Statistical bulletin

GDP monthly estimate, UK: August 2018

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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Next release:
9 November 2018

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1 . UK gross domestic product (GDP) grew by 0.7% in the three months to August 2018

Figure 1: Rolling three-month growth continued to be boosted in part by warm weather

UK GDP growth, Quarter 4 (Oct to Dec) 2016 until June to August 2018

Figure 1: Rolling three-month growth continued to be boosted in part by warm weather

UK GDP growth, Quarter 4 (Oct to Dec) 2016 until June to August 2018

Growth (%)

Source: Office for National Statistics

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 data are calculated by comparing growth in a three-month period with growth in the previous three-month period, for example, growth in June to August compared with the previous March to May.

Commenting on today's GDP figures, Head of GDP Rob Kent-Smith said:

"The economy continued to rebound strongly after a weak spring, with retail, food and drink production and housebuilding all performing particularly well during the hot summer months. However, long-term growth continues to lag behind its historical trend."

2 . All three main sectors contributed positively to GDP growth

Figure 2: The services sector was the largest contributor to GDP growth at 0.42 percentage points

Contribution to UK GDP growth, June to August 2018

Figure 2: The services sector was the largest contributor to GDP growth at 0.42 percentage points

Contribution to UK GDP growth, June to August 2018

Contribution to growth

[Bar chart showing contribution to growth with y-axis from 0 to 0.5. Index of Services approximately 0.42, Index of Production approximately 0.1, Construction approximately 0.17]
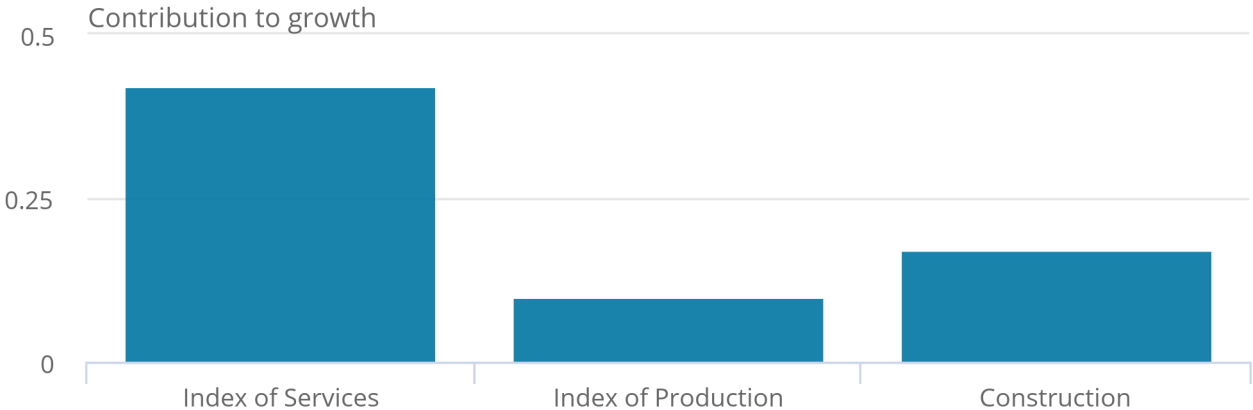
Source: Office for National Statistics

The services sector had a rolling three-month growth of 0.5%, resulting in a large positive contribution to headline GDP growth. The production industries and construction also had positive contributions to GDP growth, with rolling three-month growths of 0.7% and 2.9%, respectively.

3 . Three-month growth in August 2018 was on par with an upwardly-revised three-month growth in July 2018

Figure 3: Rolling three-month growth increased by 0.7% in August 2018

UK GDP growth, three months on previous three months, July to September 2017 until June to August 2018

Figure 3: Rolling three-month growth increased by 0.7% in August 2018

UK GDP growth, three months on previous three months, July to September 2017 until June to August 2018

Growth (%)

[Line chart showing rolling three-month growth with y-axis from -0.5 to 1 and x-axis categories: Aug-Oct 2017, Oct-Dec 2017, Dec-Feb 2018, Feb-Apr 2018, Apr-June 2018, June-Aug 2018. Values start around 0.4, dip to 0.3, rise to 0.5, fall to -0.1 at Feb-Apr 2018, then rise to about 0.7 by June-Aug 2018.]
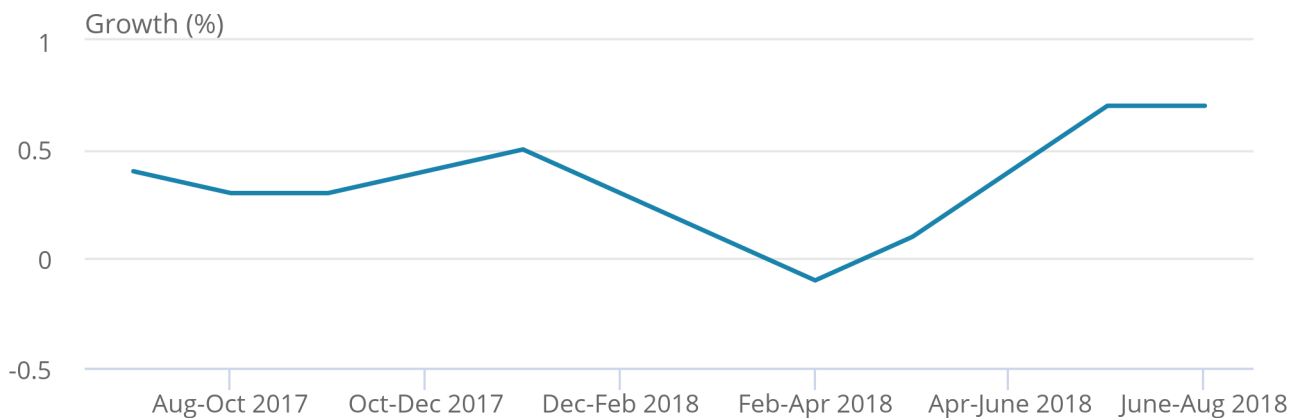
Source: Office for National Statistics

Notes:

1. Rolling three-month data are calculated by comparing growth in a three-month period with growth in the previous three-month period, for example, growth in June to August compared with the previous March to May.

Rolling three-month growth increased by 0.7% in August 2018, the same rate of growth as in July 2018. These were the highest growth rates since February 2017. The growth continued to pick up from the negative growth in April 2018, with the most recent period rebounding from this weak start to the year and being boosted by the warmer than usual weather in the summer months. Rolling three-month growth in July 2018 was revised up 0.1 percentage points to 0.7%, due to revisions to the services sector.

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

4 . GDP growth was flat in August 2018

Table 1: Breakdown of GDP growth rates by month

UK GDP growth, June 2018, July 2018 and August 2018

		Growth (%)	
	Jun-18	Jul-18	Aug-18
GDP	0.2%	0.4%	0.0%
Index of Services	0.0%	0.3%	0.0%
Index of Production	0.9%	0.4%	0.2%
Manufacturing	1.0%	0.0%	-0.2%
Construction	0.9%	0.5%	-0.7%
Agriculture	-0.2%	-0.2%	-0.2%

Source: Office for National Statistics

The month-on-month growth rate was flat in August 2018. Growth rates in June and July 2018 were both revised up by 0.1 percentage points to 0.2% and 0.4%, respectively.

The monthly growth rate for GDP is volatile and therefore 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 . Long-term perspective shows subdued growth in the services sector

Figure 4: The services sector grew by 1.6% in June to August 2018 compared with the same period a year earlier

Services growth, three months on three months a year earlier, November to January 2016 until June to August 2018

Figure 4: The services sector grew by 1.6% in June to August 2018 compared with the same period a year earlier

Services growth, three months on three months a year earlier, November to January 2016 until June to August 2018

Growth (%)

3.0	
2.0	
1.0	
0.0	

Dec-Feb 2016   June-Aug 2016   Dec-Feb 2017   June-Aug 2017   Dec-Feb 2018   June-Aug 2018
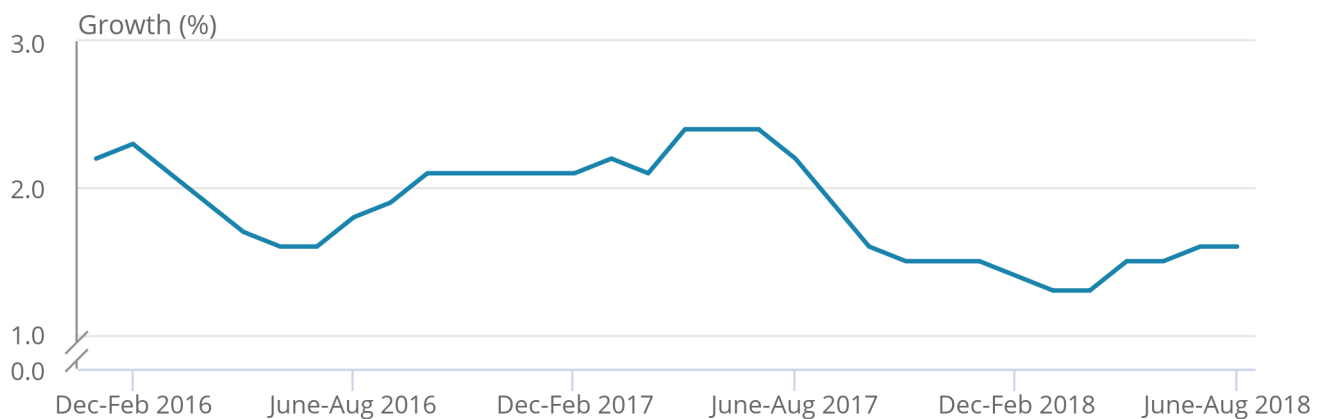
Source: Office for National Statistics

Growth within the services sector has been comparatively subdued, as seen when examining the current three-month period compared with the same three months a year earlier. Growth rates remained broadly constant throughout 2016 and most of 2017, however, there has been a slowdown in growth since July 2017. Since then, three-month on a year ago growth was lowest in March and April 2018, with a slight recovery in more recent periods.

Rolling three-month services growth was 0.5%. There was broad-based growth, with 8 out of 14 subsectors showing positive growth. Notably, wholesale and retail trade showed strong growth, in part due to warmer than usual weather in the summer months.

Monthly growth in the services sector was flat. Accommodation and food service activities was the biggest drag with growth of negative 1.6%, falling back from high growth in July 2018. This was offset by a rise in motor trade in August 2018, with a growth of 1.7%. The Society of Motor Manufacturers and Traders (SMMT) also reported higher demand than usual for the month of August, ahead of regulatory changes in September 2018.

Monthly index, September 2016 to August 2018

Figure 5: Information and communication output continues to rise, driven by computer programming

Monthly index, September 2016 to August 2018
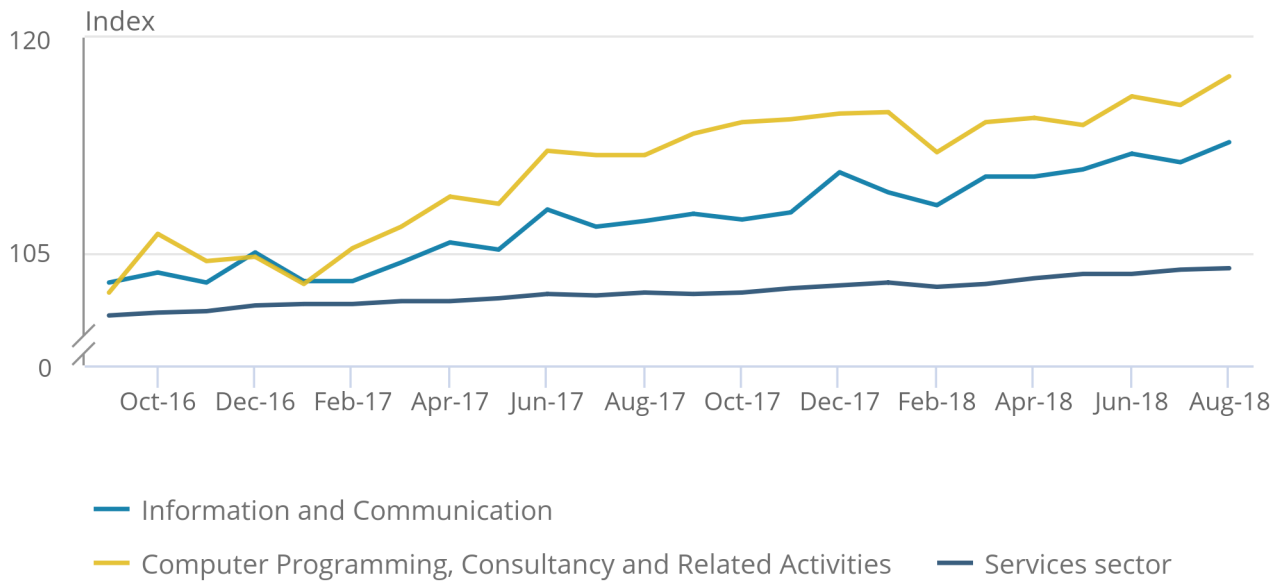
Source: Office for National Statistics

The information and communication industry also provided a strong contribution to monthly growth (0.08 percentage points), continuing the trend seen over the past two years. Figure 5 shows the index for this industry has grown well above the index for the services sector as a whole. Within information and communication, computer programming has been particularly strong (see Index of Services bulletin).

6 . Production and manufacturing return to similar levels seen in late 2017

Figure 6: Production recovers but manufacturing slips slightly in August 2018

Monthly index, December 2016 to August 2018

Figure 6: Production recovers but manufacturing slips slightly in August 2018

Monthly index, December 2016 to August 2018
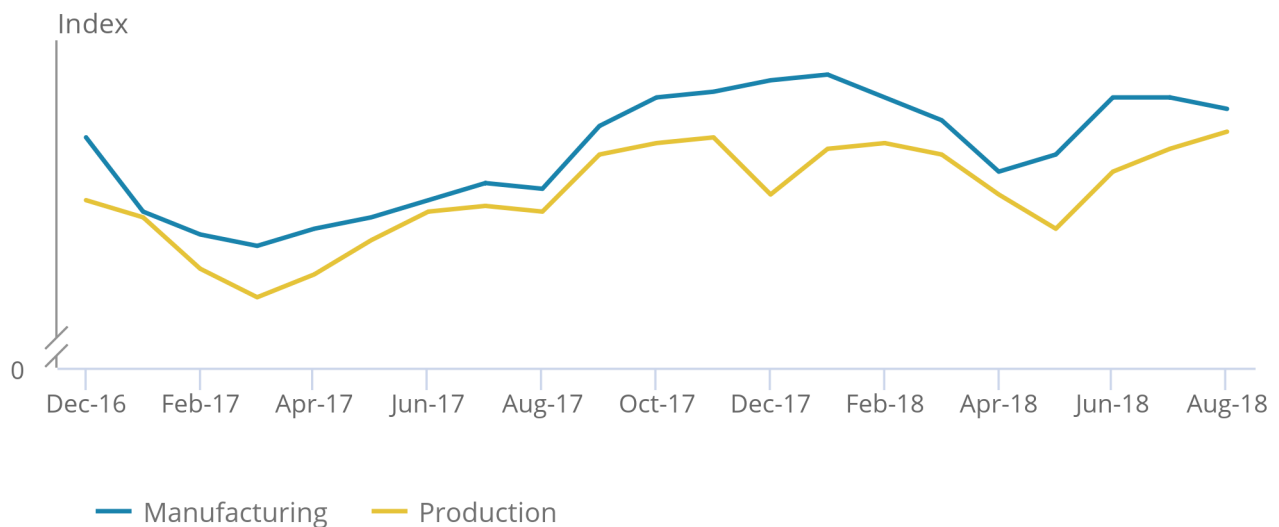
Source: Office for National Statistics

Monthly production growth was 0.2%. Within production, manufacturing had growth of negative 0.2%. 7 out of 13 manufacturing industries experienced negative growth in August 2018.

Rolling three-month growth was 0.7% in production. Mining and quarrying saw growth of 1.8%, continuing the bounceback seen in rolling three-month growth in July 2018. Manufacturing grew by 0.8%, driven by pharmaceuticals, and food and beverage production.

7 . Construction continued a strong rebound after weakness earlier in the year

Figure 7: Construction slipped slightly after recovering from a fall at the start of 2018

Monthly construction index, September 2017 to August 2018

Figure 7: Construction slipped slightly after recovering from a fall at the start of 2018

Monthly construction index, September 2017 to August 2018
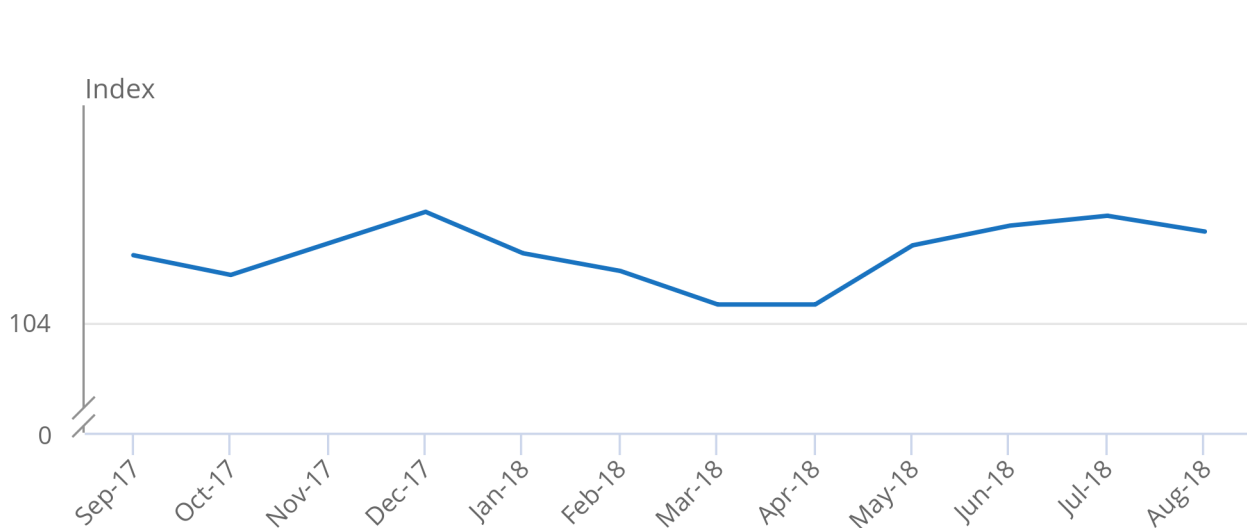
Source: Office for National Statistics

Rolling three-month construction growth was 2.9% in August 2018. Strong growth in this period in part reflected weakness in March and April 2018, which fall into the base period to which the current three months are being compared. This is apparent when examining the monthly index as seen in Figure 7. Private housing new work was the largest contributor to rolling three-month growth.

Monthly growth in construction in August 2018 was negative 0.7%. This was due to broad-based weakness within the sector.

8 . Things you need to know about this release

Please note that the tables associated with this release now include contributions data.

As per our revisions policy, this release reflects the revisions that were published as part of the Quarterly national accounts (QNA) on 28 September 2018. Due to timing issues, these revisions did not include the most recent retail sales figures published on 20 September 2018. For this release, we are constrained to the published QNA data up to Quarter 2 (Apr to June) 2018. Therefore, while we have taken on the most recent retail sales figures for July and August, the three-month on three-month estimates for the retail industry may not be fully consistent with the latest retail sales publication. This has no impact on GDP growth to one decimal place.

9 . Quality and methodology

The Gross Domestic Product (GDP) Quality and Methodology Information report contains important information on:

- the strengths and limitations of the data and how it compares with related data

- uses and users of the data

- how the output was created

- the quality of the output including the accuracy of the data

10 . Related links

Index of Services, UK: August 2018

Index of Production, UK: August 2018

Construction output in Great Britain: August 2018

GVA1

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

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	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
	L2KK	L2KL	L2KQ	L2KR	L2KX	L2MW	L2N2	L2N8	L2NC	L2NE	L2NI	L2NQ	L2NT	L2O6	L2OC	L2OI	L2OX	L2P8	L2PA	L2PC	L2PJ	L2PP	L2PT
2013	92.6	93.5	96.4	91.8	96.8	103.1	90.9	84.6	92.6	87.4	94.1	91.5	87.9	101.3	93.1	86.7	84.9	105.8	97.4	93.8	96.7	88.9	98.6
2014	95.7	104.9	97.9	92.3	99.6	96.9	91.5	92.0	95.5	91.7	99.0	94.0	89.0	99.5	96.0	92.2	92.8	103.8	98.9	96.9	99.1	98.6	93.6
2015	98.1	106.0	99.0	99.7	99.6	97.9	94.7	96.1	98.1	95.8	100.3	98.5	94.3	96.6	99.4	96.7	97.9	101.8	100.6	98.4	99.8	102.1	92.5
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	102.3	102.9	102.0	100.6	102.6	98.3	103.0	107.2	102.0	101.9	102.1	102.7	106.4	100.4	101.0	104.4	104.3	100.3	100.5	99.6	102.2	103.9	92.3
	ECY2	ECY3	ECY4	ECY5	ECY6	ECY7	ECY8	ECY9	ECYC	ECYD	ECYG	ECYH	ECYI	ECYJ	ECYK	ECYL	ECYP	ECYQ	ECYR	ECYS	ECYT	ECYU	ECYV
2016 Aug	100.2	99.4	100.1	105.0	99.6	99.1	100.6	99.5	100.2	100.1	100.2	100.5	101.8	101.1	99.8	100.6	99.5	99.9	99.7	100.1	98.2	98.9	106.7
Sep	100.6	99.6	100.1	101.7	100.4	97.0	100.3	101.1	100.6	101.0	100.6	101.4	102.9	101.5	99.6	100.9	101.6	99.9	99.6	99.9	99.7	97.1	102.1
Oct	100.5	99.9	98.8	93.2	99.1	99.4	100.7	101.3	100.8	102.1	101.2	101.0	103.6	100.8	99.8	101.0	100.9	99.9	99.7	99.8	99.9	99.9	96.4
Nov	101.1	100.2	101.0	99.3	100.6	104.2	101.4	102.9	100.9	101.9	100.8	101.7	102.9	100.9	99.8	102.2	101.8	99.8	99.9	99.7	100.7	102.0	91.4
Dec	101.7	100.2	102.2	98.3	103.3	99.0	101.4	105.1	101.3	102.0	102.1	101.7	105.0	100.5	99.9	102.9	101.7	99.8	100.3	99.8	102.8	104.3	87.3
2017 Jan	101.8	101.4	101.9	100.0	102.0	101.1	103.4	106.6	101.4	100.9	102.3	102.1	103.0	101.4	100.3	103.6	102.5	99.8	100.8	99.7	103.3	105.0	88.4
Feb	101.6	102.3	101.0	99.4	101.6	97.0	104.0	106.4	101.4	101.3	102.5	103.8	103.0	101.2	100.5	102.4	102.8	99.9	101.0	99.6	101.5	103.5	88.7
Mar	101.8	102.6	100.5	101.5	101.4	92.3	104.4	106.9	101.6	101.6	103.2	102.5	104.3	101.1	100.5	102.9	103.8	100.1	100.8	99.7	100.6	104.9	89.2
Apr	101.8	102.6	100.9	99.4	101.7	96.2	103.0	106.7	101.6	101.6	101.6	103.3	105.7	100.9	100.8	102.1	101.4	100.3	100.5	99.8	102.3	105.5	91.3
May	102.1	102.6	101.5	101.1	101.9	98.7	102.8	106.4	101.8	101.3	102.0	102.9	105.2	100.7	101.1	103.5	104.1	100.4	100.4	99.9	100.6	106.2	92.3
Jun	102.4	102.9	102.0	105.7	102.2	97.8	102.9	107.1	102.1	102.3	100.7	101.7	108.0	100.6	101.1	104.3	104.3	100.4	100.3	99.7	101.0	104.7	96.7
Jul	102.3	103.3	102.1	101.8	102.5	99.3	102.4	106.4	102.0	101.9	101.7	102.1	108.0	100.3	101.2	104.1	104.3	100.3	100.4	99.6	101.1	103.9	98.4
Aug	102.6	103.7	102.0	101.4	102.4	99.6	102.1	108.3	102.2	102.5	101.7	102.2	107.2	100.1	101.4	104.8	104.8	100.2	100.4	99.3	102.8	105.3	97.5
Sep	102.6	103.8	103.0	103.6	103.5	100.3	102.2	107.4	102.1	102.1	101.7	101.4	107.7	99.9	101.2	105.6	104.8	100.3	100.5	99.1	102.9	105.2	95.3
Oct	102.6	103.7	103.2	105.5	104.0	97.2	103.1	106.4	102.2	102.3	102.5	102.0	107.3	99.5	101.3	105.6	105.4	100.4	100.5	99.3	103.9	102.9	91.4
Nov	103.0	103.3	103.3	103.8	104.1	99.2	102.6	108.0	102.5	102.9	102.9	103.0	107.8	99.4	101.4	107.1	106.5	100.6	100.4	99.5	102.4	100.8	88.3
Dec	103.1	102.8	102.3	84.0	104.3	100.9	103.3	109.6	102.7	101.9	103.0	103.3	110.6	99.6	101.4	107.3	106.4	100.6	100.3	99.6	104.1	101.0	90.1
2018 Jan	103.2	102.2	103.1	102.6	104.4	97.4	101.0	107.5	102.9	102.4	102.6	104.2	109.2	99.8	101.5	108.8	106.8	100.6	100.2	99.6	103.1	102.0	92.8
Feb	102.9	101.9	103.2	100.6	104.0	100.7	101.7	106.6	102.6	102.9	101.3	102.9	108.3	100.0	101.6	107.6	104.8	100.6	100.3	99.6	102.8	101.3	95.3
Mar	103.0	101.9	103.0	97.7	103.6	102.6	102.3	104.9	102.8	102.1	101.0	103.2	110.3	100.0	101.6	108.2	105.3	100.7	100.6	99.7	104.5	102.3	99.1
Apr	103.2	102.1	102.3	104.6	102.7	99.6	100.8	104.9	103.2	103.2	102.1	104.0	110.3	100.0	101.5	109.4	105.7	100.7	100.9	99.7	105.6	102.3	98.0
May	103.5	102.2	101.7	99.1	103.0	95.4	102.1	107.9	103.5	104.9	103.0	104.7	110.8	99.9	101.6	108.8	105.3	100.7	101.0	99.7	105.9	101.3	95.5
Jun	103.7	102.0	102.7	99.2	104.0	95.8	104.5	108.9	103.5	104.5	103.5	105.7	111.9	100.0	101.5	108.0	105.3	100.6	100.6	99.8	107.5	100.9	94.5
Jul	104.1	101.8	103.1	102.8	104.0	97.5	104.1	109.4	103.8	105.3	103.9	106.6	111.3	100.1	101.7	110.0	105.6	100.5	100.8	99.9	107.8	100.7	90.9
Aug	104.1	101.9	103.4	104.9	103.8	99.3	104.8	108.6	103.9	105.5	104.1	104.9	112.7	100.2	101.7	110.1	105.0	100.5	100.8	100.1	106.1	100.2	90.0

Percentage change, latest year on previous year

	L3BA	L3BB	L3BG	L3BH	L3BN	L3DM	L3DQ	L3DW	L3E2	L3E4	L3E8	L3EG	L3EJ	L3EU	L3F2	L3F8	L3FN	L3FW	L3FY	L3G2	L3G9	L3GF	L3GJ
2013	1.4	0.4	-0.7	-2.8	-1.0	-0.1	4.2	1.5	1.8	5.0	1.1	-2.7	2.3	-2.2	2.5	5.6	4.9	-2.4	0.7	2.3	-3.6	0.2	1.9
2014	3.4	12.2	1.5	0.6	2.9	-6.0	0.7	8.8	3.2	4.9	5.2	2.7	1.3	-1.7	3.1	6.3	9.4	-1.8	1.5	3.4	2.5	11.0	-5.1
2015	2.5	1.1	1.2	8.0	0.0	1.0	3.4	4.4	2.7	4.5	1.3	4.8	6.0	-2.9	3.5	4.9	5.5	-1.9	1.7	1.5	0.7	3.6	-1.2
2016	1.9	-5.6	1.0	0.3	0.4	2.1	5.6	4.1	1.9	4.4	-0.3	1.5	6.0	3.5	0.6	3.4	2.1	-1.8	-0.6	1.6	0.2	-2.1	8.1
2017	2.3	2.9	2.0	0.6	2.6	-1.7	3.0	7.2	2.0	1.9	2.1	2.7	6.4	0.4	1.0	4.4	4.3	0.3	0.5	-0.4	2.2	3.9	-7.7

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
2016 Aug	0.5	-0.3	-0.1	6.0	-0.5	-2.4	1.0	1.4	0.6	0.4	0.5	0.7	3.0	1.7	-0.4	0.9	0.3	-0.2	0.0	-0.1	0.7	-0.7	6.3
Sep	0.6	-0.2	-0.4	5.1	-0.5	-3.9	0.1	1.1	0.8	0.9	0.6	0.8	4.4	1.8	-0.2	0.9	1.2	0.0	-0.1	-0.1	1.0	-0.8	-0.2
Oct	0.8	0.1	-0.5	-3.2	0.1	-2.1	-0.5	1.4	1.0	1.8	1.4	1.7	4.5	1.0	0.0	1.2	1.8	0.1	-0.3	-0.2	-0.4	-0.4	-6.4
Nov	0.9	0.4	-0.1	-6.7	0.6	0.4	0.2	2.3	0.9	2.2	1.3	1.8	3.2	0.4	0.0	1.4	2.2	0.0	-0.1	-0.3	0.6	0.8	-11.0
Dec	0.9	0.6	0.6	-7.8	1.3	2.4	0.6	2.9	0.8	1.8	1.4	1.4	2.1	-0.4	0.1	1.5	1.3	0.0	0.3	-0.3	1.5	3.7	-13.6
2017 Jan	1.1	1.0	2.1	-0.8	2.3	3.0	1.5	4.2	0.7	0.5	1.1	0.8	0.9	-0.2	0.3	2.0	1.3	-0.1	0.7	-0.2	3.0	5.2	-12.5
Feb	1.0	1.4	1.7	1.2	2.3	-1.2	2.1	4.2	0.6	-0.2	1.4	1.1	0.5	0.0	0.5	1.6	0.8	0.0	0.0	-0.1	2.4	4.6	-8.8
Mar	0.6	2.0	0.4	3.5	0.7	-4.0	2.8	3.4	0.4	-0.7	1.3	1.3	-0.4	0.5	0.6	0.9	1.5	0.1	0.9	-0.1	0.7	2.4	-3.2
Apr	0.2	1.8	-0.9	0.9	-0.4	-6.2	1.7	1.7	0.3	-0.1	0.7	1.4	0.6	0.1	0.6	-0.4	0.7	0.3	0.4	0.0	-0.8	0.8	0.8
May	0.2	1.2	-0.7	1.5	-0.6	-3.3	0.5	0.6	0.3	0.0	0.0	0.4	1.3	-0.1	0.6	-0.1	0.8	0.5	-0.1	0.1	-1.3	1.2	3.1
Jun	0.3	0.6	0.3	1.8	0.3	0.8	-1.0	0.2	0.4	0.4	-1.2	-0.1	2.7	-0.5	0.6	0.3	0.3	0.5	-0.4	0.1	-0.5	1.0	5.2
Jul	0.5	0.4	1.0	2.7	0.7	3.6	-1.1	0.0	0.5	0.4	-1.1	-0.3	2.3	-0.5	0.5	1.4	1.5	0.3	0.4	0.0	-0.5	0.3	6.7
Aug	0.5	0.7	1.0	2.2	0.7	3.3	-0.9	0.5	0.4	0.8	-1.0	-0.3	2.1	-0.6	0.5	1.5	1.3	0.0	-0.2	-0.3	0.4	-0.9	7.3
Sep	0.4	0.9	0.9	0.2	0.9	2.2	-0.6	0.5	0.3	0.5	0.1	-0.2	0.9	-0.6	0.3	1.5	1.3	-0.1	0.1	-0.4	0.9	-1.3	3.9
Oct	0.3	0.8	0.9	0.6	1.1	0.4	-0.2	0.6	0.2	0.5	0.6	-1.1	0.7	-0.7	0.1	1.3	0.7	-0.1	0.1	-0.5	2.2	-1.1	-1.1
Nov	0.3	0.3	1.1	1.3	1.4	0.0	0.2	0.0	0.2	0.2	1.1	-0.5	0.3	-0.7	0.0	1.7	1.1	0.1	0.1	-0.2	1.4	-2.2	-6.0
Dec	0.4	-0.3	0.6	-4.4	1.3	-0.7	0.7	0.6	0.4	0.2	1.2	0.2	1.3	-0.6	0.1	1.8	1.5	0.2	-0.1	0.1	1.2	-2.4	-7.3
2018 Jan	0.5	-0.9	0.2	-6.5	0.9	0.1	-0.2	1.0	0.5	0.1	0.8	1.7	1.7	-0.2	0.1	2.3	1.5	0.3	-0.2	0.3	0.0	-2.4	-4.6
Feb	0.3	-1.3	-0.3	-8.2	0.4	0.8	-0.6	0.6	0.4	0.0	0.0	1.3	1.6	0.2	0.2	1.7	0.4	0.2	-0.2	0.3	0.3	-0.9	1.2
Mar	0.1	-1.2	0.1	2.6	-0.1	1.2	-1.3	-1.6	0.3	0.1	-1.1	0.6	0.6	0.4	0.2	1.4	-0.5	0.1	0.0	0.2	0.0	0.2	6.5
Apr	-0.1	-0.8	-0.1	4.3	-0.8	1.8	-0.7	-2.7	0.2	0.3	-1.3	-0.2	0.4	0.4	0.2	0.6	-1.2	0.1	0.3	0.1	1.1	0.7	7.9
May	0.1	-0.2	-0.5	5.0	-1.1	-0.5	-0.2	-1.9	0.4	1.0	-0.3	0.5	1.0	0.2	0.1	0.8	-0.5	0.1	0.5	0.0	1.9	0.6	5.2
Jun	0.4	0.1	-0.8	0.7	-0.7	-3.3	0.8	0.8	0.6	1.7	1.2	1.3	1.6	0.0	0.0	0.5	-0.2	0.0	0.5	0.1	2.7	-0.3	0.3
Jul	0.7	0.1	-0.3	-0.6	0.2	-4.7	1.9	3.1	0.7	2.1	2.0	2.3	1.6	0.0	0.0	0.5	0.1	0.0	0.3	0.2	2.6	-1.0	-3.9
Aug	0.7	-0.2	0.7	1.8	0.8	-1.7	2.6	2.9	0.5	1.6	1.8	1.7	1.4	0.1	0.0	0.5	-0.1	-0.2	0.0	0.3	1.7	-1.4	-5.9

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.

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

GVA2

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

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	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
2016 Aug	1.7	-6.8	0.9	3.3	0.2	1.7	4.3	3.7	1.8	3.7	-0.9	2.1	5.4	6.1	0.0	3.1	0.4	-1.6	-0.8	1.2	-0.1	-3.9	25.5
Sep	1.9	-6.5	0.9	3.3	0.4	0.1	5.1	4.7	1.9	4.2	-0.6	1.7	7.2	6.3	-0.4	3.6	0.8	-1.4	-1.1	1.1	-0.6	-4.6	21.9
Oct	2.0	-6.0	0.1	-2.2	0.1	-1.0	5.8	5.0	2.1	5.3	0.1	1.7	8.4	5.8	-0.5	3.4	1.6	-1.3	-1.2	0.9	-0.4	-3.9	12.8
Nov	2.1	-5.3	0.7	-2.6	0.5	1.5	6.1	5.8	2.1	5.5	0.4	1.3	8.5	5.2	-0.5	3.5	2.5	-1.2	-1.2	0.6	-0.1	-3.0	1.6
Dec	2.3	-4.3	2.1	-2.8	1.9	5.0	5.3	6.1	2.1	5.3	1.1	1.1	8.3	3.8	-0.5	4.0	2.9	-1.2	-1.1	0.4	0.2	-0.1	-6.6
2017 Jan	2.6	-2.6	3.4	1.1	2.8	7.5	5.5	7.6	2.1	4.0	1.8	2.0	7.4	3.0	-0.3	5.3	3.4	-1.1	-0.6	0.2	0.6	2.2	-9.5
Feb	2.6	-0.6	3.3	1.7	3.2	4.1	5.5	7.9	2.1	3.1	2.5	2.8	7.3	2.5	-0.3	5.2	3.2	-0.9	-0.2	-0.1	0.7	3.2	-8.8
Mar	2.6	1.3	2.4	2.5	2.7	-1.3	6.4	9.4	2.2	2.7	3.4	3.6	6.5	2.6	0.0	5.2	3.6	-0.6	0.3	-0.5	1.2	4.1	-7.4
Apr	2.4	2.4	1.2	1.2	2.1	-5.9	5.6	8.7	2.1	2.8	3.2	4.3	7.4	2.4	0.1	3.7	3.0	-0.2	0.6	-0.5	2.0	4.4	-8.6
May	2.5	2.8	0.9	1.5	1.7	-6.4	3.8	8.7	2.4	2.4	3.2	4.0	8.3	1.9	0.6	3.8	4.2	0.3	0.7	-0.4	2.3	6.0	-11.0
Jun	2.5	3.0	0.9	2.0	1.7	-4.8	2.4	7.7	2.4	2.5	2.0	3.4	9.2	1.3	1.1	3.7	4.3	0.5	0.6	-0.3	2.7	6.4	-12.2
Jul	2.6	3.4	1.7	-0.4	2.6	-2.0	1.7	7.5	2.4	2.5	2.1	3.6	8.4	0.5	1.4	4.3	5.4	0.6	0.4	-0.4	1.3	5.9	-11.9
Aug	2.5	3.8	2.0	-2.1	3.0	-0.8	1.8	7.8	2.2	2.7	1.7	3.0	7.3	-0.3	1.5	4.3	5.2	0.5	0.6	-0.6	2.1	5.8	-10.2
Sep	2.3	4.2	2.3	-2.7	3.1	1.2	1.6	7.1	1.9	2.0	1.6	2.4	5.5	-1.1	1.6	4.3	4.5	0.4	0.7	-0.7	2.6	5.9	-8.6
Oct	2.2	4.1	3.1	3.5	3.6	0.6	1.9	6.7	1.6	1.2	1.3	0.8	4.5	-1.3	1.5	4.5	4.3	0.5	0.8	-0.7	3.9	5.2	-6.9
Nov	2.0	3.7	3.2	6.3	3.8	-1.3	1.8	5.4	1.5	0.7	1.5	0.7	4.3	-1.5	1.5	4.7	4.1	0.6	0.7	-0.5	3.0	2.7	-5.2
Dec	1.8	3.1	2.2	0.8	3.1	-1.8	1.8	4.7	1.5	0.3	1.4	1.3	4.5	-1.2	1.5	4.6	4.6	0.7	0.4	-0.3	2.3	-0.5	-1.9
2018 Jan	1.6	2.1	1.2	-2.4	2.2	-2.3	0.2	3.3	1.5	0.8	1.1	1.7	5.3	-1.3	1.4	4.7	4.5	0.8	0.0	-0.1	0.9	-2.4	1.5
Feb	1.4	1.0	1.1	-3.5	1.9	0.6	-0.9	1.7	1.4	1.0	0.0	0.9	5.5	-1.2	1.3	4.8	3.6	0.8	-0.4	-0.1	0.8	-2.7	5.2
Mar	1.3	-0.1	2.0	0.0	2.3	3.5	-2.2	-0.3	1.3	1.2	-1.0	0.6	5.6	-1.3	1.1	5.1	2.5	0.7	-0.5	0.0	1.7	-2.5	7.8
Apr	1.3	-0.5	2.0	0.8	1.9	6.1	-2.1	-1.1	1.3	1.2	-0.9	0.1	5.1	-1.1	1.0	5.8	2.5	0.6	-0.2	-0.1	2.8	-2.5	8.6
May	1.3	-0.5	1.4	-0.2	1.4	3.6	-1.6	-0.8	1.5	1.9	-0.2	1.0	5.2	-0.9	0.8	5.8	2.3	0.4	0.3	-0.1	4.1	-3.3	7.3
Jun	1.4	-0.5	0.8	-1.1	1.3	-0.7	-0.4	0.4	1.5	2.4	1.4	2.1	4.5	-0.8	0.5	5.3	2.1	0.3	0.5	-0.1	4.9	-3.7	2.8
Jul	1.5	-0.9	0.6	-2.4	1.4	-2.4	0.8	1.9	1.6	3.0	2.1	2.7	4.4	-0.6	0.4	4.8	1.1	0.2	0.5	0.1	6.1	-3.8	-2.2
Aug	1.5	-1.4	1.0	-0.6	1.5	-1.4	1.9	1.6	1.6	2.8	2.6	3.0	4.4	-0.3	0.3	4.8	0.8	0.2	0.4	0.4	5.4	-3.8	-5.8

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
2016 Aug	0.3	0.0	0.0	-3.4	0.5	-0.6	-0.3	-0.7	0.4	0.8	1.1	2.3	1.5	0.1	0.1	0.6	0.2	0.0	-0.1	0.0	-2.7	-0.2	-2.6
Sep	0.4	0.2	0.0	-3.2	0.8	-2.1	-0.2	1.6	0.4	0.9	0.5	0.9	1.1	0.5	-0.2	0.3	2.1	0.0	-0.1	-0.2	1.5	-1.8	-4.3
Oct	0.0	0.3	-1.3	-8.3	-1.3	2.4	0.4	0.3	0.2	1.0	0.5	-0.4	0.7	-0.7	0.2	0.1	-0.6	0.0	-0.1	0.1	0.2	2.8	-5.6
Nov	0.5	0.3	2.3	6.5	1.5	4.9	0.7	1.6	0.1	-0.2	-0.3	0.7	-0.7	0.1	0.0	1.2	0.9	0.0	0.2	-0.1	0.8	2.1	-5.2
Dec	0.6	0.1	1.2	-1.0	2.6	-5.0	-0.1	2.2	0.4	0.2	1.2	-0.1	2.1	-0.4	0.0	0.6	-0.2	0.0	0.4	0.1	2.1	2.2	-4.5
2017 Jan	0.1	1.2	-0.4	1.7	-1.2	2.1	2.1	1.4	0.0	-1.1	0.3	0.4	-1.9	0.9	0.5	0.7	0.8	0.0	0.5	-0.1	0.5	0.7	1.3
Feb	-0.1	0.8	-0.8	-0.6	-0.5	-4.0	0.6	-0.2	0.0	0.4	0.2	1.7	-0.1	-0.1	0.1	-1.1	0.3	0.1	0.2	0.0	-1.7	-1.5	0.3
Mar	0.2	0.3	-0.5	2.2	-0.2	-4.8	0.4	0.5	0.3	0.3	0.7	-1.2	1.2	-0.1	0.1	0.4	1.0	0.2	-0.2	0.1	-0.9	1.4	0.5
Apr	0.0	0.0	0.4	-2.1	0.3	4.2	-1.4	-0.2	-0.1	0.0	-1.6	0.8	1.3	-0.2	0.3	-0.7	-2.3	0.2	-0.2	0.2	1.7	0.6	2.4
May	0.3	0.0	0.6	1.7	0.2	2.6	-0.1	-0.1	0.2	-0.3	0.5	-0.4	-0.4	-0.1	0.3	1.4	2.6	0.1	-0.2	0.1	-1.6	0.6	1.1
Jun	0.3	0.3	0.4	4.5	0.3	1.6	-0.4	0.5	0.3	1.1	0.6	2.2	-1.1	-0.3	0.1	-0.2	-0.1	-0.1	0.0	-0.2	0.4	-1.3	4.8
Jul	-0.1	0.4	0.1	-3.7	0.3	1.6	-0.4	-0.7	-0.1	-0.4	0.6	2.2	-1.1	-0.3	0.1	-0.2	-0.1	-0.1	0.0	-0.1	0.4	-0.8	1.8
Aug	0.3	0.4	-0.1	-0.4	-0.1	0.3	-0.3	1.8	0.2	0.5	0.4	-1.9	0.3	-0.2	0.2	0.6	0.5	-0.1	0.1	-0.2	1.6	1.3	-1.0
Sep	0.0	0.1	1.0	2.2	1.0	0.6	0.1	-0.8	-0.1	-0.3	-0.1	-0.7	0.5	-0.2	-0.2	0.9	0.1	0.1	0.1	-0.2	0.1	-1.9	-2.3
Oct	0.0	-0.1	0.2	1.8	0.5	-3.1	0.9	-0.9	0.1	0.1	0.8	0.6	-0.4	-0.4	0.1	0.0	0.6	0.1	-0.1	0.1	1.0	-0.3	-4.1
Nov	0.4	-0.4	0.1	-1.6	0.1	2.0	-0.5	1.5	0.3	0.6	0.4	1.0	0.5	-0.1	0.1	1.4	1.0	0.1	-0.1	0.2	-1.4	-2.0	-3.4
Dec	0.1	-0.5	-1.0	-19.0	0.2	1.7	0.7	1.5	0.2	-0.9	0.1	0.2	2.6	0.1	0.0	0.2	-0.1	0.1	0.0	0.1	1.6	0.2	2.0
2018 Jan	0.1	-0.5	0.8	22.1	0.1	-3.5	-2.2	-1.9	0.2	0.4	-0.3	0.9	-1.3	0.2	0.1	1.4	0.3	0.0	-0.1	0.0	-0.9	0.9	3.0
Feb	-0.3	-0.3	0.0	-2.0	-0.4	3.4	0.7	-0.9	-0.3	0.5	-1.3	-1.3	-0.8	0.2	0.1	-1.2	-1.9	0.0	0.1	0.0	-0.3	-0.7	2.7
Mar	0.1	0.0	-0.2	-2.9	-0.4	1.9	0.6	-1.6	0.2	-0.7	-0.3	0.3	1.8	0.0	0.0	0.6	0.5	0.0	0.3	0.0	1.7	1.0	4.0
Apr	0.2	0.2	-0.6	7.1	-0.9	-3.0	-1.5	0.0	0.4	1.0	1.1	0.8	0.1	-0.1	-0.1	1.0	0.4	0.0	0.3	0.0	1.0	0.2	-1.1
May	0.3	0.2	-0.6	-5.3	0.3	-4.2	1.3	2.8	0.2	1.7	0.9	0.7	0.4	-0.1	0.0	-0.5	-0.4	0.0	0.1	0.0	0.3	-1.1	-2.6
Jun	0.2	-0.2	0.9	0.0	1.0	0.5	2.3	0.9	0.0	-0.4	0.5	1.0	1.0	0.0	-0.1	-0.7	0.0	-0.1	-0.2	0.1	1.5	-0.4	-1.1
Jul	0.4	-0.2	0.4	3.7	0.0	1.7	-0.3	0.5	0.3	0.8	0.4	0.9	-0.5	0.1	0.2	1.8	0.3	-0.1	0.0	0.2	0.3	-0.2	-3.8
Aug	0.0	-0.2	0.2	2.1	-0.2	1.8	0.6	-0.7	0.0	0.1	0.2	-1.6	1.3	0.1	0.0	0.1	-0.6	-0.1	0.0	0.2	-1.6	-0.5	-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.

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]

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	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
2016 Aug	2.0	-6.5	0.8	0.3	0.6	0.8	5.6	4.9	2.0	4.8	-0.2	3.3	5.9	6.2	-0.4	4.2	0.2	-1.4	-1.1	1.2	-0.6	-3.4	25.3
Sep	2.1	-6.1	0.4	0.7	0.2	-2.1	6.3	5.8	2.2	4.9	0.0	1.6	10.7	6.1	-0.7	3.3	2.5	-1.2	-1.3	1.0	-1.6	-6.4	12.8
Oct	1.8	-5.4	-0.7	-7.6	-0.4	-1.7	5.4	4.5	2.2	6.2	0.6	0.2	8.5	5.0	-0.4	2.8	2.0	-1.2	-1.2	0.6	0.9	-1.8	1.7
Nov	2.4	-4.4	2.5	-1.0	1.6	8.5	6.6	7.1	2.0	5.4	0.7	2.0	6.3	4.3	-0.4	4.3	3.0	-1.2	-1.1	0.3	0.5	-0.9	-8.7
Dec	2.7	-3.0	4.5	0.2	4.4	8.6	4.1	6.8	2.1	4.3	2.0	1.0	10.0	2.1	-0.7	5.0	3.6	-1.3	-0.9	0.3	2.5		-12.3
2017 Jan	2.7	-0.4	3.2	4.2	2.4	5.3	5.8	9.0	2.2	2.4	2.7	3.0	5.9	2.7	0.1	6.7	3.6	-0.9	0.2	-0.1	2.0	5.1	-7.5
Feb	2.3	1.7	2.4	0.8	2.7	-1.3	6.7	7.9	1.8	2.8	2.8	4.4	5.9	2.6	-0.2	3.9	2.4	-0.7	0.0	-0.6	1.0	2.2	-6.6
Mar	2.9	2.7	1.8	2.6	2.8	-7.6	6.6	11.3	2.4	2.9	4.7	3.5	7.6	2.4	0.0	5.1	4.8	-0.1	0.8	-0.6	0.6	4.9	-8.0
Apr	2.1	2.8	-0.4	0.2	0.6	-8.7	3.7	7.0	2.2	2.6	2.1	5.1	8.7	2.0	0.6	2.2	1.8	0.3	1.1	-0.3	4.4	6.1	-10.9
May	2.6	2.9	1.2	1.8	1.8	-2.7	1.2	7.9	2.4	1.7	2.7	3.5	8.5	1.3	1.3	4.0	5.9	0.7	0.3	-0.2	2.0	6.8	-13.9
Jun	2.8	3.3	2.0	3.9	2.7	-2.9	2.3	8.3	2.6	3.2	1.2	1.7	10.3	0.7	1.3	4.8	5.4	0.7	0.4	-0.4	1.6	6.1	-11.7
Jul	2.4	3.9	2.0	-6.4	3.5	-0.2	1.5	6.2	2.2	2.7	2.2	5.8	6.5	-0.6	1.5	4.1	5.0	0.5	0.6	-0.5	0.2	4.9	-10.2
Aug	2.4	4.3	1.9	-3.4	2.8	0.6	1.5	8.9	2.0	2.4	1.6	1.6	5.3	-0.9	1.6	4.1	5.3	0.4	0.7	-0.8	4.6	6.4	-8.7
Sep	2.0	4.3	2.9	1.9	3.1	3.4	1.9	6.2	1.5	1.1	1.1	0.0	4.6	1.6	1.6	4.7	3.2	0.4	0.9	-0.7	3.2	6.3	-6.7
Oct	2.1	3.8	4.5	13.1	5.0	-2.2	2.4	5.0	1.4	0.2	1.3	0.9	3.5	-1.3	1.5	4.5	4.5	0.6	0.8	-0.5	4.0	3.1	-5.2
Nov	1.9	3.1	2.3	4.5	3.4	1.9	1.1	5.0	1.6	1.0	2.0	1.3	4.8	-1.4	1.5	4.8	4.6	0.7	0.4	-0.2	1.7	-1.1	-3.4
Dec	1.4	2.5	0.0	-14.5	1.0	1.9	1.9	4.2	1.4	-0.1	0.9	1.6	5.3	-0.9	1.5	4.4	4.7	0.8	0.0	-0.2	1.3	-3.1	3.2
2018 Jan	1.4	0.8	1.2	2.6	2.3	-3.7	-2.3	0.9	1.5	1.4	0.3	2.1	5.9	-1.5	1.2	5.0	4.2	0.8	-0.5	0.0	-0.2	-2.9	4.9
Feb	1.3	-0.4	2.1	1.2	2.4	3.8	-2.2	0.2	1.2	1.6	-1.1	-0.9	5.2	-1.2	1.2	5.0	1.9	0.7	-0.7	0.0	1.3	-2.1	7.4
Mar	1.2	-0.7	2.5	-3.8	2.2	11.1	-2.0	-1.9	1.2	0.5	-2.2	0.6	5.7	-1.0	1.1	5.2	1.5	0.6	-0.2	0.0	3.9	-2.5	11.2
Apr	1.4	-0.5	1.4	5.2	1.0	3.5	-2.1	-1.7	1.6	1.6	0.5	0.6	4.4	-0.9	0.7	7.1	4.2	0.4	0.3	-0.2	3.2	-2.9	7.4
May	1.4	-0.3	0.2	-1.9	1.1	-3.4	-0.7	1.2	1.6	3.6	1.0	1.7	5.3	-0.8	0.5	5.2	1.2	0.3	0.6	-0.2	5.2	-4.5	3.5
Jun	1.3	-0.8	0.7	-6.1	1.8	-2.0	1.6	1.6	1.4	2.1	2.8	3.9	3.7	-0.7	0.3	3.6	0.9	0.2	0.5	0.1	6.4	-3.7	-2.2
Jul	1.7	-1.5	1.0	1.0	1.4	-1.8	1.7	2.8	1.8	3.3	2.6	2.5	4.3	-0.2	0.4	5.7	1.3	0.2	0.4	0.4	6.6	-3.1	-7.6
Aug	1.5	-2.0	1.3	3.5	1.3	-0.4	2.6	0.3	1.6	2.9	2.3	2.7	5.2	0.0	0.3	5.1	0.2	0.2	0.3	0.8	3.2	-4.8	-7.6

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.

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]

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
2016 Aug	0.51	0.00	-0.01	0.07	-0.05	-0.04	0.01	0.08	0.44	0.05	0.02	0.02	0.19	0.12	-0.05	0.07	0.01	-0.01	0.00	-0.01	0.01	-0.01	0.03
Sep	0.63	0.00	-0.06	0.06	-0.05	-0.07	0.00	0.07	0.63	0.10	0.02	0.02	0.28	0.13	-0.03	0.07	0.05	0.00	-0.01	-0.01	0.01	-0.02	0.00
Oct	0.78	0.00	-0.07	-0.04	0.01	-0.04	0.00	0.08	0.76	0.19	0.06	0.05	0.29	0.07	0.00	0.09	0.08	0.00	-0.02	-0.01	-0.01	-0.01	-0.03
Nov	0.85	0.00	-0.01	-0.08	0.06	0.01	0.00	0.14	0.72	0.23	0.06	0.05	0.21	0.03	0.00	0.11	0.10	0.00	0.00	-0.02	0.01	0.02	-0.05
Dec	0.90	0.00	0.08	-0.10	0.13	0.04	0.01	0.18	0.63	0.20	0.06	0.04	0.14	-0.03	0.02	0.12	0.06	0.00	0.02	-0.02	0.02	0.07	-0.06
2017 Jan	1.08	0.01	0.28	-0.01	0.23	0.05	0.02	0.25	0.54	0.05	0.05	0.02	0.06	-0.02	0.04	0.15	0.06	0.00	0.04	-0.01	0.04	0.11	-0.05
Feb	0.97	0.01	0.24	0.01	0.22	-0.02	0.02	0.25	0.46	-0.03	0.06	0.03	0.03	0.00	0.06	0.12	0.04	0.00	0.05	-0.01	0.04	0.10	-0.03
Mar	0.62	0.01	0.06	0.03	0.06	-0.07	0.03	0.21	0.34	-0.08	0.06	0.04	-0.03	0.04	0.08	0.07	0.07	0.00	0.05	-0.01	0.01	0.05	-0.01
Apr	0.22	0.01	-0.12	0.01	-0.04	-0.11	0.02	0.11	0.23	-0.01	0.03	0.04	0.04	0.01	0.08	-0.03	0.03	0.01	0.03	0.00	0.01	0.02	0.00
May	0.18	0.01	-0.10	0.01	-0.06	-0.06	0.00	0.04	0.23	0.01	0.00	0.01	0.08	-0.01	0.08	-0.01	0.04	0.02	-0.01	0.01	-0.02	0.03	0.01
Jun	0.34	0.00	0.05	0.02	0.03	0.01	-0.01	0.01	0.28	0.05	-0.05	0.00	0.18	-0.03	0.08	0.02	0.01	0.02	-0.02	0.01	-0.01	0.02	0.02
Jul	0.51	0.00	0.14	0.03	0.07	0.06	-0.01	0.00	0.36	0.04	-0.05	-0.01	0.15	-0.04	0.07	0.11	0.07	0.01	-0.02	0.00	-0.01	0.01	0.02
Aug	0.53	0.00	0.14	0.02	0.07	0.05	-0.01	0.03	0.35	0.08	-0.04	-0.01	0.14	-0.04	0.06	0.11	0.06	0.00	-0.01	-0.02	0.01	-0.02	0.03
Sep	0.40	0.01	0.12	0.00	0.09	0.04	-0.01	0.03	0.24	0.05	0.01	0.00	0.06	-0.05	0.04	0.11	0.06	0.00	0.00	-0.03	0.01	-0.03	0.01
Oct	0.33	0.01	0.12	0.01	0.11	0.01	0.00	0.04	0.17	0.05	0.03	-0.03	0.04	-0.05	0.02	0.10	0.04	0.00	0.01	-0.03	0.03	-0.02	0.00
Nov	0.30	0.00	0.16	0.01	0.14	0.00	0.00	0.00	0.14	0.02	0.05	-0.01	0.02	-0.05	0.00	0.13	0.05	0.01	0.00	-0.02	0.02	-0.05	-0.02
Dec	0.40	0.00	0.08	-0.05	0.13	-0.01	0.01	0.04	0.28	0.02	0.05	0.01	0.08	-0.04	0.01	0.14	0.07	0.01	0.00	0.01	0.02	-0.05	-0.03
2018 Jan	0.49	-0.01	0.03	-0.08	0.09	0.00	0.00	0.06	0.41	0.01	0.03	0.05	0.11	-0.02	0.02	0.18	0.07	0.01	-0.01	0.02	0.00	-0.06	-0.02
Feb	0.33	-0.01	-0.04	-0.10	0.04	0.01	-0.01	0.04	0.35	0.00	0.00	0.04	0.11	0.01	0.03	0.13	0.02	0.01	-0.01	0.02	0.00	-0.02	0.00
Mar	0.14	-0.01	0.02	0.03	-0.01	0.02	-0.01	-0.10	0.22	0.01	-0.05	0.02	0.04	0.03	0.03	0.11	-0.02	0.00	0.00	0.01	0.00	0.01	0.02
Apr	-0.06	0.00	-0.01	0.05	-0.08	0.03	-0.01	-0.17	0.12	0.04	-0.06	-0.01	0.03	0.03	0.02	0.05	-0.06	0.00	0.02	0.00	0.02	0.02	0.03
May	0.15	0.00	-0.07	0.06	-0.11	-0.01	0.00	-0.11	0.34	0.10	-0.01	0.01	0.07	0.01	0.01	0.07	-0.03	0.00	0.03	0.00	0.03	0.01	0.02
Jun	0.41	0.00	-0.12	0.01	-0.07	-0.06	0.01	0.05	0.47	0.17	0.05	0.04	0.11	0.00	-0.01	0.04	-0.01	0.00	0.03	0.00	0.04	-0.01	0.00
Jul	0.69	0.00	-0.04	-0.01	0.02	-0.08	0.02	0.18	0.55	0.22	0.08	0.07	0.10	0.00	0.00	0.04	0.01	0.00	0.02	0.01	0.04	-0.02	0.00
Aug	0.69	0.00	0.10	0.02	0.08	-0.03	0.03	0.17	0.42	0.17	0.07	0.05	0.09	0.01	0.00	0.04	-0.01	-0.01	0.00	0.02	0.03	-0.03	-0.02

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
2016 Aug	1.70	-0.05	0.12	0.04	0.02	0.03	0.04	0.22	1.40	0.38	-0.04	0.06	0.34	0.42	0.00	0.24	0.02	-0.07	-0.05	0.09	0.00	-0.08	0.09
Sep	1.90	-0.04	0.12	0.04	0.04	0.00	0.05	0.28	1.54	0.44	-0.03	0.05	0.46	0.44	-0.06	0.27	0.04	-0.06	-0.07	0.08	-0.01	-0.10	0.08
Oct	1.98	-0.04	0.02	-0.03	0.01	-0.02	0.06	0.30	1.70	0.55	0.01	0.05	0.53	0.40	-0.07	0.26	0.07	-0.06	-0.07	0.07	-0.01	-0.08	0.05
Nov	2.11	-0.03	0.10	-0.03	0.05	0.03	0.06	0.35	1.69	0.57	0.02	0.04	0.53	0.36	-0.07	0.27	0.12	-0.06	-0.07	0.05	0.00	-0.06	0.01
Dec	2.30	-0.03	0.29	-0.03	0.19	0.08	0.05	0.37	1.67	0.55	0.05	0.03	0.52	0.27	-0.07	0.31	0.13	-0.06	-0.06	0.03	0.00	0.00	-0.03
2017 Jan	2.60	-0.02	0.47	0.01	0.28	0.12	0.05	0.45	1.69	0.41	0.08	0.06	0.45	0.22	-0.05	0.40	0.16	-0.05	-0.04	0.01	0.01	0.05	-0.04
Feb	2.56	0.00	0.46	0.02	0.32	0.07	0.05	0.47	1.64	0.32	0.11	0.08	0.44	0.18	-0.04	0.39	0.15	-0.04	-0.01	-0.01	0.01	0.07	-0.04
Mar	2.62	0.01	0.33	0.03	0.27	-0.02	0.06	0.55	1.72	0.28	0.15	0.11	0.40	0.19	-0.01	0.39	0.17	-0.03	0.02	-0.03	0.02	0.09	-0.03
Apr	2.41	0.02	0.17	0.01	0.21	-0.11	0.06	0.51	1.71	0.29	0.14	0.13	0.45	0.17	0.02	0.28	0.14	-0.01	0.04	-0.04	0.03	0.09	-0.03
May	2.52	0.02	0.12	0.02	0.17	-0.11	0.04	0.51	1.87	0.25	0.14	0.12	0.51	0.14	0.09	0.28	0.20	0.01	0.04	-0.03	0.04	0.13	-0.05
Jun	2.51	0.02	0.13	0.02	0.17	-0.09	0.02	0.46	1.91	0.26	0.09	0.10	0.56	0.10	0.15	0.28	0.21	0.03	0.04	-0.02	0.04	0.13	-0.05
Jul	2.61	0.02	0.24	0.00	0.26	-0.03	0.02	0.44	1.91	0.26	0.09	0.11	0.52	0.03	0.19	0.33	0.26	0.03	0.02	-0.03	0.02	0.12	-0.05
Aug	2.55	0.02	0.27	-0.02	0.30	-0.01	0.02	0.46	1.79	0.28	0.07	0.09	0.46	-0.02	0.21	0.33	0.25	0.02	0.03	-0.04	0.03	0.12	-0.05
Sep	2.27	0.03	0.31	-0.03	0.31	0.02	0.02	0.42	1.51	0.21	0.07	0.07	0.35	-0.08	0.22	0.33	0.21	0.02	0.04	-0.05	0.04	0.12	-0.04
Oct	2.16	0.03	0.42	0.04	0.36	0.01	0.02	0.40	1.30	0.12	0.06	0.02	0.29	-0.10	0.21	0.34	0.21	0.02	0.05	-0.05	0.06	0.11	-0.03
Nov	1.99	0.02	0.44	0.06	0.38	-0.02	0.02	0.33	1.20	0.08	0.06	0.02	0.28	-0.11	0.21	0.36	0.20	0.03	0.04	-0.04	0.04	0.06	-0.02
Dec	1.77	0.02	0.31	0.01	0.31	-0.03	0.02	0.29	1.15	0.04	0.06	0.04	0.29	-0.09	0.20	0.35	0.22	0.03	0.02	-0.02	0.04	-0.01	-0.01
2018 Jan	1.56	0.01	0.17	-0.03	0.23	-0.04	0.00	0.20	1.18	0.08	0.05	0.05	0.34	-0.09	0.19	0.36	0.22	0.04	0.00	-0.01	0.01	-0.06	0.01
Feb	1.35	0.01	0.16	-0.04	0.19	0.01	-0.01	0.11	1.08	0.10	0.00	0.03	0.34	-0.09	0.17	0.36	0.17	0.04	-0.02	0.00	0.01	-0.07	0.02
Mar	1.28	0.00	0.27	0.00	0.23	0.06	-0.02	-0.02	1.03	0.12	-0.04	0.02	0.35	-0.09	0.15	0.38	0.12	0.03	-0.03	0.00	0.02	-0.06	0.03
Apr	1.27	0.00	0.28	0.01	0.19	0.10	-0.02	-0.07	1.07	0.13	-0.04	0.00	0.32	-0.07	0.13	0.43	0.12	0.03	-0.01	0.00	0.04	-0.06	0.03
May	1.32	0.00	0.19	0.00	0.14	0.06	-0.02	-0.05	1.18	0.20	-0.01	0.03	0.33	-0.07	0.11	0.44	0.11	0.02	0.01	-0.01	0.06	-0.08	0.03
Jun	1.35	0.00	0.11	-0.01	0.13	-0.01	0.00	0.02	1.22	0.25	0.06	0.06	0.29	-0.06	0.07	0.40	0.10	0.01	0.03	-0.01	0.07	-0.09	0.01
Jul	1.46	-0.01	0.09	-0.03	0.14	-0.04	0.01	0.12	1.26	0.31	0.09	0.08	0.28	-0.04	0.06	0.37	0.06	0.01	0.03	0.01	0.09	-0.09	-0.01
Aug	1.48	-0.01	0.14	-0.01	0.15	-0.02	0.02	0.10	1.25	0.29	0.11	0.09	0.28	-0.02	0.05	0.36	0.04	0.01	0.02	0.03	0.08	-0.09	-0.02

1 The GVA output is designated as a National Statistic.
2 Estimates cannot be regarded as accurate to the last digit shown.
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01633 456724 or E-mail gdp@ons.gov.uk

CONTRIB 2

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

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	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**

Contributon 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
2016	Aug	0.27	0.00	0.00	-0.04	0.05	-0.01	0.00	-0.04	0.31	0.09	0.05	0.06	0.10	0.01	0.01	0.05	0.01	0.00	-0.01	0.00	-0.04	0.00	-0.01
	Sep	0.39	0.00	0.00	-0.04	0.08	-0.03	0.00	0.10	0.29	0.10	0.02	0.03	0.08	0.03	-0.03	0.02	0.10	0.00	0.00	-0.02	0.02	-0.04	-0.02
	Oct	-0.01	0.00	-0.18	-0.10	-0.13	0.04	0.00	0.02	0.15	0.11	0.02	-0.01	0.05	-0.05	0.03	0.01	-0.03	0.00	0.00	-0.01	0.00	0.05	-0.02
	Nov	0.52	0.00	0.31	0.07	0.15	0.08	0.01	0.10	0.11	-0.03	-0.02	0.02	-0.05	0.01	0.00	0.09	0.04	0.00	0.01	-0.01	0.01	0.04	-0.02
	Dec	0.62	0.00	0.17	-0.01	0.26	-0.09	0.00	0.14	0.31	0.02	0.05	0.00	0.14	-0.03	0.01	0.05	-0.01	0.00	0.02	0.01	0.03	0.05	-0.02
2017	Jan	0.08	0.01	-0.05	0.02	-0.12	0.04	0.02	0.09	0.04	-0.11	0.01	0.01	-0.12	0.06	0.06	0.06	0.04	0.00	0.03	-0.01	0.01	0.02	0.00
	Feb	-0.14	0.01	-0.12	-0.01	-0.05	-0.07	0.01	-0.01	-0.02	0.04	0.01	0.05	0.00	-0.01	0.02	-0.09	0.01	0.00	0.01	0.00	-0.03	-0.03	0.00
	Mar	0.16	0.00	-0.07	0.02	-0.02	-0.08	0.00	0.03	0.20	0.03	0.03	-0.04	0.08	-0.01	0.01	0.03	0.05	0.01	-0.01	0.00	-0.01	0.03	0.00
	Apr	-0.01	0.00	0.06	-0.02	0.03	0.07	-0.01	-0.01	-0.05	-0.01	-0.07	0.02	0.09	-0.02	0.04	-0.05	-0.11	0.01	-0.01	0.01	0.03	0.01	0.01
	May	0.27	0.00	0.08	0.02	0.02	0.04	0.00	-0.01	0.20	-0.03	0.02	-0.01	-0.03	-0.01	0.03	0.10	0.13	0.01	-0.01	0.01	-0.03	0.01	0.00
	Jun	0.33	0.00	0.06	0.05	0.03	-0.02	0.00	0.03	0.23	0.11	-0.06	-0.03	0.17	-0.01	0.01	0.06	0.01	0.00	0.00	-0.02	0.01	-0.03	0.02
	Jul	-0.09	0.00	0.01	-0.04	0.03	0.03	0.00	-0.04	-0.07	-0.04	0.03	0.07	-0.07	-0.02	0.01	-0.01	0.00	0.00	0.00	-0.01	0.00	-0.02	0.01
	Aug	0.26	0.00	-0.01	0.00	-0.01	0.01	0.00	0.11	0.16	0.06	0.02	-0.06	0.02	-0.01	0.02	0.05	0.02	0.00	0.00	-0.02	0.02	0.03	0.00
	Sep	0.02	0.00	0.13	0.02	0.10	0.01	0.00	-0.05	-0.06	-0.03	0.00	-0.02	0.03	-0.02	-0.03	0.07	0.00	0.00	0.00	-0.01	0.00	-0.04	-0.01
	Oct	0.03	0.00	0.03	0.02	0.05	-0.05	0.01	-0.06	0.05	0.01	0.03	0.02	-0.03	-0.03	0.01	0.00	0.03	0.01	0.00	0.01	0.01	-0.01	-0.02
	Nov	0.36	0.00	0.02	-0.02	0.01	0.03	-0.01	0.09	0.25	0.06	0.02	0.03	0.03	0.00	0.01	0.11	0.05	0.01	-0.01	0.02	-0.02	-0.04	-0.01
	Dec	0.10	0.00	0.14	-0.20	0.02	0.03	0.01	0.09	0.15	-0.09	0.00	0.01	0.17	0.01	0.00	0.02	0.00	0.00	0.00	0.01	0.02	0.00	0.01
2018	Jan	0.13	0.00	0.12	0.22	0.01	-0.06	-0.02	-0.12	0.14	0.04	-0.01	0.03	-0.09	0.02	0.02	0.11	0.02	0.00	-0.01	0.00	-0.01	0.02	0.01
	Feb	-0.30	0.00	0.00	-0.02	-0.04	0.06	0.01	-0.05	-0.25	0.06	-0.05	-0.04	-0.05	0.01	0.02	-0.09	-0.09	0.00	0.01	0.00	0.00	-0.02	0.01
	Mar	0.07	0.00	-0.03	-0.03	-0.04	0.03	0.01	-0.09	0.19	-0.08	-0.01	0.01	0.12	0.00	0.00	0.05	0.02	0.00	0.02	0.00	0.02	0.02	0.02
	Apr	0.22	0.00	-0.09	0.08	-0.09	-0.05	-0.01	0.00	0.30	0.10	0.05	0.02	0.01	0.00	-0.01	0.08	0.02	0.00	0.02	0.00	0.02	0.01	0.02
	May	0.28	0.00	-0.09	-0.06	0.03	-0.07	0.01	0.17	0.19	0.18	0.04	0.02	0.03	0.00	0.01	-0.04	-0.02	0.00	0.01	0.00	0.00	-0.03	-0.01
	Jun	0.19	0.00	0.13	0.00	0.10	0.01	0.02	0.06	0.01	-0.04	0.02	0.03	0.07	0.00	-0.02	-0.06	0.00	0.00	-0.01	0.01	0.02	-0.01	0.00
	Jul	0.36	0.00	0.06	0.04	0.00	0.03	0.00	0.03	0.27	0.09	0.02	0.03	-0.04	0.01	0.02	0.14	0.01	-0.01	0.00	0.01	0.00	0.00	-0.01
	Aug	0.00	0.00	0.03	0.02	-0.02	0.03	0.01	-0.04	0.01	0.01	0.01	-0.05	0.08	0.01	0.01	0.01	-0.03	0.00	0.00	0.01	-0.02	-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
2016	Aug	1.98	-0.04	0.11	0.00	0.06	0.01	0.06	0.29	1.63	0.50	-0.01	0.09	0.38	0.43	-0.06	0.32	0.01	-0.06	-0.07	0.09	-0.01	-0.07	0.09
	Sep	2.12	-0.04	0.05	0.01	0.02	-0.03	0.06	0.35	1.76	0.51	0.00	0.05	0.66	0.43	-0.09	0.25	0.12	-0.06	-0.08	0.07	-0.02	-0.13	0.05
	Oct	1.85	-0.04	-0.10	-0.09	-0.04	-0.03	0.05	0.27	1.71	0.64	0.03	0.01	0.54	0.35	-0.05	0.21	0.09	-0.05	-0.07	0.04	0.01	-0.04	0.01
	Nov	2.36	-0.03	0.35	-0.01	0.16	0.14	0.07	0.43	1.61	0.56	0.03	0.06	0.40	0.30	-0.06	0.33	0.14	-0.05	-0.07	0.02	0.01	-0.02	-0.04
	Dec	2.70	-0.02	0.62	0.00	0.44	0.13	0.04	0.42	1.69	0.45	0.09	0.03	0.63	0.15	-0.09	0.38	0.17	-0.06	-0.05	0.02	-0.01	0.05	-0.05
2017	Jan	2.74	0.00	0.43	0.04	0.25	0.09	0.06	0.53	1.78	0.25	0.12	0.09	0.36	0.20	0.01	0.49	0.17	-0.04	0.01	-0.01	0.03	0.11	-0.03
	Feb	2.25	0.01	0.32	0.01	0.27	-0.02	0.07	0.47	1.45	0.29	0.12	0.13	0.36	0.19	-0.03	0.29	0.12	-0.03	0.00	-0.05	0.02	0.05	-0.03
	Mar	2.88	0.02	0.24	0.03	0.28	-0.13	0.06	0.65	1.95	0.30	0.20	0.10	0.47	0.18	0.00	0.38	0.23	-0.01	0.05	-0.05	0.01	0.10	-0.03
	Apr	2.12	0.02	-0.05	0.00	0.06	-0.16	0.04	0.42	1.74	0.27	0.09	0.15	0.53	0.15	0.09	0.17	0.08	0.02	0.06	-0.03	0.07	0.13	-0.05
	May	2.58	0.02	0.16	0.02	0.18	-0.05	0.01	0.47	1.93	0.18	0.12	0.10	0.52	0.10	0.18	0.30	0.28	0.03	0.02	-0.01	0.03	0.14	-0.06
	Jun	2.84	0.02	0.28	0.04	0.27	-0.05	0.02	0.49	2.05	0.33	0.05	0.05	0.64	0.05	0.18	0.36	0.26	0.03	0.02	-0.03	0.03	0.13	-0.05
	Jul	2.41	0.03	0.27	-0.07	0.34	0.00	0.02	0.37	1.73	0.27	0.09	0.17	0.41	-0.05	0.21	0.31	0.24	0.02	0.03	-0.04	0.00	0.10	-0.05
	Aug	2.40	0.03	0.26	-0.04	0.28	0.01	0.02	0.52	1.58	0.24	0.07	0.05	0.34	-0.07	0.22	0.31	0.25	0.02	0.04	-0.06	0.07	0.13	-0.04
	Sep	2.02	0.03	0.40	0.02	0.31	0.06	0.02	0.37	1.22	0.11	0.04	0.00	0.30	-0.12	0.21	0.36	0.15	0.02	0.05	-0.06	0.05	0.13	-0.03
	Oct	2.05	0.02	0.61	0.13	0.49	-0.04	0.02	0.30	1.12	0.02	0.06	0.03	0.23	-0.10	0.20	0.34	0.21	0.03	0.04	-0.04	0.06	0.06	-0.02
	Nov	1.89	0.02	0.32	0.05	0.34	-0.09	0.01	0.30	1.25	0.10	0.09	0.04	0.31	-0.11	0.21	0.36	0.22	0.03	0.03	-0.01	0.03	-0.02	-0.01
	Dec	1.37	0.02	0.01	-0.15	0.10	0.03	0.02	0.26	1.09	-0.01	0.04	0.05	0.34	-0.07	0.20	0.33	0.23	0.04	0.00	-0.01	0.02	-0.07	0.01
2018	Jan	1.43	0.00	0.18	0.03	0.23	-0.07	-0.02	0.05	1.19	0.15	0.01	0.06	0.37	-0.11	0.16	0.38	0.20	0.04	-0.03	0.00	0.00	-0.07	0.02
	Feb	1.26	0.00	0.30	0.01	0.24	0.07	-0.02	0.01	0.95	0.17	-0.05	-0.03	0.32	-0.09	0.16	0.38	0.09	0.03	-0.04	0.00	0.02	-0.05	0.03
	Mar	1.16	0.00	0.34	-0.05	0.22	0.18	-0.02	-0.11	0.95	0.06	-0.09	0.02	0.36	-0.07	0.15	0.39	0.07	0.03	-0.01	0.00	0.06	-0.06	0.04
	Apr	1.39	0.00	0.20	0.06	0.10	0.06	-0.02	-0.10	1.31	0.17	0.02	0.02	0.29	-0.06	0.10	0.53	0.20	0.02	0.02	-0.01	0.05	-0.07	0.03
	May	1.40	0.00	0.03	-0.02	0.11	-0.06	-0.01	0.08	1.30	0.38	0.04	0.05	0.34	-0.06	0.07	0.39	0.05	0.01	0.04	-0.01	0.08	-0.11	0.01
	Jun	1.26	-0.01	0.10	-0.08	0.18	-0.03	0.02	0.10	1.07	0.22	0.12	0.12	0.24	-0.05	0.05	0.27	0.05	0.01	0.03	0.01	0.09	-0.09	-0.01
	Jul	1.72	-0.01	0.14	0.01	0.15	-0.03	0.02	0.17	1.41	0.35	0.11	0.08	0.27	-0.02	0.06	0.43	0.06	0.01	0.03	0.03	0.10	-0.07	-0.03
	Aug	1.46	-0.01	0.19	0.04	0.13	-0.01	0.03	0.02	1.26	0.30	0.10	0.08	0.34	0.00	0.04	0.39	0.01	0.01	0.02	0.06	0.05	-0.12	-0.03

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