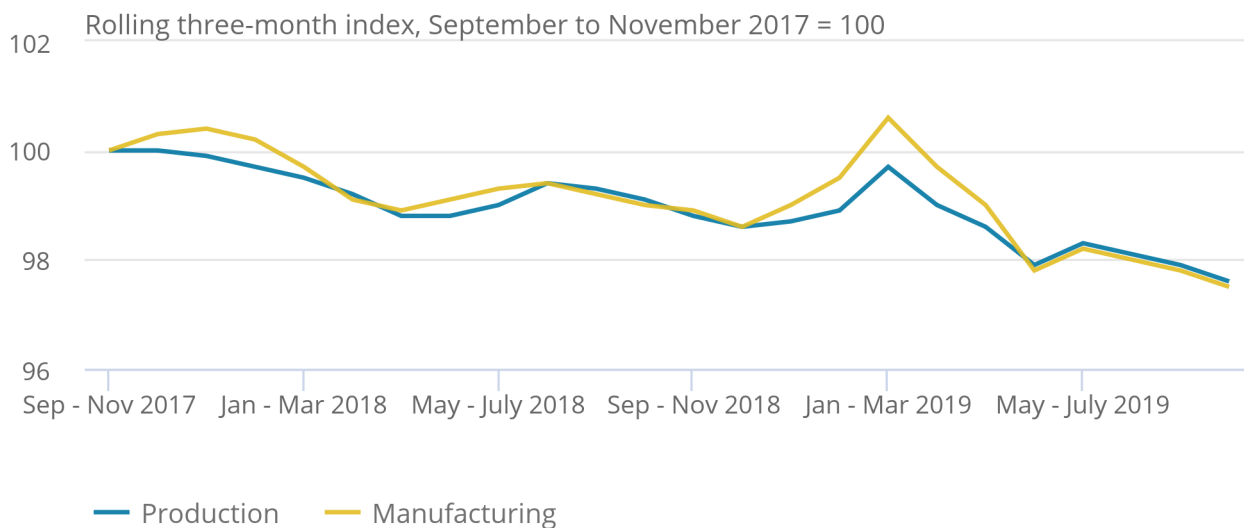
Source: Office for National Statistics – GDP monthly estimate

Notes:

1. Rolling three-month estimates are calculated by comparing GDP in a three-month period with GDP in the previous three-month period. For example, GDP in August to October compared with the previous May to July.

The production sector fell by 0.7% in the three months to October 2019, with widespread falls across several manufacturing industries. Figure 4 shows there has been a longer-term weakening in both production and manufacturing.

Production grew by 0.1% in October, driven by energy production, which grew by 2.4% as a result of below-average temperatures. Manufacturing also grew by 0.2% on the month, with the largest positive contributions coming from pharmaceuticals and food production. These industries were also the main contributors to growth in March 2019 ahead of the UK's original planned date to exit the European Union, as shown in Figure 5.

Figure 5: Pharmaceuticals and food production were the main contributors to production growth in the manufacturing sector in both March and October 2019

Contributions to production growth, March and October 2019

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Contributions to production growth, March and October 2019

% points contribution

● March 2019   ● October 2019
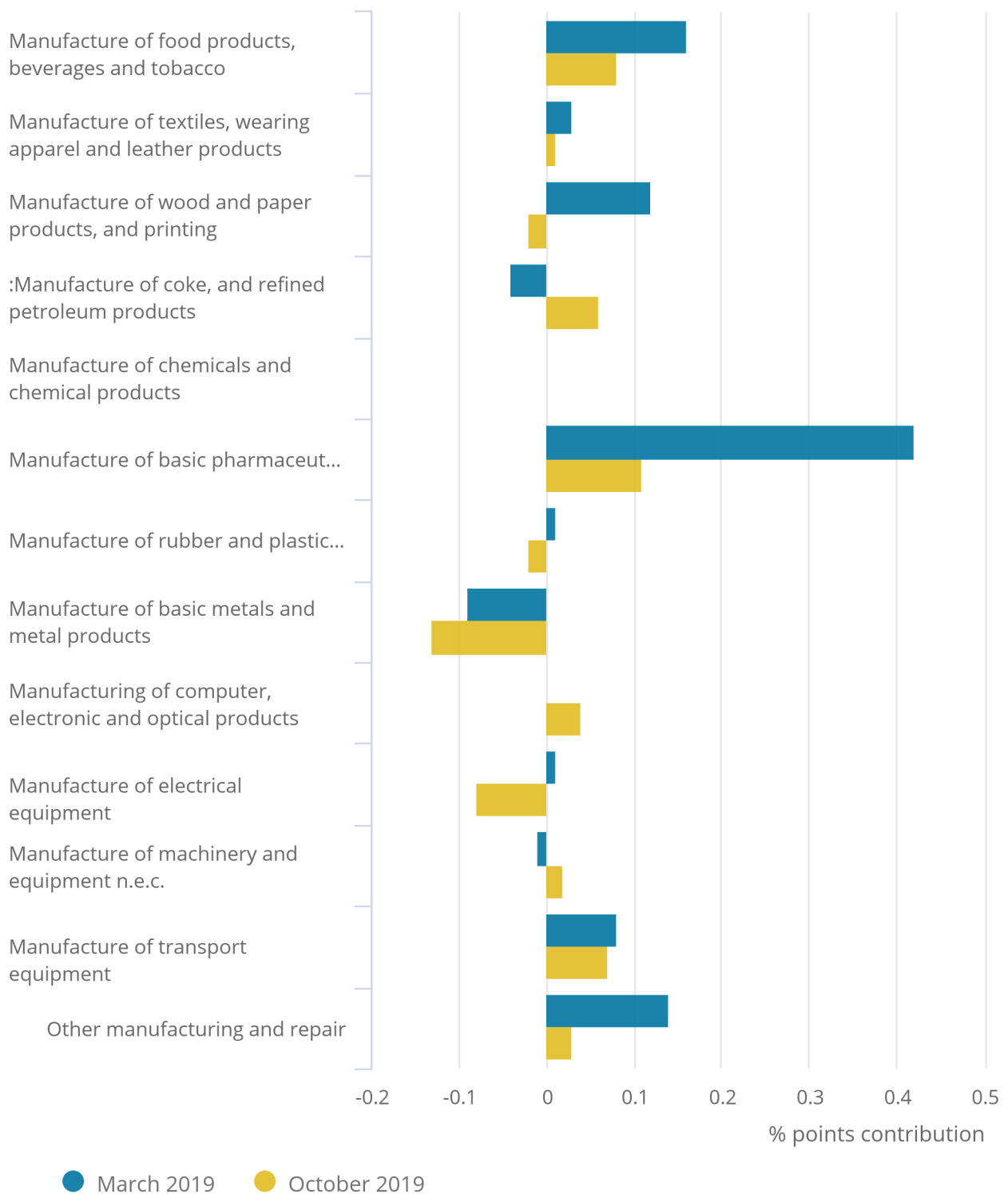
Source: Office for National Statistics – GDP monthly estimate

7 . Output in the construction industry fell by 0.3% in the three months to October 2019

Figure 6: The construction sector fell by 2.3% in October 2019

Monthly growth, November 2018 to October 2019

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Monthly growth, November 2018 to October 2019
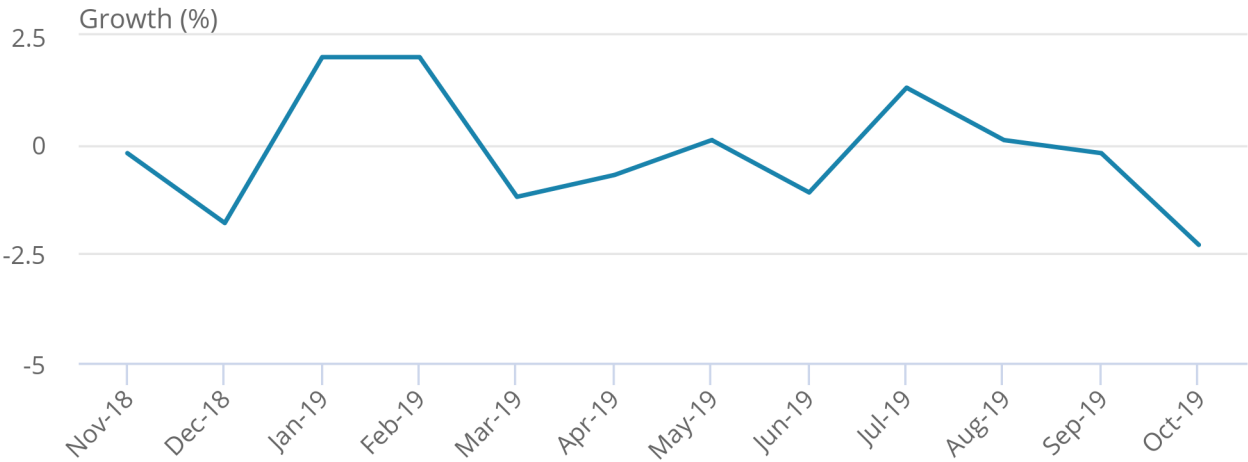
Source: Office for National Statistics – GDP monthly estimate

Rolling three-month growth in construction was negative 0.3% in the three months to October 2019. This fall was driven by private housing repair and maintenance, and private new housing, which fell by 3.6% and 1.0%, respectively.

The month-on-month growth in October was negative 2.3%. This decrease was driven by private new housing and infrastructure, which fell by 4.7% and 6.3%, respectively. The fall in infrastructure is as a result of several large businesses changing the timing of some of their regular activity from July to October.

8 . Related links

Construction output in Great Britain: October 2019 and new orders July to September 2019
Bulletin | Released 10 December 2019
Short-term measures of output by the construction industry in Great Britain and contracts awarded for new construction work in the UK.

Index of Production, UK: October 2019
Bulletin | Released 10 December 2019
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: October 2019
Bulletin | Released 10 December 2019
Monthly movements in output for the services industries.

GVA1

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

seasonally adjusted 2016=100

Industry sections (SIC2007)

	Total GVA at basic prices	Agriculture, forestry and fishing	Total production industries	Mining & quarrying	Manufacturing	Electricity gas, steam and air	Water supply, sewerage etc	Construction [6]	Total service industries	Wholesale and retail: repair of motor vehicles and motorcycles	Transport and storage	Accommodation and food service activities	Information and Communication	Financial and insurance activities	Real estate activities	Professional, scientific and technical activities	Administrative and support service activities	Public administration and defence	Education	Human health and social work activities	Arts, entertainment and recreation	Other service activities	Activities of households as employers, undifferentiated goods and services
Section	A-T	A	B-E	B	C	D	E	F	G-T	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
2016 weights	1000	7	138	10	100	17	10	60	796	104	43	30	63	73	138	75	48	75	47	75	15	21	4
	YBFR	L2KL	L2KQ	L2KR	L2KX	L2MW	L2N2	L2N8	L2NC	L2NE	L2NI	L2NQ	L2NT	L2O6	L2OC	L2OI	L2OX	L2P8	L2PA	L2PC	L2PJ	L2PP	L2PT
2014	96.0	104.8	97.9	97.0	99.9	94.3	89.2	92.5	95.9	92.3	100.4	94.4	89.8	100.1	95.4	92.3	93.4	104.5	99.7	96.8	100.9	102.3	83.8
2015	98.1	105.9	98.9	102.0	99.8	96.4	93.3	96.2	98.0	95.9	101.3	98.5	94.8	96.3	98.0	96.7	98.1	102.0	100.8	98.4	101.6	106.5	84.0
2016	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2017	102.0	105.7	101.7	101.7	102.2	98.2	102.0	106.4	101.7	102.5	101.8	102.4	104.8	99.1	99.0	104.5	104.0	100.8	101.2	101.0	103.2	101.1	101.6
2018	103.7	101.5	101.9	106.6	102.6	96.4	100.2	106.0	103.8	105.6	103.1	104.3	109.4	99.0	100.4	109.3	107.9	101.6	101.7	102.4	105.0	101.6	112.2
	ECY2	ECY3	ECY4	ECY5	ECY6	ECY7	ECY8	ECY9	ECYC	ECYD	ECYG	ECYH	ECYI	ECYJ	ECYK	ECYL	ECYP	ECYQ	ECYR	ECYS	ECYT	ECYU	ECYV
2017 Oct	102.3	105.7	103.0	106.8	103.8	96.7	102.2	104.8	101.9	103.0	102.4	101.7	106.6	98.0	99.0	105.6	105.7	100.8	101.0	100.3	103.9	101.7	101.0
Nov	102.6	105.4	103.0	108.0	103.5	98.2	101.8	107.0	102.2	103.3	101.8	102.2	106.5	98.1	99.2	106.6	106.5	101.0	101.0	100.6	103.3	101.1	100.7
Dec	102.9	105.0	102.8	87.1	104.2	100.6	101.8	109.6	102.4	102.9	101.9	102.6	108.1	98.3	99.2	107.1	107.3	101.0	101.0	101.0	104.3	100.5	101.4
2018 Jan	103.0	102.8	102.4	103.8	103.8	95.1	99.2	106.3	102.8	103.4	101.8	102.4	106.4	99.3	100.1	107.9	107.6	100.8	100.9	102.2	104.3	102.7	108.6
Feb	102.7	102.0	102.5	101.8	103.1	100.9	100.0	105.0	102.5	103.9	101.0	101.3	105.5	99.7	100.2	106.6	105.9	100.7	101.0	102.2	103.1	101.3	109.6
Mar	102.7	101.6	102.2	98.7	102.6	103.1	99.4	103.1	102.8	103.0	100.4	102.4	107.4	99.5	100.3	107.5	106.6	100.7	101.2	102.1	103.7	103.1	112.7
Apr	103.1	101.4	101.6	107.7	102.0	98.9	98.6	104.4	103.2	104.1	101.4	103.3	107.8	99.4	100.4	108.6	107.3	100.8	101.5	102.0	104.4	102.8	112.9
May	103.4	101.2	101.1	106.2	102.3	91.7	99.2	105.7	103.6	106.0	102.6	104.1	108.1	99.3	100.5	108.5	107.2	101.1	101.6	101.9	105.0	102.7	112.2
Jun	103.8	100.9	102.1	105.7	103.2	93.1	101.8	106.6	103.9	105.9	103.3	105.1	109.0	99.2	100.4	108.5	108.9	101.6	101.6	102.0	106.0	103.1	111.2
Jul	104.0	100.6	102.3	110.8	102.7	96.4	102.2	106.6	104.1	107.0	103.6	105.3	108.8	99.2	100.4	109.9	108.3	102.1	101.5	102.2	105.1	102.3	111.7
Aug	104.1	100.7	102.4	111.6	102.8	96.4	101.6	106.3	104.3	106.9	103.9	104.3	110.9	99.0	100.3	109.9	107.8	102.4	101.5	102.5	105.8	102.3	112.7
Sep	104.1	101.3	101.7	108.1	102.5	94.2	100.7	107.5	104.3	106.2	103.6	104.2	112.4	98.9	100.3	110.5	107.5	102.3	101.8	102.9	105.6	100.9	113.9
Oct	104.4	101.9	101.7	110.7	102.1	96.5	100.1	107.8	104.6	106.8	104.9	105.5	110.9	98.6	100.5	111.4	109.1	102.1	102.3	102.9	105.3	100.7	114.1
Nov	104.6	102.0	101.6	107.6	102.4	95.7	99.5	107.5	104.9	108.0	105.3	106.5	111.9	98.0	100.4	111.8	109.7	102.0	102.8	103.1	104.8	99.4	113.9
Dec	104.3	101.0	101.0	106.6	101.8	94.4	99.7	105.6	104.8	106.6	105.4	106.9	113.5	97.6	100.5	111.1	108.5	102.4	103.2	103.6	106.5	98.3	112.5
2019 Jan	104.8	100.6	102.0	104.9	103.2	96.0	98.6	107.8	105.1	108.0	105.3	106.9	114.7	97.1	100.6	110.9	110.0	102.9	103.4	103.3	106.3	98.6	111.0
Feb	105.1	100.0	102.3	107.9	103.9	91.5	99.1	109.9	105.2	108.2	105.2	106.7	114.9	96.5	100.7	110.7	110.6	103.4	103.6	103.5	106.5	98.3	108.8
Mar	105.1	99.9	103.2	109.2	105.1	90.9	99.8	108.5	105.2	108.5	105.2	106.3	114.8	96.2	100.8	110.4	110.1	103.7	103.9	103.6	107.0	98.2	106.2
Apr	104.6	99.7	100.0	106.6	100.6	94.0	99.2	107.7	105.2	108.5	105.1	106.0	115.9	95.9	100.9	109.9	109.9	103.7	104.1	103.8	105.6	97.3	105.4
May	104.8	99.8	101.1	106.6	101.6	94.9	100.9	107.9	105.3	108.5	104.6	105.5	116.0	96.2	101.1	109.9	110.5	103.7	104.3	104.0	104.4	97.1	103.5
Jun	105.0	99.8	101.1	106.4	101.3	97.4	101.1	106.7	105.5	108.1	104.1	107.7	117.1	96.6	101.0	111.0	109.7	103.6	104.5	104.2	106.1	97.1	101.6
Jul	105.3	99.7	101.2	104.5	101.8	95.6	101.4	108.1	105.8	108.5	105.7	106.8	117.8	96.8	101.0	110.9	111.2	103.6	104.8	104.4	104.8	98.2	102.5
Aug	105.1	99.6	100.5	103.4	101.1	94.6	101.6	108.2	105.7	108.9	104.5	105.6	116.5	97.0	101.1	111.1	109.7	103.6	104.9	104.7	106.4	99.2	103.9
Sep	105.0	99.4	100.3	105.2	100.7	94.0	101.7	108.0	105.7	108.6	103.9	105.2	118.2	96.7	101.2	111.1	109.2	103.7	104.7	104.9	104.0	98.8	105.2
Oct	105.1	100.4	100.8		100.9	96.3	100.6	105.5	105.9	109.1	104.9	104.6	118.0	96.3	101.7	111.9	109.0	103.7	105.2	105.0	103.1	98.4	106.3

Percentage change, latest year on previous year

	GDPQ	L3BB	L3BG	L3BH	L3BN	L3DM	L3DQ	L3DW	L3E2	L3E4	L3E8	L3EG	L3EJ	L3EU	L3F2	L3F8	L3FN	L3FW	L3FY	L3G2	L3G9	L3GF	L3GJ
2014	2.6	13.9	1.6	-0.3	2.9	-4.4	0.6	10.0	2.1	4.1	3.6	1.2	0.0	-1.0	1.8	4.4	8.4	-3.2	0.1	1.7	3.8	9.7	-4.7
2015	2.2	1.0	1.0	5.1	-0.1	2.2	4.6	4.0	2.2	3.9	0.9	4.4	5.6	-3.8	2.8	4.8	5.0	-2.4	1.1	1.7	0.8	4.0	0.3
2016	1.9	-5.5	1.1	-2.0	0.2	3.7	7.1	3.9	2.0	4.2	-1.3	1.5	5.4	3.8	2.0	3.4	1.9	-1.9	-0.8	1.6	-1.6	-6.1	19.0
2017	2.0	5.7	1.7	1.7	2.2	-1.8	2.0	6.4	1.7	2.5	1.8	2.4	4.8	-0.9	-1.0	4.5	4.0	0.8	1.2	1.0	3.2	1.1	1.6
2018	1.6	-4.0	0.1	4.8	0.4	-1.9	-1.8	-0.4	2.1	3.1	1.3	1.9	4.4	-0.2	1.3	4.6	3.7	0.8	0.5	1.4	1.7	0.5	10.4

Percentage change, latest 3 months on previous 3 months

	ED3H	ED3I	ED3J	ED3K	ED3L	ED3M	ED3N	ED3O	ED3P	ED3Q	ED3R	ED3S	ED3T	ED3U	ED3V	ED3W	ED3X	ED3Y	ED3Z	ED42	ED43	ED44	ED9R
2017 Oct	0.4	0.4	1.2	1.6	1.5	-0.7	0.8	0.2	0.3	0.8	0.7	-1.1	1.1	-0.9	0.0	1.4	1.4	-0.3	0.0	-0.6	0.9	1.1	-0.8
Nov	0.4	-0.2	1.5	3.4	1.7	-0.5	1.2	0.0	0.3	0.5	0.8	-0.9	0.9	-1.0	0.1	1.4	1.8	0.0	0.0	-0.5	1.0	0.2	-2.5
Dec	0.5	-1.0	1.1	-2.6	1.5	-0.2	0.6	0.7	0.4	0.3	0.4	-0.3	1.4	-0.8	0.3	1.1	2.1	0.2	-0.2	-0.4	1.2	-0.9	-3.6
2018 Jan	0.6	-1.7	0.3	-4.7	0.8	-0.1	-0.5	1.5	0.5	0.2	-0.1	0.7	0.8	0.1	0.6	1.5	2.1	0.2	-0.2	0.5	0.7	-1.0	0.3
Feb	0.4	-2.5	-0.3	-8.5	0.2	0.9	-1.5	0.8	0.5	0.2	-0.5	0.4	0.1	0.9	0.9	1.0	1.1	0.0	-0.2	1.1	0.5	-0.3	4.3
Mar	0.2	-3.0	-0.5	0.8	-0.7	1.2	-2.3	-2.2	0.5	0.3	-1.0	-0.1	-0.6	1.4	1.1	0.8	0.2	-0.2	0.0	1.5	-0.2	1.2	9.1
Apr	0.0	-2.6	-0.6	3.1	-1.2	3.0	-1.6	-3.2	0.4	0.5	-0.0	-0.1	-0.1	1.0	0.8	0.3	-0.5	-0.2	0.3	0.9	-0.2	1.0	7.9
May	0.2	-1.8	-0.9	6.8	-1.3	-1.0	-1.3	-2.4	0.6	1.0	-0.1	1.1	1.1	0.3	0.8	1.0	0.1	0.0	0.5	0.2	0.5	1.4	5.7
Jun	0.6	-0.9	-0.7	5.0	-0.6	-5.1	0.3	0.7	0.8	1.9	1.3	2.1	1.8	-0.2	0.2	1.1	1.0	0.5	0.5	-0.2	1.4	0.5	1.7
Jul	0.9	-0.8	-0.2	4.7	0.2	-7.1	1.8	2.0	1.0	2.5	2.2	2.4	1.7	-0.3	0.1	1.3	1.4	0.9	0.3	-0.1	1.6	0.3	0.0
Aug	0.9	-0.7	0.6	5.0	0.6	-2.6	2.8	2.0	0.9	2.1	2.1	1.6	1.7	-0.3	0.0	1.1	1.2	1.2	0.1	0.2	1.2	-0.3	-0.6
Sep	0.7	-0.3	0.5	3.4	0.1	1.2	1.6	1.2	0.6	1.3	1.2	0.4	2.2	-0.3	-0.1	1.4	0.1	1.1	0.1	0.5	0.3	-1.0	0.6
Oct	0.5	0.4	0.1	2.4	-0.3	2.1	-0.2	0.9	0.5	0.3	1.0	-0.1	2.5	-0.4	-0.1	1.5	0.0	0.6	0.3	0.7	0.2	-1.4	1.7
Nov	0.4	1.0	-0.6	-0.5	-0.6	0.1	-1.7	1.0	0.5	0.4	1.0	0.5	1.9	-0.6	0.0	1.7	0.4	0.1	0.8	0.7	-0.4	-2.2	1.9
Dec	0.3	0.8	-0.7	-1.7	-0.6	-0.2	-1.7	0.2	0.5	0.4	1.5	1.6	1.2	-1.0	0.1	1.2	1.2	-0.1	1.1	0.6	0.0	-2.4	0.6
2019 Jan	0.3	-0.1	-0.4	-3.4	0.0	-0.3	-1.6	-0.2	0.5	0.9	1.1	2.0	1.7	-1.3	0.1	0.3	1.2	0.2	1.2	0.5	0.2	-2.5	-1.0
Feb	0.3	-1.2	0.1	-2.1	0.6	-1.5	-1.0	0.1	0.4	0.6	0.7	1.3	2.4	-1.5	0.2	-0.6	0.8	0.8	1.1	0.4	1.1	-1.9	-2.8
Mar	0.6	-1.4	1.1	-0.9	2.0	-2.8	-0.6	1.6	0.4	1.1	0.0	0.3	2.4	-1.5	0.2	-1.0	1.0	1.2	0.9	0.4	1.0	-1.1	-4.3
Apr	0.4	-1.3	0.3	1.1	0.8	-3.4	0.1	1.6	0.3	0.8	-0.2	-0.4	1.6	-1.4	0.3	-0.5	0.7	1.2	0.7	0.4	0.5	-0.8	-5.0
May	0.1	-0.7	-0.3	0.6	-0.5	-0.8	0.9	0.3	0.2	0.8	-0.3	-0.8	1.1	-1.0	0.3	-0.5	0.4	0.8	0.7	0.4	-0.7	-0.9	-5.2
Jun	-0.2	-0.4	-1.8	-1.1	-2.8	2.8	1.2	-1.2	0.1	0.1	-0.6	-0.3	1.4	-0.4	0.3	0.0	-0.2	0.3	0.7	0.5	-1.1	-1.2	-4.7
Jul	0.1	-0.1	-0.7	-1.6	-1.6	4.1	1.7	-1.1	0.3	0.0	-0.3	0.3	1.5	0.3	0.2	0.3	0.3	0.0	0.7	0.5	-1.1	-0.5	-4.0
Aug	0.2	-0.1	-0.5	-2.2	-1.0	2.8	1.4	-0.3	0.4	0.0	-0.2	0.7	1.4	0.8	0.1	0.8	0.0	-0.1	0.6	0.6	0.1	0.7	-2.3
Sep	0.3	-0.2	0.0	-1.7	0.0	-0.7	1.2	0.6	0.4	0.3	0.1	-0.5	1.0	0.7	0.1	0.7	0.0	0.0	0.5	0.7	-0.3	1.6	0.3
Oct	0.0	-0.3	-0.7	-2.6	-0.7	-1.0	0.2	-0.3	0.2	0.4	-0.4	-1.4	0.4	0.2	0.3	0.7	-1.0	0.1	0.4	0.7	-0.6	1.4	2.5

1 The GVA output is designated as a National Statistic.
2 Indices reflect values measured at basic prices, which exclude "taxes less subsidies on products".
3 Estimates cannot be regarded as accurate to the last digit shown.
4 Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.
5 A complete run of data is available on the ONS website.
6 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.

GVA2

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

seasonally adjusted 2016=100

Industry sections (SIC2007)

	Total GVA at basic prices	Agriculture, forestry and fishing	Total production industries	Mining & quarrying	Manufacturing	Electricity gas, steam and air	Water supply, sewerage etc	Construction [6]	Total service industries	Wholesale and retail: repair of motor vehicles and motorcycles	Transport and storage	Accommodation and food service activities	Information and Communication	Financial and insurance activities	Real estate activities	Professional, scientific and technical activities	Administrative and support service activities	Public administration and defence	Education	Human health and social work activities	Arts, entertainment and recreation	Other service activities	Activities of households as employers, undifferentiated goods and services
Section	A-T	A	B-E	B	C	D	E	F	G-T	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
2016 weights	1000	7	138	10	100	17	10	60	796	104	43	30	63	73	138	75	48	47	59	75	15	21	4

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

	ED9T	ED9U	ED9V	ED9W	EDGQ	EDGR	EDGS	EDGT	EDGU	EDGV	EDGW	EDGX	EDGY	EDGZ	EDHA	EDHB	EDHC	EDHD	EDHE	EDHF	EDHG	EDHH	EDHI
2017 Oct	1.8	6.8	2.8	5.9	3.4	-1.6	1.4	5.6	1.4	2.3	1.6	1.0	4.1	-3.9	-1.3	4.9	4.6	1.1	1.6	0.8	5.6	2.6	0.3
Nov	1.7	6.0	3.1	9.1	3.9	-3.3	1.1	5.4	1.2	1.8	1.8	0.9	4.0	-3.5	-1.6	4.9	4.6	1.1	1.4	0.4	5.2	2.0	1.1
Dec	1.6	4.4	2.3	2.7	3.3	-3.1	0.5	5.4	1.2	1.2	2.0	1.5	4.5	-2.9	-1.5	4.6	5.4	1.1	0.9	0.3	4.6	1.0	2.0
2018 Jan	1.5	1.7	1.1	-1.7	2.2	-3.5	-1.6	4.0	1.4	1.4	1.5	1.3	4.9	-1.8	-0.8	4.4	5.4	0.9	0.3	0.7	2.6	1.0	6.2
Feb	1.4	-1.1	0.7	-3.3	1.5	-0.6	-2.9	1.8	1.5	1.5	0.4	0.3	4.8	-0.8	0.1	4.2	4.8	0.7	-0.2	1.0	1.6	1.7	9.7
Mar	1.3	-3.3	1.1	0.5	1.7	2.3	-4.7	-1.1	1.5	1.6	-1.0	-0.2	4.8	-0.4	0.9	4.1	3.8	0.3	-0.4	1.2	0.6	2.8	12.6
Apr	1.3	-3.9	1.3	2.6	1.4	4.9	-3.9	-1.8	1.6	1.6	-1.1	-0.5	4.3	-0.4	1.3	4.8	4.4	0.1	-0.2	0.9	0.2	2.3	12.1
May	1.4	-4.1	0.9	3.6	1.2	1.1	-3.0	-1.8	1.8	2.3	-0.4	0.5	4.3	-0.5	1.4	5.1	4.5	-0.1	0.1	0.6	0.6	1.4	11.3
Jun	1.6	-4.3	0.7	4.5	1.2	-3.8	-0.4	-0.6	2.0	3.1	1.0	1.5	3.4	-0.3	1.5	5.0	5.2	0.1	0.3	0.5	2.0	1.1	9.2
Jul	1.8	-4.6	0.7	4.5	1.3	-5.1	0.4	0.4	2.2	4.0	1.9	1.9	3.5	-0.2	1.6	4.7	4.4	0.6	0.4	0.6	3.0	1.4	7.3
Aug	2.0	-5.0	0.9	6.0	1.1	-3.2	1.2	0.3	2.3	3.8	2.3	2.2	3.8	0.0	1.6	4.6	4.3	1.2	0.4	1.0	3.3	1.0	6.9
Sep	1.9	-5.1	0.3	6.7	0.4	-3.0	0.2	0.4	2.4	3.8	2.0	2.1	4.9	0.1	1.5	4.6	3.4	1.6	0.4	1.4	2.8	-0.2	7.6
Oct	1.9	-4.6	-0.4	5.3	-0.5	-2.5	-0.6	1.0	2.4	3.5	2.1	2.9	4.9	0.4	1.5	4.7	3.0	1.5	0.7	1.9	2.3	-1.1	10.0
Nov	1.9	-3.9	-1.2	2.0	-1.1	-2.6	-1.8	1.4	2.5	3.7	2.5	3.7	4.9	0.3	1.4	4.8	2.9	1.3	1.2	2.3	1.8	-1.4	11.6
Dec	1.8	-3.5	-1.5	7.6	-1.7	-3.0	-2.1	-0.2	2.6	3.9	3.1	4.0	4.7	0.0	1.3	4.7	2.5	1.2	1.7	2.4	1.6	-1.7	12.3
2019 Jan	1.7	-3.0	-1.2	6.8	-1.4	-2.7	-1.7	-0.6	2.4	4.2	3.4	4.3	5.9	-1.0	1.0	3.5	2.1	1.5	2.1	1.9	1.8	-2.6	8.6
Feb	1.8	-2.6	-0.8	9.1	-0.7	-4.9	-1.2	0.7	2.4	4.1	3.7	4.6	7.2	-2.1	0.8	3.2	2.6	2.1	2.4	1.6	2.4	-3.1	4.0
Mar	2.2	-1.9	0.2	5.8	0.9	-6.9	-0.4	3.7	2.4	4.7	4.1	4.5	7.9	-2.9	0.5	2.8	3.3	2.6	2.6	1.3	2.8	-3.9	-1.5
Apr	2.1	-1.8	-0.2	4.7	0.6	-8.7	0.1	4.4	2.3	4.6	4.2	3.9	7.8	-3.3	0.5	2.6	3.4	2.9	2.6	1.5	2.5	-4.4	-4.4
May	1.8	-1.6	-0.2	2.8	0.1	-4.7	0.9	3.5	2.0	3.9	3.4	2.6	7.2	-3.3	0.5	1.7	2.9	2.8	2.6	1.7	1.2	-5.2	-6.7
Jun	1.4	-1.4	-0.9	-0.3	-1.3	0.9	0.5	1.8	1.7	2.9	2.1	2.1	7.4	-3.1	0.5	1.6	2.1	2.5	2.7	2.0	0.2	-5.6	-7.7
Jul	1.3	-1.1	-0.7	-1.6	-1.1	2.3	0.0	1.2	1.6	2.0	1.6	1.8	7.7	-2.7	0.6	1.5	2.2	2.0	3.0	2.1	-0.2	-5.1	-8.2
Aug	1.1	-1.0	-1.3	-4.2	-1.4	0.5	-0.5	1.1	1.5	1.8	1.2	1.7	6.9	-2.3	0.6	1.4	1.7	1.5	3.2	2.2	0.1	-4.3	-8.3
Sep	1.0	-1.3	-1.4	-5.3	-1.4	-1.0	0.1	1.2	1.4	1.9	1.0	1.2	6.1	-2.2	0.8	0.9	2.0	1.3	3.1	2.2	-0.4	-3.1	-7.9
Oct	0.8	-1.8	-1.5	-6.4	-1.5	-0.7	0.5	0.0	1.3	2.1	0.3	0.4	5.4	-2.2	1.0	0.7	1.1	1.4	3.0	2.1	-1.1	-2.5	-7.4

Percentage change, latest month on previous month

	ECYX	ECYY	ECYZ	ECZ2	ECZA	ECZC	ECZD	ECZE	ECZG	ECZK	ECZN	ECZT	ECZU	ED2G	ED2H	ED2I	ED2J	ED2K	ED2L	ED2M	ED2N	ED2O	ED2P
2017 Oct	-0.1	-0.9	0.3	1.4	0.6	-2.3	0.5	-1.6	0.0	-0.1	0.5	0.5	0.2	-0.6	0.3	-0.5	0.6	0.1	-0.2	-0.7	1.1	-0.8	-3.6
Nov	0.3	-0.3	0.0	1.1	-0.2	1.6	-0.4	2.1	0.2	0.3	-0.5	0.5	-0.1	0.2	0.2	1.0	0.8	0.2	0.0	0.3	-0.6	-0.6	-0.2
Dec	0.3	-0.4	-0.2	-19.3	0.7	2.4	0.0	2.4	0.2	-0.5	0.1	0.4	1.5	0.2	0.0	0.4	0.8	0.0	0.0	0.4	0.9	-0.6	0.7
2018 Jan	0.1	-2.0	-0.3	19.2	-0.4	-5.4	-2.5	-3.1	0.4	0.5	-0.1	-0.2	-1.6	1.1	0.9	0.8	0.3	-0.2	-0.1	1.2	0.0	2.2	7.1
Feb	-0.3	-0.8	0.0	-1.9	-0.7	6.1	0.8	-1.2	-0.3	0.5	-0.8	-1.1	-0.9	0.4	0.1	-1.2	-1.6	-0.1	0.1	0.0	-1.1	-1.3	0.9
Mar	0.1	-0.4	-0.3	-3.1	-0.4	2.1	-0.6	-1.8	0.3	-0.8	-0.5	1.1	1.8	-0.2	0.1	0.9	0.7	0.0	0.2	0.0	0.6	1.8	2.9
Apr	0.3	-0.2	-0.5	9.1	-0.6	-4.1	-0.8	1.3	0.4	1.1	0.9	0.9	0.4	0.0	0.1	1.0	0.7	0.1	0.3	-0.1	0.7	-0.3	0.2
May	0.3	-0.2	-0.5	-1.4	0.3	-7.2	0.7	1.2	0.4	1.8	1.2	0.7	0.3	-0.1	0.1	0.0	-0.1	0.3	0.1	-0.1	0.6	-0.1	-0.6
Jun	0.4	-0.3	1.0	-0.5	0.8	1.5	2.6	0.9	0.3	-0.2	0.6	0.9	0.8	-0.1	0.0	0.0	1.6	0.5	0.0	0.1	0.9	0.4	-0.9
Jul	0.2	-0.3	0.2	4.8	-0.5	3.5	0.3	0.0	0.2	1.1	0.3	0.2	-0.2	0.0	0.0	1.2	-0.6	0.5	-0.1	0.2	-0.9	-0.8	0.4
Aug	0.1	0.1	0.0	0.8	0.1	0.0	-0.5	-0.2	0.1	-0.1	0.3	-1.0	1.9	-0.1	-0.1	0.0	-0.4	0.3	0.0	0.3	0.7	0.0	0.9
Sep	0.0	0.6	-0.6	-3.2	-0.2	-2.3	-0.9	1.1	0.0	-0.7	-0.3	-0.1	1.3	-0.1	0.0	0.6	-0.2	-0.1	0.3	0.3	-0.2	-1.4	1.1
Oct	0.2	0.6	0.0	2.4	-0.5	2.4	-0.6	0.3	0.3	0.6	1.3	1.3	-1.4	-0.3	0.2	0.8	1.5	-0.2	0.5	0.2	-0.3	-0.2	0.2
Nov	0.2	0.1	-0.1	-2.8	0.3	-0.8	-0.7	-0.2	0.3	1.1	0.3	1.0	0.9	-0.6	-0.1	0.4	0.5	0.0	0.5	0.1	-0.5	-1.3	-0.2
Dec	-0.3	-1.0	-0.6	-0.9	-0.9	-0.6	-1.3	0.2	-0.1	-1.3	0.1	0.3	1.5	-0.5	0.1	-0.7	-1.1	0.3	0.4	0.1	-0.5	0.3	-1.3
2019 Jan	0.5	-0.4	1.0	-1.7	1.4	1.7	-1.0	2.0	0.3	1.3	-0.1	0.0	1.0	-0.5	0.1	-1.0	1.3	0.6	0.2	0.1	-0.2	0.3	-1.3
Feb	0.3	-0.6	0.3	2.9	0.7	-4.6	0.5	2.0	0.2	0.2	-0.1	-0.2	0.2	-0.6	0.1	0.8	0.6	0.5	0.2	0.1	0.2	-0.2	-2.0
Mar	0.0	-0.1	0.9	1.3	1.1	-0.7	0.7	-1.2	0.0	0.3	0.0	-0.3	-0.1	-0.3	0.1	-0.3	-0.5	0.3	0.2	0.1	0.5	-0.1	-2.4
Apr	-0.5	-0.2	-3.2	-3.4	-4.3	3.4	-0.6	-0.7	0.0	-0.1	-0.1	-0.4	1.0	-0.4	0.1	-0.4	-0.2	0.0	0.2	0.1	-1.3	-1.0	-0.7
May	0.2	0.1	1.1	1.1	1.0	1.0	1.7	0.1	0.1	0.0	-0.4	-0.4	0.1	0.3	0.2	0.0	0.6	-0.1	0.2	0.2	-1.1	-0.1	-1.8
Jun	0.1	0.0	0.1	-0.2	-0.3	2.6	0.2	-1.1	0.2	-0.4	-0.5	2.0	0.9	0.5	-0.1	1.0	-0.8	-0.1	0.2	0.2	1.7	0.0	-1.8
Jul	0.3	-0.1	0.1	-1.8	0.5	-1.9	0.3	1.3	0.3	0.4	1.5	-0.8	0.6	0.2	0.0	-0.1	1.4	0.0	0.2	0.2	-1.2	1.1	0.8
Aug	-0.2	-0.1	-0.7	-1.1	-0.7	-1.1	0.2	0.1	-0.1	0.3	-1.0	-1.2	-1.1	0.3	0.1	0.2	-1.3	0.0	0.1	0.3	1.5	1.0	1.4
Sep	-0.1	-0.2	-0.3	1.8	-0.4	-0.5	0.1	-0.2	0.0	-0.3	-0.6	-0.4	1.4	-0.3	0.1	0.0	-0.5	0.1	-0.1	0.2	-2.2	-0.5	1.3
Oct	0.0	0.1	0.1	-4.2	0.2	2.4	-1.2	-2.3	0.2	0.5	0.9	-0.5	0.1	-0.5	0.4	0.7	-0.2	0.0	0.5	0.1	-0.9	-0.4	1.0

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 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.

Sources: For further information on these data please telephone 01633 456724 or E-mail gdp@ons.gov.uk

GVA3

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

seasonally adjusted 2016=100

Industry sections (SIC2007)

	Total GVA at basic prices	Agriculture, forestry and fishing	Total production industries	Mining & quarrying	Manufacturing	Electricity gas, steam and air	Water supply, sewerage etc	Construction [6]	Total service industries	Wholesale and retail: repair of motor vehicles and motorcycles	Transport and storage	Accommodation and food service activities	Information and Communication	Financial and insurance activities	Real estate activities	Professional, scientific and technical activities	Administrative and support service activities	Public administration and defence	Education	Human health and social work activities	Arts, entertainment and recreation	Other service activities	Activities of households as employers, undifferentiated goods and services
Section	A-T	A	B-E	B	C	D	E	F	G-T	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
2016 weights	**1000**	**7**	**138**	**10**	**100**	**17**	**10**	**60**	**796**	**104**	**43**	**30**	**63**	**73**	**138**	**75**	**48**	**47**	**59**	**75**	**15**	**21**	**4**

Percentage change, latest month on same month a year ago

	ED2R	ED2S	ED2T	ED2U	ED2V	ED2W	ED2X	ED2Y	ED2Z	ED32	ED33	ED34	ED35	ED36	ED37	ED38	ED39	ED3A	ED3B	ED3C	ED3D	ED3E	ED3F
2017 Oct	1.8	6.0	4.1	15.9	4.9	-4.4	1.6	4.3	1.1	1.5	1.7	1.4	4.0	-3.9	-1.6	4.4	5.0	1.1	1.5	0.2	7.1	2.5	0.1
Nov	1.7	4.8	2.4	7.0	3.7	-5.5	-0.1	6.0	1.2	1.6	2.1	1.2	4.3	-2.9	-1.7	4.8	5.3	1.0	0.8	0.2	3.7	0.9	1.6
Dec	1.5	2.5	0.5	-13.7	1.3	0.8	-0.1	5.9	1.3	0.6	2.2	1.9	5.1	-1.9	-1.1	4.5	5.8	1.1	0.5	0.5	3.1	-0.4	4.3
2018 Jan	1.4	-2.0	0.3	1.4	1.7	-5.7	-4.7	0.2	1.7	2.0	0.2	0.9	5.2	-0.5	0.5	3.9	5.0	0.5	-0.5	1.3	1.2	2.5	12.9
Feb	1.3	-3.6	1.3	2.4	1.6	3.3	-4.0	-0.4	1.5	2.1	-1.2	-1.7	4.0	-0.1	1.0	4.1	3.6	0.3	-0.2	1.2	0.6	3.0	12.0
Mar	1.2	-4.2	1.6	-2.2	1.7	9.9	-5.5	-3.0	1.5	0.9	-1.9	0.3	5.1	-0.5	1.4	4.5	2.9	0.1	-0.2	1.0	-0.1	2.9	13.0
Apr	1.5	-4.0	0.9	7.8	0.8	1.8	-2.1	-2.1	1.9	1.9	-0.3	0.0	3.8	-0.5	1.5	6.0	6.9	-0.3	0.1	0.6	0.1	1.0	11.3
May	1.6	-4.2	0.1	5.3	1.1	-8.0	-1.2	-0.4	2.1	4.3	0.8	1.2	4.0	-0.3	1.5	4.7	3.8	-0.1	0.4	0.4	1.8	0.4	9.6
Jun	1.8	-4.6	0.9	0.7	1.7	-5.2	1.9	0.5	2.1	3.1	2.5	3.4	2.5	-0.1	1.6	4.2	5.1	0.5	0.4	0.6	4.2	2.0	6.7
Jul	2.1	-5.1	1.0	7.6	1.0	-2.0	0.5	0.9	2.5	4.6	2.2	1.2	3.9	-0.1	1.6	5.2	4.3	1.4	0.4	1.0	2.8	1.7	5.8
Aug	1.9	-5.3	0.9	9.9	0.7	-2.3	1.1	-0.6	2.4	3.9	2.2	2.0	5.1	0.2	1.4	4.5	3.5	1.8	0.4	1.4	2.7	-0.7	8.2
Sep	1.7	-5.0	-0.9	2.6	-0.6	-4.8	-0.9	0.9	2.3	3.0	1.6	3.0	5.6	0.4	1.6	4.1	2.4	1.6	0.6	1.7	2.8	-1.6	8.8
Oct	2.1	-3.5	-1.3	3.7	-1.6	-0.2	-2.0	2.8	2.6	3.7	2.5	3.8	4.0	0.7	1.5	5.5	3.3	1.3	1.3	2.6	1.3	-1.0	13.1
Nov	2.0	-3.2	-1.4	-0.3	-1.1	-2.6	-2.3	0.5	2.7	4.5	3.3	4.2	5.0	-0.1	1.2	4.8	3.0	1.1	1.8	2.5	1.4	-1.7	13.1
Dec	1.3	-3.7	-1.7	22.4	-2.4	-6.1	-2.1	-3.7	2.3	3.7	3.4	4.1	5.0	-0.7	1.3	3.8	1.1	1.3	2.1	2.2	2.0	-2.2	10.9
2019 Jan	1.8	-2.1	-0.4	1.0	-0.6	0.9	-0.6	1.4	2.2	4.5	3.5	4.4	7.8	-2.2	0.5	1.9	2.2	2.2	2.5	1.2	1.9	-4.0	2.2
Feb	2.4	-2.0	-0.2	5.9	0.8	-9.3	-0.9	4.6	2.7	4.2	4.2	5.3	8.9	-3.2	0.5	3.9	4.5	2.7	2.6	1.3	3.3	-3.0	-0.7
Mar	2.4	-1.7	1.1	10.7	2.4	5.3	0.4	5.3	2.4	5.4	4.7	3.9	6.9	-3.2	0.5	2.7	3.2	3.0	2.6	1.4	3.2	-4.8	-5.8
Apr	1.5	-1.7	-1.6	-2.0	-1.4	-5.0	0.7	3.2	1.9	4.1	3.7	2.5	7.5	-3.6	0.5	1.2	2.4	2.9	2.6	1.7	1.1	-5.4	-6.6
May	1.4	-1.4	0.0	0.4	-0.7	3.5	1.7	2.1	1.6	2.3	2.0	1.4	7.3	-3.1	0.6	1.3	3.1	2.6	2.7	2.0	-0.6	-5.4	-7.8
Jun	1.1	-1.1	-1.0	0.7	-1.8	4.5	-0.8	0.1	1.6	2.1	0.8	2.5	7.4	-2.6	0.5	2.3	0.7	2.0	2.9	2.1	0.1	-5.8	-8.6
Jul	1.2	-0.9	-1.1	-5.7	-0.9	-0.9	-0.8	1.4	1.6	1.5	2.0	1.4	8.3	-2.4	0.6	0.9	2.7	1.4	3.3	2.2	-0.2	-4.1	-8.3
Aug	1.0	-1.1	-1.8	-7.4	-1.6	-1.9	0.0	1.8	1.4	1.9	0.7	1.2	5.0	-2.0	0.8	1.1	1.8	1.2	3.3	2.2	0.5	-3.1	-7.8
Sep	0.9	-1.9	-1.4	-2.7	-1.8	-0.1	1.0	0.5	1.3	2.3	0.3	0.9	5.1	-2.2	0.9	0.5	1.6	1.4	2.8	2.1	-1.6	-2.1	-7.6
Oct	0.7	-2.4	-1.3	-9.0	-1.2	-0.1	0.4	-2.1	1.2	2.1	-0.1	-0.8	6.4	-2.4	1.2	0.4	-0.1	1.6	2.8	2.0	-2.1	-2.3	-6.8

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 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.

Sources: For further information on these data please telephone 01633 456724 or E-mail gdp@ons.gov.uk

REV1

Monthly GDP based on GVA (Gross Value Added) [1]
Revisions to growth of gross value added at basic prices [2]

seasonally adjusted 2016=100

Periods open for revision: No periods open.

Industry sections (SIC2007)

Section	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 [4]	Total service industries	Wholesale and retail: repair of motor vehicles and motorcycles	Transport and storage	Accommodation and food service activities	Information and Communication	Financial and insurance activities	Real estate activities	Professional, scientific and technical activities	Administrative and support service activities	Public administration and defence	Education	Human health and social work activities	Arts, entertainment and recreation	Other service activities	Activities of households as employers, undifferentiated goods and services
Section	A-T	A	B-E	B	C	D	E	F	G-T	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
2016 weights	**1000**	**7**	**138**	**10**	**100**	**17**	**10**	**60**	**796**	**104**	**43**	**30**	**63**	**73**	**138**	**75**	**48**	**47**	**59**	**75**	**15**	**21**	**4**

Percentage change, latest 3 months on previous 3 months [3]

	A-T	A	B-E	B	C	D	E	F	G-T	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
2017 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	0.0
2018 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	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
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	0.0
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	0.0
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	0.0
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	0.0
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	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
2019 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	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
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	0.0
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	0.0
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	0.0
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	0.0
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

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

	A-T	A	B-E	B	C	D	E	F	G-T	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
2017 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	0.0
2018 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	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
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	0.0
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	0.0
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	0.0
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	0.0
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	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
2019 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	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
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	0.0
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	0.0
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	0.0
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	0.0
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

1 The GVA output is designated as a National Statistic.
2 Estimates cannot be regarded as accurate to the last digit shown.
3 Any apparent inconsistencies between the index numbers and the percentage changes shown in these tables are due to rounding.
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.

Sources: For further information on these data please telephone 01633 456724 or E-mail gdp@ons.gov.uk

REV2

Monthly GDP based on GVA (Gross Value Added) [1]
Revisions to growth of gross value added at basic prices [2,3]

seasonally adjusted 2016=100

Periods open for revision: No periods open.

Industry sections (SIC2007)

	Total GVA at basic prices	Agriculture, forestry and fishing	Total production industries	Mining & quarrying	Manufacturing	Electricity gas, steam and air	Water supply, sewerage etc	Construction [4]	Total service industries	Wholesale and retail: repair of motor vehicles and motorcycles	Transport and storage	Accommodation and food service activities	Information and Communication	Financial and insurance activities	Real estate activities	Professional, scientific and technical activities	Administrative and support service activities	Public administration and defence	Education	Human health and social work activities	Arts, entertainment and recreation	Other service activities	Activities of households as employers, undifferentiated goods and services
Section	A-T	A	B-E	B	C	D	E	F	G-T	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
2016 weights	**1000**	**7**	**138**	**10**	**100**	**17**	**10**	**60**	**796**	**104**	**43**	**30**	**63**	**73**	**138**	**75**	**48**	**47**	**59**	**75**	**15**	**21**	**4**

Percentage change, latest month on previous month [3]

2017 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	0.0
2018 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	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
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	0.0
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	0.0
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	0.0
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	0.0
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	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
2019 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	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
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	0.0
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	0.0
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	0.0
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	0.0
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

Percentage change, latest month on same month a year ago [3]

2017 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	0.0
2018 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	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
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	0.0
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	0.0
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	0.0
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	0.0
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	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
2019 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	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
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	0.0
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	0.0
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	0.0
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	0.0
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

1 The GVA output is designated as a National Statistic.
2 Estimates cannot be regarded as accurate to the last digit shown.
3 Any apparent inconsistencies between the index numbers and the percentage
   changes shown in these tables are due to rounding.
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.

Sources: For further information on these data please telephone
01633 456724 or E-mail gdp@ons.gov.uk

CONTRIB 1

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

seasonally adjusted 2016=100

Industry sections (SIC2007)

Section	Total GVA at basic prices	Agriculture, forestry and fishing	Total production industries	Mining & quarrying	Manufacturing	Electricity gas, steam and air	Water supply, sewerage etc	Construction	Total service industries	Wholesale and retail: repair of motor vehicles and motorcycles	Transport and storage	Accommodation and food service activities	Information and Communication	Financial and insurance activities	Real estate activities	Professional, scientific and technical activities	Administrative and support service activities	Public administration and defence	Education	Human health and social work activities	Arts, entertainment and recreation	Other service activities	Activities of households as employers, undifferentiated goods and services
Section	A-T	A	B-E	B	C	D	E	F	G-T	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
2016 weights	1000	7	138	10	100	17	10	60	796	104	43	30	63	73	138	75	48	47	59	75	15	21	4

Contribution to growth, latest 3 months on previous 3 months

		EDMB	EDMC	EDMD	EDME	EDMF	EDMG	EDMH	EDMI	EDMJ	EDMK	EDML	EDMM	EDMN	EDMO	EDMP	EDMQ	EDMR	EDMS	EDMT	EDMU	EDMV	EDMW	EDMX
2017	Oct	0.42	0.00	0.16	0.01	0.15	-0.01	0.01	0.01	0.24	0.08	0.03	-0.03	0.07	-0.07	0.00	0.11	0.07	-0.01	0.00	-0.04	0.01	0.02	0.00
	Nov	0.45	0.00	0.21	0.02	0.18	-0.01	0.02	0.00	0.25	0.05	0.03	-0.03	0.06	-0.07	0.01	0.11	0.09	0.00	0.00	-0.04	0.02	0.00	-0.01
	Dec	0.47	-0.01	0.14	-0.02	0.16	0.00	0.01	0.05	0.28	0.03	0.02	-0.01	0.10	-0.06	0.04	0.09	0.11	0.01	-0.01	-0.03	0.02	-0.02	-0.01
2018	Jan	0.56	-0.01	0.05	-0.04	0.09	0.00	-0.01	0.09	0.43	0.02	0.00	0.02	0.05	0.01	0.08	0.11	0.11	0.01	-0.01	0.03	0.01	-0.02	0.00
	Feb	0.42	-0.02	-0.04	-0.07	0.02	0.01	-0.02	0.05	0.43	0.02	-0.02	0.01	0.01	0.07	0.12	0.08	0.06	0.00	-0.01	0.08	0.01	0.00	0.01
	Mar	0.18	-0.02	-0.07	0.01	-0.07	0.02	-0.03	-0.14	0.41	0.03	-0.04	0.00	-0.04	0.10	0.15	0.06	0.01	-0.01	0.00	0.11	0.00	0.02	0.03
	Apr	-0.03	-0.02	-0.09	0.02	-0.13	0.04	-0.02	-0.20	0.29	0.05	-0.04	0.00	-0.01	0.07	0.11	0.03	-0.03	-0.01	0.02	0.06	0.00	0.02	0.02
	May	0.19	-0.01	-0.12	0.05	-0.13	-0.01	-0.02	-0.15	0.48	0.11	0.00	0.03	0.07	0.02	0.08	0.07	0.01	0.00	0.03	0.02	0.01	0.02	0.02
	Jun	0.61	-0.01	-0.10	0.04	-0.06	-0.07	0.00	0.04	0.67	0.20	0.05	0.06	0.12	-0.01	0.03	0.09	0.05	0.02	0.03	-0.01	0.02	0.01	0.01
	Jul	0.89	-0.01	-0.03	0.04	0.02	-0.10	0.02	0.12	0.80	0.27	0.09	0.07	0.11	-0.02	0.02	0.10	0.07	0.04	0.02	-0.01	0.03	0.01	0.00
	Aug	0.89	0.00	0.09	0.04	0.06	-0.04	0.03	0.12	0.69	0.22	0.08	0.04	0.12	-0.02	0.00	0.09	0.06	0.06	0.01	0.01	0.02	0.00	0.00
	Sep	0.66	0.00	0.07	0.03	0.01	0.02	0.02	0.07	0.52	0.13	0.05	0.01	0.15	-0.02	-0.01	0.11	0.00	0.05	0.00	0.04	0.01	-0.02	0.00
	Oct	0.48	0.00	0.01	0.02	-0.03	0.03	0.00	0.05	0.41	0.03	0.04	0.00	0.18	-0.03	-0.01	0.11	0.00	0.03	0.02	0.05	0.00	-0.02	0.01
	Nov	0.40	0.01	-0.08	0.00	-0.05	0.00	-0.02	0.06	0.41	0.04	0.04	0.01	0.14	-0.04	0.00	0.13	0.02	0.00	0.04	0.05	-0.01	-0.04	0.01
	Dec	0.33	0.00	-0.09	-0.01	-0.06	0.00	-0.02	0.01	0.41	0.05	0.06	0.05	0.09	-0.07	0.02	0.10	0.06	0.00	0.06	0.05	0.00	-0.04	0.00
2019	Jan	0.34	0.00	-0.05	-0.03	0.00	0.00	-0.02	-0.01	0.40	0.09	0.05	0.06	0.12	-0.09	0.02	0.02	0.06	0.01	0.07	0.04	0.00	-0.04	0.00
	Feb	0.34	-0.01	0.01	-0.02	0.06	-0.02	-0.01	0.01	0.32	0.06	0.03	0.04	0.17	-0.10	0.03	-0.05	0.04	0.04	0.06	0.03	0.02	-0.03	-0.01
	Mar	0.55	-0.01	0.15	-0.01	0.19	-0.04	-0.01	0.10	0.32	0.11	0.00	0.01	0.17	-0.10	0.03	-0.08	0.05	0.06	0.05	0.03	0.02	-0.02	-0.01
	Apr	0.36	-0.01	0.04	0.01	0.07	-0.05	0.00	0.10	0.23	0.09	-0.01	-0.01	0.12	-0.10	0.04	-0.04	0.04	0.06	0.04	0.03	0.01	-0.01	-0.01
	May	0.13	0.00	-0.05	0.01	-0.05	-0.01	0.01	0.02	0.16	0.09	-0.01	-0.02	0.08	-0.07	0.04	-0.04	0.02	0.04	0.04	0.03	-0.01	-0.01	-0.02
	Jun	-0.20	0.00	-0.24	-0.01	-0.27	0.04	0.01	-0.07	0.12	0.01	-0.02	-0.01	0.10	-0.03	0.04	0.00	-0.01	0.02	0.04	0.04	-0.02	-0.02	-0.01
	Jul	0.08	0.00	-0.09	-0.01	-0.15	0.06	0.02	-0.07	0.24	0.00	-0.01	0.01	0.11	0.02	0.03	0.02	0.01	0.00	0.04	0.04	-0.02	-0.01	-0.01
	Aug	0.25	0.00	-0.06	-0.02	-0.10	0.04	0.02	-0.02	0.33	0.00	-0.01	0.02	0.10	0.05	0.01	0.07	0.00	-0.01	0.03	0.05	0.00	0.01	-0.01
	Sep	0.33	0.00	-0.01	-0.02	0.00	-0.01	0.01	0.04	0.30	0.03	0.00	-0.01	0.07	0.04	0.02	0.05	0.00	0.00	0.03	0.05	-0.01	0.02	0.00
	Oct	0.05	0.00	-0.10	-0.02	-0.07	-0.02	0.00	-0.02	0.17	0.05	-0.01	-0.04	0.04	0.01	0.04	0.05	-0.06	0.00	0.02	0.05	-0.01	0.02	0.01

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

		EDMY	EDMZ	EDNA	EDNB	EDNC	EDND	EDNE	EDNF	EDNG	EDNH	EDNI	EDNJ	EDNK	EDNL	EDNM	EDNN	EDNO	EDNP	EDNQ	EDNR	EDNS	EDNT	EDNU
2017	Oct	1.85	0.05	0.38	0.04	0.35	-0.02	0.02	0.34	1.08	0.25	0.07	0.03	0.28	-0.29	-0.18	0.37	0.23	0.05	0.09	0.06	0.09	0.04	0.00
	Nov	1.74	0.04	0.41	0.06	0.39	-0.05	0.01	0.33	0.96	0.19	0.07	0.02	0.27	-0.26	-0.22	0.37	0.23	0.05	0.08	0.03	0.08	0.03	0.00
	Dec	1.64	0.03	0.31	0.02	0.33	-0.05	0.01	0.33	0.97	0.13	0.08	0.04	0.30	-0.21	-0.21	0.35	0.27	0.05	0.05	0.02	0.07	0.02	0.00
2018	Jan	1.52	0.01	0.14	-0.01	0.23	-0.05	-0.02	0.24	1.13	0.14	0.06	0.04	0.33	-0.13	-0.11	0.33	0.27	0.04	0.02	0.05	0.04	0.02	0.02
	Feb	1.39	-0.01	0.09	-0.03	0.16	-0.01	-0.04	0.11	1.19	0.16	0.02	0.01	0.32	-0.06	0.01	0.31	0.25	0.03	-0.01	0.08	0.03	0.03	0.03
	Mar	1.27	-0.02	0.14	0.00	0.17	0.03	-0.06	-0.07	1.23	0.17	-0.04	0.00	0.32	-0.03	0.13	0.31	0.20	0.02	-0.03	0.09	0.01	0.05	0.03
	Apr	1.30	-0.03	0.17	0.02	0.14	0.07	-0.05	-0.11	1.27	0.17	-0.05	-0.01	0.29	-0.03	0.17	0.36	0.23	0.00	-0.01	0.07	0.00	0.04	0.03
	May	1.40	-0.03	0.12	0.03	0.12	0.01	-0.04	-0.11	1.43	0.25	-0.02	0.01	0.29	-0.03	0.20	0.38	0.23	0.00	0.01	0.05	0.01	0.02	0.03
	Jun	1.63	-0.03	0.09	0.03	0.12	-0.05	-0.01	-0.04	1.62	0.32	0.04	0.04	0.23	-0.02	0.21	0.37	0.27	0.00	0.02	0.04	0.03	0.02	0.02
	Jul	1.85	-0.03	0.09	0.03	0.13	-0.07	0.01	0.02	1.77	0.42	0.08	0.05	0.24	-0.01	0.22	0.35	0.23	0.03	0.02	0.05	0.05	0.02	0.02
	Aug	1.97	-0.04	0.13	0.05	0.11	-0.04	0.02	0.02	1.86	0.40	0.10	0.06	0.26	0.00	0.21	0.35	0.22	0.06	0.02	0.08	0.05	0.02	0.02
	Sep	1.93	-0.04	0.04	0.05	0.04	-0.04	0.00	0.02	1.90	0.40	0.08	0.06	0.34	0.01	0.21	0.35	0.17	0.08	0.02	0.11	0.05	0.00	0.02
	Oct	1.91	-0.03	-0.06	0.04	-0.05	-0.03	-0.01	0.06	1.94	0.37	0.09	0.08	0.34	0.03	0.20	0.36	0.16	0.07	0.04	0.14	0.04	-0.02	0.03
	Nov	1.91	-0.03	-0.16	0.02	-0.11	-0.04	-0.02	0.08	2.02	0.39	0.10	0.10	0.34	0.02	0.19	0.37	0.15	0.06	0.07	0.17	0.03	-0.02	0.03
	Dec	1.79	-0.03	-0.20	0.06	-0.17	-0.04	-0.03	-0.01	2.03	0.41	0.13	0.11	0.32	0.00	0.18	0.36	0.13	0.06	0.10	0.18	0.03	-0.03	0.03
2019	Jan	1.69	-0.02	-0.16	0.06	-0.14	-0.02	-0.04	-0.04	1.91	0.44	0.14	0.12	0.41	-0.07	0.13	0.27	0.11	0.07	0.12	0.15	0.03	-0.04	0.02
	Feb	1.83	-0.02	-0.11	0.08	-0.07	-0.07	-0.01	0.04	1.90	0.43	0.15	0.13	0.50	-0.15	0.10	0.24	0.14	0.10	0.14	0.12	0.04	-0.05	0.01
	Mar	2.17	-0.01	0.02	0.05	0.09	-0.11	0.00	0.23	1.93	0.49	0.17	0.12	0.54	-0.21	0.06	0.22	0.18	0.13	0.15	0.10	0.04	-0.06	0.00
	Apr	2.08	-0.01	-0.03	0.04	0.06	-0.14	0.00	0.26	1.86	0.48	0.17	0.11	0.54	-0.24	0.06	0.20	0.18	0.14	0.15	0.11	0.04	-0.07	-0.01
	May	1.76	-0.01	-0.03	0.03	0.01	-0.07	0.01	0.21	1.58	0.41	0.14	0.07	0.50	-0.24	0.07	0.13	0.15	0.14	0.15	0.13	0.02	-0.09	-0.02
	Jun	1.35	-0.01	-0.12	0.00	-0.13	0.01	0.01	0.11	1.37	0.30	0.09	0.06	0.52	-0.22	0.07	0.12	0.11	0.12	0.16	0.15	0.00	-0.09	-0.02
	Jul	1.26	-0.01	-0.09	-0.01	-0.11	0.03	0.00	0.07	1.29	0.21	0.07	0.05	0.53	-0.19	0.08	0.12	0.12	0.10	0.17	0.16	0.00	-0.08	-0.02
	Aug	1.11	-0.01	-0.17	-0.04	-0.14	0.01	-0.01	0.07	1.22	0.19	0.05	0.05	0.48	-0.17	0.08	0.11	0.09	0.07	0.18	0.16	0.00	-0.07	-0.02
	Sep	1.02	-0.01	-0.20	-0.05	-0.14	-0.01	0.00	0.07	1.15	0.20	0.04	0.03	0.43	-0.16	0.10	0.07	0.11	0.07	0.18	0.16	-0.01	-0.05	-0.02
	Oct	0.83	-0.01	-0.21	-0.06	-0.15	-0.01	0.01	0.00	1.04	0.22	0.01	0.01	0.39	-0.15	0.13	0.05	0.06	0.07	0.17	0.16	-0.02	-0.04	-0.02

1 The GVA output is designated as a National Statistic.
2 Estimates cannot be regarded as accurate to the last digit shown.
3 A complete run of data is available on the ONS website.
4 Contributions are based on output GVA growth

Sources: For further information on these data please telephone
01633 456724 or E-mail gdp@ons.gov.uk

CONTRIB 2

Industry sections (SIC2007)

Section	Total GVA at basic prices	Agriculture, forestry and fishing	Total production industries	Mining & quarrying	Manufacturing	Electricity gas, steam and air	Water supply, sewerage etc	Construction	Total service industries	Wholesale and retail: repair of motor vehicles and motorcycles	Transport and storage	Accommodation and food service activities	Information and Communication	Financial and insurance activities	Real estate activities	Professional, scientific and technical activities	Administrative and support service activities	Public administration and defence	Education	Human health and social work activities	Arts, entertainment and recreation	Other service activities	Activities of households as employers, undifferentiated goods and services
	A-T	A	B-E	B	C	D	E	F	G-T	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
2016 weights	1000	7	138	10	100	17	10	60	796	104	43	30	63	73	138	75	48	47	59	75	15	21	4

Contribution to growth, latest month on previous month

		EDKH	EDKI	EDKJ	EDKK	EDKL	EDKM	EDKN	EDKO	EDKP	EDKQ	EDKR	EDKS	EDKT	EDKU	EDKV	EDKW	EDKX	EDKY	EDKZ	EDLA	EDLB	EDLC	EDLD
2017	Oct	-0.11	-0.01	0.04	0.01	0.06	-0.03	0.01	-0.10	-0.04	-0.01	0.02	0.01	0.01	-0.04	0.04	-0.04	0.03	0.00	-0.01	-0.05	0.02	-0.01	-0.01
	Nov	0.31	0.00	0.00	0.01	-0.02	0.02	0.00	0.13	0.18	0.03	-0.02	0.02	0.00	0.01	0.02	0.08	0.04	0.01	0.00	0.02	-0.01	-0.01	0.00
	Dec	0.32	0.00	-0.03	-0.13	0.07	0.03	0.00	0.15	0.19	-0.05	0.00	0.01	0.10	0.01	0.01	0.03	0.04	0.00	0.00	0.03	0.02	-0.01	0.00
2018	Jan	0.06	-0.01	-0.05	0.12	-0.04	-0.08	-0.03	-0.19	0.32	0.05	-0.01	-0.01	-0.11	0.08	0.12	0.06	0.01	-0.01	-0.01	0.09	0.00	0.04	0.02
	Feb	-0.32	-0.01	0.01	-0.01	-0.07	0.08	0.01	-0.07	-0.25	0.05	-0.03	-0.03	-0.06	0.03	0.02	-0.09	-0.09	0.00	0.01	0.00	-0.02	-0.02	0.00
	Mar	0.05	0.00	-0.04	-0.02	-0.04	0.03	-0.01	-0.11	0.21	-0.08	-0.02	0.03	0.12	-0.02	0.02	0.07	0.04	0.00	0.01	0.00	0.01	0.03	0.01
	Apr	0.35	0.00	-0.07	0.07	-0.06	-0.06	-0.01	0.08	0.34	0.11	0.04	0.03	0.03	0.00	0.01	0.08	0.03	0.01	0.01	-0.01	0.01	0.00	0.00
	May	0.30	0.00	-0.07	-0.01	0.03	-0.10	0.01	0.07	0.30	0.19	0.05	0.02	0.02	-0.01	0.01	0.00	-0.01	0.01	0.01	-0.01	0.01	0.00	0.00
	Jun	0.40	0.00	0.13	0.00	0.08	0.02	0.03	0.05	0.21	-0.02	0.03	0.03	0.06	-0.01	-0.01	0.00	0.09	0.02	0.00	0.01	0.02	0.01	0.00
	Jul	0.22	0.00	0.03	0.04	-0.05	0.05	0.00	0.00	0.19	0.11	0.01	0.01	-0.01	0.00	0.00	0.10	-0.03	0.02	0.00	0.01	-0.01	-0.01	0.00
	Aug	0.10	0.00	0.01	0.01	0.01	0.00	-0.01	-0.02	0.11	-0.01	0.01	-0.03	0.13	-0.01	-0.02	0.00	-0.02	0.01	0.00	0.02	0.01	0.00	0.00
	Sep	0.02	0.00	-0.09	-0.03	-0.02	-0.03	-0.01	0.06	0.04	-0.07	-0.01	0.00	0.09	-0.01	0.00	0.05	-0.01	0.00	0.02	0.02	0.00	-0.02	0.00
	Oct	0.25	0.00	-0.01	0.02	-0.05	0.03	-0.01	0.02	0.23	0.07	0.05	0.04	-0.10	-0.02	0.03	0.06	0.08	-0.01	0.03	0.01	-0.01	0.00	0.00
	Nov	0.20	0.00	-0.01	-0.02	0.03	-0.01	-0.01	-0.01	0.23	0.12	0.01	0.03	0.06	-0.04	-0.01	0.03	0.03	0.00	0.03	0.01	-0.01	-0.02	0.00
	Dec	-0.29	-0.01	-0.08	-0.01	-0.06	-0.02	0.00	-0.10	-0.14	0.01	0.01	0.10	-0.03	0.02	-0.05	-0.06	0.02	0.02	0.01	0.01	0.03	-0.02	0.00
2019	Jan	0.48	0.00	0.14	-0.02	0.13	0.02	-0.01	0.12	0.23	0.14	0.00	0.00	0.07	-0.03	0.01	-0.08	0.07	0.03	0.01	0.01	0.00	0.00	0.00
	Feb	0.28	0.00	0.04	0.03	0.07	-0.07	0.01	0.12	0.12	0.02	0.00	-0.01	0.01	-0.04	0.01	0.06	0.03	0.02	0.01	0.01	0.00	0.00	-0.01
	Mar	0.04	0.00	0.12	0.01	0.11	-0.01	0.01	-0.08	0.00	0.03	0.00	-0.01	0.00	-0.02	0.02	-0.03	-0.03	0.01	0.01	0.01	0.00	0.00	-0.01
	Apr	-0.49	0.00	-0.43	-0.03	-0.43	0.05	-0.01	-0.04	-0.02	-0.01	0.00	-0.01	0.07	-0.03	0.01	-0.03	-0.01	0.00	0.01	0.01	-0.02	-0.01	0.00
	May	0.21	0.00	0.14	0.01	0.10	0.01	0.02	0.01	0.06	0.01	-0.02	-0.01	0.01	0.02	0.03	0.00	0.03	0.00	0.01	0.01	-0.02	0.00	-0.01
	Jun	0.11	0.00	0.01	0.00	-0.03	0.04	0.00	-0.06	0.17	-0.04	-0.02	0.06	0.07	0.03	-0.01	0.08	-0.04	0.00	0.01	0.02	0.03	0.00	0.00
	Jul	0.32	0.00	0.01	-0.02	0.04	-0.03	0.00	0.08	0.23	0.04	0.06	-0.02	0.05	0.01	0.00	-0.01	0.08	0.00	0.01	0.01	-0.02	0.02	0.00
	Aug	-0.16	0.00	-0.09	-0.01	-0.07	-0.02	0.00	0.01	-0.08	0.04	-0.04	-0.03	-0.08	0.02	0.01	0.01	-0.07	0.00	0.00	0.02	0.02	0.02	0.00
	Sep	-0.07	0.00	-0.04	0.02	-0.04	-0.01	0.00	-0.02	-0.01	-0.03	-0.03	-0.01	0.10	-0.02	0.02	0.00	-0.02	0.01	-0.01	0.02	-0.04	-0.01	0.00
	Oct	0.04	0.00	0.01	-0.04	0.02	0.03	-0.01	-0.14	0.17	0.05	0.04	-0.01	0.01	-0.03	0.06	0.06	-0.01	0.00	0.03	0.01	-0.01	-0.01	0.00

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

		EDLE	EDLF	EDLG	EDLH	EDLI	EDLJ	EDLK	EDLL	EDLM	EDLN	EDLO	EDLP	EDLQ	EDLR	EDLS	EDLT	EDLU	EDLV	EDLW	EDLX	EDLY	EDLZ	EDMA
2017	Oct	1.76	0.04	0.55	0.09	0.49	-0.07	0.02	0.26	0.91	0.16	0.07	0.04	0.27	-0.28	-0.23	0.33	0.25	0.06	0.08	0.01	0.11	0.04	0.00
	Nov	1.67	0.03	0.33	0.05	0.38	-0.08	0.00	0.37	0.95	0.17	0.09	0.04	0.29	-0.21	-0.24	0.37	0.27	0.05	0.05	0.01	0.06	0.01	0.00
	Dec	1.50	0.02	0.07	-0.09	0.14	0.01	0.00	0.37	1.06	0.06	0.09	0.05	0.34	-0.14	-0.16	0.35	0.30	0.05	0.05	0.03	0.04	0.05	0.01
2018	Jan	1.39	-0.01	0.04	0.01	0.17	-0.08	-0.06	0.01	1.36	0.20	0.01	0.02	0.34	-0.03	0.06	0.30	0.26	0.02	-0.03	0.10	0.02	0.04	0.03
	Feb	1.27	-0.03	0.17	0.02	0.16	0.05	-0.05	-0.03	1.16	0.22	-0.05	-0.05	0.26	-0.01	0.13	0.30	0.18	0.02	-0.04	0.09	0.01	0.05	0.03
	Mar	1.15	-0.03	0.22	-0.02	0.17	0.13	-0.07	-0.19	1.16	0.10	-0.08	0.01	0.34	-0.04	0.19	0.33	0.15	0.01	-0.01	0.07	0.00	0.05	0.04
	Apr	1.46	-0.03	0.13	0.06	0.08	0.03	-0.03	-0.13	1.50	0.20	-0.01	0.00	0.26	-0.04	0.20	0.45	0.35	-0.01	0.01	0.04	0.00	0.02	0.03
	May	1.60	-0.03	0.01	0.04	0.11	-0.11	-0.02	-0.02	1.64	0.44	0.03	0.03	0.27	-0.02	0.21	0.35	0.20	0.00	0.02	0.03	0.03	0.01	0.03
	Jun	1.83	-0.03	0.13	0.01	0.17	-0.07	0.02	0.03	1.71	0.32	0.10	0.09	0.17	-0.01	0.22	0.32	0.26	0.03	0.03	0.04	0.07	0.03	0.02
	Jul	2.12	-0.04	0.13	0.06	0.10	-0.03	0.01	0.06	1.97	0.48	0.09	0.03	0.27	-0.01	0.22	0.39	0.22	0.07	0.02	0.08	0.05	0.03	0.02
	Aug	1.95	-0.04	0.12	0.07	0.07	-0.03	0.01	-0.04	1.91	0.41	0.09	0.06	0.35	0.01	0.19	0.34	0.18	0.09	0.02	0.11	0.04	-0.01	0.02
	Sep	1.71	-0.04	-0.12	0.02	-0.06	-0.07	-0.01	0.05	1.82	0.31	0.07	0.08	0.39	0.03	0.21	0.32	0.12	0.08	0.03	0.13	0.05	-0.03	0.03
	Oct	2.07	-0.03	-0.17	0.03	-0.17	0.00	-0.03	0.17	2.10	0.38	0.10	0.10	0.28	0.05	0.20	0.42	0.17	0.06	0.07	0.20	0.02	-0.02	0.04
	Nov	1.96	-0.02	-0.18	0.00	-0.11	-0.04	-0.03	0.03	2.14	0.47	0.14	0.12	0.35	-0.01	0.17	0.37	0.16	0.05	0.10	0.18	0.02	-0.03	0.04
	Dec	1.34	-0.03	-0.23	0.14	-0.24	-0.09	-0.03	-0.23	1.85	0.38	0.14	0.11	0.35	-0.05	0.18	0.29	0.06	0.06	0.12	0.17	0.03	-0.04	0.03
2019	Jan	1.77	-0.02	-0.05	0.01	-0.06	0.01	-0.01	0.09	1.75	0.47	0.14	0.12	0.53	-0.16	0.07	0.15	0.12	0.10	0.14	0.09	0.03	-0.07	0.01
	Feb	2.38	-0.01	-0.02	0.05	0.08	-0.14	-0.01	0.28	2.12	0.44	0.17	0.15	0.61	-0.23	0.06	0.30	0.24	0.13	0.15	0.10	0.05	-0.05	0.00
	Mar	2.37	-0.01	0.15	0.09	0.24	-0.19	0.01	0.31	1.91	0.56	0.19	0.11	0.48	-0.23	0.06	0.21	0.17	0.15	0.15	0.11	0.05	-0.08	-0.02
	Apr	1.51	-0.01	-0.22	-0.02	-0.14	-0.08	0.01	0.19	1.54	0.44	0.15	0.07	0.52	-0.26	0.07	0.10	0.13	0.14	0.15	0.13	0.02	-0.09	-0.02
	May	1.42	-0.01	0.00	0.00	-0.07	0.05	0.02	0.12	1.30	0.25	0.08	0.04	0.51	-0.22	0.08	0.10	0.17	0.12	0.15	0.15	-0.01	-0.09	-0.02
	Jun	1.13	-0.01	-0.13	0.01	-0.18	0.06	-0.01	0.01	1.26	0.23	0.03	0.07	0.52	-0.18	0.07	0.18	0.04	0.10	0.17	0.16	0.00	-0.10	-0.03
	Jul	1.23	-0.01	-0.15	-0.05	-0.09	-0.01		0.08	1.29	0.16	0.08	0.04	0.58	-0.17	0.08	0.00	0.07	0.15	0.07	0.19	0.16	0.00	-0.02
	Aug	0.97	-0.01	-0.24	-0.07	-0.16	-0.03	0.00	0.11	1.10	0.20	0.03	0.03	0.36	-0.14	0.10	0.09	0.10	0.06	0.19	0.17	0.01	-0.05	-0.02
	Sep	0.87	-0.01	-0.19	-0.03	-0.18	0.00	0.01	0.03	1.05	0.24	0.01	0.03	0.37	-0.15	0.12	0.04	0.08	0.07	0.16	0.16	0.00	-0.03	-0.02
	Oct	0.65	-0.02	-0.18	-0.09	-0.11	0.00	0.01	-0.13	0.97	0.23	0.00	-0.02	0.46	-0.17	0.15	0.03	0.00	0.08	0.16	0.15	-0.03	-0.04	-0.02