

Statistical bulletin

GDP monthly estimate, UK: June 2020

Gross domestic product (GDP) measures the value of goods and services produced in the UK. It estimates the size of and growth in the economy.



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11 September 2020

Correction

12 August 2020 16:51

A correction has been made to the statistician's comment in section 1 of the bulletin.

This was due to a small error where the quote states that productivity saw its largest fall in the second quarter since the three-day week. This has now been corrected to say that this was the largest fall ever.

All other versions of this quote in associated ONS publications, including social media, are correct. You can see the original content in the superseded version. We apologise for any inconvenience.

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1 . UK GDP fell by 20.4% in Quarter 2 (Apr to June) 2020

Figure 1: GDP saw its second consecutive quarterly decline in Quarter 2 2020

UK GDP growth, Quarter 1 (Jan to Mar) 2005 until Quarter 2 (Apr to June) 2020

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).

[Download the data](#)

This release captures the direct effects of the coronavirus (COVID-19) pandemic and the government measures taken to reduce transmission of the virus. The most significant was the introduction of restrictions in movement across the UK, which began on 23 March 2020.

This bulletin provides a broad overview of the economy and the impact of the coronavirus. A more detailed analysis of [Coronavirus and the impact on output in the UK economy](#) has also been published today (12 August 2020), along with a comprehensive account of [GDP first quarterly estimates for April to June 2020](#).

GDP estimates for June 2020 are subject to more uncertainty than usual as a result of the challenges we faced in collecting the data under government imposed public health restrictions.

Statistician's comment

Commenting on today's GDP and productivity figures for June and the second quarter, ONS Deputy National Statistical for Economic Statistics Jonathan Athow said:

"The recession brought on by the coronavirus pandemic has led to the biggest fall in quarterly GDP on record.

"The economy began to bounce back in June with shops reopening, factories beginning to ramp up production and housebuilding continuing to recover. Despite this, GDP in June still remains a sixth below its level in February, before the virus struck.

"Overall, productivity saw its largest ever fall in the second quarter. Hospitality was worst hit, with productivity in that industry falling by three quarters in recent months."

[Recent analysis](#) explains our latest position on how we are looking to communicate GDP, including how we will continue to acknowledge that "technical" recessions are comprising of at least two consecutive quarters of contracting GDP.

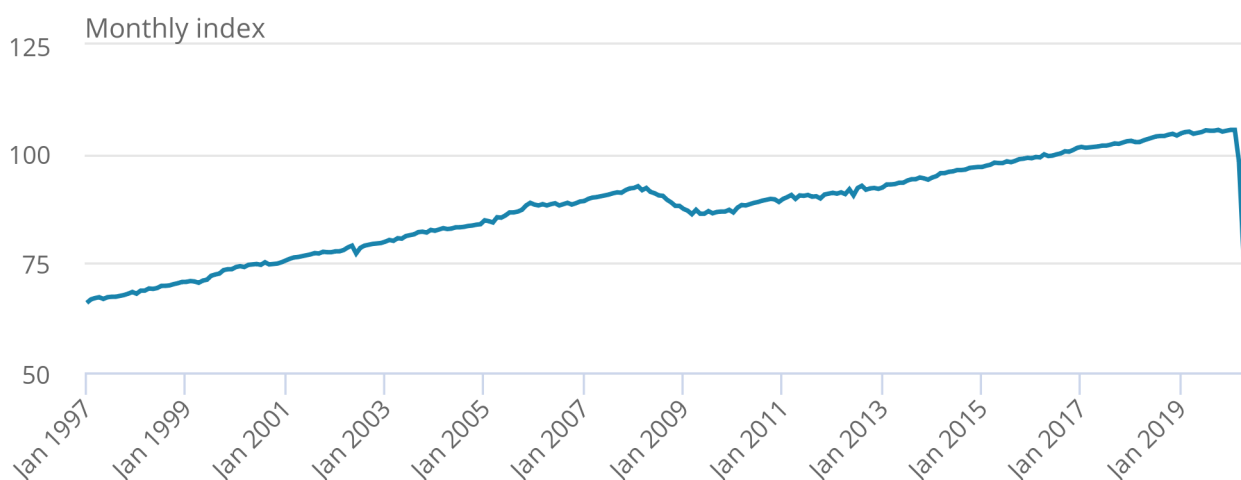
While it is still true that these early estimates are prone to revision, we prefer to focus on the magnitude of the contraction that has taken place in response to the coronavirus (COVID-19) pandemic. It is clear that the UK is in the largest recession on record. Our latest estimates show that the UK economy is now 17.2% smaller than it was in February, the effects of which have been most pronounced in those industries that are most exposed to public health restrictions and the effects of social distancing.

Figure 2: GDP grew by 8.7% in June 2020, but is still well below the levels seen in February 2020

Monthly index, January 1997 until June 2020

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Monthly index, January 1997 until June 2020



Source: Office for National Statistics – GDP monthly estimate

Looking at the monthly profile, Figure 2 shows the monthly GDP index level to June 2020. Monthly GDP grew by 8.7% in June 2020 as lockdown measures eased, following upwardly revised growth of 2.4% in May and a record fall of 20.0% in April 2020.

In the two months since its April 2020 low, the UK economy has grown by a total of 11.3%. However, it still remains 17.2% below levels seen in February 2020, before the full impact of the coronavirus. For more detail on the monthly data, please refer to [Section 3](#).

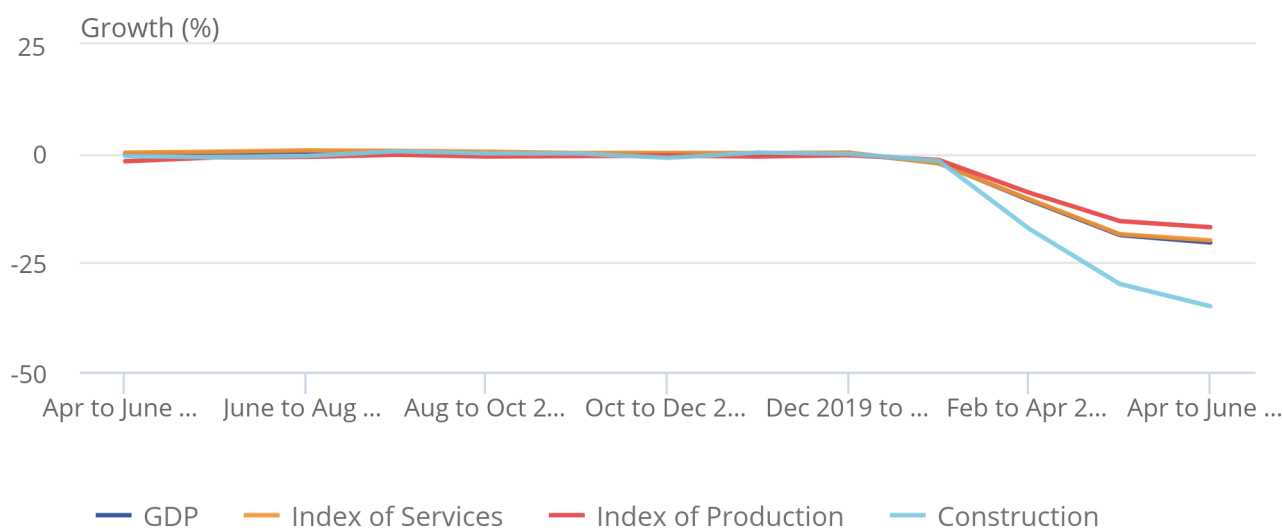
2 . GDP fell significantly in Quarter 2 (Apr to June) 2020 with widespread contractions across all main sectors of the economy

Figure 3: GDP fell by 20.4% in the three months to June 2020, with declines across all sectors

Growth, three months on previous three months, UK, April to June 2019 until April to June 2020

Figure 3: GDP fell by 20.4% in the three months to June 2020, with declines across all sectors

Growth, three months on previous three months, UK, April to June 2019 until April to June 2020



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 April to June compared with the previous January to March.

Gross domestic product (GDP) fell by 20.4% in the three months to June 2020, following a fall of 18.7% in the three months to May, as government restrictions on movement dramatically reduced economic activity.

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

Figure 4: Breakdown of GDP and its sub-sectors, rolling three-month growth rates and contributions to growth, April to June 2020

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 April to June compared with the previous January to March.
2. Growth for aggregate sub-sectors is a weighted average of components.
3. Components contributions may not sum to total due to rounding. Please use additional caution when aggregating individual contributions for April to June 2020, as the larger-than-usual growth rates mean that, when summed, the rounded contributions may not accurately represent the higher-level contribution being calculated.

[Download the data](#)

All the headline sectors provided a negative contribution to GDP growth in the three months to June 2020. The services sector fell by 19.9%, production by 16.9% and construction by 35.0%. The impacts of the coronavirus (COVID-19) continued to be seen right across the economy, with nearly all sub-sectors falling in the three months to June.

3 . GDP grew by 8.7% in June 2020

Monthly gross domestic product (GDP) grew by 8.7% in June 2020, following growth of 2.4% in May 2020. Despite this, the level of output did not fully recover from the record falls seen across March and April 2020, and has reduced by 17.2% compared with February 2020, before the full impact of the coronavirus (COVID-19) pandemic.

Looking ahead, results from [Wave 10](#) of the Business Impact of Coronavirus (COVID-19) Survey (BICS), which covered the dates 13 to 26 July 2020, found that of businesses currently trading, 45% reported their turnover exceeded their operating costs, compared with 16% who reported their operating costs exceeded their turnover. However, of those businesses currently trading, over half (54%) reported a decrease in turnover during this period compared with what is normally expected for July.

Table 1: Breakdown of GDP and its components' growth rates by month

	February 2020	March 2020	April 2020	May 2020	June 2020	Change in GDP (February 2020 to June 2020)	Rolling three- month growth (April to June 2020)
GDP	0.0%	-6.9%	-20.0%	2.4%	8.7%	-17.2%	-20.4%
Index of Services	0.0%	-7.5%	-18.5%	1.5%	7.7%	-17.6%	-19.9%
Index of Production	0.4%	-4.3%	-20.4%	6.2%	9.3%	-11.6%	-16.9%
Manufacturing	0.9%	-5.2%	-24.6%	8.3%	11.0%	-14.2%	-20.2%
Construction	-1.8%	-5.4%	-40.2%	7.6%	23.5%	-24.8%	-35.0%
Agriculture	0.0%	-0.9%	-5.7%	1.0%	2.7%	-3.1%	-4.8%

Source: Office for National Statistics – GDP monthly estimate

Notes

1. Change in GDP refers to the level change from February 2020 to June 2020. [Back to table](#)
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 April to June compared with the previous January to March. [Back to table](#)

This release features revisions to the monthly data back to April and May 2020 in line with the [UK National Accounts revisions policy](#). There has been an upward revision to both April and May. Monthly GDP for April is now estimated to have fallen by 20.0%, an upward revision of 0.3 percentage points. Monthly GDP for May is now estimated to have increased by 2.4%, an upward revision of 0.6 percentage points. These revisions are largely the result of reprofiling of the monthly path to fit updated quarterly information on education output in line with the expenditure measure of GDP.

The monthly growth rate for GDP is volatile. It should therefore 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.

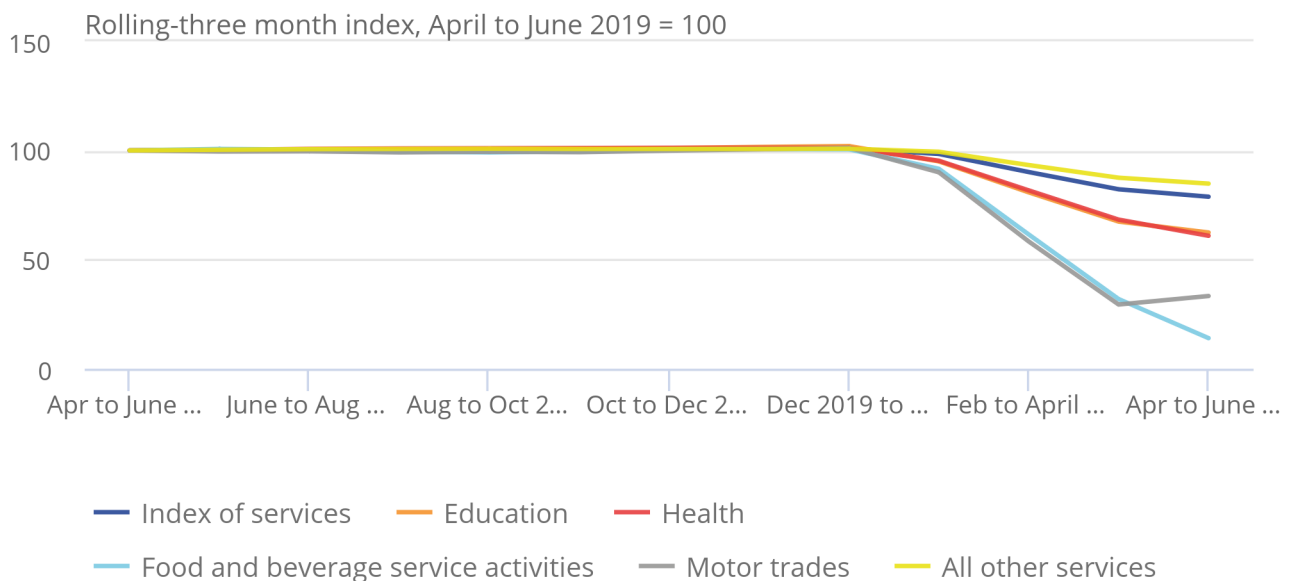
4 . The services sector fell by 19.9% in Quarter 2 (Apr to June) 2020

Figure 5: Services fell by 19.9% in the three months to June 2020, with widespread falls across the vast majority of industries

Rolling three-month on three-month index, April to June 2019 until April to June 2020

Figure 5: Services fell by 19.9% in the three months to June 2020, with widespread falls across the vast majority of industries

Rolling three-month on three-month index, April to June 2019 until April to June 2020



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 April to June compared with the previous January to March.
2. "All other services" accounts for 65% of services. This is made up of many industries, with the majority falling in the three months to June.
3. "Motor trades" refers to industry 45: Wholesale and retail trade and Repair of motor vehicles and motorcycle.

Rolling three-month services growth fell by 19.9% in June 2020, following falls of 18.5% in May 2020 and 10.5% in April 2020. This was driven by falls in nearly every industry, most notably:

- education, which fell by 34.4% as a result of school closures
- health, which fell by 36.1% as a result of reduced activity in elective operations and fewer accident and emergency visits
- food and beverage service activities, which fell by 84.7% as a result of the closure of bars and restaurants
- wholesale and retail trade and repair of motor vehicles and motorcycles, which fell by 63.0%, predominantly driven by a reduction in new car registrations

Looking at monthly services, Figure 6 shows the monthly level of output in the services sub-sectors as a proportion of February 2020 levels.

Figure 6: All sub-sectors of services showed an increase in growth in June 2020 but output did not recover to February 2020 levels

Monthly output (March, April, May and June 2020) as a proportion of February 2020, February 2020 output = 100%

Notes:

1. Chart shows the March, April, May and June output as a proportion of February 2020 where February output equals 100%
2. Public Administration and Defence output saw marginal positive growth across March, April, May and June 2020 so output to February 2020 is over 100%

[Download the data](#)

In June 2020, the services sector grew by 7.7%, following growth of 1.5% in May and a fall of 18.5% in April. The largest positive contributor to this increase was the wholesale, retail and repair of motor vehicles sub-sector, in particular the motor vehicles industry, which recovered to around three-quarters of its February 2020 level after seeing record low levels of output in April and May.

Despite an increase of 7.7% in services, the level of services output is 17.6% lower than the level in February 2020 before the full impact of the coronavirus.

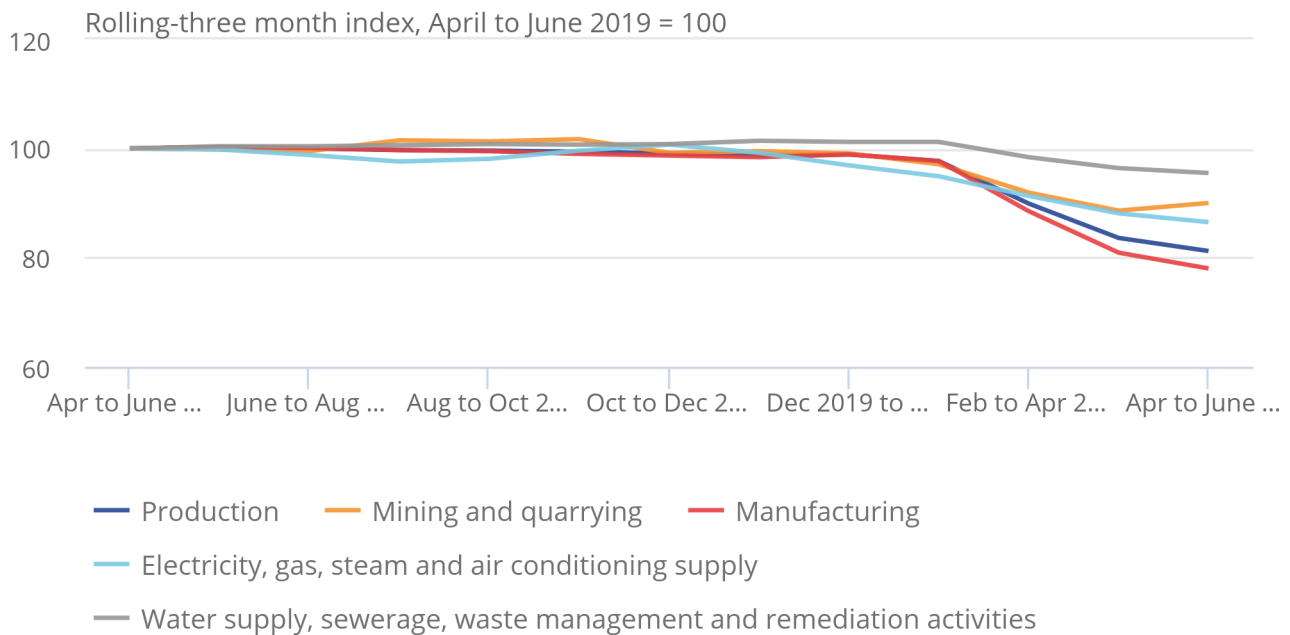
5 . Production fell by 16.9% in Quarter 2 (Apr to June) 2020

Figure 7: All four sub-sectors of production fell in the three months to June 2020

Rolling three-month on three-month index, April to June 2019 until April to June 2020

Figure 7: All four sub-sectors of production fell in the three months to June 2020

Rolling three-month on three-month index, April to June 2019 until April to June 2020



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 April to June compared with the previous January to March.

Rolling three-month output in the production sector fell by 16.9% in June 2020, following falls of 15.5% in May and 9.0% in April. This was driven by falls in all four sub-sectors:

- manufacturing, which fell by 20.2% as a result of widespread falls with 12 out of 13 sub-sectors falling; the most notable was the manufacture of transport equipment, which fell by 49.1% as [many factories remained closed](#)
- electricity, gas, steam and air conditioning supply, which fell by 8.8% as a result of falling industrial demand for electricity caused by the temporary closures of businesses
- water supply, which fell by 5.6% as a result of a decline in industrial and commercial waste, resulting directly from business closures
- mining and quarrying, which fell by 7.3% as a result of some coronavirus (COVID-19) related shutdowns, along with the reduced demand for oil and gas

Looking at monthly production, Figure 8 shows the monthly level of output in the manufacturing sub-sectors as a proportion of February 2020 levels.

Figure 8: Most sub-sectors of manufacturing showed an increase in growth in June 2020 but output did not recover to February 2020 levels

Monthly output (March, April, May and June 2020) as a proportion of February 2020, February 2020 output = 100%

Notes:

1. Chart shows the March, April, May and June output as a proportion of February 2020 where February output equals 100%
2. Manufacture of Basic Pharmaceuticals had higher output in March, April, May and June 2020 than February 2020, so the proportion is over 100%.

[Download the data](#)

Production grew by 9.3% in June 2020, with manufacturing growing by 11.0%. The manufacturing sector saw 11 out of 13 sub-sectors increasing after large falls across March and April 2020. Despite growth in the latest month, production output is 11.6% lower than the level in February 2020, with manufacturing 14.2% lower.

6 . Output in the construction sector fell by 35.0% in Quarter 2 (Apr to June) 2020

Rolling three-month growth in the construction sector was negative 35.0% in June 2020. This is a record fall in the three-month on three-month growth and was caused by record declines in all sectors apart from infrastructure. The largest contributors to this fall were private new housing and private commercial, which fell by 51.2% and 33.4% respectively.

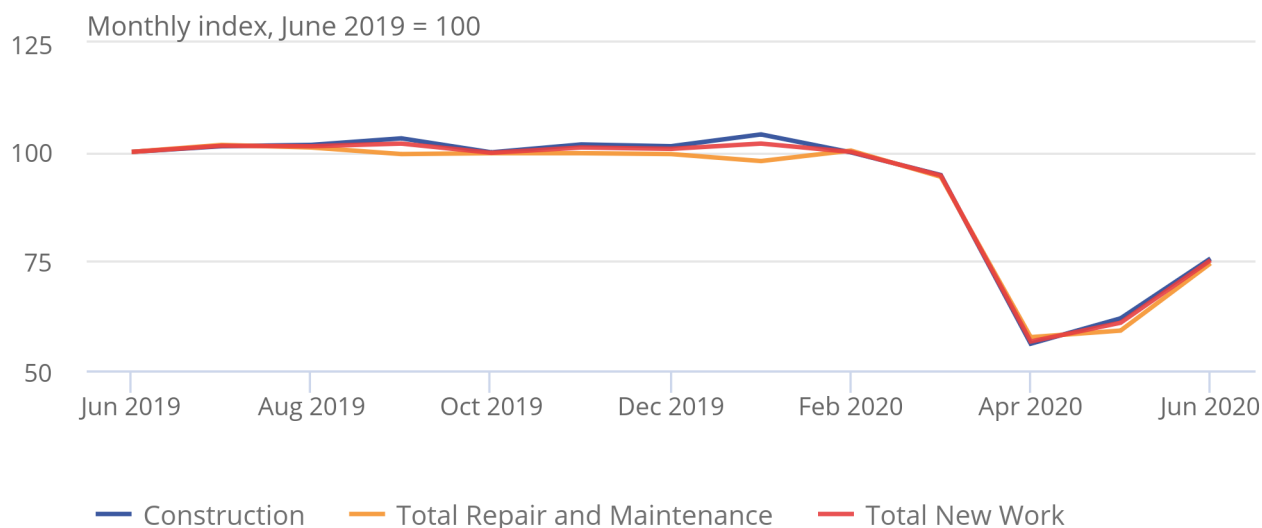
Looking at the monthly data, Figure 7 shows the monthly index for construction, total repair and maintenance, and total new work from June 2019 to June 2020.

Figure 9: Construction grew by 23.5% in June 2020 but the level of output remains 24.8% lower than February 2020

Monthly index, June 2019 to June 2020, June 2019 = 100

Figure 9: Construction grew by 23.5% in June 2020 but the level of output remains 24.8% lower than February 2020

Monthly index, June 2019 to June 2020, June 2019 = 100



Source: Office for National Statistics - Construction output in Great Britain

Month-on-month, output in construction grew by 23.5% following growth of 7.6% in May and a record fall of 40.2% in April 2020. This increase was driven by new housing, and in particular private new housing (18.1% weight to construction), which grew by 42.3% after large declines in March and April.

Despite growth in the construction sector, output remains 24.8% lower than the level in February 2020 before the full impact of the coronavirus.

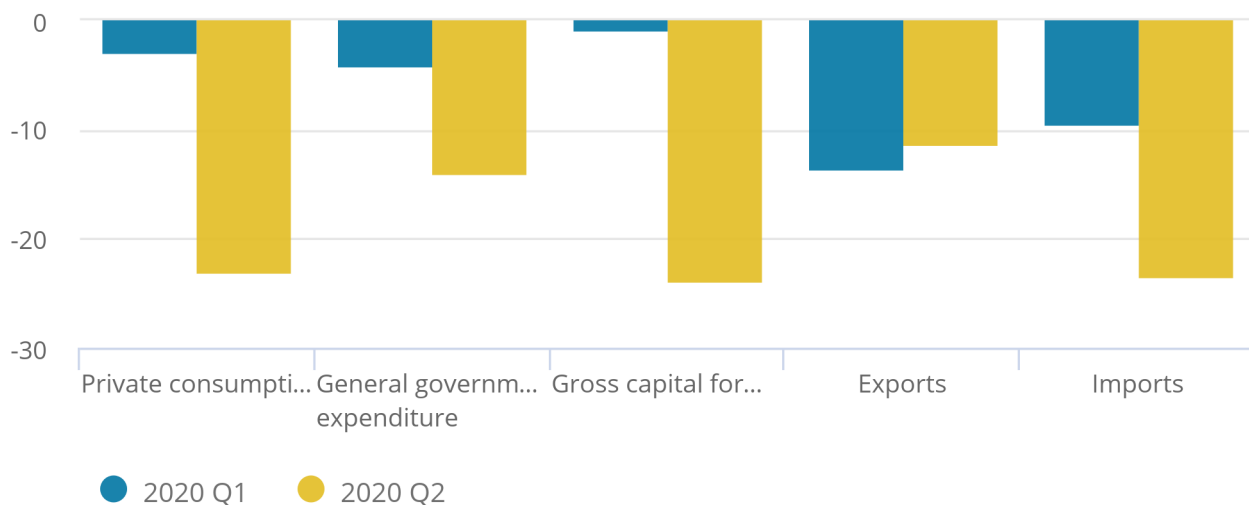
7 . Expenditure measure

Figure 10: There have been record contractions in private consumption, government consumption and gross capital formation, as well as large falls in gross trade flows in Quarter 2 2020

UK, Quarter 1 (Jan to Mar) 2020 and Quarter 2 (Apr to June) 2020

Figure 10: There have been record contractions in private consumption, government consumption and gross capital formation, as well as large falls in gross trade flows in Quarter 2 2020

UK, Quarter 1 (Jan to Mar) 2020 and Quarter 2 (Apr to June) 2020



Source: Office for National Statistics – GDP first quarterly estimate

Notes:

1. Q1 refers to Quarter 1 (Jan to Mar) and Q2 refers to Quarter 2 (Apr to June).
2. Chart shows percentage quarter-on-quarter growth rates.
3. Private consumption is household final consumption expenditure and non-profit institutions serving households.

The expenditure approach to measuring gross domestic product (GDP) fell by 20.4% in Quarter 2 (Apr to June) 2020. There have been record contractions in all types of expenditure in Quarter 2, most notably private consumption, which accounted for more than 70% of the fall in GDP in the second quarter.

For more information please see the bulletin for the first [GDP quarterly estimate](#).

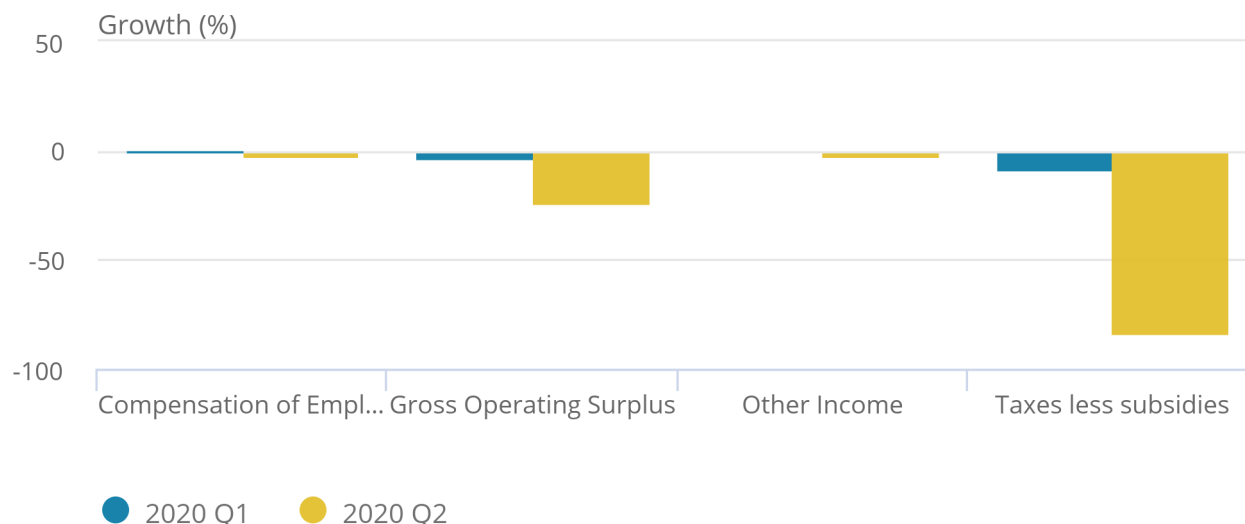
8 . Income measure

Figure 11: Nominal GDP fell by 15.4% in Quarter 2 2020, driven by a decline in taxes less subsidies

UK, Quarter 1 (Jan to Mar) 2020 and Quarter 2 (Apr to June) 2020

Figure 11: Nominal GDP fell by 15.4% in Quarter 2 2020, driven by a decline in taxes less subsidies

UK, Quarter 1 (Jan to Mar) 2020 and Quarter 2 (Apr to June) 2020



Source: Office for National Statistics – GDP first quarterly estimate

Notes:

1. Q1 refers to Quarter 1 (Jan to Mar) and Q2 refers to Quarter 2 (Apr to June).
2. Chart shows percentage quarter-on-quarter growth rates.

Nominal gross domestic product (GDP) fell by a record 15.4% in Quarter 2 (Apr to June) 2020, following a fall of 1.2% in the previous quarter. Taxes less subsidies fell by 83.7% in Quarter 2 2020, reflecting a decline in tax revenue and an increase in subsidies. The increase in subsidies primarily relates to the Coronavirus Job Retention Scheme (CJRS) and Self Employment Income Support Scheme (SEISS) and incorporate estimates from the [updated OBR coronavirus reference scenario](#) published on 14 July 2020.

It is worth noting, however, that there is more uncertainty around this estimate than other components of the income measure of GDP. For more information please see the bulletin for the first [GDP quarterly estimate](#).

9 . Things you need to know about this release

Revisions

This release incorporates revisions to estimates for April and May 2020.

Coronavirus (COVID-19)

This release captures the direct effects of the coronavirus pandemic and the government measures taken to reduce transmission of the virus. We have faced an increased number of challenges in producing monthly and quarterly estimates of UK gross domestic product (GDP) for June. More detailed information on the challenges and the steps taken to mitigate those can be found in [Coronavirus and the effects on UK GDP](#).

As a result of these challenges, GDP estimates for June 2020 are subject to more uncertainty than usual.

It is important to note that, while in the short run we have faced challenges to collect the information required to produce the Monthly Business Survey (MBS), response rates have improved since the first published estimate, as shown in Table 2.

Table 2: Breakdown of components response rates for Monthly Business Survey (MBS)

March MBS Response rates

	First March estimate	Current estimate
Index of Services	79.0%	92.3%
Index of Production	71.7%	90.5%
Construction	54.4%	72.3%

April MBS Response rates

	First April estimate	Current estimate
Index of Services	84.4%	91.6%
Index of Production	79.8%	93.7%
Construction	65.5%	81.3%

May MBS Response rates

	First May estimate	Current estimate
Index of Services	86.4%	89.7%
Index of Production	88.4%	91.9%
Construction	70.4%	79.3%

June MBS Response rates

	First June estimate
Index of Services	75.2%
Index of Production	75.3%
Construction	66.0%

Source: Office for National Statistics - GDP monthly estimate

Notes:

1. Table shows MBS turnover response rates.
2. Response rate for all months, both questionnaire and turnover, can be found in [Index of Production](#), [Index of Services](#), and [Construction](#).

Construction response rates for March are lower than usual as the MBS survey was collected by paper before moving online in April. For more information, please refer to the [Construction release](#).

10 . Quality and methodology

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

11 . Related links

[Construction output in Great Britain: June 2020](#)

Bulletin | Released 12 August 2020

Short-term measures of output by the construction industry in Great Britain and contracts awarded for new construction work in Great Britain.

[Index of Production, UK: June 2020](#)

Bulletin | Released 12 August 2020

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: June 2020](#)

Bulletin | Released 12 August 2020

Monthly movements in output for the services industries.

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

Article | Released 12 August 2020

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

[Coronavirus and the effects on GDP](#)

Article | Released 6 May 2020

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

[GDP first quarterly estimate, UK: April to June 2020](#)

Bulletin | Released 12 August 2020

First quarterly estimate of gross domestic product (GDP). Contains current and constant price data on the value of goods and services to indicate the economic performance of the UK.

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	47	59	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
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	102.5	102.5	107.1	103.1	96.7	102.5	106.4	103.7	105.7	103.6	104.9	110.1	98.1	99.6	109.7	108.1	101.6	101.9	101.5	104.6	101.6	105.4
2019	105.1	101.4	101.3	108.5	101.3	95.0	104.2	108.5	105.5	108.7	105.9	107.4	116.2	95.1	100.3	112.3	111.4	103.8	104.6	103.1	105.1	101.6	97.8
	ECY2	ECY3	ECY4	ECY5	ECY6	ECY7	ECY8	ECY9	ECYC	ECYD	ECYG	ECYH	ECYI	ECYJ	ECYK	ECYL	ECYP	ECYQ	ECYR	ECYS	ECYT	ECYU	ECYV
2018 Jun	103.7	101.9	102.9	106.4	103.8	94.3	104.6	107.1	103.6	106.0	104.0	105.3	109.0	98.2	99.7	108.8	108.6	101.7	101.8	101.2	104.7	102.9	105.3
Jul	104.0	101.7	103.2	111.1	103.5	97.2	104.3	107.2	103.9	107.2	104.1	105.9	109.1	97.9	99.7	110.2	108.4	102.1	101.8	101.2	103.4	102.5	106.5
Aug	104.1	101.8	103.1	112.1	103.3	97.0	104.0	106.8	104.1	107.1	104.5	104.7	111.8	97.6	99.6	110.3	108.4	102.4	101.9	101.5	103.9	102.6	107.7
Sep	104.1	102.4	102.5	108.0	103.0	94.9	104.3	107.6	104.2	106.3	104.6	105.1	113.3	97.4	99.5	110.7	108.0	102.3	102.1	101.8	104.9	101.0	107.6
Oct	104.4	103.0	102.4	111.4	102.5	96.2	103.7	108.2	104.5	106.9	105.3	106.3	112.1	97.2	99.8	111.4	110.0	102.1	102.4	101.9	106.4	101.2	107.6
Nov	104.6	103.0	102.2	107.9	102.6	95.7	103.2	107.8	104.8	107.8	105.5	107.2	112.9	96.9	99.7	112.0	110.1	102.1	102.7	102.0	105.6	100.3	106.5
Dec	104.2	102.0	101.6	107.3	102.1	94.6	102.9	105.7	104.5	106.6	105.6	106.8	113.8	96.4	99.8	110.9	109.4	102.5	103.1	102.2	106.8	99.3	105.8
2019 Jan	104.7	101.7	102.5	105.2	103.2	96.7	102.1	107.9	104.8	108.1	106.0	107.9	115.0	95.7	99.8	109.9	110.5	103.1	103.5	102.3	105.2	98.4	103.8
Feb	105.0	101.4	102.6	107.8	103.7	93.1	102.1	110.1	105.1	108.3	106.0	108.2	115.3	95.1	99.9	111.1	111.4	103.5	103.8	102.4	105.2	99.6	102.5
Mar	105.1	101.3	103.7	113.1	105.0	92.4	102.5	108.9	105.1	108.7	106.4	107.5	114.5	94.7	100.0	111.2	111.4	103.7	103.9	102.4	105.2	99.6	99.7
Apr	104.6	101.2	100.5	108.1	100.4	95.4	102.9	108.9	105.0	108.8	106.3	106.6	115.9	94.4	100.1	110.6	110.4	103.7	104.0	102.5	103.4	99.3	98.1
May	104.8	101.2	101.5	108.6	101.3	95.9	105.3	108.9	105.1	108.9	105.7	106.5	115.5	94.6	100.3	110.7	111.0	103.7	104.3	102.7	103.1	100.4	95.4
Jun	105.0	101.3	101.4	108.0	101.2	96.3	105.0	107.2	105.5	108.4	105.3	108.9	117.1	95.1	100.2	112.4	110.5	103.6	104.6	103.1	106.1	101.0	94.2
Jul	105.4	101.4	101.2	107.3	101.4	94.9	104.2	108.7	105.9	108.9	107.4	108.1	117.6	95.5	100.2	112.9	112.2	103.7	104.6	103.4	104.0	102.4	96.6
Aug	105.3	101.5	100.5	107.6	100.6	93.1	105.3	108.7	105.9	109.2	106.2	106.8	116.1	95.8	100.3	113.4	111.4	103.8	104.7	103.6	106.4	103.2	96.5
Sep	105.3	101.4	100.5	114.6	100.1	92.7	105.5	109.3	105.8	109.0	105.3	106.1	117.5	95.2	100.4	113.4	110.9	103.9	104.8	103.7	104.0	103.8	96.0
Oct	105.5	101.3	100.9	106.8	100.7	96.3	104.7	107.0	106.2	109.6	106.3	106.5	117.5	95.6	100.6	114.4	111.5	104.4	105.0	103.5	103.9	104.4	96.3
Nov	105.1	101.3	100.0	108.8	99.1	97.6	105.2	108.4	105.8	108.3	104.8	107.6	115.6	94.6	100.5	113.3	112.6	104.4	105.5	103.6	107.0	104.0	96.5
Dec	105.3	101.4	99.8	106.5	99.2	95.7	105.6	108.0	106.1	108.1	105.2	107.9	116.8	94.6	100.8	114.1	113.3	104.5	106.0	103.7	107.2	103.3	97.8
2020 Jan	105.5	101.5	100.0	107.7	99.8	92.0	106.7	109.3	106.2	109.4	106.4	107.1	113.8	94.9	101.0	113.7	113.8	104.6	106.5	103.6	107.9	104.3	97.9
Feb	105.5	101.6	100.3	107.4	100.7	91.1	104.7	107.3	106.2	108.6	105.3	107.6	115.1	95.6	101.1	114.6	112.5	104.7	106.6	103.3	107.7	104.0	97.1
Mar	98.2	100.7	96.0	100.1	95.4	89.8	105.4	101.5	98.2	97.9	91.8	73.6	113.7	95.4	100.7	112.2	100.9	104.7	84.4	90.7	93.7	86.4	92.5
Apr	78.5	94.9	76.4	91.0	71.9	81.9	98.0	60.7	80.1	70.8	64.5	10.0	99.7	90.6	98.1	90.6	73.2	104.9	61.8	71.2	56.3	50.2	50.4
May	80.4	95.8	81.1	96.6	77.9	81.8	98.5	65.3	81.2	80.1	68.3	10.6	98.0	91.9	97.6	87.4	72.4	105.1	64.6	71.9	50.9	52.1	51.7
Jun	87.3	98.4	88.7	104.7	86.4	85.2	102.5	80.7	87.5	101.7	79.7	17.8	104.6	93.0	97.3	92.9	82.6	105.1	68.7	73.6	64.5	55.3	60.0
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
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.									

	Industry sections (SIC2007)																						Activities of households as employers, undifferentiated goods and services
	Total GVA at basic prices	Agriculture, forestry and fishing	Total production industries	Mining & quarrying	Manufacturing	Electricity gas, steam and air	Water supply, sewerage etc	Construction ⁶	Total service industries	Wholesale and retail: repair of motor vehicles and motorcycles	Transport and storage	Accommodation and food service activities	Information and Communication	Financial and insurance activities	Real estate activities	Professional, scientific and technical activities	Administrative and support service activities	Public administration and defence	Education	Human health and social work activities	Arts, entertainment and recreation	Other service activities	
Section	A-T	A	B-E	B	C	D	E	F	G-T	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
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
2018 Jun	1.6	-3.2	1.4	5.0	1.8	-3.5	2.0	-0.2	1.9	3.2	1.5	2.0	3.9	-1.0	0.8	5.4	5.0	0.2	0.4	-0.3	1.6	0.7	2.1
Jul	1.8	-3.6	1.5	4.9	1.9	-4.4	2.9	0.9	2.0	4.1	2.4	2.4	3.7	-1.2	0.9	5.0	4.3	0.7	0.6	-0.2	1.9	1.2	1.2
Aug	2.0	-4.0	1.7	6.5	1.8	-2.3	3.6	0.8	2.1	4.0	2.9	2.6	4.2	-1.3	0.8	5.0	4.4	1.2	0.7	0.1	1.7	1.1	1.7
Sep	1.9	-4.1	1.1	6.9	1.0	-2.3	2.9	0.8	2.2	4.0	2.7	2.7	5.5	-1.3	0.8	4.9	3.7	1.6	0.8	0.4	1.4	0.0	2.3
Oct	1.9	-3.6	0.3	5.6	0.0	-2.1	2.5	1.4	2.3	3.6	2.8	3.6	5.8	-1.1	0.8	4.9	3.6	1.5	1.0	0.9	1.8	-0.8	4.2
Nov	1.9	-2.9	-0.5	2.3	-0.7	-2.4	1.8	1.6	2.4	3.7	3.0	4.5	5.8	-1.1	0.7	5.0	3.4	1.3	1.3	1.3	2.2	-1.0	5.0
Dec	1.8	-2.5	-0.9	8.2	-1.4	-3.1	1.3	0.0	2.4	3.9	3.3	4.5	5.5	-1.3	0.6	4.8	3.1	1.3	1.7	1.4	2.3	-0.8	5.5
2019 Jan	1.6	-2.4	-0.7	7.0	-1.3	-2.4	1.6	-0.7	2.2	4.2	3.6	4.4	6.1	-2.1	0.5	3.3	2.6	1.6	2.1	1.2	2.0	-1.7	3.9
Feb	1.7	-2.2	-0.6	9.0	-0.9	-4.3	2.0	0.5	2.2	4.2	3.9	4.7	7.0	-3.1	0.5	2.8	3.2	2.1	2.4	1.1	2.0	-1.7	2.1
Mar	2.1	-1.7	0.1	6.5	0.4	-6.0	2.1	3.5	2.3	4.8	4.5	4.8	7.1	-4.0	0.4	2.6	4.2	2.6	2.6	1.1	1.6	-2.3	-0.9
Apr	2.0	-1.4	-0.4	6.1	-0.1	-7.4	2.1	4.4	2.3	4.7	4.8	4.3	7.0	-4.5	0.4	2.7	4.3	2.8	2.6	1.2	0.7	-2.2	-3.6
May	1.7	-1.3	-0.4	5.0	-0.7	-3.5	2.4	3.8	1.9	4.2	4.1	2.9	6.2	-4.4	0.5	2.0	3.8	2.7	2.5	1.3	-0.5	-2.5	-6.5
Jun	1.4	-1.0	-1.2	1.1	-2.1	1.0	2.0	2.1	1.8	3.1	2.8	2.6	6.8	-4.0	0.5	2.1	2.9	2.4	2.6	1.6	-0.4	-2.2	-8.5
Jul	1.3	-0.7	-1.3	0.0	-2.1	1.3	1.2	1.4	1.8	2.2	2.3	2.4	7.1	-3.2	0.5	2.4	3.0	2.0	2.7	1.8	0.2	-1.3	-9.5
Aug	1.3	-0.4	-2.0	-2.0	-2.4	-1.5	0.5	1.1	1.8	2.0	2.0	2.5	6.4	-2.5	0.5	2.9	2.7	1.6	2.7	2.0	1.5	-0.5	-10.1
Sep	1.2	-0.5	-2.1	-0.5	-2.5	-2.9	0.8	1.6	1.7	2.0	1.8	1.7	5.1	-2.1	0.7	2.6	3.0	1.5	2.7	2.0	0.7	1.1	-10.1
Oct	1.1	-1.0	-1.9	-0.8	-2.4	-2.1	1.1	0.7	1.6	2.3	1.1	1.0	4.1	-1.9	0.8	2.6	2.2	1.7	2.6	1.9	-0.3	2.2	-10.6
Nov	0.9	-1.4	-1.8	0.9	-2.7	-0.1	1.4	0.3	1.4	1.8	0.3	0.5	3.6	-2.1	0.9	2.1	2.1	2.0	2.6	1.6	-0.6	3.2	-10.2
Dec	0.9	-1.3	-1.8	-1.4	-2.7	1.1	1.9	0.5	1.4	1.4	0.0	0.5	3.3	-2.0	0.9	2.2	2.4	2.2	2.7	1.5	-0.3	3.6	-9.1
2020 Jan	0.8	-0.8	-2.1	0.8	-3.2	-0.6	3.0	1.3	1.3	1.0	-0.2	0.2	1.3	-1.7	1.0	2.5	2.9	1.9	2.8	1.4	1.4	4.6	-7.5
Feb	0.7	-0.2	-2.2	0.4	-3.0	-2.0	3.2	0.3	1.3	0.9	-0.2	-0.1	0.5	-0.8	1.1	3.2	2.5	1.5	2.8	1.2	1.8	4.8	-6.1
Mar	-1.8	-0.2	-4.1	-3.4	-5.1	-3.3	3.3	-2.7	-1.4	-2.8	-4.7	-10.9	-0.6	0.2	1.0	2.5	-1.9	1.2	-4.4	-3.1	-2.0	-1.0	-6.0
Apr	-10.4	-2.2	-11.1	-9.3	-13.3	-6.5	0.2	-17.8	-9.7	-14.9	-17.9	-40.7	-5.0	-0.9	0.0	-4.7	-14.0	1.1	-18.9	-13.7	-17.9	-19.4	-20.0
May	-18.3	-4.0	-17.1	-12.8	-20.0	-10.7	-2.8	-30.4	-17.7	-23.8	-29.5	-70.6	-10.0	-2.0	-1.4	-12.7	-25.9	1.1	-32.5	-24.0	-35.6	-36.9	-33.6
Jun	-21.7	-4.8	-18.8	-10.0	-22.0	-13.5	-4.5	-36.4	-21.2	-22.5	-33.0	-88.1	-13.2	-3.0	-2.5	-18.8	-31.2	1.3	-37.6	-29.7	-45.1	-47.6	-43.6

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
2018 Jun	0.3	-0.4	1.0	-0.1	0.7	2.8	2.6	0.8	0.2	-0.1	0.9	0.6	0.1	-0.4	-0.1	-0.2	1.5	0.4	0.1	0.0	0.0	0.7	1.0
Jul	0.3	-0.2	0.3	4.4	-0.3	3.1	-0.3	0.1	0.3	1.1	0.2	0.6	0.1	-0.4	0.0	1.3	-0.2	0.4	0.1	0.0	-1.2	-0.5	1.1
Aug	0.1	0.1	-0.2	0.9	-0.2	-0.2	-0.2	-0.3	0.2	-0.1	0.3	-1.2	2.5	-0.2	-0.1	0.1	0.0	0.2	0.1	0.2	0.5	0.2	1.2
Sep	0.0	0.6	-0.6	-3.6	-0.2	-2.2	0.2	0.8	0.0	-0.7	0.1	0.4	1.3	-0.3	-0.1	0.3	-0.3	-0.1	0.2	0.3	0.9	-1.6	-0.1
Oct	0.3	0.6	-0.1	3.1	-0.5	1.3	-0.5	0.5	0.3	0.5	0.7	1.1	-1.1	-0.1	0.2	0.7	1.8	-0.2	0.3	0.2	1.4	0.2	0.0
Nov	0.1	0.0	-0.2	-3.1	0.1	-0.5	-0.6	-0.4	0.2	0.9	0.2	0.9	0.7	-0.4	-0.1	0.5	0.1	0.0	0.3	0.1	-0.7	-0.9	-1.0
Dec	-0.4	-1.0	-0.5	-0.6	-0.5	-1.2	-0.3	-1.9	-0.2	-1.1	0.1	-0.4	0.9	-0.5	0.1	-1.0	-0.7	0.3	0.3	0.1	1.1	-0.9	-0.7
2019 Jan	0.5	-0.3	0.9	-2.0	1.1	2.3	-0.7	2.1	0.3	1.4	0.4	1.0	1.0	-0.7	0.1	-0.9	1.1	0.6	0.4	0.1	-1.5	-0.9	-1.9
Feb	0.3	-0.3	0.1	2.5	0.5	-3.7	0.0	2.1	0.2	0.1	0.0	0.3	0.2	-0.6	0.0	1.1	0.8	0.5	0.3	0.1	-0.1	1.2	-1.3
Mar	0.1	-0.1	1.1	4.9	1.2	-0.8	0.4	-1.1	0.0	0.4	0.3	-0.7	-0.7	-0.5	0.1	0.1	0.0	0.2	0.1	0.0	0.0	0.0	-2.7
Apr	-0.5	-0.1	-3.2	-4.4	-4.3	3.3	0.4	0.0	-0.1	0.1	-0.1	-0.8	1.2	-0.2	0.1	-0.5	-0.9	0.0	0.1	0.0	-1.7	-0.4	-1.6
May	0.2	0.0	1.0	0.4	0.9	0.4	2.4	0.1	0.1	0.1	-0.6	-0.1	-0.4	0.2	0.2	0.0	0.6	-0.1	0.2	0.2	-0.3	1.2	-2.7
Jun	0.2	0.1	-0.1	-0.5	-0.1	0.5	-0.4	-1.6	0.4	-0.5	-0.4	2.3	1.4	0.5	-0.1	1.6	-0.4	0.0	0.3	0.4	3.0	0.6	-1.2
Jul	0.4	0.1	-0.1	-0.6	0.2	-1.5	-0.7	1.4	0.4	0.4	2.0	-0.8	0.4	0.4	0.1	0.5	1.5	0.0	0.0	0.3	-2.0	1.4	2.6
Aug	-0.1	0.1	-0.7	0.2	-0.8	-1.9	1.1	0.0	-0.1	0.3	-1.1	-1.3	-1.3	0.3	0.1	0.5	-0.7	0.1	0.1	0.2	2.3	0.8	-0.1
Sep	0.0	-0.1	0.0	6.5	-0.4	-0.4	0.1	0.6	-0.1	-0.2	-0.8	-0.6	1.2	-0.6	0.1	-0.1	-0.4	0.1	0.2	0.0	-2.2	0.6	-0.6
Oct	0.2	-0.1	0.4	-6.8	0.6	3.9	-0.7	-2.1	0.4	0.5	0.9	0.4	0.0	0.3	0.3	0.9	0.5	0.5	0.1	-0.1	-0.1	0.6	0.3
Nov	-0.3	0.0	-0.9	1.9	-1.6	1.3	0.5	1.2	-0.4	-1.1	-1.4	1.0	-1.5	-1.0	-0.1	-0.9	1.0	0.0	0.5	0.1	3.0	-0.4	0.3
Dec	0.2	0.1	-0.2	-2.1	0.1	-2.0	0.4	-0.3	0.3	-0.2	0.4	0.2	1.0	0.0	0.2	0.7	0.6	0.1	0.5	0.1	0.2	-0.6	1.4
2020 Jan	0.2	0.1	0.2	1.1	0.6	-3.9	1.0	1.2	0.1	1.2	1.1	-0.7	-2.5	0.4	0.2	-0.3	0.4	0.1	0.5	-0.1	0.7	1.0	0.1
Feb	0.0	0.0	0.4	-0.2	0.9	-1.0	-1.9	-1.8	0.0	-0.7	-1.0	0.5	1.1	0.7	0.2	0.8	-1.1	0.1	0.1	-0.2	-0.2	-0.3	-0.8
Mar	-6.9	-0.9	-4.3	-6.9	-5.2	-1.4	0.7	-5.4	-7.5	-9.9	-12.9	-31.6	-1.2	-0.2	-0.5	-2.1	-10.4	0.0	-20.8	-12.3	-13.0	-16.9	-4.8
Apr	-20.0	-5.7	-20.4	-9.1	-24.6	-8.8	-7.0	-40.2	-18.5	-27.6	-29.7	-86.4	-12.3	-5.0	-2.5	-19.2	-27.4	0.2	-26.7	-21.4	-40.0	-41.9	-45.5
May	2.4	1.0	6.2	6.1	8.3	-0.1	0.5	7.6	1.5	13.1	5.9	5.9	-1.7	1.4	-0.6	-3.6	-1.0	0.1	4.6	1.0	-9.5	3.8	2.4
Jun	8.7	2.7	9.3	8.4	11.0	4.1	4.1	23.5	7.7	27.0	16.7	68.2	6.7	1.2	-0.3	6.3	14.1	0.1	6.3	2.3	26.7	6.1	16.2

1 The GVA output is designated as a National Statistic.

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

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

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

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

6 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: 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
2018 Jun	1.8	-3.6	1.8	1.3	2.2	-4.1	4.7	1.0	1.9	3.2	3.2	3.6	2.4	-1.1	0.9	4.5	4.8	0.6	0.6	-0.3	2.9	1.8	1.0
Jul	2.1	-4.1	1.9	7.9	1.8	-1.1	2.6	1.5	2.3	4.8	2.8	1.8	4.1	-1.5	0.9	5.5	4.4	1.4	0.8	0.1	1.2	1.8	0.8
Aug	2.0	-4.3	1.6	10.3	1.2	-1.7	3.5	-0.1	2.3	4.0	2.8	2.4	5.9	-1.3	0.7	4.9	4.0	1.7	0.8	0.4	0.9	-0.4	3.4
Sep	1.7	-3.9	-0.2	2.5	-0.1	-4.1	2.5	1.0	2.1	3.1	2.6	3.9	6.5	-1.2	0.8	4.3	2.8	1.6	0.9	0.7	2.1	-1.5	2.8
Oct	2.1	-2.5	-0.6	4.3	-1.2	-0.5	1.5	3.3	2.5	3.7	2.9	4.5	5.1	-0.8	0.8	5.6	4.1	1.3	1.4	1.6	2.4	-0.5	6.6
Nov	1.9	-2.2	-0.8	0.0	-0.9	-2.6	1.3	0.7	2.5	4.4	3.6	4.9	5.9	-1.3	0.5	5.1	3.4	1.1	1.7	1.4	2.2	-0.8	5.7
Dec	1.2	-2.8	-1.1	23.2	-2.0	-6.0	1.1	-3.6	2.1	3.7	3.6	4.0	5.3	-1.9	0.6	3.6	1.9	1.4	2.0	1.2	2.4	-1.2	4.3
2019 Jan	1.6	-2.2	-0.2	0.8	-0.9	1.4	2.4	1.0	2.0	4.5	3.6	4.2	7.1	-3.2	0.5	1.2	2.6	2.2	2.5	1.0	1.4	-3.1	1.7
Feb	2.3	-1.7	-0.3	5.2	0.2	-8.0	2.5	4.4	2.6	4.3	4.5	6.0	8.5	-4.3	0.4	3.7	5.2	2.7	2.7	1.1	2.1	-0.8	0.3
Mar	2.3	-1.4	0.9	13.7	1.8	-10.8	1.4	5.2	2.4	5.5	5.4	4.3	5.8	-4.6	0.4	3.0	4.7	3.0	2.6	1.1	1.3	-2.8	-4.6
Apr	1.5	-1.3	-1.8	-0.1	-2.2	-3.3	2.4	3.8	1.9	4.5	4.4	2.6	6.7	-4.6	0.4	1.5	3.1	2.8	2.5	1.3	-1.2	-2.8	-6.5
May	1.4	-1.1	-0.4	2.0	-1.7	4.5	3.3	2.5	1.6	2.6	2.6	1.7	6.1	-4.1	0.5	1.5	3.7	2.4	2.5	1.5	-1.6	-1.8	-8.6
Jun	1.3	-0.6	-1.5	1.5	-2.5	2.2	0.4	0.1	1.8	2.3	1.3	3.4	7.5	-3.2	0.5	3.3	1.8	1.9	2.7	1.9	1.4	-1.9	-10.6
Jul	1.4	-0.3	-2.0	-3.4	-2.0	-2.4	-0.1	1.4	2.0	1.6	3.1	2.1	7.8	-2.4	0.5	2.5	3.5	1.5	2.7	2.1	0.6	-0.1	-9.2
Aug	1.1	-0.3	-2.5	-4.0	-2.6	-4.0	1.3	1.8	1.7	2.0	1.6	2.0	3.9	-1.8	0.7	2.8	2.8	1.4	2.7	2.1	2.4	0.6	-10.4
Sep	1.1	-1.0	-1.9	6.1	-2.8	-2.3	1.2	1.5	1.6	2.5	0.7	1.0	3.7	-2.2	0.9	2.4	2.7	1.6	2.6	1.9	-0.9	2.8	-10.8
Oct	1.0	-1.6	-1.4	-4.1	-1.8	0.1	1.0	-1.1	1.6	2.5	0.9	0.2	4.8	-1.7	0.9	2.6	1.3	2.2	2.5	1.6	-2.4	3.2	-10.5
Nov	0.5	-1.7	-2.1	0.8	-3.4	1.9	2.0	0.6	1.0	0.4	-0.7	0.3	2.4	-2.4	0.9	1.1	2.2	2.3	2.7	1.5	1.3	3.7	-9.3
Dec	1.1	-0.6	-1.8	-0.7	-2.8	1.2	2.6	2.2	1.5	1.3	-0.4	1.0	2.6	-1.9	1.0	2.9	3.6	2.0	2.8	1.5	0.3	4.0	-7.5
2020 Jan	0.8	-0.2	-2.4	2.4	-3.3	-4.9	4.5	1.3	1.3	1.2	0.4	-0.7	-1.0	-0.8	1.1	3.5	2.9	1.5	2.9	1.3	2.6	6.0	-5.7
Feb	0.4	0.1	-2.2	-0.4	-2.9	-2.2	2.5	-2.6	1.1	0.3	-0.7	-0.6	-0.1	0.5	1.3	3.2	1.0	1.1	2.7	0.9	2.4	4.4	-5.2
Mar	-6.6	-0.6	-7.5	-11.5	-9.1	-2.8	2.9	-6.8	-6.5	-10.0	-13.7	-31.5	-0.7	0.8	0.7	0.9	-9.5	0.9	-18.8	-11.5	-10.9	-13.2	-7.2
Apr	-25.0	-6.2	-24.0	-15.8	-28.4	-14.2	-4.7	-44.2	-23.8	-34.9	-39.3	-90.6	-14.0	-4.0	-2.0	-18.1	-33.7	1.1	-40.6	-30.5	-45.6	-49.4	-48.6
May	-23.3	-5.3	-20.0	-11.1	-23.1	-14.7	-6.5	-40.0	-22.7	-26.5	-35.4	-90.0	-15.1	-2.8	-2.7	-21.0	-34.7	1.4	-38.0	-29.9	-50.6	-48.1	-45.8
Jun	-16.8	-2.9	-12.5	-3.0	-14.6	-11.6	-2.3	-24.8	-17.1	-6.2	-24.3	-83.6	-10.7	-2.2	-2.9	-17.3	-25.2	1.5	-34.3	-28.6	-39.3	-45.2	-36.3

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

CONTRIB 1

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

seasonally adjusted 2016=100

Section	Industry sections (SIC2007)																						Activities of households as employers, undifferentiated goods and services
	Total GVA at basic prices	Agriculture, forestry and fishing	Total production industries	Mining & quarrying	Manufacturing	Electricity gas, steam and air	Water supply, sewerage etc	Construction	Total service industries	Wholesale and retail: repair of motor vehicles and motorcycles	Transport and storage	Accommodation and food service activities	Information and Communication	Financial and insurance activities	Real estate activities	Professional, scientific and technical activities	Administrative and support service activities	Public administration and defence	Education	Human health and social work activities	Arts, entertainment and recreation	Other service activities	
	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	
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
2018	Jun	0.59	-0.01	-0.06	0.04	-0.04	-0.07	0.03	0.05	0.61	0.20	0.06	0.05	0.10	-0.04	0.03	0.07	0.04	0.02	0.03	-0.01	0.02	0.02	0.01
	Jul	0.86	-0.01	0.00	0.03	0.03	-0.10	0.04	0.13	0.73	0.28	0.09	0.06	0.08	-0.07	0.02	0.09	0.08	0.04	0.03	0.00	0.01	0.01	0.00
	Aug	0.85	0.00	0.10	0.04	0.05	-0.03	0.04	0.12	0.63	0.23	0.09	0.04	0.09	-0.08	0.00	0.08	0.08	0.05	0.02	0.01	-0.01	0.01	0.01
	Sep	0.66	0.00	0.08	0.03	0.01	0.02	0.02	0.06	0.52	0.14	0.06	0.02	0.17	-0.07	-0.01	0.10	0.03	0.05	0.02	0.02	-0.01	-0.01	0.01
	Oct	0.50	0.00	-0.01	0.02	-0.05	0.02	0.01	0.04	0.46	0.03	0.04	0.00	0.22	-0.06	-0.01	0.11	0.04	0.03	0.02	0.04	0.01	-0.02	0.01
	Nov	0.41	0.01	-0.10	-0.01	-0.08	-0.01	-0.01	0.05	0.45	0.03	0.04	0.02	0.18	-0.05	-0.01	0.11	0.05	0.01	0.03	0.04	0.03	-0.03	0.00
	Dec	0.30	0.00	-0.12	-0.01	-0.08	-0.01	-0.01	0.00	0.41	0.03	0.04	0.04	0.10	-0.06	0.01	0.08	0.08	0.00	0.04	0.04	0.03	-0.03	0.00
	Jan	0.24	0.00	-0.08	-0.03	-0.03	-0.01	-0.02	-0.03	0.34	0.08	0.04	0.05	0.10	-0.08	0.01	0.01	0.06	0.01	0.05	0.03	0.01	-0.04	-0.01
	Feb	0.25	-0.01	-0.01	-0.02	0.03	-0.01	-0.02	0.00	0.27	0.07	0.03	0.04	0.12	-0.10	0.02	-0.05	0.05	0.04	0.06	0.03	0.00	-0.03	-0.01
	Mar	0.52	-0.01	0.12	0.00	0.15	-0.02	-0.01	0.10	0.31	0.12	0.03	0.03	0.13	-0.12	0.02	-0.05	0.06	0.06	0.05	0.02	-0.02	-0.02	-0.01
	Apr	0.42	-0.01	0.03	0.03	0.04	-0.03	0.00	0.12	0.27	0.10	0.02	0.00	0.08	-0.11	0.03	0.00	0.05	0.05	0.05	0.02	-0.02	0.00	-0.01
	May	0.20	0.00	-0.04	0.03	-0.07	0.00	0.01	0.06	0.19	0.11	0.01	-0.02	0.04	-0.09	0.04	0.01	0.02	0.03	0.04	0.02	-0.03	0.01	-0.02
2019	Jun	-0.12	0.00	-0.24	0.00	-0.28	0.03	0.03	-0.03	0.16	0.04	-0.01	-0.01	0.08	-0.03	0.04	0.03	-0.02	0.01	0.03	0.03	-0.02	0.02	-0.02
	Jul	0.17	0.00	-0.12	-0.01	-0.16	0.03	0.03	-0.06	0.35	0.02	0.00	0.01	0.10	0.02	0.03	0.07	0.01	0.00	0.03	0.05	0.00	0.03	-0.01
	Aug	0.39	0.00	-0.11	-0.02	-0.11	0.00	0.02	-0.04	0.54	0.00	0.01	0.03	0.11	0.06	0.01	0.15	0.02	0.00	0.03	0.06	0.02	0.04	-0.01
	Sep	0.49	0.00	-0.04	0.01	-0.03	-0.03	0.01	0.03	0.50	0.03	0.02	-0.01	0.06	0.06	0.01	0.14	0.04	0.01	0.02	0.06	0.01	0.05	0.00
	Oct	0.24	0.00	-0.09	0.01	-0.08	-0.02	0.00	0.00	0.33	0.05	-0.01	-0.04	0.02	0.03	0.03	0.12	0.00	0.02	0.02	0.04	0.01	0.04	0.00
	Nov	0.04	0.00	-0.08	0.02	-0.10	0.01	0.00	0.00	0.11	0.01	-0.03	-0.03	-0.01	-0.02	0.04	0.05	0.01	0.03	0.03	0.02	-0.01	0.03	0.00
	Dec	-0.02	0.00	-0.07	-0.02	-0.10	0.04	0.00	-0.06	0.11	-0.04	-0.03	0.01	-0.03	-0.04	0.05	0.05	0.05	0.03	0.04	0.00	0.02	0.01	0.00
	Jan	-0.04	0.00	-0.10	-0.02	-0.11	0.02	0.01	0.01	0.05	-0.07	-0.02	0.03	-0.10	-0.06	0.04	0.00	0.09	0.02	0.06	0.00	0.04	0.00	0.00
	Feb	0.12	0.00	-0.06	-0.02	-0.01	-0.04	0.01	0.00	0.18	-0.03	0.01	0.02	-0.10	-0.01	0.06	0.03	0.08	0.02	0.07	0.00	0.04	0.00	0.00
	Mar	-2.16	0.00	-0.19	-0.02	-0.10	-0.09	0.00	-0.10	-1.87	-0.33	-0.17	-0.29	-0.15	0.03	0.04	-0.03	-0.16	0.01	-0.35	-0.32	-0.04	-0.09	0.00
	Apr	-10.71	-0.02	-1.18	-0.07	-0.95	-0.12	-0.04	-1.06	-8.44	-1.58	-0.72	-1.15	-0.37	-0.06	-0.10	-0.55	-0.86	0.01	-1.21	-1.12	-0.33	-0.38	-0.05
	May	-18.74	-0.03	-2.04	-0.09	-1.72	-0.14	-0.06	-1.83	-14.81	-2.52	-1.22	-2.00	-0.72	-0.16	-0.28	-1.22	-1.51	0.01	-2.01	-1.89	-0.62	-0.65	-0.09
	Jun	-20.35	-0.03	-2.24	-0.07	-1.93	-0.14	-0.07	-2.15	-15.90	-2.11	-1.23	-2.24	-0.86	-0.25	-0.43	-1.67	-1.64	0.02	-1.94	-2.04	-0.72	-0.74	-0.12

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
2018	Jun	1.63	-0.02	0.19	0.04	0.18	-0.05	0.02	-0.01	1.48	0.33	0.06	0.06	0.26	-0.07	0.11	0.40	0.26	0.01	0.03	-0.02	0.03	0.01	0.01
	Jul	1.84	-0.03	0.20	0.04	0.19	-0.06	0.04	0.05	1.61	0.43	0.10	0.07	0.26	-0.09	0.12	0.38	0.22	0.03	0.04	-0.01	0.03	0.02	0.00
	Aug	1.95	-0.03	0.23	0.05	0.18	-0.03	0.05	0.05	1.70	0.42	0.12	0.07	0.29	-0.09	0.11	0.38	0.23	0.06	0.04	0.01	0.03	0.02	0.00
	Sep	1.93	-0.03	0.15	0.05	0.10	-0.03	0.04	0.05	1.76	0.42	0.11	0.08	0.38	-0.09	0.11	0.37	0.19	0.08	0.05	0.03	0.02	0.00	0.01
	Oct	1.93	-0.03	0.04	0.04	0.00	-0.03	0.03	0.08	1.84	0.38	0.11	0.10	0.40	-0.08	0.11	0.38	0.19	0.08	0.06	0.07	0.03	-0.01	0.01
	Nov	1.91	-0.02	-0.07	0.02	-0.07	-0.03	0.02	0.10	1.91	0.39	0.12	0.12	0.40	-0.08	0.09	0.38	0.18	0.07	0.08	0.09	0.04	-0.02	0.01
	Dec	1.75	-0.02	-0.12	0.06	-0.14	-0.04	0.02	0.00	1.89	0.41	0.14	0.12	0.38	-0.09	0.08	0.36	0.16	0.06	0.10	0.10	0.04	-0.01	0.02
	Jan	1.59	-0.02	-0.10	0.06	-0.13	-0.04	0.02	-0.04	1.76	0.44	0.15	0.12	0.42	-0.15	0.07	0.25	0.14	0.08	0.12	0.09	0.03	-0.03	0.01
	Feb	1.73	-0.02	-0.08	0.08	-0.09	-0.07	0.03	0.03	1.78	0.44	0.16	0.13	0.48	-0.22	0.06	0.22	0.17	0.10	0.14	0.08	0.03	-0.03	0.01
	Mar	2.08	-0.01	0.02	0.06	0.04	-0.09	0.03	0.21	1.86	0.50	0.19	0.13	0.49	-0.29	0.06	0.20	0.22	0.13	0.15	0.08	0.03	-0.04	0.00
	Apr	2.03	-0.01	-0.05	0.05	-0.01	-0.11	0.03	0.27	1.82	0.50	0.20	0.12	0.49	-0.32	0.05	0.21	0.23	0.14	0.15	0.09	0.01	-0.04	-0.01
	May	1.71	-0.01	-0.06	0.05	-0.07	-0.05	0.03	0.23	1.55	0.44	0.17	0.08	0.43	-0.32	0.06	0.15	0.20	0.13	0.15	0.10	-0.01	-0.04	-0.02
2019	Jun	1.37	-0.01	-0.17	0.01	-0.21	0.02	0.03	0.13	1.41	0.33	0.11	0.07	0.47	-0.28	0.06	0.16	0.15	0.11	0.15	0.12	-0.01	-0.04	-0.03
	Jul	1.33	0.00	-0.18	0.00	-0.20	0.02	0.02	0.08	1.43	0.23	0.10	0.07	0.50	-0.23	0.07	0.19	0.16	0.09	0.15	0.14	0.00	-0.02	-0.03
	Aug	1.25	0.00	-0.27	-0.02	-0.23	-0.02	0.01	0.07	1.45	0.21	0.08	0.07	0.45	-0.17	0.07	0.22	0.14	0.08	0.15	0.15	0.02	-0.01	-0.03
	Sep	1.19	0.00	-0.29	0.00	-0.25	-0.04	0.01	0.10	1.38	0.22	0.08	0.05	0.36	-0.15	0.09	0.20	0.16	0.07	0.15	0.16	0.01	0.02	-0.03
	Oct	1.07	-0.01	-0.26	-0.01	-0.24	-0.03	0.01	0.04	1.29	0.25	0.05	0.03	0.29	-0.13	0.10	0.20	0.12	0.08	0.15	0.14	0.00	0.04	-0.03
	Nov	0.88	-0.01	-0.25	0.01	-0.26	0.00	0.02	0.02	1.11	0.19	0.01	0.01	0.26	-0.14	0.11	0.16	0.11	0.10	0.15	0.12	-0.01	0.05	-0.03
	Dec	0.87	-0.01	-0.24	-0.01	-0.26	0.02	0.02	0.03	1.09	0.15	0.00	0.01	0.23	-0.14	0.12	0.17	0.13	0.10	0.15	0.12	0.00	0.06	-0.03
	Jan	0.80	-0.01	-0.29	0.01	-0.31	-0.01	0.04	0.08	1.00	0.10	-0.01	0.01	0.10	-0.11	0.13	0.19	0.16	0.09	0.16	0.11	0.02	0.07	-0.02
	Feb	0.75	0.00	-0.29	0.00	-0.30	-0.03	0.04	0.02	1.02	0.10	-0.01	0.00	0.03	-0.05	0.15	0.25	0.14	0.07	0.16	0.09	0.03	0.08	-0.02
	Mar	-1.82	0.00	-0.55	-0.03	-0.51	-0.05	0.04	-0.17	-1.10	-0.30	-0.20	-0.31	-0.04	0.01	0.13	0.20	-0.10	0.06	-0.26	-0.24	-0.03	-0.02	-0.02
	Apr	-10.38	-0.01	-1.50	-0.08	-1.30	-0.10	0.00	-1.11	-7.75	-1.59	-0.76	-1.15	-0.36	-0.06	0.00	-0.36	-0.76	0.05	-1.10	-1.04	-0.29	-0.31	-0.06
	May	-18.29	-0.03	-2.30	-0.12	-1.95	-0.17	-0.03	-1.88	-14.07	-2.55	-1.24	-1.99	-0.72	-0.13	-0.18	-0.99	-1.41	0.06	-1.89	-1.83	-0.57	-0.59	-0.09
Jun	-21.71	-0.03	-2.51	-0.09	-2.12	-0.21	-0.06	-2.25	-16.89	-2.41	-1.39	-2.50	-0.97	-0.20	-0.33	-1.48	-1.69	0.06	-2.20	-2.27	-0.72	-0.76	-0.12	

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

seasonally adjusted 2016=100

		Industry sections (SIC2007)																						Activities of households as employers, undifferentiated goods and services
		Total GVA at basic prices	Agriculture, forestry and fishing	Total production industries	Mining & quarrying	Manufacturing	Electricity gas, steam and air	Water supply, sewerage etc	Construction	Total service industries	Wholesale and retail: repair of motor vehicles and motorcycles	Transport and storage	Accommodation and food service activities	Information and Communication	Financial and insurance activities	Real estate activities	Professional, scientific and technical activities	Administrative and support service activities	Public administration and defence	Education	Human health and social work activities	Arts, entertainment and recreation	Other service activities	
Section		A-T	A	B-E	B	C	D	E	F	G-T	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
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
2018	Jun	0.31	0.00	0.14	0.00	0.07	0.04	0.03	0.05	0.12	-0.01	0.04	0.02	0.01	-0.03	-0.01	-0.01	0.08	0.02	0.01	0.00	0.00	0.01	0.00
	Jul	0.27	0.00	0.04	0.04	-0.02	0.04	0.00	0.01	0.22	0.12	0.01	0.02	0.01	-0.03	0.00	0.10	-0.01	0.02	0.00	0.00	-0.02	-0.01	0.00
	Aug	0.12	0.00	-0.02	0.01	-0.02	0.00	0.00	-0.02	0.17	-0.01	0.01	-0.03	0.17	-0.02	-0.01	0.01	0.00	0.01	0.01	0.02	0.01	0.00	0.00
	Sep	0.01	0.00	-0.08	-0.03	-0.02	-0.03	0.00	0.05	0.03	-0.07	0.01	0.01	0.09	-0.02	-0.01	0.02	-0.02	0.00	0.01	0.02	0.02	-0.03	0.00
	Oct	0.29	0.00	-0.01	0.02	-0.05	0.02	-0.01	0.03	0.26	0.06	0.03	0.03	-0.08	-0.01	0.03	0.06	0.10	-0.01	0.02	0.01	0.02	0.00	0.00
	Nov	0.13	0.00	-0.03	-0.03	0.01	-0.01	-0.01	-0.03	0.19	0.10	0.01	0.03	0.05	-0.02	-0.01	0.04	0.01	0.00	0.02	0.01	-0.01	-0.02	0.00
	Dec	-0.36	-0.01	-0.07	0.00	-0.05	-0.02	0.00	-0.12	-0.16	-0.12	0.00	-0.01	0.06	-0.03	0.02	-0.08	-0.04	0.02	0.02	0.01	0.02	-0.02	0.00
	Jan	0.46	0.00	0.11	-0.02	0.10	0.03	-0.01	0.12	0.22	0.15	0.02	0.03	0.07	-0.05	0.01	-0.07	0.06	0.03	0.02	0.01	-0.02	-0.02	-0.01
	Feb	0.35	0.00	0.02	0.02	0.05	-0.05	0.00	0.13	0.20	0.02	0.00	0.01	0.02	-0.04	0.00	0.08	0.04	0.02	0.02	0.01	0.00	0.02	0.00
	Mar	0.07	0.00	0.15	0.05	0.12	-0.01	0.01	-0.07	-0.01	0.04	0.01	-0.02	-0.05	-0.03	0.02	0.01	0.00	0.01	0.01	0.00	0.00	0.00	-0.01
	Apr	-0.48	0.00	-0.43	-0.04	-0.43	0.05	0.00	0.00	-0.05	0.01	0.00	-0.02	0.09	-0.02	0.01	-0.04	-0.05	0.00	0.01	0.00	-0.03	-0.01	0.00
	May	0.20	0.00	0.13	0.00	0.09	0.01	0.03	0.00	0.06	0.01	-0.02	0.00	-0.03	0.01	0.02	0.00	0.03	0.00	0.01	0.02	0.00	0.02	-0.01
2019	Jun	0.21	0.00	-0.01	-0.01	-0.01	0.01	0.00	-0.10	0.32	-0.05	-0.01	0.06	0.10	0.04	-0.02	0.12	-0.02	0.00	0.02	0.03	0.05	0.01	0.00
	Jul	0.38	0.00	-0.02	-0.01	0.02	-0.02	-0.01	0.08	0.32	0.05	0.08	-0.02	0.03	0.03	0.01	0.04	0.08	0.00	0.00	0.02	-0.03	0.02	0.01
	Aug	-0.14	0.00	-0.09	0.00	-0.08	-0.03	0.01	0.00	-0.05	0.03	-0.05	-0.04	-0.10	0.02	0.01	0.04	-0.04	0.01	0.00	0.02	0.04	0.01	0.00
	Sep	-0.02	0.00	0.00	0.06	-0.04	-0.01	0.00	0.03	-0.06	-0.02	-0.03	-0.02	0.08	-0.04	0.01	-0.01	-0.02	0.01	0.01	0.00	-0.04	0.01	0.00
	Oct	0.21	0.00	0.05	-0.07	0.06	0.05	-0.01	-0.13	0.29	0.06	0.04	0.01	0.00	0.02	0.03	0.07	0.03	0.02	0.01	-0.01	0.00	0.01	0.00
	Nov	-0.34	0.00	-0.12	0.02	-0.15	0.02	0.01	0.07	-0.30	-0.12	-0.06	0.03	-0.11	-0.30	-0.07	-0.07	0.05	0.00	0.03	0.01	0.05	-0.01	0.00
	Dec	0.18	0.00	-0.03	-0.02	0.01	-0.03	0.01	-0.02	0.23	-0.02	0.02	0.01	0.07	0.00	0.03	0.06	0.03	0.01	0.03	0.01	0.00	-0.01	0.00
	Jan	0.16	0.00	0.02	0.01	0.06	-0.06	0.01	0.07	0.07	0.13	0.04	-0.02	-0.19	0.03	0.03	-0.03	0.02	0.00	0.03	-0.01	0.01	0.02	0.00
	Feb	-0.04	0.00	0.05	0.00	0.08	-0.01	-0.02	-0.11	0.03	-0.07	-0.04	0.01	0.08	0.04	0.02	0.06	-0.06	0.00	0.00	-0.02	0.00	-0.01	0.00
	Mar	-6.92	-0.01	-0.57	-0.06	-0.50	-0.02	0.01	-0.33	-6.01	-1.05	-0.54	-0.89	-0.09	-0.01	-0.06	-0.17	-0.57	0.00	-1.23	-0.94	-0.21	-0.28	-0.01
	Apr	-20.04	-0.04	-2.76	-0.08	-2.39	-0.14	-0.09	-2.48	-14.73	-2.84	-1.16	-1.79	-0.94	-0.36	-0.35	-1.63	-1.45	0.01	-1.35	-1.54	-0.61	-0.62	-0.13
	May	2.39	0.01	0.84	0.06	0.76	0.00	0.01	0.35	1.20	1.22	0.20	0.02	-0.14	0.12	-0.10	-0.30	-0.05	0.01	0.21	0.07	-0.11	0.04	0.00
	Jun	8.68	0.02	1.30	0.09	1.06	0.07	0.06	1.14	6.21	2.77	0.59	0.25	0.54	0.10	-0.05	0.51	0.65	0.00	0.30	0.16	0.27	0.07	0.03

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
2018	Jun	1.78	-0.03	0.24	0.01	0.22	-0.06	0.06	0.06	1.51	0.34	0.13	0.10	0.17	-0.08	0.12	0.34	0.25	0.03	0.04	-0.02	0.05	0.03	0.00
	Jul	2.11	-0.03	0.25	0.06	0.18	-0.02	0.03	0.09	1.80	0.50	0.11	0.05	0.28	-0.11	0.12	0.41	0.23	0.07	0.04	0.01	0.02	0.03	0.00
	Aug	1.96	-0.03	0.21	0.08	0.12	-0.02	0.04	-0.01	1.80	0.42	0.12	0.07	0.41	-0.09	0.10	0.38	0.21	0.08	0.04	0.03	0.01	-0.01	0.01
	Sep	1.71	-0.03	-0.02	0.02	-0.01	-0.06	0.03	0.06	1.70	0.33	0.11	0.11	0.45	-0.09	0.11	0.33	0.15	0.08	0.05	0.06	0.03	-0.02	0.01
	Oct	2.11	-0.02	-0.08	0.03	-0.12	-0.01	0.02	0.20	2.01	0.39	0.12	0.13	0.35	-0.05	0.10	0.43	0.21	0.06	0.08	0.12	0.04	-0.01	0.02
	Nov	1.92	-0.02	-0.11	0.00	-0.09	-0.04	0.02	0.04	2.01	0.46	0.15	0.14	0.41	-0.09	0.07	0.39	0.18	0.06	0.10	0.11	0.04	-0.01	0.02
	Dec	1.24	-0.02	-0.16	0.15	-0.21	-0.09	0.01	-0.23	1.65	0.38	0.15	0.11	0.37	-0.13	0.08	0.28	0.10	0.07	0.12	0.09	0.04	-0.02	0.01
	Jan	1.63	-0.02	-0.03	0.01	-0.09	0.02	0.03	0.06	1.61	0.47	0.15	0.12	0.49	-0.23	0.06	0.09	0.14	0.10	0.14	0.08	0.02	-0.05	0.00
	Feb	2.32	-0.01	-0.04	0.05	0.02	-0.12	0.03	0.27	2.09	0.45	0.19	0.16	0.58	-0.31	0.05	0.28	0.27	0.13	0.15	0.09	0.03	-0.01	0.00
	Mar	2.30	-0.01	0.12	0.12	0.18	-0.17	0.02	0.31	1.87	0.57	0.22	0.12	0.41	-0.33	0.05	0.23	0.25	0.14	0.15	0.09	0.02	-0.05	-0.01
	Apr	1.48	-0.01	-0.24	0.00	-0.22	-0.05	0.03	0.23	1.50	0.47	0.18	0.07	0.47	-0.33	0.06	0.11	0.17	0.14	0.14	0.10	-0.02	-0.05	-0.02
	May	1.36	-0.01	-0.06	0.02	-0.17	0.06	0.04	0.15	1.27	0.28	0.11	0.05	0.42	-0.29	0.07	0.12	0.20	0.12	0.15	0.12	-0.03	-0.03	-0.02
2019	Jun	1.26	0.00	-0.21	0.01	-0.24	0.03	0.00	0.01	1.46	0.25	0.05	0.10	0.52	-0.23	0.06	0.25	0.09	0.09	0.16	0.14	0.02	-0.03	-0.03
	Jul	1.38	0.00	-0.27	-0.03	-0.20	-0.04	0.00	0.09	1.56	0.17	0.13	0.06	0.54	-0.17	0.07	0.19	0.19	0.07	0.16	0.16	0.01	0.00	-0.03
	Aug	1.12	0.00	-0.33	-0.04	-0.26	-0.06	0.02	0.11	1.34	0.21	0.07	0.05	0.27	-0.13	0.09	0.22	0.15	0.07	0.15	0.16	0.04	0.01	-0.03
	Sep	1.09	-0.01	-0.26	0.06	-0.28	-0.03	0.01	0.09	1.26	0.27	0.03	0.03	0.27	-0.15	0.11	0.19	0.14	0.08	0.15	0.14	-0.01	0.04	-0.03
	Oct	1.01	-0.01	-0.19	-0.04	-0.17	0.00	0.01	-0.07	1.28	0.27	0.04	0.01	0.34	-0.12	0.12	0.20	0.07	0.11	0.14	0.12	-0.04	0.05	-0.03
	Nov	0.53	-0.01	-0.29	0.01	-0.33	0.03	0.03	0.03	0.79	0.05	-0.03	0.01	0.17	-0.16	0.12	0.09	0.12	0.11	0.15	0.11	0.02	0.06	-0.03
	Dec	1.08	0.00	-0.24	-0.01	-0.28	0.02	0.03	0.13	1.18	0.14	-0.01	0.03	0.19	-0.13	0.13	0.22	0.19	0.10	0.16	0.11	0.01	0.06	-0.02
	Jan	0.78	0.00	-0.33	0.02	-0.32	-0.08	0.06	0.08	1.02	0.12	0.02	-0.02	-0.07	-0.05	0.15	0.27	0.16	0.07	0.17	0.10	0.04	0.09	-0.02
	Feb	0.39	0.00	-0.30	0.00	-0.29	-0.03	0.03	-0.16	0.85	0.03	-0.03	-0.02	-0.01	0.03	0.17	0.25	0.06	0.05	0.15	0.07	0.04	0.07	-0.02
	Mar	-6.62	0.00	-1.02	-0.11	-0.91	-0.04	0.03	-0.42	-5.17	-1.06	-0.58	-0.89	-0.05	0.05	0.08	0.07	-0.51	0.05	-1.09	-0.87	-0.18	-0.21	-0.02
	Apr	-24.98	-0.04	-3.19	-0.14	-2.72	-0.23	-0.06	-2.75	-18.97	-3.75	-1.67	-2.56	-1.02	-0.26	-0.26	-1.42	-1.83	0.06	-2.37	-2.33	-0.73	-0.78	-0.14
	May	-23.33	-0.04	-2.68	-0.10	-2.23	-0.23	-0.08	-2.49	-18.10	-2.84	-1.49	-2.53	-1.10	-0.19	-0.36	-1.64	-1.89	0.07	-2.22	-2.29	-0.80	-0.77	-0.12
Jun	-16.85	-0.02	-1.67	-0.03	-1.41	-0.18	-0.03	-1.51	-13.62	-0.66	-1.02	-2.40	-0.79	-0.15	-0.38	-1.37	-1.36	0.07	-2.00	-2.19	-0.64	-0.73	-0.10	