

Statistical bulletin

GDP first quarterly estimate, UK: July to September 2019

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



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1 . Main points

- UK gross domestic product (GDP) in volume terms was estimated to have increased by 0.3% in Quarter 3 (July to Sept) 2019.
- When compared with the same quarter a year ago, UK GDP increased by 1.0% in Quarter 3 2019; this is the slowest rate of quarter-on-year growth since Quarter 1 (Jan to Mar) 2010.
- The service and construction sectors provided positive contributions to GDP growth, while output in the production sector was flat in Quarter 3 2019.
- Private consumption, government consumption and net trade contributed positively to GDP growth, while gross capital formation (GCF) contributed negatively to growth in Quarter 3 2019.
- Nominal GDP increased by 0.5% in Quarter 3 2019, down from 0.7% in Quarter 2 (Apr to June) 2019.

2 . Things you need to know about this release

Gross domestic product (GDP) growth is the main indicator of economic performance. There are three approaches used to measure GDP: the output approach, the expenditure approach and the income approach. Further information on all three approaches to measuring GDP can be found in [A Short Guide to the UK National Accounts \(PDF, 317KB\)](#).

Data in chained volume measures within this bulletin have had the effect of price changes removed (in other words, the data are deflated). The exception to this is income data, which are only available in current prices.

International Financial Reporting Standards (IFRS16)

In January 2019, a new reporting standard took effect for those businesses using the International Financial Reporting Standards (IFRS) accountancy framework. “IFRS16 Leases” brings the reporting of operating leases onto balance sheets. This has impacted how some businesses have reported on their fixed assets, mainly through our Quarterly Acquisition and Disposal of Capital Assets Survey (QCAS), used in the compilation of gross fixed capital formation (GFCF) and business investment.

While we recognise there is a change to the accounting standards for some businesses, there has been no change to national accounts standards on the treatment of leases. To assess the impact of IFRS16’s introduction on GFCF and business investment estimates, we have contacted around 360 QCAS respondents with large movements in their data to ask them which accountancy framework they used and what, if any, impact IFRS16 had on their data for both Quarter 1 (Jan to Mar) 2019 and Quarter 2 (Apr to June) 2019 and if they use the IFRS framework. As a result, we made a downward adjustment of approximately £244 million to remove the quantified impact of its introduction in Quarter 1 2019 and a downward adjustment of £133 million in Quarter 2 2019 to better reflect underlying growth for GFCF and business investment.

The assets most affected by the introduction of IFRS16 in Quarter 1 2019 were ICT equipment and “other machinery and equipment”. In our Quarter 2 2019 estimates, intellectual property products were the assets most affected. We have continued to monitor the impact of IFRS 16’s introduction for our Quarter 3 (July to Sept) 2019 provisional estimates and will do so going forward. As a result, a downward adjustment of £185 million has been applied to reflect IFRS16’s impact in the latest quarter, with intellectual property products and “other buildings and structures” being the assets most affected.

Quarterly Stocks Inquiry temporary expansion

To address users' concerns about the sample size of the Quarterly Stocks Inquiry and the potential impact on quality, we temporarily increased the sample size from 5,500 to 9,500 businesses for Quarter 2 and Quarter 3 2019, ahead of the UK's planned exit from the European Union on 31 October 2019. With EU exit now likely to be delayed until 31 January 2020, we have decided to extend this sample boost into Quarter 4 (Oct to Dec) 2019 and will assess whether to extend this further.

The inquiry is used in the compilation of the changes in inventories component within gross capital formation (GCF). Our early analyses have shown that the introduction of this increased sample has not caused any significant discontinuity in estimates of changes in inventories.

3 . The UK economy grew by 0.3% in Quarter 3 2019, following volatility in the first half of the year

UK gross domestic product (GDP) increased by 0.3% in Quarter 3 (July to Sept) 2019 following a decline of 0.2% in the previous quarter. There was a range of external expectations for growth in Quarter 3 2019, including the [National Institute of Economic and Social Research](#) forecasting growth of 0.5% and the [Bank of England November 2019 inflation report](#) predicting growth of 0.4% in Quarter 3 2019.

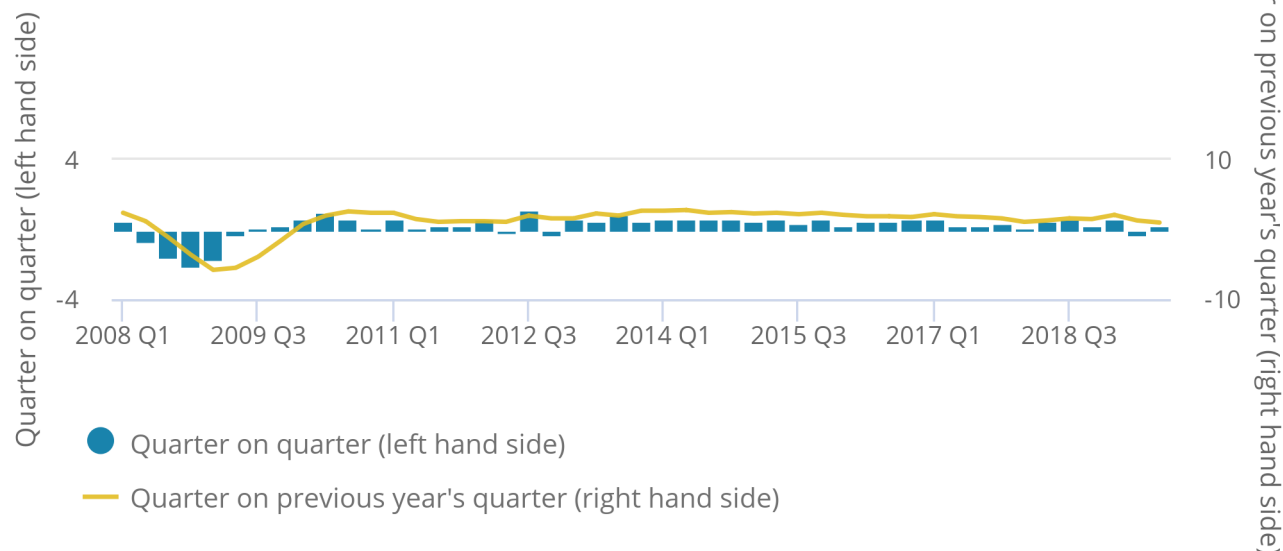
The underlying momentum in the UK economy shows some signs of slowing. Compared with Quarter 3 2018, the UK economy increased by 1.0%; this is the weakest figure since Quarter 1 (Jan to Mar) 2010 (Figure 1).

Figure 1: Real GDP increased by 0.3% in Quarter 3 2019, although underlying momentum does appear to be slowing

UK, Quarter 1 (Jan to Mar) 2008 to Quarter 3 (July to Sept) 2019

Figure 1: Real GDP increased by 0.3% in Quarter 3 2019, although underlying momentum does appear to be slowing

UK, Quarter 1 (Jan to Mar) 2008 to Quarter 3 (July to Sept) 2019



Source: Office for National Statistics – GDP first quarterly estimate

Notes:

1. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept) and Q4 refers to Quarter 4 (Oct to Dec).
2. Real GDP figures are volume estimates that are adjusted for the effects of inflation over time.

In line with the [National Accounts Revisions Policy](#), no previous quarters are open for revision as part of this publication. However, there have been some revisions made to the monthly path of the output components of GDP. [GDP monthly estimate, UK: September 2019](#) provides further information on both the monthly movements and revisions to GDP.

Growth in nominal GDP has continued to slow, increasing by 0.5% in Quarter 3 2019, easing from the 0.7% recorded in the previous quarter. The implied GDP deflator represents the broadest measure of inflation in the domestic economy, reflecting changes in the price of all goods and services that make up GDP. This includes the price movements in private and government consumption, investment, and the relative price of exports and imports. It slowed notably in Quarter 3, increasing by 0.3%; this is an easing from the 1.0% recorded in the previous quarter. Compared with Quarter 3 2018, the implied GDP deflator increased by 2.0%. The easing in quarter-on-quarter and quarter-on-year growth in the implied GDP deflator has stemmed predominantly from a slowing in the gross capital formation (GCF) and household consumption implied deflators. Movements in the implied deflator are in line with quarterly movements in [consumer price inflation](#), in which growth has also slowed in recent periods.

Table 1: Headline economic indicators for the UK

% growth¹

	Chained volume measures				Current market prices		
	GDP	Household expenditure	Gross fixed capital formation	GDP per head ³	GDP	Compensation of employees	GDP implied deflator
Seasonally adjusted							
2017	1.9	2.3	1.6	1.3	3.8	4.3	1.9
2018	1.4	1.6	-0.1	0.8	3.3	4.3	1.9
Q1 2017	0.6	0.5	0.0	0.4	1.2	0.8	0.6
Q2 2017	0.3	0.3	1.4	0.1	0.4	1.6	0.2
Q3 2017	0.3	0.4	-0.4	0.2	0.4	1.1	0.1
Q4 2017	0.4	0.3	1.1	0.2	1.4	0.7	1.0
Q1 2018	0.1	0.5	-0.9	-0.1	0.5	1.1	0.5
Q2 2018	0.5	0.5	-0.4	0.4	0.9	0.9	0.3
Q3 2018	0.6	0.3	0.5	0.5	1.2	1.5	0.6
Q4 2018	0.3	0.2	-0.1	0.2	0.5	1.4	0.2
Q1 2019	0.6	0.3	0.9	0.4	1.2	0.3	0.6
Q2 2019	-0.2	0.4	-0.9	-0.4	0.7	1.5	1.0
Q3 2019	0.3	0.4	-0.2	0.2	0.5	0.9	0.3

Source: Office for National Statistics – GDP first quarterly estimate

Notes

1. Percentage change on previous period. [Back to table](#)
2. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept) and Q4 refers to Quarter 4 (Oct to Dec). [Back to table](#)
3. Population data are consistent with the 26 June 2019 published estimates. [Back to table](#)

4 . There has been a pickup in services and construction growth in Quarter 3 2019, while growth in the production sector was flat

The output measure of gross domestic product (GDP) grew by 0.3% in Quarter 3 (July to Sept) 2019. This followed a period of increased volatility in the first half of the year relating to the UK's original planned exit date from the European Union, likely reflecting the effects of bringing forward activity in the first quarter of the year and the decline in car production owing to partial car plant shutdowns in April. This has been most evident in the quarterly movements in manufacturing output in Quarter 2 (Apr to June) 2019, which saw a fall of 2.8%.

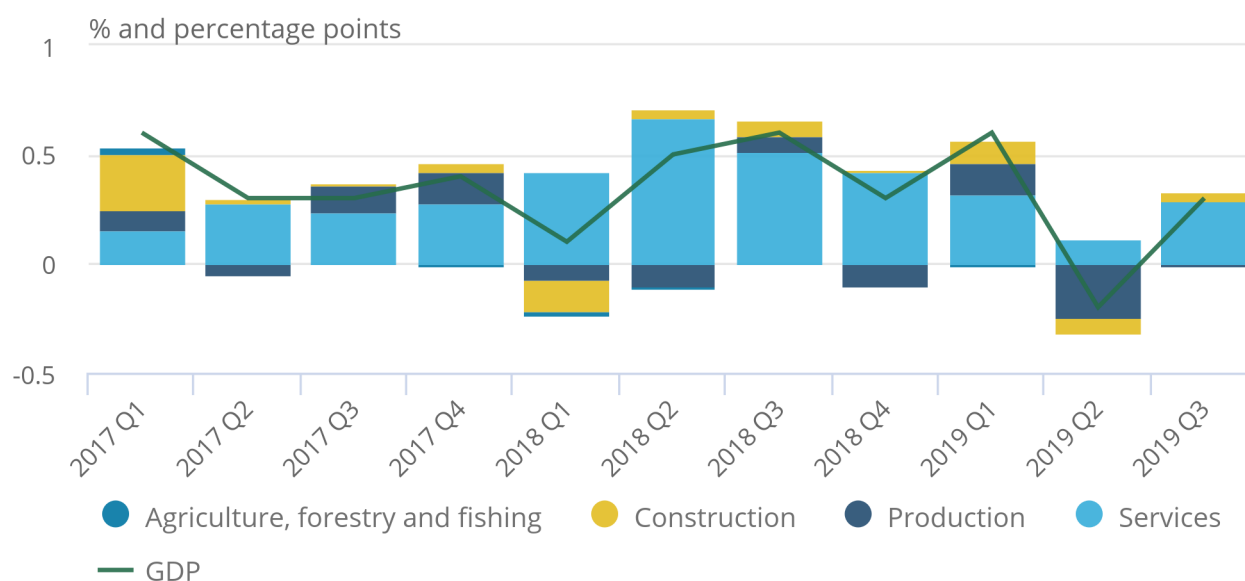
Manufacturing was flat in Quarter 3 2019, as was production. Services output increased by 0.4% in Quarter 3 2019, following the weakest quarterly figure in three years in the previous quarter. Construction output experienced a pickup following a weak Quarter 2, increasing by 0.6% (Figure 2).

Figure 2: There has been a pickup in services and construction growth while growth in the production sector was flat in Quarter 3 2019

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 3 (July to Sept) 2019

Figure 2: There has been a pickup in services and construction growth while growth in the production sector was flat in Quarter 3 2019

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 3 (July to Sept) 2019



Source: Office for National Statistics – GDP first quarterly estimate

Notes:

1. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept) and Q4 refers to Quarter 4 (Oct to Dec).
2. Chart shows contribution to real GDP quarter-on-quarter growth.
3. Components contributions may not sum to total because of rounding.

The service sector remained relatively subdued with an increase of 1.4% in the year to Quarter 3; this is the weakest growth rate since the Quarter 4 (Oct to Dec) 2017. The easing has also been reported in the [Quarter 3 2019 Bank of England Agents' summary](#), which recorded how business services continued to grow at a modest rate, with weaker demand for transaction-related services partially offset by strong demand for IT services. The [CBI Services Sector Survey](#) also reported how business optimism across the service sector fell sharply in the three months to August, attributing the decline to political uncertainty, which was reported as holding back investment and expansion plans.

Following a loss of momentum in the second half of 2018 and the first half of 2019, services output increased by 0.4% in Quarter 3 2019. This has been driven by growth in all four of the service sector groupings shown in Figure 3, with the most notable contribution to growth coming from “other services” sectors, which is comprised of 11 service sectors. This increase stemmed from a 0.7% increase in human health and social work activities alongside a 0.7% increase in financial and insurance activities, which grew following five consecutive quarters of decline, although users should note early estimates are reliant on a higher level of forecast content. These increases more than offset declines in industries such as accommodation and food services in Quarter 3 2019.

There has also been continued strength in the information and communication industry, which contributed positively to growth for the sixth consecutive quarter, increasing by 0.8% in Quarter 3 2019. This has partially reflected an increase in UK-based film and TV production, which has performed particularly strongly in Quarter 3 2019. There was also a pickup in professional, scientific and technical activities following two quarters of decline, increasing by 0.7% in Quarter 3 2019.

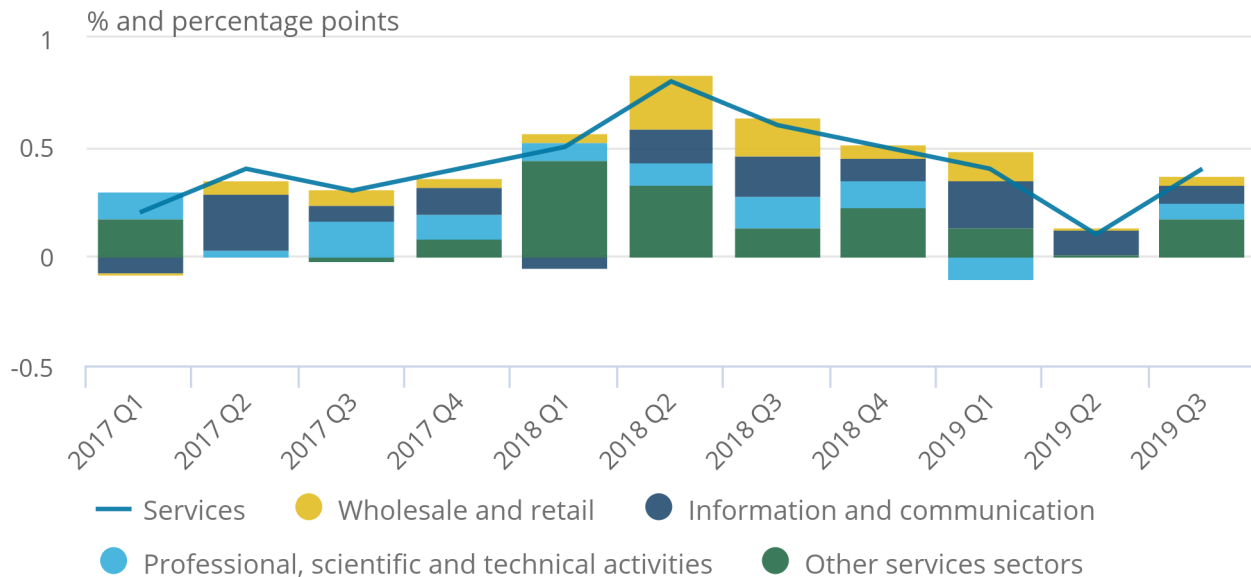
Wholesale, retail and motor trades increased by 0.3% in Quarter 3 2019, following an increase of 0.1% in Quarter 2 2019. The increase in Quarter 3 was partially a result of growth in the retail sector, with the latest [official retail sales figures](#) showing that retail sales grew 0.6% in Quarter 3 2019. However, there appears to be a divergence between the official figures and the non-official indicators of retail sales, with a variety of external indicators signalling a recent decline in retail activity. These include the [British Retail Consortium \(BRC\)](#), which reported a 1.3% decline in year-on-year sales in September 2019, and the [CBI](#), which reported a decline in retail sales volumes for the fifth consecutive month, citing the tough retail conditions and the recent sterling depreciation as key factors.

Figure 3: There has been a pickup in service sector growth in Quarter 3 2019

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 3 (July to Sept) 2019

Figure 3: There has been a pickup in service sector growth in Quarter 3 2019

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 3 (July to Sept) 2019



Source: Office for National Statistics – GDP first quarterly estimate

Notes:

1. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept) and Q4 refers to Quarter 4 (Oct to Dec).
2. Chart shows contribution to quarter-on-quarter service sector growth.
3. Components contributions may not sum to total because of rounding.

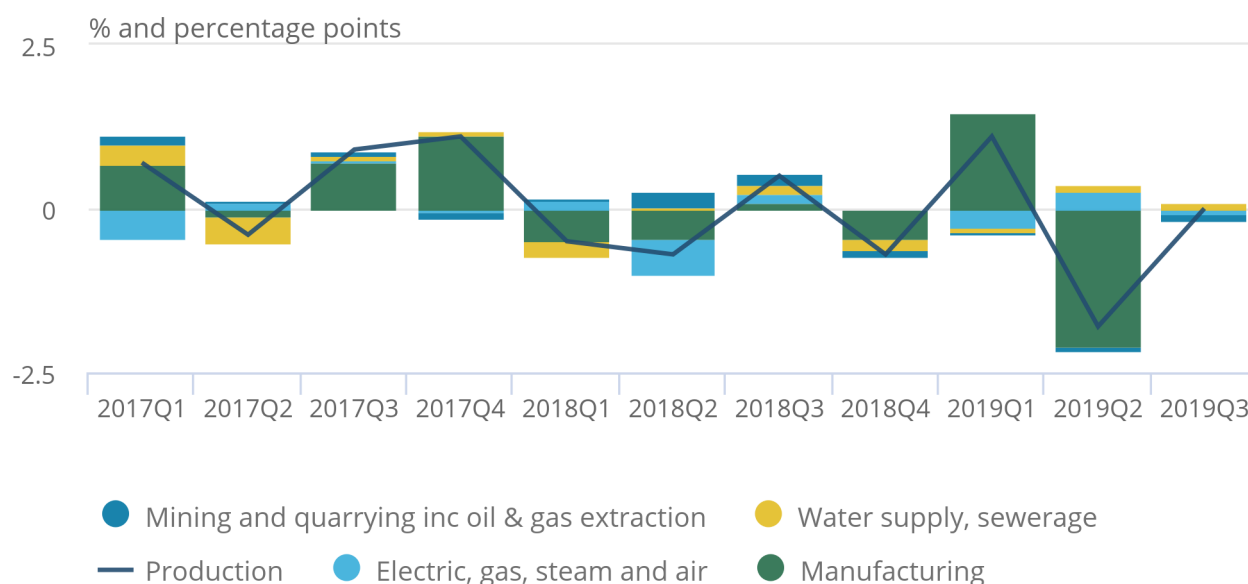
The volatility throughout the first half of 2019 has been particularly pronounced in the production industry. Following an increase of 1.1% in Quarter 1 (Jan to Mar) 2019, production output fell by 1.8% in Quarter 2 2019 (Figure 4). Production output was flat in Quarter 3. These trends reflected movements in the manufacturing industry, which experienced volatility in the first half of the year consistent with activity being brought forward ahead of the UK's original intended European Union departure date, followed by a slowdown in activity in Quarter 2 exacerbated by partial car plant shutdowns in April. The subdued performance of the manufacturing sector in the three months to September – in which output was flat – has also been recorded by the recent [CBI Industrial Trends Survey](#), which also noted that stock levels were above adequate, as uncertainty and the ongoing global manufacturing slowdown continued to have an adverse effect on manufacturers. The British Chambers of Commerce also [reported a deterioration in manufacturing activity](#), reporting how the “manufacturing sector continues to toil under the weight of diminishing cashflow, weakening global demand and disrupted supply chains.”

Figure 4: Production output growth was flat in Quarter 3 2019

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 3 (July to Sept) 2019

Figure 4: Production output growth was flat in Quarter 3 2019

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 3 (July to Sept) 2019



Source: Office for National Statistics – GDP first quarterly estimate

Notes:

1. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept) and Q4 refers to Quarter 4 (Oct to Dec).
2. Chart shows contribution to quarter-on-quarter production growth.
3. Components contributions may not sum to total because of rounding.

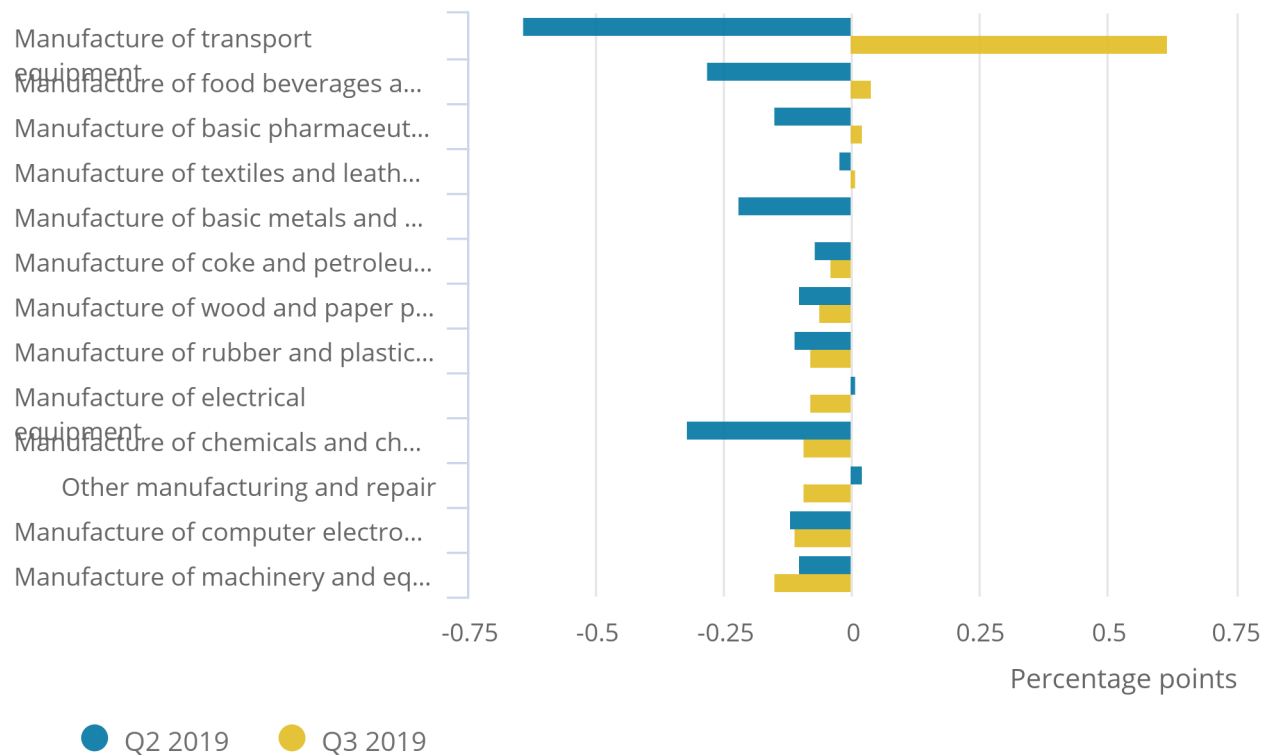
Manufacturing failed to grow in Quarter 3 2019, with falls in many industries almost solely offset by an increase in the manufacturing output of transport equipment (Figure 5). This recovery in car production follows a decline in Quarter 2, because of partial closures of various car manufacturing plants.

Figure 5: Widespread falls in the manufacturing industries have been offset by an increase in the manufacture of transport equipment in Quarter 3 2019

UK, Quarter 2 (April to June) 2019 and Quarter 3 (July to Sept) 2019

Figure 5: Widespread falls in the manufacturing industries have been offset by an increase in the manufacture of transport equipment in Quarter 3 2019

UK, Quarter 2 (April to June) 2019 and Quarter 3 (July to Sept) 2019



Source: Office for National Statistics – GDP first quarterly estimate

Notes:

- 1. Q2 refers to Quarter 2 (Apr to June) and Q3 refers to Quarter 3 (July to Sept).
- 2. Chart shows contribution to quarter-on-quarter production growth.
- 3. Components contributions may not sum to total because of rounding.

Mining and quarrying output fell for the fourth consecutive quarter in Quarter 3 2019, decreasing by 1.7%. Following some volatility in the first half of 2019, electricity, gas, steam and air conditioning fell by 0.7% in Quarter 3. This was partially a result of higher than average temperatures in the UK in September. Water supply and sewerage production grew by 1.2% for the second consecutive quarter in Quarter 3 2019.

Construction output increased by 0.6% in Quarter 3 2019, following a 1.2% decline in Quarter 2. The quarterly increase was because of strength in new construction work, particularly in private new housing work and private commercial new work in the three months to September 2019. The [latest Bank of England Agents' summary of business conditions](#) also reported strength in residential construction, with the development of lower-priced properties remaining strong, supported by the Help to Buy schemes. There have also been some revisions to the monthly path of construction sector growth, implying slightly weaker activity in July and August than previously estimated.

5 . Household consumption increases as the trade deficit narrows in Quarter 3 2019

The expenditure measure of gross domestic product (GDP) increased by 0.3% in Quarter 3 (Jul to Sept) 2019. Private consumption, government consumption and net trade contributed positively to growth while gross capital formation (GCF) subtracted from GDP growth in Quarter 3 2019.

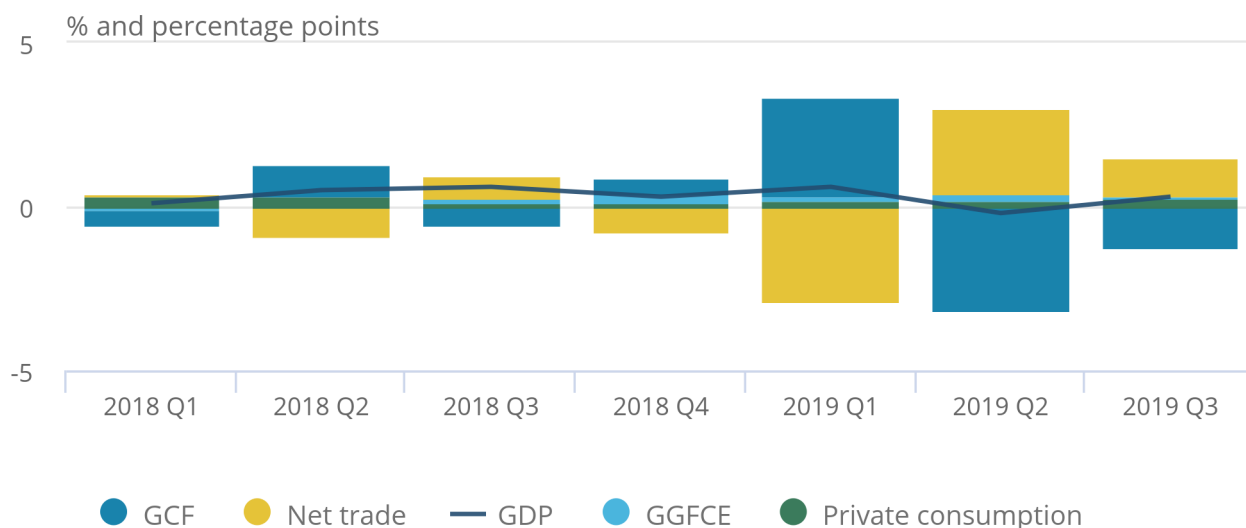
There were large swings in net trade and GCF in the first half of the year (Figure 6), reflecting movements of “unspecified goods” – which include non-monetary gold. The movements in GCF also reflect to a large extent the stockpiling and subsequent unwinding of stocks that took place in Quarter 1 (Jan to Mar) and Quarter 2 (Apr to June) 2019. While the pickup in GDP in Quarter 3 2019 was largely a result of net trade, this was unrelated to movements in unspecified goods.

Figure 6: The pickup in GDP in Quarter 3 2019 was largely a result of net trade, though this was unrelated to movements in unspecified goods

UK, Quarter 1 (Jan to Mar) 2018 to Quarter 3 (July to Sept) 2019

Figure 6: The pickup in GDP in Quarter 3 2019 was largely a result of net trade, though this was unrelated to movements in unspecified goods

UK, Quarter 1 (Jan to Mar) 2018 to Quarter 3 (July to Sept) 2019



Source: Office for National Statistics – GDP first quarterly estimate

Notes:

1. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept), and Q4 refers to Quarter 4 (Oct to Dec).
2. Chart shows contribution to real GDP quarter-on-quarter growth.
3. Components contributions may not sum to total because of rounding. The statistical discrepancy is also not displayed.

Private consumption increased by 0.4% in Quarter 3 2019, broadly in line with its recent relatively subdued trend. The latest official figures show that [retail sales](#) grew at a moderate pace of 0.6% in Quarter 3 2019 compared with the previous quarter. Evidence from the [latest Bank of England Agents' summary of business conditions](#) notes the weakness in retail sales in Quarter 3 compared with a year ago, citing "base effects from strong sales a year ago when there was a boost from warm weather and the football World Cup". Meanwhile, the [GfK Consumer Confidence Index](#) improved two points to -12 in September 2019 with increases in all five measures underpinning the index.

The decline in GCF in Quarter 3 2019 broadly reflects a decrease in aligned change in inventories, which decreased for the second consecutive quarter as businesses appear to be continuing to run down stock levels. This follows the large increase in Quarter 1 2019, reflecting to a large extent the pronounced building up of stocks in the run-up to the UK's original exit date from the European Union at the end of March. This unwinding of stocks in Quarter 3 2019 is reflected in external survey evidence. For example, the [latest Bank of England Agents' summary of business conditions](#) states that the unwinding of stocks "contributed to weaker growth in manufacturing".

Alignment and balancing adjustments are typically applied to the inventories component to help balance the different approaches to GDP – more detail on these can be found in the Quality and methodology section of this publication. When these adjustments are removed, the underlying data show a substantial decrease of £4.6 billion in stocks being held by UK companies in Quarter 3 2019 (Table 2).

Table 2: Change in inventories, including and excluding balancing and alignment adjustments
UK, Quarter 3 (July to Sept) 2019

	Change in inventories	Of which alignment	Of which balancing	Change in inventories excluding alignment and balancing
Current price	-2574	-769	0	-1805
Chained volume measure	-5309	-723	0	-4586

Source: Office for National Statistics

Notes

1. Data are in £ millions. [Back to table](#)

Gross fixed capital formation (GFCF) fell by 0.2% in Quarter 3 2019, while business investment was flat, continuing its recent subdued performance (Figure 7). These figures should be interpreted with some caution as early estimates of business investment can be prone to revision.

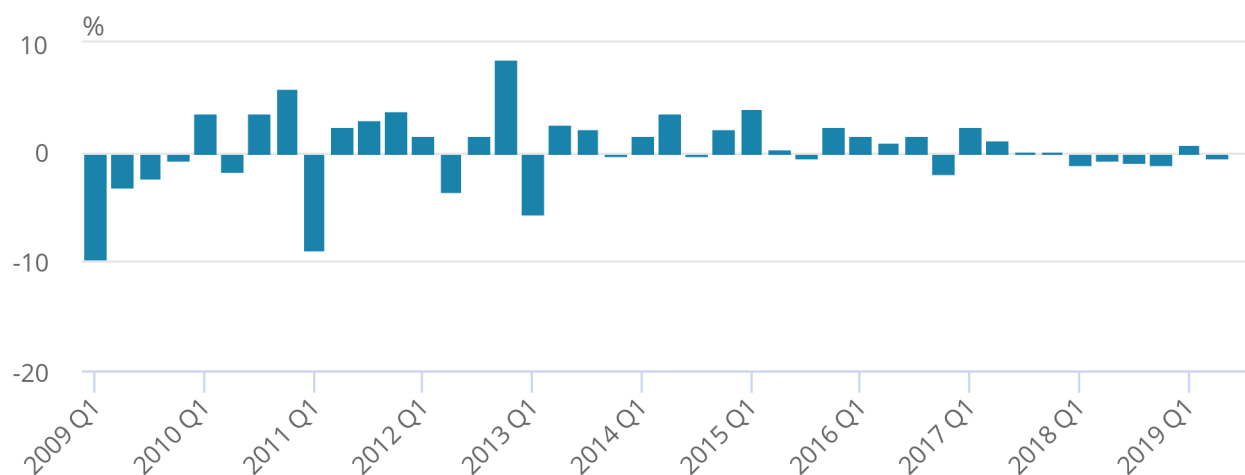
External evidence suggests that investment intentions remained weak in Quarter 3 2019. For example, the latest [Bank of England Agents' Summary of business conditions](#) reports that investment intentions remained at a nine-year low in the Quarter 3 2019. While members of the Bank of England [Decision Maker Panel](#) also reported that their recent investment growth has been subdued, businesses expected nominal investment growth to pick up a little to around 3.0% over the year to Quarter 1 2020.

Figure 7: Business investment was flat in Quarter 3 2019

UK, Quarter 1 (Jan to Mar) 2009 to Quarter 3 (July to Sept) 2019

Figure 7: Business investment was flat in Quarter 3 2019

UK, Quarter 1 (Jan to Mar) 2009 to Quarter 3 (July to Sept) 2019



Source: Office for National Statistics – GDP first quarterly estimate

Notes:

1. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept) and Q4 refers to Quarter 4 (Oct to Dec).
2. Business investment refers to quarter-on-quarter growth in volume estimates of business investment.

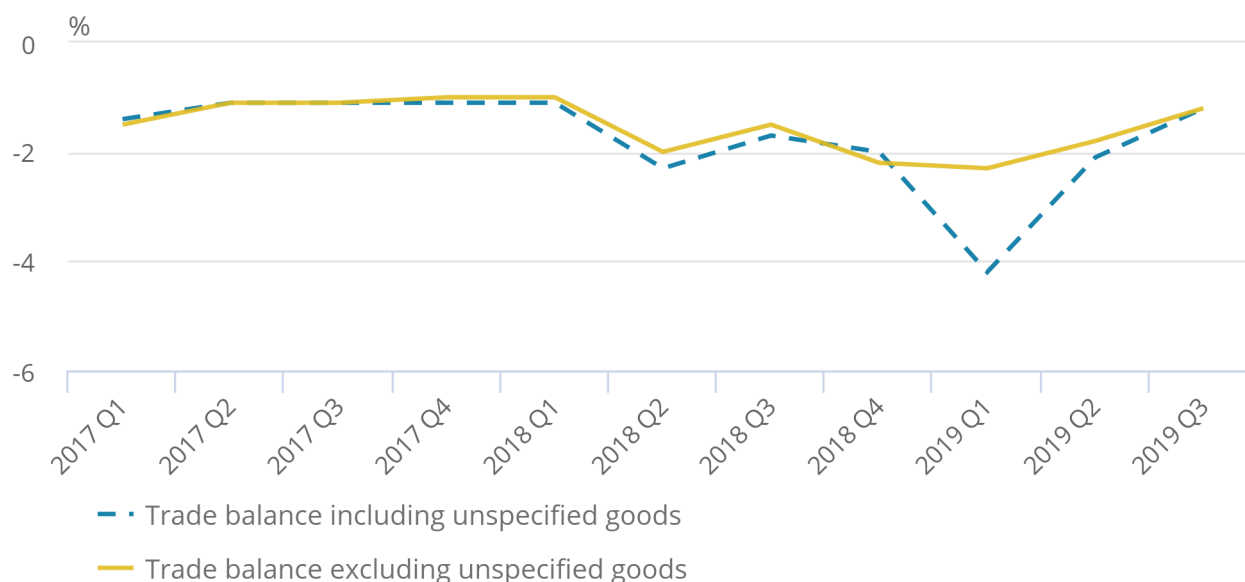
Trade imports and exports have been volatile in the first half of 2019, in part reflecting the effects of movements of “unspecified goods” – which include non-monetary gold – in the first two quarters of the year. In Quarter 3 2019, the UK trade deficit narrowed to 1.2% of nominal GDP (Figure 8).

Figure 8: The trade deficit narrowed to 1.2% of nominal GDP in Quarter 3 2019

UK, Quarter 1 (Jan to Mar) 2017 and Quarter 3 (July to Sept) 2019

Figure 8: The trade deficit narrowed to 1.2% of nominal GDP in Quarter 3 2019

UK, Quarter 1 (Jan to Mar) 2017 and Quarter 3 (July to Sept) 2019



Source: Office for National Statistics – GDP first quarterly estimate

Notes:

1. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept) and Q4 refers to Quarter 4 (Oct to Dec).
2. The trade deficit is calculated using current price estimates of GDP and net trade.

The narrowing of the trade deficit largely reflects strong export volume growth of 5.2% in Quarter 3 2019. Trade in goods exports grew 5.0%, reflecting increases in machinery and transport equipment and chemicals, while trade in services exports grew 5.3%; this was a result of “other business services”. External evidence points to weaker export growth than shown in the official estimates. The [latest Bank of England Agents’ summary of business conditions](#) states that manufacturing output and exports grew at their slowest rate in three years. Rising trade tensions were also a concern for exporters. The recent [British Chambers of Commerce Quarterly Economic Survey](#) reported weakness in manufacturing export orders.

Meanwhile, import volumes grew 0.8% in Quarter 3 2019, following volatility seen earlier in the year. Notable movements in the imports of “unspecified goods” – which include non-monetary gold – meant that there were large swings in imports in the first half of 2019. These “unspecified goods” have large and offsetting impacts to GCF and net trade. These movements do not affect headline GDP as they are recorded as equivalent offsetting impacts in the UK National Accounts, but they are reflected in the composition of GDP growth. [More information on how non-monetary gold features in GDP is available](#). Growth in imports in Quarter 3 2019 reflected moderate growth in trade in goods, which grew 0.2% because of an increase in machinery and transport, as well as trade in services, which grew 2.3% following a sharp fall in Quarter 2 2019.

Government consumption increased by 0.3% in Quarter 3 2019, driven by higher spending in “healthcare and public administration”. In Quarter 3, the available expenditure data is a quarter in arrears; therefore, the latest data reported are based on budgetary forecasts rather than actual spending. As government departments provide updated information, actual spend (outturn) data become available and revisions are made to estimates previously published.

6 . Nominal GDP growth slowed to 0.5% in Quarter 3 2019

Growth in nominal gross domestic product (GDP) eased to 0.5% in Quarter 3 (Jul to Sept) 2019, following an increase of 0.7% in the previous quarter. The quarterly increase was a result of a 0.9% increase in compensation of employees. Wages and salaries grew by 0.9%, reflecting increases in public sector wages and salaries.

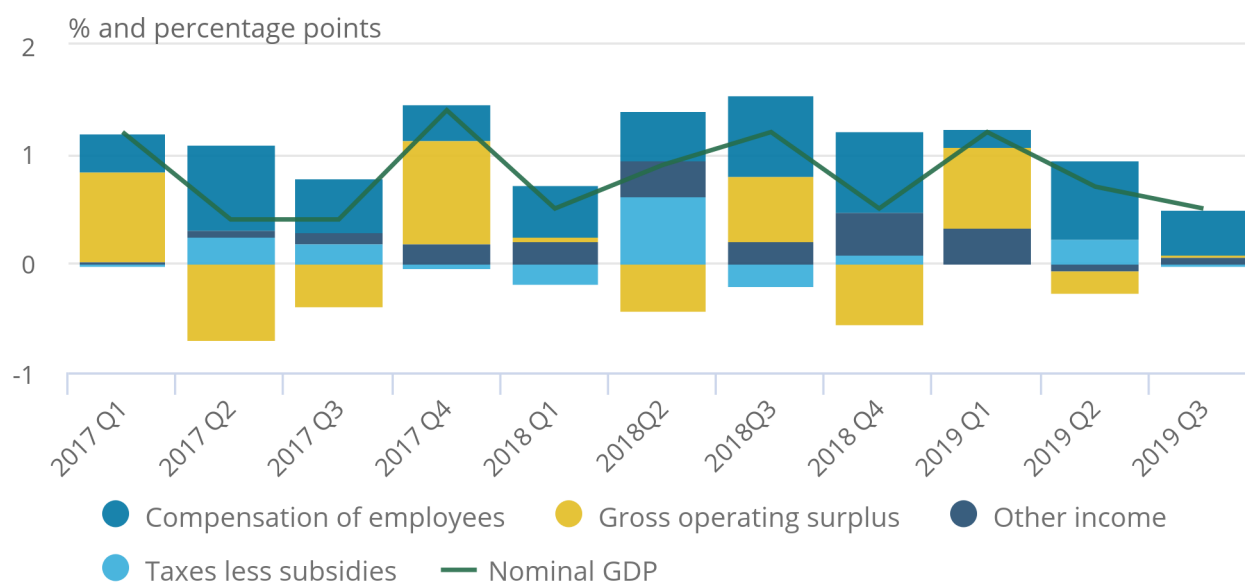
Gross operating surplus (GOS) of corporations increased by 0.1% and other income increased by 0.5%, reversing the decline in the previous quarter (Figure 9).

Figure 9: Nominal GDP growth slowed to 0.5% in Quarter 3 2019

UK, Quarter 1 (Jan to Mar) 2017 and Quarter 3 (July to Sept) 2019

Figure 9: Nominal GDP growth slowed to 0.5% in Quarter 3 2019

UK, Quarter 1 (Jan to Mar) 2017 and Quarter 3 (July to Sept) 2019



Source: Office for National Statistics – GDP first quarterly estimate

Notes:

1. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept) and Q4 refers to Quarter 4 (Oct to Dec).
2. Chart shows contribution to nominal GDP quarter-on-quarter growth.
3. Components contributions may not sum to total because of rounding.

7 . Links to related statistics

Release content

All data in this bulletin are seasonally adjusted estimates. Non-seasonally adjusted data are available within the UK Economic Accounts. These data can be downloaded directly from the [UK Economic Accounts dataset](#) and on the [UK Economic Accounts main aggregates dataset](#) table. Data published in the UK Economic Accounts reflect data as published on 30 September 2019 and are consistent with the data in this release up to Quarter 2 (Apr to June) 2019.

A number of other economic indicators were published on 11 November 2019; these include:

- [GDP monthly estimate, UK: September 2019](#)
- [data for gross fixed capital formation \(GFCF\) by sector and asset, revision triangles](#) and a [real-time database](#)
- [Index of Services](#)
- [Index of Production](#)
- [Construction output in Great Britain](#)
- [UK trade](#)

8 . Are there any upcoming changes?

In Blue Book 2019 we made changes to the measurement of mixed income, compiling our estimates at a more granular level to better reflect the different components of mixed income such as income from self-employment, rental and income earned which is not present in tax data because of evasion. This change particularly impacted years post 2016 (the last year for which most of our structural tax sources are available) as forecasts and indicators are now used at a lower level of detail. We plan to make further updates to these estimates in the December Quarterly National Accounts release (in line with the revisions policy) and as part of Blue Book 2020. An article outlining these further changes and their impacts will be published on 20 November.

9 . Quality and methodology

The [Gross domestic product \(GDP\) Quality and Methodology Information \(QMI\)](#) report contains important information on:

- the strengths and limitations of the data and how it compares with related data
- the uses and users of the data
- how the output was created
- the quality of the output including the accuracy of the data

The national accounts are drawn together using data from many different sources. This ensures that the national accounts are comprehensive and provide different perspectives on the economy, for example, sales by retailers and purchases by households.

Important quality information

There are common pitfalls in interpreting data series; these include:

- expectations of accuracy and reliability in early estimates are often too high
- revisions are an inevitable consequence of the trade-off between timeliness and accuracy
- early estimates are based on incomplete data

Very few statistical revisions arise as a result of “errors” in the popular sense of the word. All estimates, by definition, are subject to statistical “error”.

Many different approaches can be used to summarise revisions; the “Accuracy and reliability” subsection in the [QMI report](#) analyses the mean average revision and the mean absolute revision for GDP estimates over data publication iterations.

Reaching the GDP balance

The different data content and quality of the three approaches – the output approach, the expenditure approach and the income approach – dictate the approach taken in balancing quarterly data. In the UK, there are more data available on output in the short term than in either of the other two approaches. However, to obtain the best estimate of GDP (the published figure), the estimates from all three approaches are balanced to produce an average, except in the latest two quarters where the output data takes the lead owing to its larger data content.

Information on the methods we use for [balancing the output, income and expenditure approaches to measuring GDP](#) is available.

Alignment adjustments, found in Table M of the [GDP first quarterly estimate data tables](#) in this release, have a target limit of plus or minus £2,000 million on any quarter. In periods where the data sources are particularly difficult to balance, larger alignment adjustments are sometimes needed. This has not been the case in Quarter 3 (July to Sept) 2019. To achieve a balanced GDP dataset through alignment, balancing adjustments are applied to the components of GDP where required. They are applied to the individual components where data content is particularly weak in a given quarter because of a higher level of forecast content. The balancing adjustments applied in this quarter are shown in Table 3; the resulting series should be considered accordingly.

Table 3: Balancing adjustments applied to the GDP first quarterly estimate dataset for Quarter 3 (July to September) 2019

GDP measurement approach and component adjustment applied to		Q3 2019
Expenditure		
Trade in Services (imports)	Current prices	-1350
Trade in Services (imports)	Chained volume measure	-250

Source: Office for National Statistics

A1 Gross domestic product and gross value added^{1,2}

2016 = 100

	Value indices at current prices		Chained volume indices			Implied deflators ³		
	Gross domestic product at market prices	Gross value added at basic prices	Gross domestic product at market prices	Gross value added at basic prices	Market sector gross value added	Gross national expenditure	Gross domestic product at market prices	Gross value added at basic prices
	YBEU	YBEX	YBEZ	CGCE	L48H	YBFV	YBGB	CGBV
2015	96.1	96.1	98.1	98.1	97.6	98.1	97.9	98.0
2016	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2017	103.8	103.9	101.9	102.0	102.8	102.2	101.9	101.8
2018	107.3	107.3	103.3	103.4	104.7	104.2	103.8	103.8
Seasonally adjusted								
2016 Q2	99.7	99.8	99.7	99.7	99.9	100.0	100.0	100.1
Q3	100.4	100.5	100.2	100.2	100.1	100.2	100.2	100.3
Q4	101.7	101.7	100.8	100.9	101.0	100.7	100.9	100.8
2017 Q1	102.9	103.0	101.4	101.5	102.2	102.0	101.5	101.4
Q2	103.3	103.5	101.7	101.8	102.5	101.8	101.6	101.7
Q3	103.8	103.7	102.0	102.1	103.0	102.1	101.7	101.6
Q4	105.2	105.3	102.4	102.5	103.7	102.9	102.7	102.7
2018 Q1	105.8	106.1	102.5	102.6	103.6	103.4	103.2	103.5
Q2	106.7	106.5	103.0	103.1	104.4	104.1	103.6	103.3
Q3	108.0	108.1	103.7	103.7	105.2	104.8	104.2	104.2
Q4	108.5	108.6	104.0	104.1	105.5	104.6	104.3	104.4
2019 Q1	109.8	110.0	104.6	104.7	106.0	104.7	105.0	105.1
Q2	110.6	110.8	104.4	104.4	105.6	106.0	106.0	106.1
Q3	111.2	111.4	104.7	104.7	106.6	106.6	106.3	106.3
Percentage change, latest year on previous year								
	IHYM	KGL6	IHYP	KGM7	L489	KH7D	IHYS	KGM4
2015	3.0	3.0	2.4	2.2	2.7	0.1	0.6	0.8
2016	4.1	4.0	1.9	1.9	2.5	1.9	2.1	2.0
2017	3.8	3.9	1.9	2.0	2.8	2.2	1.9	1.8
2018	3.3	3.3	1.4	1.4	1.8	2.0	1.9	2.0
Percentage change, latest quarter on previous quarter								
	IHYN	KGL8	IHYQ	KGM9		KH7E	IHYT	KGM5
2016 Q2	1.6	1.7	0.5	0.5	1.0	0.9	1.0	1.2
Q3	0.6	0.7	0.5	0.5	0.2	0.2	0.2	0.1
Q4	1.3	1.2	0.6	0.7	0.9	0.4	0.7	0.5
2017 Q1	1.2	1.2	0.6	0.6	1.1	1.3	0.6	0.7
Q2	0.4	0.5	0.3	0.3	0.3	-0.2	0.2	0.2
Q3	0.4	0.2	0.3	0.3	0.5	0.2	0.1	-0.1
Q4	1.4	1.5	0.4	0.4	0.7	0.8	1.0	1.2
2018 Q1	0.5	0.8	0.1	-	-0.1	0.5	0.5	0.7
Q2	0.9	0.4	0.5	0.5	0.8	0.6	0.3	-0.2
Q3	1.2	1.5	0.6	0.6	0.7	0.7	0.6	0.9
Q4	0.5	0.5	0.3	0.3	0.3	-0.2	0.2	0.1
2019 Q1	1.2	1.3	0.6	0.6	0.5	0.1	0.6	0.7
Q2	0.7	0.8	-0.2	-0.2	-0.4	1.3	1.0	1.0
Q3	0.5	0.5	0.3	0.3	0.4	0.5	0.3	0.2
Percentage change, latest quarter on corresponding quarter of previous year								
	IHYO	KGM2	IHYR	KGN3	L48D	KH7F	IHYU	KGM6
2016 Q2	3.8	3.7	1.9	1.8	2.2	1.8	1.9	1.9
Q3	4.1	4.1	1.9	2.0	2.5	1.7	2.1	2.1
Q4	4.8	4.8	1.8	2.0	3.5	2.9	3.0	2.7
2017 Q1	4.8	5.0	2.2	2.3	3.2	2.9	2.5	2.6
Q2	3.6	3.7	1.9	2.1	2.6	1.8	1.6	1.6
Q3	3.4	3.2	1.8	1.9	2.9	1.8	1.6	1.3
Q4	3.5	3.6	1.6	1.6	2.7	2.2	1.8	2.0
2018 Q1	2.8	3.1	1.1	1.0	1.5	1.4	1.7	2.0
Q2	3.3	2.9	1.3	1.3	1.9	2.2	1.9	1.6
Q3	4.0	4.2	1.6	1.6	2.1	2.7	2.4	2.6
Q4	3.1	3.1	1.5	1.5	1.7	1.7	1.6	1.6
2019 Q1	3.8	3.6	2.1	2.1	2.3	1.2	1.7	1.5
Q2	3.7	4.0	1.3	1.3	1.1	1.9	2.3	2.7
Q3	3.0	3.0	1.0	1.0	0.9	1.8	2.0	2.1

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

2 The growth rates are calculated from the £m series and due to the rounded nature of the index series the growth rates cannot be replicated.

3 Based on the sum of expenditure components of GDP at current prices and in chained volume terms.

A2 Gross domestic product and gross value added¹

£ million

	At current prices			Chained volume measures (Reference year 2016)			
	Gross domestic product at market prices	less Basic price adjustment ²	Gross value added at basic prices	Gross domestic product at market prices	less Basic price adjustment ²	Gross value added at basic prices	Gross value added excluding oil & gas ³
	YBHA	NTAP	ABML	ABMI	NTAO	ABMM	KLS2
2015	1 916 896	207 571	1 709 325	1 957 920	213 742	1 744 182	1 736 086
2016	1 995 478	217 344	1 778 134	1 995 478	217 344	1 778 134	1 769 730
2017	2 071 667	224 764	1 846 903	2 033 234	219 805	1 813 429	1 804 895
2018	2 140 278	231 670	1 908 608	2 061 408	223 389	1 838 019	1 828 879
Seasonally adjusted							
2016 Q2	497 571	54 081	443 490	497 593	54 559	443 035	440 959
Q3	500 711	54 137	446 574	499 836	54 386	445 450	443 235
Q4	507 375	55 293	452 082	503 083	54 379	448 704	446 651
2017 Q1	513 458	55 757	457 701	505 983	54 682	451 301	449 181
Q2	515 534	55 579	459 955	507 255	54 823	452 432	450 296
Q3	517 788	56 732	461 056	508 982	55 022	453 960	451 784
Q4	524 887	56 696	468 191	511 014	55 278	455 736	453 634
2018 Q1	527 763	55 952	471 811	511 300	55 364	455 936	453 775
Q2	532 388	58 898	473 490	514 017	55 713	458 304	456 025
Q3	538 756	58 205	480 551	517 221	56 065	461 156	458 781
Q4	541 371	58 615	482 756	518 870	56 247	462 623	460 298
2019 Q1	547 884	58 941	488 943	521 873	56 564	465 309	463 026
Q2	551 898	59 277	492 621	520 735	56 448	464 287	462 013
Q3	554 929	59 750	495 179	522 247	56 632	465 615	463 396
Percentage change, latest year on previous year							
	IHYM		KGL6	IHYP		KGM7	KLH8
2015	3.0		3.0	2.4		2.2	2.1
2016	4.1		4.0	1.9		1.9	1.9
2017	3.8		3.9	1.9		2.0	2.0
2018	3.3		3.3	1.4		1.4	1.3
Percentage change, latest quarter on previous quarter							
	IHYN		KGL8	IHYQ		KGM9	
2016 Q2	1.6		1.7	0.5		0.5	0.5
Q3	0.6		0.7	0.5		0.5	0.5
Q4	1.3		1.2	0.6		0.7	0.8
2017 Q1	1.2		1.2	0.6		0.6	0.6
Q2	0.4		0.5	0.3		0.3	0.2
Q3	0.4		0.2	0.3		0.3	0.3
Q4	1.4		1.5	0.4		0.4	0.4
2018 Q1	0.5		0.8	0.1		—	—
Q2	0.9		0.4	0.5		0.5	0.5
Q3	1.2		1.5	0.6		0.6	0.6
Q4	0.5		0.5	0.3		0.3	0.3
2019 Q1	1.2		1.3	0.6		0.6	0.6
Q2	0.7		0.8	-0.2		-0.2	-0.2
Q3	0.5		0.5	0.3		0.3	0.3
Percentage change, latest quarter on corresponding quarter of previous year							
	IHYO		KGM2	IHYR		KGN3	KLH9
2016 Q2	3.8		3.7	1.9		1.8	1.8
Q3	4.1		4.1	1.9		2.0	2.0
Q4	4.8		4.8	1.8		2.0	2.0
2017 Q1	4.8		5.0	2.2		2.3	2.3
Q2	3.6		3.7	1.9		2.1	2.1
Q3	3.4		3.2	1.8		1.9	1.9
Q4	3.5		3.6	1.6		1.6	1.6
2018 Q1	2.8		3.1	1.1		1.0	1.0
Q2	3.3		2.9	1.3		1.3	1.3
Q3	4.0		4.2	1.6		1.6	1.5
Q4	3.1		3.1	1.5		1.5	1.5
2019 Q1	3.8		3.6	2.1		2.1	2.0
Q2	3.7		4.0	1.3		1.3	1.3
Q3	3.0		3.0	1.0		1.0	1.0

1 Estimates are given to the nearest £ million but cannot be regarded as accurate to this degree.

2 Taxes on products less subsidies.

3 Calculated by using gross value added at basic prices minus extraction of crude petroleum and natural gas.

B1 Gross value added at chained volume measures basic prices, by category of output^{1,2}

2016 = 100

	Production							Service industries						Gross value added excluding oil & gas
	Agri- culture, forestry, and fishing	Mining & quarrying inc oil & gas extract	Manu- facturing	Electric, gas, steam & air	Water supply, sewerage	Total	Constr- uction	Distri- bution, hotels & restaura- nts	Transport storage and commu- nications	Business services and finance	Govern- ment and other services	Total	Gross value added ⁴	
2016 Weights³	7	6	102	15	13	136	61	133	108	339	217	796	1000	995
	L2KL	L2KR	L2KX	L2MW	L2N2	L2KQ	L2N8	L2PZ	KI8M	KI8O	KI8Q	L2NC	CGCE	KLH7
2015	105.9	102.0	99.8	96.4	93.3	98.9	96.2	96.5	97.3	97.4	100.5	98.0	98.1	98.1
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
2017	105.7	101.7	102.2	98.2	102.0	101.7	106.4	102.4	103.6	101.0	101.2	101.7	102.0	102.0
2018	101.5	106.6	102.6	96.4	100.2	101.9	106.0	105.4	106.9	103.2	102.3	103.8	103.4	103.3
Seasonally adjusted														
2016 Q2	99.2	99.1	100.7	102.1	100.1	100.8	99.7	99.5	98.9	99.3	99.9	99.5	99.7	99.7
Q3	99.3	103.7	99.7	99.1	100.1	99.9	100.4	99.9	100.8	100.5	99.9	100.3	100.2	100.2
Q4	100.9	98.0	100.5	101.6	101.4	100.6	101.7	101.6	101.5	101.0	100.1	100.9	100.9	101.0
2017 Q1	105.6	100.9	101.5	97.4	104.5	101.3	106.0	101.8	101.8	100.8	101.0	101.1	101.5	101.5
Q2	105.7	101.9	101.3	98.4	100.3	100.9	106.2	102.3	103.4	100.6	101.5	101.5	101.8	101.8
Q3	106.3	103.3	102.3	98.7	101.3	101.8	106.4	102.7	104.0	101.1	101.2	101.8	102.1	102.1
Q4	105.3	100.6	103.8	98.5	101.9	102.9	107.2	102.9	105.1	101.6	101.1	102.2	102.5	102.5
2018 Q1	102.2	101.5	103.2	99.7	99.6	102.4	104.8	103.1	104.3	102.6	101.8	102.7	102.6	102.6
Q2	101.2	106.5	102.5	94.6	99.9	101.6	105.6	105.1	106.0	103.1	102.1	103.6	103.1	103.1
Q3	100.9	110.2	102.7	95.7	101.5	102.2	106.8	106.2	108.0	103.4	102.5	104.2	103.7	103.7
Q4	101.7	108.3	102.1	95.5	99.7	101.4	107.0	107.0	109.4	103.7	102.8	104.8	104.1	104.0
2019 Q1	100.2	107.3	104.1	92.8	99.2	102.5	108.7	107.9	111.1	103.4	103.4	105.2	104.7	104.7
Q2	99.8	106.2	101.2	95.4	100.4	100.7	107.4	107.9	111.8	103.4	103.6	105.3	104.4	104.4
Q3	99.6	104.4	101.2	94.7	101.6	100.7	108.1	108.1	112.4	103.8	104.0	105.7	104.7	104.7
Percentage change, latest year on previous year														
	L3BB	L3BH	L3BN	L3DM	L3DQ	L3BG	L3DW	L3GP	KI8L	KI8N	KI8P	L3E2	KGM7	KLH8
2015	1.0	5.1	-0.1	2.2	4.6	1.0	4.0	4.0	3.7	2.1	0.7	2.2	2.2	2.1
2016	-5.5	-2.0	0.2	3.7	7.1	1.1	3.9	3.7	2.8	2.7	-0.5	2.0	1.9	1.9
2017	5.7	1.7	2.2	-1.8	2.0	1.7	6.4	2.4	3.6	1.0	1.2	1.7	2.0	2.0
2018	-4.0	4.8	0.4	-1.9	-1.8	0.1	-0.4	2.8	3.2	2.1	1.1	2.1	1.4	1.3
Percentage change, latest quarter on previous quarter														
													KGM9	
2016 Q2	-1.5	-0.1	1.7	5.1	1.8	2.0	1.6	0.5	0.2	0.2	-0.3	0.1	0.5	0.5
Q3	0.1	4.6	-1.0	-3.0	-	-0.9	0.7	0.3	1.9	1.1	-	0.8	0.5	0.5
Q4	1.6	-5.5	0.8	2.6	1.4	0.7	1.3	1.8	0.7	0.6	0.2	0.7	0.7	0.8
2017 Q1	4.7	3.0	0.9	-4.1	3.0	0.7	4.2	0.2	0.2	-0.3	0.9	0.2	0.6	0.6
Q2	0.1	1.0	-0.1	0.9	-4.0	-0.4	0.3	0.5	1.6	-0.2	0.5	0.4	0.3	0.2
Q3	0.6	1.3	0.9	0.3	1.0	0.9	0.1	0.4	0.6	0.5	-0.2	0.3	0.3	0.3
Q4	-1.0	-2.6	1.5	-0.2	0.6	1.1	0.7	0.2	1.0	0.5	-0.2	0.4	0.4	0.4
2018 Q1	-3.0	0.8	-0.7	1.2	-2.3	-0.5	-2.2	0.2	-0.8	1.0	0.7	0.5	-	-
Q2	-0.9	5.0	-0.6	-5.1	0.3	-0.7	0.7	1.9	1.6	0.5	0.3	0.8	0.5	0.5
Q3	-0.3	3.4	0.1	1.2	1.6	0.5	1.2	1.1	1.8	0.2	0.4	0.6	0.6	0.6
Q4	0.8	-1.7	-0.6	-0.2	-1.7	-0.7	0.2	0.7	1.3	0.3	0.3	0.5	0.3	0.3
2019 Q1	-1.4	-0.9	2.0	-2.8	-0.6	1.1	1.6	0.9	1.5	-0.3	0.6	0.4	0.6	0.6
Q2	-0.4	-1.1	-2.8	2.8	1.2	-1.8	-1.2	-	0.6	-	0.2	0.1	-0.2	-0.2
Q3	-0.2	-1.7	-	-0.7	1.2	-	0.6	0.1	0.6	0.3	0.4	0.4	0.3	0.3
Percentage change, latest quarter on corresponding quarter of previous year														
	L3ZZ	L427	L42D	L44C	L44G	L426	L44M	L47F	KII2	KIH9	KIH8	L44Q	KGN3	KLH9
2016 Q2	-7.0	-6.8	0.6	6.8	6.9	1.4	3.4	3.4	1.6	2.6	-0.4	1.8	1.8	1.8
Q3	-6.8	1.0	0.2	2.0	6.0	1.0	5.0	3.1	3.1	3.1	-0.9	2.0	2.0	2.0
Q4	-3.5	-4.6	1.4	6.8	6.6	2.1	4.8	3.9	3.5	2.5	-1.3	1.8	2.0	2.0
2017 Q1	4.9	1.7	2.4	0.3	6.2	2.5	8.0	2.9	3.1	1.7	0.8	1.8	2.3	2.3
Q2	6.6	2.8	0.6	-3.7	0.2	0.2	6.5	2.8	4.6	1.3	1.6	2.1	2.1	2.1
Q3	7.1	-0.4	2.6	-0.4	1.2	2.0	5.9	2.9	3.2	0.6	1.4	1.5	1.9	1.9
Q4	4.4	2.7	3.3	-3.1	0.5	2.3	5.4	1.3	3.5	0.6	1.0	1.2	1.6	1.6
2018 Q1	-3.3	0.5	1.7	2.3	-4.7	1.1	-1.1	1.3	2.5	1.8	0.8	1.5	1.0	1.0
Q2	-4.3	4.5	1.2	-3.8	-0.4	0.7	-0.6	2.7	2.5	2.5	0.6	2.0	1.3	1.3
Q3	-5.1	6.7	0.4	-3.0	0.2	0.3	0.4	3.4	3.8	2.2	1.2	2.4	1.6	1.5
Q4	-3.5	7.6	-1.7	-3.0	-2.1	-1.5	-0.2	4.0	4.1	2.0	1.7	2.6	1.5	1.5
2019 Q1	-1.9	5.8	0.9	-6.9	-0.4	0.2	3.7	4.7	6.5	0.8	1.6	2.4	2.1	2.0
Q2	-1.4	-0.3	-1.3	0.9	0.5	-0.9	1.8	2.7	5.4	0.3	1.4	1.7	1.3	1.3
Q3	-1.3	-5.3	-1.4	-1.0	0.1	-1.4	1.2	1.7	4.1	0.4	1.5	1.4	1.0	1.0

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

2 Components of output are valued at basic prices, which excludes taxes and includes subsidies on products.

3 Weights may not sum to the total due to rounding.

4 This is a balanced index of UK GVA taking into account data from the Income and Expenditure approaches. Thus it will not necessarily be the weighted sum of the industrial indices.

B2 Gross value added at chained volume measures basic prices, by category of output^{1,2}

2016 = 100

Service industries											
	Wholesale and retail trade	Transport, storage and communications	Accommodation & food services	Financial and insurance activities	Real estate	Professional scientific admin & support	Public admin, defence, social security	Education	Health and social work	Other services ⁴	Total services
2016 Weights³	105	108	28	72	140	126	49	58	75	35	796
	L2NE	KI8M	L2NQ	L2O6	L2OC	L2OH	L2P8	L2PA	L2PC	L2Q5	L2NC
2015	95.9	97.3	98.5	96.3	98.0	97.3	102.0	100.8	98.4	102.3	98.0
2016	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2017	102.5	103.6	102.4	99.1	99.0	104.3	100.8	101.2	101.0	102.1	101.7
2018	105.6	106.9	104.3	99.0	100.4	108.8	101.6	101.7	102.4	104.0	103.8
Seasonally adjusted											
2016 Q2	99.5	98.9	99.7	98.4	99.7	99.4	99.9	99.8	99.8	100.1	99.5
Q3	99.8	100.8	100.0	102.2	99.9	100.2	99.7	99.6	100.0	100.3	100.3
Q4	101.8	101.5	100.7	101.0	100.6	101.5	99.9	100.1	100.3	99.7	100.9
2017 Q1	101.7	101.8	102.2	99.9	99.3	102.9	100.4	101.5	101.0	101.0	101.1
Q2	102.2	103.4	102.6	99.6	98.9	103.0	101.1	101.2	101.5	102.4	101.5
Q3	102.8	104.0	102.5	98.9	98.8	104.9	100.7	101.2	101.1	102.6	101.8
Q4	103.1	105.1	102.2	98.1	99.1	106.5	100.9	101.0	100.6	102.3	102.2
2018 Q1	103.4	104.3	102.0	99.5	100.2	107.1	100.7	101.0	102.2	103.6	102.7
Q2	105.3	106.0	104.2	99.3	100.4	108.2	101.2	101.5	102.0	104.6	103.6
Q3	106.7	108.0	104.6	99.0	100.3	109.2	102.3	101.6	102.5	104.4	104.2
Q4	107.1	109.4	106.3	98.1	100.5	110.5	102.2	102.7	103.1	103.3	104.8
2019 Q1	108.3	111.1	106.7	96.6	100.7	110.3	103.4	103.6	103.5	102.9	105.2
Q2	108.4	111.8	106.4	96.2	101.0	110.2	103.7	104.3	104.0	101.4	105.3
Q3	108.7	112.4	105.8	96.9	101.1	110.6	103.6	104.8	104.7	102.0	105.7
Percentage change, latest year on previous year											
	L3E4	KI8L	L3EG	L3EU	L3F2	L3F7	L3FW	L3FY	L3G2	L3GT	L3E2
2015	3.9	3.7	4.4	-3.8	2.8	4.9	-2.4	1.1	1.7	2.3	2.2
2016	4.2	2.8	1.5	3.8	2.0	2.8	-1.9	-0.8	1.6	-2.3	2.0
2017	2.5	3.6	2.4	-0.9	-1.0	4.3	0.8	1.2	1.0	2.1	1.7
2018	3.1	3.2	1.9	-0.2	1.3	4.2	0.8	0.5	1.4	1.9	2.1
Percentage change, latest quarter on previous quarter											
2016 Q2	0.6	0.2	0.1	-	-	0.6	-0.7	-0.8	-	0.1	0.1
Q3	0.3	1.9	0.3	3.9	0.1	0.8	-0.2	-0.2	0.2	0.2	0.8
Q4	2.0	0.7	0.6	-1.1	0.8	1.3	0.2	0.5	0.4	-0.6	0.7
2017 Q1	-0.1	0.2	1.5	-1.1	-1.3	1.4	0.5	1.4	0.6	1.4	0.2
Q2	0.5	1.6	0.4	-0.3	-0.4	0.1	0.7	-0.3	0.5	1.4	0.4
Q3	0.5	0.6	-0.2	-0.7	-0.1	1.8	-0.4	-	-0.4	0.1	0.3
Q4	0.3	1.0	-0.3	-0.8	0.3	1.5	0.2	-0.2	-0.4	-0.2	0.4
2018 Q1	0.3	-0.8	-0.1	1.4	1.1	0.6	-0.2	-	1.5	1.2	0.5
Q2	1.9	1.6	2.1	-0.2	0.2	1.1	0.5	0.5	-0.2	1.0	0.8
Q3	1.3	1.8	0.4	-0.3	-0.1	0.9	1.1	0.1	0.5	-0.3	0.6
Q4	0.4	1.3	1.6	-1.0	0.1	1.2	-0.1	1.1	0.6	-1.0	0.5
2019 Q1	1.1	1.5	0.3	-1.5	0.2	-0.2	1.2	0.9	0.4	-0.4	0.4
Q2	0.1	0.6	-0.3	-0.4	0.3	-0.1	0.3	0.7	0.5	-1.5	0.1
Q3	0.3	0.6	-0.5	0.7	0.1	0.4	-	0.5	0.7	0.6	0.4
Percentage change, latest quarter on corresponding quarter of the previous year											
	L44S	KI12	L456	L45K	L45Q	L45V	L46M	L46O	L46Q	L47J	L44Q
2016 Q2	3.8	1.6	2.0	3.9	2.0	2.6	-2.3	-0.6	1.5	-1.6	1.8
Q3	3.6	3.1	1.4	9.5	1.1	2.0	-1.8	-1.6	0.7	-1.9	2.0
Q4	5.0	3.5	-0.1	3.4	1.5	3.1	-1.7	-1.5	0.7	-4.6	1.8
2017 Q1	2.9	3.1	2.6	1.5	-0.4	4.1	-0.2	0.9	1.2	1.1	1.8
Q2	2.7	4.6	2.9	1.3	-0.8	3.6	1.2	1.4	1.6	2.3	2.1
Q3	3.0	3.2	2.4	-3.2	-1.1	4.7	1.0	1.6	1.1	2.3	1.5
Q4	1.2	3.5	1.5	-2.9	-1.5	4.9	1.1	0.9	0.3	2.7	1.2
2018 Q1	1.6	2.5	-0.2	-0.4	0.9	4.0	0.3	-0.4	1.2	2.5	1.5
Q2	3.1	2.5	1.5	-0.3	1.5	5.1	0.1	0.3	0.5	2.2	2.0
Q3	3.8	3.8	2.1	0.1	1.5	4.1	1.6	0.4	1.4	1.8	2.4
Q4	3.9	4.1	4.0	-	1.3	3.8	1.2	1.7	2.4	0.9	2.6
2019 Q1	4.7	6.5	4.5	-2.9	0.5	3.0	2.6	2.6	1.3	-0.7	2.4
Q2	2.9	5.4	2.1	-3.1	0.5	1.8	2.5	2.7	2.0	-3.1	1.7
Q3	1.9	4.1	1.2	-2.2	0.8	1.3	1.3	3.1	2.2	-2.3	1.4

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

2 Components of output are valued at basic prices, which excludes taxes and includes subsidies on production.

3 Weights may not sum to the total due to rounding.

4 Comprising sections R, S and T of SIC(2007).

C1 Gross domestic product: expenditure at current market prices¹

£ million

National expenditure on goods and services at market prices																
Final consumption expenditure					Gross capital formation											
	Households	Non-profit institutions ²	General government	Gross fixed capital formation	Of which business investment ³	Change in inventories ⁴	Of which alignment adjustment	Acquisitions less disposals of valuables ⁵	Total	Exports	Gross final expenditure	less imports	Trade balance ⁶	Statistical discrepancy (expenditure)	Gross domestic product at market prices	
	ABJQ	HAYE	NMRP	NPQS	NPEK	CAEX	DMUN	NPJQ	YBIL	IKBH	ABMF	IKBI	IKBJ	GIXM	YBHA	
2015	1 189 246	46 637	373 675	324 623	183 576	9 213	–	–40 194	354 530	049 247	340 556	507 26	–26 458	–	1 916 896	
2016	1 252 934	46 117	381 522	343 694	195 973	3 580	–	–47 202	800 567	499 259	599 599	822 32	–32 323	1	1 995 478	
2017	1 300 305	46 560	386 667	357 080	204 945	4 727	–	1 245 209	584 629	085 272	669 654	212 25	–25 127	210	2 071 667	
2018	1 354 729	47 368	395 987	363 183	204 716	4 328	–	2 085 216	680 642	230 280	910 679	959 37	–37 729	10 327	2 140 278	
Seasonally adjusted																
2016 Q2	312 192	11 548	95 240	85 457	48 768	–22	–954	–1 238	503 177	139 552	642 729	145 158	–5 606	–	497 571	
Q3	316 633	11 459	95 635	87 250	49 931	819	1 861	2 700	514 496	141 260	655 756	155 046	–13 786	1	500 711	
Q4	317 723	11 453	96 021	87 102	49 436	2 651	–1 984	–1 884	513 066	152 847	665 913	158 538	–5 691	–	507 375	
2017 Q1	322 444	11 501	96 497	87 774	50 752	3 148	1 863	–373	520 991	153 417	674 408	160 845	–7 428	–105	513 458	
Q2	323 934	11 623	95 869	89 125	51 268	581	–1 967	321	521 453	157 655	679 108	163 473	–5 818	–101	515 534	
Q3	325 010	11 679	96 670	89 686	51 562	266	–349	420	523 731	159 024	682 755	164 956	–5 932	–11	517 788	
Q4	328 917	11 757	97 631	90 495	51 363	732	453	877	530 409	158 989	689 398	164 938	–5 949	427	524 887	
2018 Q1	334 235	11 789	98 150	89 897	51 498	–2 239	–2 600	558	532 390	157 707	690 097	163 493	–5 786	1 159	527 763	
Q2	337 796	11 838	98 172	90 630	51 393	2 644	1 841	1 292	542 372	156 623	698 995	168 667	–12 044	2 060	532 388	
Q3	340 578	11 866	99 029	91 251	50 950	801	–22	1 051	544 576	162 306	706 882	171 207	–8 901	3 081	538 756	
Q4	342 120	11 875	100 636	91 405	50 875	3 122	781	–816	548 342	165 594	713 936	176 592	–10 998	4 027	541 371	
2019 Q1	343 697	11 898	102 216	93 702	51 888	5 021	–1 766	9 979	566 513	166 780	733 293	189 529	–22 749	4 120	547 884	
Q2	346 240	11 938	104 441	92 898	52 049	2 367	2 131	1 170	559 054	156 886	715 940	168 280	–11 394	4 238	551 898	
Q3	348 740	11 995	106 018	93 344	52 546	–2 574	–769	–438	557 085	165 698	722 783	172 108	–6 410	4 254	554 929	
Percentage change, latest year on previous year																
	KG Y7	KG Z8	KH 2C	KG 6O	KG 6N				KG X3	KH 2O	KG V7	KH 3H			IHYM	
2015	2.9	4.0	1.2	6.5	9.6				2.9	–0.1	2.3	–			3.0	
2016	5.4	–1.1	2.1	5.9	6.8				4.3	7.1	4.9	7.8			4.1	
2017	3.8	1.0	1.3	3.9	4.6				3.4	10.9	5.0	9.1			3.8	
2018	4.2	1.7	2.4	1.7	–0.1				3.4	2.1	3.1	3.9			3.3	
Percentage change, latest quarter on previous quarter																
	KG Y8	KG Z9	KH 2D	KG 6W	KG 6V				KG X4	KH 2P	KG V8	KH 3I			IHYN	
2016 Q2	1.9	–0.9	0.6	1.9	1.9				1.2	4.3	1.9	2.9			1.6	
Q3	1.4	–0.8	0.4	2.1	2.4				2.2	1.2	2.0	6.8			0.6	
Q4	0.3	–0.1	0.4	–0.2	–1.0				–0.3	8.2	1.5	2.3			1.3	
2017 Q1	1.5	0.4	0.5	0.8	2.7				1.5	0.4	1.3	1.5			1.2	
Q2	0.5	1.1	–0.7	1.5	1.0				0.1	2.8	0.7	1.6			0.4	
Q3	0.3	0.5	0.8	0.6	0.6				0.4	0.9	0.5	0.9			0.4	
Q4	1.2	0.7	1.0	0.9	–0.4				1.3	–	1.0	–			1.4	
2018 Q1	1.6	0.3	0.5	–0.7	0.3				0.4	–0.8	0.1	–0.9			0.5	
Q2	1.1	0.4	–	0.8	–0.2				1.9	–0.7	1.3	3.2			0.9	
Q3	0.8	0.2	0.9	0.7	–0.9				0.4	3.6	1.1	1.5			1.2	
Q4	0.5	0.1	1.6	0.2	–0.1				0.7	2.0	1.0	3.1			0.5	
2019 Q1	0.5	0.2	1.6	2.5	2.0				3.3	0.7	2.7	7.3			1.2	
Q2	0.7	0.3	2.2	–0.9	0.3				–1.3	–5.9	–2.4	–11.2			0.7	
Q3	0.7	0.5	1.5	0.5	1.0				–0.4	5.6	1.0	2.3			0.5	
Percentage change, latest quarter on corresponding quarter of previous year																
	KG Y9	KH 22	KH 2E	KG 76	KG 75				KG X5	KH 2Q	KG V9	KH 3J			IHYO	
2016 Q2	5.5	–0.9	2.3	5.1	6.7				4.2	3.3	4.0	4.6			3.8	
Q3	5.8	–2.2	1.3	8.2	9.5				5.4	9.2	6.2	13.8			4.1	
Q4	5.2	–2.2	2.7	5.7	5.1				4.8	14.1	6.8	13.7			4.8	
2017 Q1	5.2	–1.3	2.0	4.6	6.1				4.8	14.6	6.9	14.0			4.8	
Q2	3.8	0.6	0.7	4.3	5.1				3.6	13.0	5.7	12.6			3.6	
Q3	2.6	1.9	1.1	2.8	3.3				1.8	12.6	4.1	6.4			3.4	
Q4	3.5	2.7	1.7	3.9	3.9				3.4	4.0	3.5	4.0			3.5	
2018 Q1	3.7	2.5	1.7	2.4	1.5				2.2	2.8	2.3	1.6			2.8	
Q2	4.3	1.8	2.4	1.7	0.2				4.0	–0.7	2.9	3.2			3.3	
Q3	4.8	1.6	2.4	1.7	–1.2				4.0	2.1	3.5	3.8			4.0	
Q4	4.0	1.0	3.1	1.0	–1.0				3.4	4.2	3.6	7.1			3.1	
2019 Q1	2.8	0.9	4.1	4.2	0.8				6.4	5.8	6.3	15.9			3.8	
Q2	2.5	0.8	6.4	2.5	1.3				3.1	0.2	2.4	–0.2			3.7	
Q3	2.4	1.1	7.1	2.3	3.1				2.3	2.1	2.2	0.5			3.0	

1 Estimates are given to the nearest £ million, but cannot be regarded as accurate to this degree.

2 Non-profit institutions serving households.

3 A further breakdown of business investment can be found in the 'Business investment in the UK' bulletin.

4 Quarterly alignment adjustment included in this series.

5 Acquisitions less disposals of valuables can be a volatile series due to the inclusion of non-monetary gold, but any volatility is likely to be GDP neutral as this is offset in UK trade figures.

6 Trade balance is calculated by using exports of goods and services minus imports of goods and services.

C2 Gross domestic product by category of expenditure: chained volume measures¹

Reference year 2016, £ million

National expenditure on goods and services at market prices															
Final consumption expenditure						Gross capital formation									
	Households	Non-profit institutions ²	General government	Gross fixed capital formation	Of which business investment ³	Change in inventories ⁴	Of which alignment adjustment	Acquisitions less disposals of valuables ⁵	Total	Exports	Gross final expenditure	less imports	Total	Trade balance ⁶	Gross domestic product at market prices
	ABJR	HAYO	NMRY	NPQT	NPEL	CAFU	DMUM	NPJR	YBIM	IKBK	ABMG	IKBL	IKBM	GIXS	ABMI
2015	1 206 496	46 830	377 900	331 615	187 908	16 067	-1	-447 1	980 191 552 388	2 532 610 574 575	-22 187	-	-	-	1 957 920
2016	1 252 934	46 117	381 522	343 690	195 973	3 580	1	-48 2	027 800 567 499	2 595 299 599 822	-32 323	-	-	-	1 995 478
2017	1 281 722	46 042	382 508	349 306	201 708	-8 974	-	1 149	2 051 749 602 123	2 653 872 620 838	-18 715	-	-	200	2 033 234
2018	1 302 397	46 387	384 955	349 055	198 489	-4 841	-	1 877	2 079 828 596 923	2 676 751 625 272	-28 349	-	-	9 929	2 061 408
Seasonally adjusted															
2016 Q2	312 091	11 543	95 290	85 673	48 954	-398	-961	-1 509	503 159 142 154	645 294 147 688	-5 534	-	-	-	497 593
Q3	315 828	11 429	95 386	86 818	49 745	3 154	1 852	2 989	513 262 138 543	651 896 152 072	-13 529	-	-	1	499 836
Q4	317 381	11 387	95 477	86 301	48 801	-113	-1 972	-1 326	509 638 147 009	656 565 153 493	-6 484	-	-	-	503 083
2017 Q1	318 897	11 466	95 419	86 336	49 910	-577	1 833	-636	510 905 147 656	658 561 152 474	-4 818	-104	-	-	505 983
Q2	319 788	11 519	95 460	87 551	50 490	-2 232	-1 937	42	512 127 151 190	663 317 155 962	-4 772	-100	-	-	507 255
Q3	321 032	11 489	95 724	87 218	50 603	-2 784	-342	519	513 197 152 771	665 968 156 975	-4 204	-11	-	-	508 982
Q4	322 005	11 568	95 905	88 201	50 705	-3 381	446	1 224	515 520 150 506	666 026 155 427	-4 921	415	-	-	511 014
2018 Q1	323 731	11 652	95 677	87 364	50 188	-4 062	-2 516	387	514 748 149 438	664 186 154 009	-4 571	1 123	-	-	511 300
Q2	325 480	11 554	95 646	86 984	49 882	549	1 781	882	521 095 145 600	666 695 154 667	-9 067	1 989	-	-	514 017
Q3	326 303	11 586	96 040	87 396	49 463	-2 358	-17	833	519 800 150 590	670 390 156 127	-5 537	2 958	-	-	517 221
Q4	326 883	11 595	97 592	87 311	48 956	1 030	752	-225	524 185 151 295	675 480 160 469	-9 174	3 859	-	-	518 870
2019 Q1	327 866	11 585	98 387	88 073	49 362	5 530	-1 679	9 799	541 242 153 660	694 902 176 953	-23 293	3 924	-	-	521 873
Q2	329 036	11 452	99 449	87 238	49 174	-705	2 012	720	527 190 143 541	670 731 153 994	-10 453	3 998	-	-	520 735
Q3	330 321	11 508	99 745	87 044	49 151	-5 309	-723	-754	522 555 150 938	673 493 155 249	-4 311	4 003	-	-	522 247
Percentage change, latest year on previous year															
	KGZ5	KH26	KH2I	KG7N	KG7M				KGX9	KH2U	KGW5	KH3N			IHYP
2015	2.9	4.1	1.8	3.7	7.2				2.9	3.8	3.1	5.4			2.4
2016	3.8	-1.5	1.0	3.6	4.3				2.4	2.7	2.5	4.4			1.9
2017	2.3	-0.2	0.3	1.6	2.9				1.2	6.1	2.3	3.5			1.9
2018	1.6	0.7	0.6	-0.1	-1.6				1.4	-0.9	0.9	0.7			1.4
Percentage change, latest quarter on previous quarter															
	KGZ6	KH27	KH2J	KG7Q	KG7P				KGY2	KH2V	KGW6	KH3O			IHYQ
2016 Q2	1.4	-1.8	-0.1	0.9	1.0				0.3	1.7	0.6	0.8			0.5
Q3	1.2	-1.0	0.1	1.3	1.6				2.0	-2.5	1.0	3.0			0.5
Q4	0.5	-0.4	0.1	-0.6	-1.9				-0.7	6.1	0.7	0.9			0.6
2017 Q1	0.5	0.7	-0.1	-	2.3				0.2	0.4	0.3	-0.7			0.6
Q2	0.3	0.5	-	1.4	1.2				0.2	2.4	0.7	2.3			0.3
Q3	0.4	-0.3	0.3	-0.4	0.2				0.2	1.0	0.4	0.6			0.3
Q4	0.3	0.7	0.2	1.1	0.2				0.5	-1.5	-	-1.0			0.4
2018 Q1	0.5	0.7	-0.2	-0.9	-1.0				-0.1	-0.7	-0.3	-0.9			0.1
Q2	0.5	-0.8	-	-0.4	-0.6				1.2	-2.6	0.4	0.4			0.5
Q3	0.3	0.3	0.4	0.5	-0.8				-0.2	3.4	0.6	0.9			0.6
Q4	0.2	0.1	1.6	-0.1	-1.0				0.8	0.5	0.8	2.8			0.3
2019 Q1	0.3	-0.1	0.8	0.9	0.8				3.3	1.6	2.9	10.3			0.6
Q2	0.4	-1.1	1.1	-0.9	-0.4				-2.6	-6.6	-3.5	-13.0			-0.2
Q3	0.4	0.5	0.3	-0.2	-				-0.9	5.2	0.4	0.8			0.3
Percentage change, latest quarter on corresponding quarter of previous year															
	KGZ7	KH28	KH2K	KG7T	KG7S				KGY3	KH2W	KGW7	KH3P			IHYR
2016 Q2	3.6	-2.0	0.8	3.1	4.5				2.3	2.5	2.3	3.9			1.9
Q3	3.8	-2.6	0.2	5.7	6.7				3.7	1.1	3.1	7.3			1.9
Q4	4.7	-3.4	0.5	3.4	2.1				1.8	5.3	2.6	5.2			1.8
2017 Q1	3.7	-2.5	0.1	1.7	3.0				1.8	5.6	2.7	4.0			2.2
Q2	2.5	-0.2	0.2	2.2	3.1				1.8	6.4	2.8	5.6			1.9
Q3	1.6	0.5	0.4	0.5	1.7				-	10.3	2.2	3.2			1.8
Q4	1.5	1.6	0.4	2.2	3.9				1.2	2.4	1.4	1.3			1.6
2018 Q1	1.5	1.6	0.3	1.2	0.6				0.8	1.2	0.9	1.0			1.1
Q2	1.8	0.3	0.2	-0.6	-1.2				1.8	-3.7	0.5	-0.8			1.3
Q3	1.6	0.8	0.3	0.2	-2.3				1.3	-1.4	0.7	-0.5			1.6
Q4	1.5	0.2	1.8	-1.0	-3.4				1.7	0.5	1.4	3.2			1.5
2019 Q1	1.3	-0.6	2.8	0.8	-1.6				5.1	2.8	4.6	14.9			2.1
Q2	1.1	-0.9	4.0	0.3	-1.4				1.2	-1.4	0.6	-0.4			1.3
Q3	1.2	-0.7	3.9	-0.4	-0.6				0.5	0.2	0.5	-0.6			1.0

1 Estimates are given to the nearest £ million but cannot be regarded as accurate to this degree.

2 Non-profit institutions serving households.

3 A further breakdown of business investment can be found in the 'Business investment in the UK' bulletin.

4 Quarterly alignment adjustment included in this series.

5 Acquisitions less disposals of valuables can be a volatile series due to the inclusion of non-monetary gold, but any volatility is likely to be GDP neutral as this is offset in UK trade figures.

6 Trade balance is calculated by using exports of goods and services minus imports of goods and services.

D Gross domestic product by category of income: current prices¹

£ million

	Compensation of employees			Gross operating surplus of corporations ^{2,3}	Of which alignment adjustment	Other income ⁴	Gross value added at factor cost	Taxes on products & production less subsidies	Statistical discrepancy (income)	Gross domestic product at market prices
	Wages and Salaries	Employers social contributions	Total							
	DTWL	DTWP	DTWM	CGBZ	DMUQ	CGBX	CGCB	CMVL	GIXQ	YBHA
2015	774 210	155 220	929 430	412 076	–	341 071	1 682 577	234 319	–	1 916 896
2016	802 669	165 055	967 724	427 649	–	356 317	1 751 690	243 788	–	1 995 478
2017	833 103	176 047	1 009 150	444 553	–	364 779	1 818 482	252 976	209	2 071 667
2018	872 904	180 073	1 052 977	448 668	–	383 577	1 885 222	259 702	–4 646	2 140 278

Seasonally adjusted

2016 Q2	200 189	41 176	241 365	105 893	–799	89 411	436 669	60 902	–	497 571
Q3	202 242	41 990	244 232	106 225	–1 791	89 364	439 821	60 890	–	500 711
Q4	202 879	42 728	245 607	109 629	1 827	90 341	445 577	61 798	–	507 375
2017 Q1	203 787	43 667	247 454	113 754	126	90 479	451 687	61 738	33	513 458
Q2	207 471	44 043	251 514	110 122	–241	90 747	452 383	63 087	64	515 534
Q3	209 600	44 657	254 257	107 954	44	91 300	453 511	64 175	102	517 788
Q4	212 245	43 680	255 925	112 723	71	92 253	460 901	63 976	10	524 887
2018 Q1	215 461	43 164	258 625	112 889	1 220	93 499	465 013	62 929	–179	527 763
Q2	216 665	44 261	260 926	110 749	–1 155	95 240	466 915	66 135	–662	532 388
Q3	219 158	45 649	264 807	113 932	1 838	96 362	475 101	65 118	–1 463	538 756
Q4	221 620	46 999	268 619	111 098	–1 903	98 476	478 193	65 520	–2 342	541 371
2019 Q1	222 453	47 074	269 527	115 053	–101	100 315	484 895	65 536	–2 547	547 884
Q2	224 790	48 858	273 648	113 983	1 552	99 961	487 592	66 855	–2 549	551 898
Q3	226 751	49 321	276 072	114 104	424	100 414	490 590	66 711	–2 372	554 929

Percentage change, latest year on previous year

	CWNH	CWNE	KGI3	KH4V	KH6T	KH6N	KH65	IHYM
2015	3.2	0.7	2.7	1.4	5.5	3.0	2.9	3.0
2016	3.7	6.3	4.1	3.8	4.5	4.1	4.0	4.1
2017	3.8	6.7	4.3	4.0	2.4	3.8	3.8	3.8
2018	4.8	2.3	4.3	0.9	5.2	3.7	2.7	3.3

Percentage change, latest quarter on previous quarter

	CWNI	CWNF	KGI4	KH4W	KH6U	KH6O	KH66	IHYN
2016 Q2	1.4	5.1	2.0	–	2.5	1.6	1.2	1.6
Q3	1.0	2.0	1.2	0.3	–0.1	0.7	–	0.6
Q4	0.3	1.8	0.6	3.2	1.1	1.3	1.5	1.3
2017 Q1	0.4	2.2	0.8	3.8	0.2	1.4	–0.1	1.2
Q2	1.8	0.9	1.6	–3.2	0.3	0.2	2.2	0.4
Q3	1.0	1.4	1.1	–2.0	0.6	0.2	1.7	0.4
Q4	1.3	–2.2	0.7	4.4	1.0	1.6	–0.3	1.4
2018 Q1	1.5	–1.2	1.1	0.1	1.4	0.9	–1.6	0.5
Q2	0.6	2.5	0.9	–1.9	1.9	0.4	5.1	0.9
Q3	1.2	3.1	1.5	2.9	1.2	1.8	–1.5	1.2
Q4	1.1	3.0	1.4	–2.5	2.2	0.7	0.6	0.5
2019 Q1	0.4	0.2	0.3	3.6	1.9	1.4	–	1.2
Q2	1.1	3.8	1.5	–0.9	–0.4	0.6	2.0	0.7
Q3	0.9	0.9	0.9	0.1	0.5	0.6	–0.2	0.5

Percentage change, latest quarter on corresponding quarter of previous year

	CWNJ	CWNG	KGI5	KH4X	KH6V	KH6P	KH67	IHYO
2016 Q2	3.9	6.2	4.3	1.3	5.4	3.8	3.8	3.8
Q3	4.5	9.0	5.2	2.9	3.2	4.2	2.7	4.1
Q4	4.3	8.4	5.0	5.0	4.6	4.9	4.1	4.8
2017 Q1	3.3	11.5	4.6	7.4	3.8	5.1	2.6	4.8
Q2	3.6	7.0	4.2	4.0	1.5	3.6	3.6	3.6
Q3	3.6	6.4	4.1	1.6	2.2	3.1	5.4	3.4
Q4	4.6	2.2	4.2	2.8	2.1	3.4	3.5	3.5
2018 Q1	5.7	–1.2	4.5	–0.8	3.3	3.0	1.9	2.8
Q2	4.4	0.5	3.7	0.6	5.0	3.2	4.8	3.3
Q3	4.6	2.2	4.1	5.5	5.5	4.8	1.5	4.0
Q4	4.4	7.6	5.0	–1.4	6.7	3.8	2.4	3.1
2019 Q1	3.2	9.1	4.2	1.9	7.3	4.3	4.1	3.8
Q2	3.8	10.4	4.9	2.9	5.0	4.4	1.1	3.7
Q3	3.5	8.0	4.3	0.2	4.2	3.3	2.4	3.0

1 Estimates are given to the nearest £ million but cannot be regarded as accurate to this degree.

2 Quarterly alignment adjustment included in this series.

3 Includes the operating surplus of financial corporations, private non-financial corporations and public corporations.

4 Includes mixed income and the operating surplus of the non-corporate sector.

F1 Gross fixed capital formation by sector and type of asset

Current prices

£ million

	Analysis by sector								Analysis by asset					
	Public corporations ²				Private Sector									
	Business investment ¹	General government	Dwellings ⁴	Costs of transfer of ownership of non-produced assets	Dwellings ⁴	Costs of transfer of ownership of non-produced assets	Total	Transport equipment	ICT equipment and other machinery and equipment ³	Dwellings ⁴	Other buildings and structures ⁵	Intellectual Property Products	Total	
	NPEK	RPZG	L62R	L62S	L62T	L62U	NPQS	TLPX	TLPW	GGAE	EQED	TLPK	NPQS	
2015	183 576	51 158	8 130	686	58 083	22 990	324 623	20 202	51 960	66 214	115 921	70 324	324 623	
2016	195 973	52 418	8 362	725	60 904	25 316	343 694	24 623	56 102	69 319	120 018	73 630	343 694	
2017	204 945	55 290	8 464	773	69 191	18 417	357 080	22 064	66 328	77 655	117 290	73 743	357 080	
2018	204 716	57 566	4 622	759	77 510	18 010	363 183	17 724	64 026	82 134	119 700	79 599	363 183	

Seasonally adjusted

2016 Q2	48 768	13 225	2 113	221	15 015	6 116	85 457	5 945	14 150	17 128	29 840	18 394	85 457	
Q3	49 931	13 679	2 086	169	15 312	6 074	87 250	7 068	14 089	17 401	30 255	18 437	87 250	
Q4	49 436	13 375	2 135	179	15 633	6 345	87 102	5 395	14 086	17 768	31 326	18 527	87 102	
2017 Q1	50 752	13 429	2 187	168	16 591	4 647	87 774	5 523	16 102	18 777	29 266	18 106	87 774	
Q2	51 268	13 910	2 285	218	16 850	4 594	89 125	5 852	16 985	19 135	28 896	18 257	89 125	
Q3	51 562	13 790	2 195	196	17 317	4 626	89 686	5 696	16 356	19 512	29 619	18 503	89 686	
Q4	51 363	14 161	1 797	191	18 433	4 550	90 495	4 993	16 885	20 231	29 509	18 877	90 495	
2018 Q1	51 498	13 799	1 224	176	18 654	4 546	89 897	5 112	16 170	19 878	29 227	19 510	89 897	
Q2	51 393	13 952	1 188	206	19 404	4 487	90 630	4 535	16 058	20 592	29 390	20 055	90 630	
Q3	50 950	14 829	1 098	191	19 696	4 487	91 251	3 967	15 956	20 795	30 402	20 131	91 251	
Q4	50 875	14 986	1 112	186	19 756	4 490	91 405	4 110	15 842	20 869	30 681	19 903	91 405	
2019 Q1	51 888	15 986	1 146	177	20 019	4 486	93 702	3 877	15 480	21 164	32 880	20 301	93 702	
Q2	52 049	15 100	1 129	197	19 970	4 453	92 898	4 884	13 344	21 101	33 392	20 177	92 898	
Q3	52 546	14 778	1 114	193	20 183	4 531	93 344	4 783	14 474	21 302	32 413	20 373	93 344	

Percentage change, latest year on previous year

	KG6N	KH7N	L64E	L64H	L64K	L64N	KG6O	KG6T	KG6S	KH7X	KH7W	KG6R	KG6O	
2015	9.6	0.5	-2.0	4.7	6.5	0.8	6.5	20.8	1.8	5.4	10.2	2.0	6.5	
2016	6.8	2.5	2.9	5.7	4.9	10.1	5.9	21.9	8.0	4.7	3.5	4.7	5.9	
2017	4.6	5.5	1.2	6.6	13.6	-27.3	3.9	-10.4	18.2	12.0	-2.3	0.2	3.9	
2018	-0.1	4.1	-45.4	-1.8	12.0	-2.2	1.7	-19.7	-3.5	5.8	2.1	7.9	1.7	

Percentage change, latest quarter on previous quarter

	KG6V	KH7P	L64F	L64I	L64L	L64O	KG6W	KG73	KG72	KH83	KH82	KG6Z	KG6W	
2016 Q2	1.9	8.9	4.2	41.7	0.5	-9.8	1.9	-4.3	2.7	0.6	4.3	0.7	1.9	
Q3	2.4	3.4	-1.3	-23.5	2.0	-0.7	2.1	18.9	-0.4	1.6	1.4	0.2	2.1	
Q4	-1.0	-2.2	2.3	5.9	2.1	4.5	-0.2	-23.7	-	2.1	3.5	0.5	-0.2	
2017 Q1	2.7	0.4	2.4	-6.1	6.1	-26.8	0.8	2.4	14.3	5.7	-6.6	-2.3	0.8	
Q2	1.0	3.6	4.5	29.8	1.6	-1.1	1.5	6.0	5.5	1.9	-1.3	0.8	1.5	
Q3	0.6	-0.9	-3.9	-10.1	2.8	0.7	0.6	-2.7	-3.7	2.0	2.5	1.3	0.6	
Q4	-0.4	2.7	-18.1	-2.6	6.4	-1.6	0.9	-12.3	3.2	3.7	-0.4	2.0	0.9	
2018 Q1	0.3	-2.6	-31.9	-7.9	1.2	-0.1	-0.7	2.4	-4.2	-1.7	-1.0	3.4	-0.7	
Q2	-0.2	1.1	-2.9	17.0	4.0	-1.3	0.8	-11.3	-0.7	3.6	0.6	2.8	0.8	
Q3	-0.9	6.3	-7.6	-7.3	1.5	-	0.7	-12.5	-0.6	1.0	3.4	0.4	0.7	
Q4	-0.1	1.1	1.3	-2.6	0.3	0.1	0.2	3.6	-0.7	0.4	0.9	-1.1	0.2	
2019 Q1	2.0	6.7	3.1	-4.8	1.3	-0.1	2.5	-5.7	-2.3	1.4	7.2	2.0	2.5	
Q2	0.3	-5.5	-1.5	11.3	-0.2	-0.7	-0.9	26.0	-13.8	-0.3	1.6	-0.6	-0.9	
Q3	1.0	-2.1	-1.3	-2.0	1.1	1.8	0.5	-2.1	8.5	1.0	-2.9	1.0	0.5	

Percentage change, latest quarter on corresponding quarter of previous year

	KG75	KH7R	L64G	L64J	L64M	L64P	KG76	KG7B	KG7A	KH87	KH86	KG79	KG76	
2016 Q2	6.7	2.1	9.7	47.3	1.1	6.6	5.1	32.8	11.3	2.1	1.2	3.0	5.1	
Q3	9.5	11.1	3.3	-4.0	4.3	3.0	8.2	79.8	9.5	4.2	2.5	4.3	8.2	
Q4	5.1	9.0	7.9	2.3	5.8	3.2	5.7	-1.4	2.8	6.0	8.9	4.8	5.7	
2017 Q1	6.1	10.6	7.8	7.7	11.0	-31.5	4.6	-11.1	16.9	10.3	2.3	-0.9	4.6	
Q2	5.1	5.2	8.1	-1.4	12.2	-24.9	4.3	-1.6	20.0	11.7	-3.2	-0.7	4.3	
Q3	3.3	0.8	5.2	16.0	13.1	-23.8	2.8	-19.4	16.1	12.1	-2.1	0.4	2.8	
Q4	3.9	5.9	-15.8	6.7	17.9	-28.3	3.9	-7.5	19.9	13.9	-5.8	1.9	3.9	
2018 Q1	1.5	2.8	-44.0	4.8	12.4	-2.2	2.4	-7.4	0.4	5.9	-0.1	7.8	2.4	
Q2	0.2	0.3	-48.0	-5.5	15.2	-2.3	1.7	-22.5	-5.5	7.6	1.7	9.8	1.7	
Q3	-1.2	7.5	-50.0	-2.6	13.7	-3.0	1.7	-30.4	-2.4	6.6	2.6	8.8	1.7	
Q4	-1.0	5.8	-38.1	-2.6	7.2	-1.3	1.0	-17.7	-6.2	3.2	4.0	5.4	1.0	
2019 Q1	0.8	15.8	-6.4	0.6	7.3	-1.3	4.2	-24.2	-4.3	6.5	12.5	4.1	4.2	
Q2	1.3	8.2	-5.0	-4.4	2.9	-0.8	2.5	7.7	-16.9	2.5	13.6	0.6	2.5	
Q3	3.1	-0.3	1.5	1.0	2.5	1.0	2.3	20.6	-9.3	2.4	6.6	1.2	2.3	

1 Not including expenditure on dwellings, land and existing buildings and costs associated with the transfer of ownership of non-produced assets.

2 Remaining investment by public non-financial corporations included within business investment.

3 Includes cultivated biological resources (AN.115) and weapons (AN.114).

4 Includes new dwellings and improvements to dwellings.

5 Including costs associated with the transfer of ownership of buildings, dwellings and non-produced assets.

F2 Gross fixed capital formation by sector and type of asset

Chained volume measures

Reference year 2016, £ million

	Analysis by sector								Analysis by asset					
	Public corporations ²				Private Sector									
	Business investment ¹	General government	Dwellings ⁴	Costs of transfer of ownership of non-produced assets	Dwellings ⁴	Costs of transfer of ownership of non-produced assets	Total	Transport equipment	ICT equipment and other machinery and equipment ³	Dwellings ⁴	Other buildings and structures ⁵	Intellectual Property Products	Total	
	NPEL	DLWF	L634	L635	L636	L637	NPQT	DLWL	DLWO	DFEG	DLWT	EQDO	NPQT	
2015	187 908	51 220	8 260	694	59 020	24 480	331 615	20 137	53 966	67 280	118 409	71 920	331 615	
2016	195 973	52 418	8 362	726	60 903	25 312	343 690	24 623	56 102	69 318	120 017	73 629	343 690	
2017	201 708	54 433	8 250	768	65 719	18 428	349 306	22 332	63 289	73 969	115 956	73 760	349 306	
2018	198 489	55 568	4 370	737	72 188	17 703	349 055	16 574	61 585	76 559	115 070	79 267	349 055	

Seasonally adjusted

2016 Q2	48 954	13 258	2 097	221	15 058	6 088	85 673	5 930	14 264	17 164	29 918	18 409	85 673	
Q3	49 745	13 617	2 048	169	15 227	6 012	86 818	6 961	14 097	17 284	30 010	18 443	86 818	
Q4	48 801	13 308	2 162	179	15 513	6 337	86 301	5 547	13 522	17 682	31 088	18 463	86 301	
2017 Q1	49 910	13 264	2 150	169	16 110	4 733	86 336	5 650	15 365	18 260	29 021	18 040	86 336	
Q2	50 490	13 949	2 217	218	16 025	4 652	87 551	5 950	16 483	18 242	28 579	18 297	87 551	
Q3	50 603	13 517	2 140	193	16 205	4 560	87 218	5 732	15 723	18 345	28 922	18 496	87 218	
Q4	50 705	13 703	1 743	188	17 379	4 483	88 201	5 000	15 718	19 122	29 434	18 927	88 201	
2018 Q1	50 188	13 382	1 145	171	17 982	4 496	87 364	4 816	15 312	19 125	28 610	19 501	87 364	
Q2	49 882	13 400	1 128	201	18 053	4 320	86 984	4 194	15 180	19 181	28 484	19 945	86 984	
Q3	49 463	14 235	1 038	185	18 028	4 447	87 396	3 661	15 524	19 067	29 013	20 131	87 396	
Q4	48 956	14 551	1 059	180	18 125	4 440	87 311	3 903	15 569	19 186	28 963	19 690	87 311	
2019 Q1	49 362	14 747	1 041	170	18 323	4 430	88 073	3 624	14 983	19 364	29 965	20 137	88 073	
Q2	49 174	14 220	1 057	188	18 247	4 352	87 238	4 716	12 730	19 306	30 615	19 871	87 238	
Q3	49 151	13 970	1 028	183	18 303	4 409	87 044	4 230	13 921	19 332	29 538	20 023	87 044	

Percentage change, latest year on previous year

	KG7M	KH92	L64T	L64W	L654	L64Z	KG7N	KH95	KH96	KH8Y	KH97	KH98	KG7N	
2015	7.2	-4.5	-4.4	3.4	3.0	0.5	3.7	19.5	-1.1	2.0	5.7	1.8	3.7	
2016	4.3	2.3	1.2	4.6	3.2	3.4	3.6	22.3	4.0	3.0	1.4	2.4	3.6	
2017	2.9	3.8	-1.3	5.8	7.9	-27.2	1.6	-9.3	12.8	6.7	-3.4	0.2	1.6	
2018	-1.6	2.1	-47.0	-4.0	9.8	-3.9	-0.1	-25.8	-2.7	3.5	-0.8	7.5	-0.1	

Percentage change, latest quarter on previous quarter

	KG7P	KH9C	L64U	L64X	L655	L652	KG7Q	KH9F	KH9G	KH9A	KH9H	KH9I	KG7Q	
2016 Q2	1.0	8.4	2.0	40.8	-0.3	-11.4	0.9	-4.1	0.3	-0.1	3.2	0.5	0.9	
Q3	1.6	2.7	-2.3	-23.5	1.1	-1.2	1.3	17.4	-1.2	0.7	0.3	0.2	1.3	
Q4	-1.9	-2.3	5.6	5.9	1.9	5.4	-0.6	-20.3	-4.1	2.3	3.6	0.1	-0.6	
2017 Q1	2.3	-0.3	-0.6	-5.6	3.8	-25.3	-	1.9	13.6	3.3	-6.6	-2.3	-	
Q2	1.2	5.2	3.1	29.0	-0.5	-1.7	1.4	5.3	7.3	-0.1	-1.5	1.4	1.4	
Q3	0.2	-3.1	-3.5	-11.5	1.1	-2.0	-0.4	-3.7	-4.6	0.6	1.2	1.1	-0.4	
Q4	0.2	1.4	-18.6	-2.6	7.2	-1.7	1.1	-12.8	-	4.2	1.8	2.3	1.1	
2018 Q1	-1.0	-2.3	-34.3	-9.0	3.5	0.3	-0.9	-3.7	-2.6	-	-2.8	3.0	-0.9	
Q2	-0.6	0.1	-1.5	17.5	0.4	-3.9	-0.4	-12.9	-0.9	0.3	-0.4	2.3	-0.4	
Q3	-0.8	6.2	-8.0	-8.0	-0.1	2.9	0.5	-12.7	2.3	-0.6	1.9	0.9	0.5	
Q4	-1.0	2.2	2.0	-2.7	0.5	-0.2	-0.1	6.6	0.3	0.6	-0.2	-2.2	-0.1	
2019 Q1	0.8	1.3	-1.7	-5.6	1.1	-0.2	0.9	-7.1	-3.8	0.9	3.5	2.3	0.9	
Q2	-0.4	-3.6	1.5	10.6	-0.4	-1.8	-0.9	30.1	-15.0	-0.3	2.2	-1.3	-0.9	
Q3	-	-1.8	-2.7	-2.7	0.3	1.3	-0.2	-10.3	9.4	0.1	-3.5	0.8	-0.2	

Percentage change, latest quarter on corresponding quarter of previous year

	KG7S	KH9M	L64V	L64Y	L656	L653	KG7T	KH9P	KH9Q	KH9K	KH9R	KH9S	KG7T	
2016 Q2	4.5	3.0	8.7	45.4	-0.3	-1.2	3.1	31.0	8.6	0.8	-0.7	0.7	3.1	
Q3	6.7	11.4	0.7	-5.1	2.6	-3.5	5.7	76.0	5.9	2.4	0.2	1.7	5.7	
Q4	2.1	10.0	6.8	1.7	3.7	-1.8	3.4	3.4	-5.4	4.1	7.7	2.4	3.4	
2017 Q1	3.0	8.4	4.6	7.6	6.7	-31.2	1.7	-8.6	8.1	6.2	0.1	-1.5	1.7	
Q2	3.1	5.2	5.7	-1.4	6.4	-23.6	2.2	0.3	15.6	6.3	-4.5	-0.6	2.2	
Q3	1.7	-0.7	4.5	14.2	6.4	-24.2	0.5	-17.7	11.5	6.1	-3.6	0.3	0.5	
Q4	3.9	3.0	-19.4	5.0	12.0	-29.3	2.2	-9.9	16.2	8.1	-5.3	2.5	2.2	
2018 Q1	0.6	0.9	-46.7	1.2	11.6	-5.0	1.2	-14.8	-0.3	4.7	-1.4	8.1	1.2	
Q2	-1.2	-3.9	-49.1	-7.8	12.7	-7.1	-0.6	-29.5	-7.9	5.1	-0.3	9.0	-0.6	
Q3	-2.3	5.3	-51.5	-4.1	11.2	-2.5	0.2	-36.1	-1.3	3.9	0.3	8.8	0.2	
Q4	-3.4	6.2	-39.2	-4.3	4.3	-1.0	-1.0	-21.9	-0.9	0.3	-1.6	4.0	-1.0	
2019 Q1	-1.6	10.2	-9.1	-0.6	1.9	-1.5	0.8	-24.8	-2.1	1.2	4.7	3.3	0.8	
Q2	-1.4	6.1	-6.3	-6.5	1.1	0.7	0.3	12.4	-16.1	0.7	7.5	-0.4	0.3	
Q3	-0.6	-1.9	-1.0	-1.1	1.5	-0.9	-0.4	15.5	-10.3	1.4	1.8	-0.5	-0.4	

1 Not including expenditure on dwellings, land and existing buildings and costs associated with the transfer of ownership of non-produced assets.

2 Remaining investment by public non-financial corporations included within business investment.

3 Includes cultivated biological resources (AN.115) and weapons (AN.114)

4 Includes new dwellings and improvements to dwellings.

5 Including costs associated with the transfer of ownership of buildings, dwellings and non-produced assets.

H1 Exports and imports of goods and services

Current market prices

£ million

	Exports			Imports			Balance		
	Goods	Services	Total	Goods	Services	Total	Goods	Services	Total ¹
	BOKG	IKBB	IKBH	BOKH	IKBC	IKBI	BOKI	IKBD	IKBJ
2015	285 960	244 089	530 049	403 657	152 850	556 507	-117 697	91 239	-26 458
2016	297 922	269 577	567 499	432 101	167 721	599 822	-134 179	101 856	-32 323
2017	337 466	291 619	629 085	473 361	180 851	654 212	-135 895	110 768	-25 127
2018	344 811	297 419	642 230	487 190	192 769	679 959	-142 379	104 650	-37 729
Seasonally adjusted									
2016 Q2	74 108	65 444	139 552	104 611	40 547	145 158	-30 503	24 897	-5 606
Q3	73 570	67 690	141 260	112 322	42 724	155 046	-38 752	24 966	-13 786
Q4	80 753	72 094	152 847	113 736	44 802	158 538	-32 983	27 292	-5 691
2017 Q1	82 138	71 279	153 417	116 161	44 684	160 845	-34 023	26 595	-7 428
Q2	84 864	72 791	157 655	118 181	45 292	163 473	-33 317	27 499	-5 818
Q3	84 557	74 467	159 024	119 272	45 684	164 956	-34 715	28 783	-5 932
Q4	85 907	73 082	158 989	119 747	45 191	164 938	-33 840	27 891	-5 949
2018 Q1	84 800	72 907	157 707	117 567	45 926	163 493	-32 767	26 981	-5 786
Q2	83 812	72 811	156 623	120 573	48 094	168 667	-36 761	24 717	-12 044
Q3	87 821	74 485	162 306	123 317	47 890	171 207	-35 496	26 595	-8 901
Q4	88 378	77 216	165 594	125 733	50 859	176 592	-37 355	26 357	-10 998
2019 Q1	90 070	76 710	166 780	138 145	51 384	189 529	-48 075	25 326	-22 749
Q2	85 430	71 456	156 886	119 558	48 722	168 280	-34 128	22 734	-11 394
Q3	89 737	75 961	165 698	122 901	49 207	172 108	-33 164	26 754	-6 410
Percentage change, latest year on previous year									
	KG9K	KH35	KH2O	KG9L	KH3W	KH3H			
2015	-2.1	2.3	-0.1	-2.3	6.5	-			
2016	4.2	10.4	7.1	7.0	9.7	7.8			
2017	13.3	8.2	10.9	9.5	7.8	9.1			
2018	2.2	2.0	2.1	2.9	6.6	3.9			
Percentage change, latest quarter on previous quarter									
	KG9O	KH36	KH2P	KG9P	KH3X	KH3I			
2016 Q2	6.6	1.7	4.3	3.1	2.3	2.9			
Q3	-0.7	3.4	1.2	7.4	5.4	6.8			
Q4	9.8	6.5	8.2	1.3	4.9	2.3			
2017 Q1	1.7	-1.1	0.4	2.1	-0.3	1.5			
Q2	3.3	2.1	2.8	1.7	1.4	1.6			
Q3	-0.4	2.3	0.9	0.9	0.9	0.9			
Q4	1.6	-1.9	-	0.4	-1.1	-			
2018 Q1	-1.3	-0.2	-0.8	-1.8	1.6	-0.9			
Q2	-1.2	-0.1	-0.7	2.6	4.7	3.2			
Q3	4.8	2.3	3.6	2.3	-0.4	1.5			
Q4	0.6	3.7	2.0	2.0	6.2	3.1			
2019 Q1	1.9	-0.7	0.7	9.9	1.0	7.3			
Q2	-5.2	-6.8	-5.9	-13.5	-5.2	-11.2			
Q3	5.0	6.3	5.6	2.8	1.0	2.3			
Percentage change, latest quarter on corresponding quarter of previous year									
	KG9S	KH37	KH2Q	KG9T	KH3Y	KH3J			
2016 Q2	-0.3	7.7	3.3	4.0	6.1	4.6			
Q3	4.8	14.5	9.2	14.4	12.4	13.8			
Q4	14.7	13.5	14.1	13.5	14.4	13.7			
2017 Q1	18.2	10.8	14.6	14.5	12.7	14.0			
Q2	14.5	11.2	13.0	13.0	11.7	12.6			
Q3	14.9	10.0	12.6	6.2	6.9	6.4			
Q4	6.4	1.4	4.0	5.3	0.9	4.0			
2018 Q1	3.2	2.3	2.8	1.2	2.8	1.6			
Q2	-1.2	-	-0.7	2.0	6.2	3.2			
Q3	3.9	-	2.1	3.4	4.8	3.8			
Q4	2.9	5.7	4.2	5.0	12.5	7.1			
2019 Q1	6.2	5.2	5.8	17.5	11.9	15.9			
Q2	1.9	-1.9	0.2	-0.8	1.3	-0.2			
Q3	2.2	2.0	2.1	-0.3	2.8	0.5			

¹ Trade balance is calculated by using exports of goods and services minus imports of goods and services

H2 Exports and imports of goods and services

Chained volume measures

Reference year 2016, £ million

	Exports			Imports			Balance
	Goods	Services	Total	Goods	Services	Total	Total ¹
	BQKQ	IKBE	IKBK	BQKO	IKBF	IKBL	IKBM
2015	301 409	251 247	552 388	412 975	161 631	574 575	-22 187
2016	297 922	269 577	567 499	432 101	167 721	599 822	-32 323
2017	316 737	285 386	602 123	444 634	176 204	620 838	-18 715
2018	311 914	285 009	596 923	443 329	181 943	625 272	-28 349
Seasonally adjusted							
2016 Q2	75 454	66 720	142 154	106 382	41 324	147 688	-5 534
Q3	72 200	66 322	138 543	110 408	41 641	152 072	-13 529
Q4	76 097	70 876	147 009	109 733	43 747	153 493	-6 484
2017 Q1	76 982	70 674	147 656	109 435	43 039	152 474	-4 818
Q2	80 051	71 139	151 190	111 732	44 230	155 962	-4 772
Q3	79 982	72 789	152 771	112 254	44 721	156 975	-4 204
Q4	79 722	70 784	150 506	111 213	44 214	155 427	-4 921
2018 Q1	79 303	70 135	149 438	109 777	44 232	154 009	-4 571
Q2	75 607	69 993	145 600	110 248	44 419	154 667	-9 067
Q3	78 832	71 758	150 590	110 944	45 183	156 127	-5 537
Q4	78 172	73 123	151 295	112 360	48 109	160 469	-9 174
2019 Q1	81 177	72 483	153 660	128 221	48 732	176 953	-23 293
Q2	75 723	67 818	143 541	108 378	45 616	153 994	-10 453
Q3	79 515	71 423	150 938	108 602	46 647	155 249	-4 311
Percentage change, latest year on previous year							
	KG9X	KH3B	KH2U	KG9W	KH44	KH3N	
2015	5.4	1.8	3.8	4.1	9.1	5.4	
2016	-1.2	7.3	2.7	4.6	3.8	4.4	
2017	6.3	5.9	6.1	2.9	5.1	3.5	
2018	-1.5	-0.1	-0.9	-0.3	3.3	0.7	
Percentage change, latest quarter on previous quarter							
	KGA2	KH3C	KH2V	KG9Z	KH45	KH3O	
2016 Q2	1.7	1.6	1.7	0.8	0.8	0.8	
Q3	-4.3	-0.6	-2.5	3.8	0.8	3.0	
Q4	5.4	6.9	6.1	-0.6	5.1	0.9	
2017 Q1	1.2	-0.3	0.4	-0.3	-1.6	-0.7	
Q2	4.0	0.7	2.4	2.1	2.8	2.3	
Q3	-0.1	2.3	1.0	0.5	1.1	0.6	
Q4	-0.3	-2.8	-1.5	-0.9	-1.1	-1.0	
2018 Q1	-0.5	-0.9	-0.7	-1.3	-	-0.9	
Q2	-4.7	-0.2	-2.6	0.4	0.4	0.4	
Q3	4.3	2.5	3.4	0.6	1.7	0.9	
Q4	-0.8	1.9	0.5	1.3	6.5	2.8	
2019 Q1	3.8	-0.9	1.6	14.1	1.3	10.3	
Q2	-6.7	-6.4	-6.6	-15.5	-6.4	-13.0	
Q3	5.0	5.3	5.2	0.2	2.3	0.8	
Percentage change, latest quarter on corresponding quarter of previous year							
	KGA5	KH3D	KH2W	KGA4	KH46	KH3P	
2016 Q2	-2.0	8.3	2.5	4.8	1.6	3.9	
Q3	-4.2	7.5	1.1	9.0	2.9	7.3	
Q4	1.4	9.8	5.3	4.9	6.1	5.2	
2017 Q1	3.8	7.6	5.6	3.7	5.0	4.0	
Q2	6.1	6.6	6.4	5.0	7.0	5.6	
Q3	10.8	9.8	10.3	1.7	7.4	3.2	
Q4	4.8	-0.1	2.4	1.3	1.1	1.3	
2018 Q1	3.0	-0.8	1.2	0.3	2.8	1.0	
Q2	-5.6	-1.6	-3.7	-1.3	0.4	-0.8	
Q3	-1.4	-1.4	-1.4	-1.2	1.0	-0.5	
Q4	-1.9	3.3	0.5	1.0	8.8	3.2	
2019 Q1	2.4	3.3	2.8	16.8	10.2	14.9	
Q2	0.2	-3.1	-1.4	-1.7	2.7	-0.4	
Q3	0.9	-0.5	0.2	-2.1	3.2	-0.6	

¹ Trade balance is calculated by using exports of goods and services minus imports of goods and services

Gross value added at basic prices: individual measures

	£ million				Index numbers (2016 = 100) ³				
	Expenditure-based estimate at chained volume measures	At current prices			Value indices at current prices		Chained volume indices		
		Expenditure-based estimate	Income-based estimate	Residual error ¹	Expenditure-based estimate	Income-based estimate	Expenditure-based estimate	Income-based estimate ²	Output-based estimate
	CAGR	CAGQ	CAGS	DJDS	IHYA	IHYB	IHYC	IHYD	YBFR
2015	1 744 182	1 709 325	1 709 325	–	96.1	96.1	98.1	98.1	98.1
2016	1 778 133	1 778 133	1 778 134	–1	100.0	100.0	100.0	100.0	100.0
2017	1 813 229	1 846 693	1 846 694	–1	103.9	103.9	102.0	102.0	102.0
2018	1 828 090	1 898 281	1 913 254	–14 973	106.8	107.6	102.8	103.6	103.7
Seasonally adjusted									
2016 Q2	443 035	443 490	443 490	–	99.8	99.8	99.7	99.7	99.7
Q3	445 449	446 573	446 574	–1	100.5	100.5	100.2	100.2	100.2
Q4	448 704	452 082	452 082	–	101.7	101.7	100.9	100.9	100.9
2017 Q1	451 405	457 806	457 668	138	103.0	103.0	101.5	101.5	101.5
Q2	452 532	460 056	459 891	165	103.5	103.5	101.8	101.8	101.8
Q3	453 971	461 067	460 954	113	103.7	103.7	102.1	102.1	102.1
Q4	455 321	467 764	468 181	–417	105.2	105.3	102.4	102.5	102.6
2018 Q1	454 813	470 652	471 990	–1 338	105.9	106.2	102.3	102.6	102.8
Q2	456 315	471 430	474 152	–2 722	106.1	106.7	102.7	103.2	103.4
Q3	458 198	477 470	482 014	–4 544	107.4	108.4	103.1	104.1	104.1
Q4	458 764	478 729	485 098	–6 369	107.7	109.1	103.2	104.6	104.4
2019 Q1	461 385	484 823	491 490	–6 667	109.1	110.6	103.8	105.2	105.0
Q2	460 289	488 383	495 170	–6 787	109.9	111.4	103.5	105.0	104.8
Q3	461 612	490 925	497 551	–6 626	110.4	111.9	103.8	105.2	105.1
Percentage change, latest year on previous year									
	KH4D	KH47	KH68		KH47	KH68	KH4D	KH6E	GDPQ
2015	2.2	3.0	3.0		3.0	3.0	2.2	2.2	2.2
2016	1.9	4.0	4.0		4.0	4.0	1.9	1.9	1.9
2017	2.0	3.9	3.9		3.9	3.9	2.0	2.0	2.0
2018	0.8	2.8	3.6		2.8	3.6	0.8	1.6	1.6
Percentage change, latest quarter on previous quarter									
	KH4F	KH49	KH6A		KH49	KH6A	KH4F	KH6G	
2016 Q2	0.5	1.7	1.7		1.7	1.7	0.5	0.5	0.5
Q3	0.5	0.7	0.7		0.7	0.7	0.5	0.5	0.5
Q4	0.7	1.2	1.2		1.2	1.2	0.7	0.7	0.7
2017 Q1	0.6	1.3	1.2		1.3	1.2	0.6	0.6	0.6
Q2	0.2	0.5	0.5		0.5	0.5	0.2	0.2	0.3
Q3	0.3	0.2	0.2		0.2	0.2	0.3	0.3	0.4
Q4	0.3	1.5	1.6		1.5	1.6	0.3	0.4	0.5
2018 Q1	–0.1	0.6	0.8		0.6	0.8	–0.1	0.1	0.2
Q2	0.3	0.2	0.5		0.2	0.5	0.3	0.6	0.6
Q3	0.4	1.3	1.7		1.3	1.7	0.4	0.8	0.7
Q4	0.1	0.3	0.6		0.3	0.6	0.1	0.5	0.3
2019 Q1	0.6	1.3	1.3		1.3	1.3	0.6	0.6	0.6
Q2	–0.2	0.7	0.7		0.7	0.7	–0.2	–0.2	–0.2
Q3	0.3	0.5	0.5		0.5	0.5	0.3	0.2	0.3
Percentage change, latest quarter on corresponding quarter of previous year									
	KH4H	KH4B	KH6C		KH4B	KH6C	KH4H	KH6I	GDPR
2016 Q2	1.8	3.7	3.7		3.7	3.7	1.8	1.8	1.8
Q3	2.0	4.1	4.1		4.1	4.1	2.0	2.0	2.0
Q4	2.0	4.8	4.8		4.8	4.8	2.0	2.0	2.0
2017 Q1	2.4	5.0	5.0		5.0	5.0	2.4	2.3	2.3
Q2	2.1	3.7	3.7		3.7	3.7	2.1	2.1	2.1
Q3	1.9	3.2	3.2		3.2	3.2	1.9	1.9	1.9
Q4	1.5	3.5	3.6		3.5	3.6	1.5	1.6	1.7
2018 Q1	0.8	2.8	3.1		2.8	3.1	0.8	1.1	1.3
Q2	0.8	2.5	3.1		2.5	3.1	0.8	1.5	1.6
Q3	0.9	3.6	4.6		3.6	4.6	0.9	1.9	1.9
Q4	0.8	2.3	3.6		2.3	3.6	0.8	2.0	1.8
2019 Q1	1.4	3.0	4.1		3.0	4.1	1.4	2.5	2.2
Q2	0.9	3.6	4.4		3.6	4.4	0.9	1.7	1.3
Q3	0.7	2.8	3.2		2.8	3.2	0.7	1.1	1.0

1 The residual error is, by convention, the amount by which the expenditure-based approach to measuring GDP exceeds the income-based estimate. It is also the sum of two components: the statistical discrepancy (expenditure) with sign reversed, and the statistical discrepancy (income) with natural sign.

2 Income data deflated by the implied GDP deflator, based on expenditure data.
3 The growth rates of index numbers are calculated using unrounded data.

M Alignment adjustments ¹

£ million

	Changes in inventories		Gross operating surplus of non-financial corporations at current prices
	At current prices	Chained volume measures (Reference year 2016)	
Seasonally adjusted			
	DMUN	DMUM	DMUQ
2016 Q2	−954	−961	−799
Q3	1 861	1 852	−1 791
Q4	−1 984	−1 972	1 827
2017 Q1	1 863	1 833	126
Q2	−1 967	−1 937	−241
Q3	−349	−342	44
Q4	453	446	71
2018 Q1	−2 600	−2 516	1 220
Q2	1 841	1 781	−1 155
Q3	−22	−17	1 838
Q4	781	752	−1 903
2019 Q1	−1 766	−1 679	−101
Q2	2 131	2 012	1 552
Q3	−769	−723	424

¹ Estimates are given to the nearest £ million but cannot be regarded as accurate to this degree

Selected financial year variables ^{1,2}

£ millions except deflator index which is 2018/2019 = 100

	Current prices					Chained Volume Measures (reference year 2016)				
	Gross domestic product at market prices	Gross domestic product at market prices non seasonally adjusted	Gross value added at basic prices	General government final consumption expenditure	General government gross fixed capital formation	Gross domestic product at market prices	Gross value added at basic prices	General government final consumption expenditure	General government gross fixed capital formation	Implied GDP deflator at market prices ^{3 4}
	YBHA	BKTL	ABML	NMRP	RPZG	ABMI	ABMM	NMRY	DLWF	L8GG
2015/16	1 934 489	1 934 600	1 723 821	375 641	49 666	1 967 966	1 752 769	380 173	49 428	94.2774
2016/17	2 019 115	2 019 484	1 799 847	383 393	53 708	2 006 495	1 788 490	381 572	53 447	96.5095
2017/18	2 085 972	2 086 378	1 861 013	388 320	55 660	2 038 551	1 818 064	382 766	54 551	98.1390
2018/19	2 160 399	2 162 822	1 925 740	400 053	59 753	2 071 981	1 847 392	387 665	56 933	100.0000
Seasonally adjusted										
2016 Q2	497 571	496 920	443 490	95 240	13 225	497 593	443 035	95 290	13 258	95.9056
Q3	500 711	495 160	446 574	95 635	13 679	499 836	445 450	95 386	13 617	96.0777
Q4	507 375	511 554	452 082	96 021	13 375	503 083	448 704	95 477	13 308	96.7281
2017 Q1	513 458	515 850	457 701	96 497	13 429	505 983	451 301	95 419	13 264	97.3267
Q2	515 534	512 093	459 955	95 869	13 910	507 255	452 432	95 460	13 949	97.4752
Q3	517 788	513 359	461 056	96 670	13 790	508 982	453 960	95 724	13 517	97.5692
Q4	524 887	530 365	468 191	97 631	14 161	511 014	455 736	95 905	13 703	98.5136
2018 Q1	527 763	530 561	471 811	98 150	13 799	511 300	455 936	95 677	13 382	98.9980
Q2	532 388	528 445	473 490	98 172	13 952	514 017	458 304	95 646	13 400	99.3377
Q3	538 756	533 442	480 551	99 029	14 829	517 221	461 156	96 040	14 235	99.9032
Q4	541 371	547 830	482 756	100 636	14 986	518 870	462 623	97 592	14 551	100.0690
2019 Q1	547 884	553 105	488 943	102 216	15 986	521 873	465 309	98 387	14 747	100.6902
Q2	551 898	544 189	492 621	104 441	15 100	520 735	464 287	99 449	14 220	101.6495
Q3	554 929	550 288	495 179	106 018	14 778	522 247	465 615	99 745	13 970	101.9118
Percentage change, latest financial year on previous financial year										
2015/16	3.2	3.4	3.1	1.5	-2.5	2.3	2.1	2.2	-6.5	0.9
2016/17	4.4	4.4	4.4	2.1	8.1	2.0	2.0	0.4	8.1	2.4
2017/18	3.3	3.3	3.4	1.3	3.6	1.6	1.7	0.3	2.1	1.7
2018/19	3.6	3.7	3.5	3.0	7.4	1.6	1.6	1.3	4.4	1.9
Percentage change, latest quarter on previous quarter										
	IHYN	A8L9	KGL8	KH2D	KH7P	IHYQ	KGM9	KH2J	KH9C	L8GH
2016 Q2	1.6	1.0	1.7	0.6	8.9	0.5	0.5	-0.1	8.4	1.0
Q3	0.6	-0.4	0.7	0.4	3.4	0.5	0.5	0.1	2.7	0.2
Q4	1.3	3.3	1.2	0.4	-2.2	0.6	0.7	0.1	-2.3	0.7
2017 Q1	1.2	0.8	1.2	0.5	0.4	0.6	0.6	-0.1	-0.3	0.6
Q2	0.4	-0.7	0.5	-0.7	3.6	0.3	0.3	-	5.2	0.2
Q3	0.4	0.2	0.2	0.8	-0.9	0.3	0.3	0.3	-3.1	0.1
Q4	1.4	3.3	1.5	1.0	2.7	0.4	0.4	0.2	1.4	1.0
2018 Q1	0.5	-	0.8	0.5	-2.6	0.1	-	-0.2	-2.3	0.5
Q2	0.9	-0.4	0.4	-	1.1	0.5	0.5	-	0.1	0.3
Q3	1.2	0.9	1.5	0.9	6.3	0.6	0.6	0.4	6.2	0.6
Q4	0.5	2.7	0.5	1.6	1.1	0.3	0.3	1.6	2.2	0.2
2019 Q1	1.2	1.0	1.3	1.6	6.7	0.6	0.6	0.8	1.3	0.6
Q2	0.7	-1.6	0.8	2.2	-5.5	-0.2	-0.2	1.1	-3.6	1.0
Q3	0.5	1.1	0.5	1.5	-2.1	0.3	0.3	0.3	-1.8	0.3
Percentage change, latest quarter on corresponding quarter of previous year										
	IHYO	A8LA	KGM2	KH2E	KH7R	IHYR	KGN3	KH2K	KH9M	L8GI
2016 Q2	3.8	4.7	3.7	2.3	2.1	1.9	1.8	0.8	3.0	1.9
Q3	4.1	3.9	4.1	1.3	11.1	1.9	2.0	0.2	11.4	2.1
Q4	4.8	4.1	4.8	2.7	9.0	1.8	2.0	0.5	10.0	3.0
2017 Q1	4.8	4.9	5.0	2.0	10.6	2.2	2.3	0.1	8.4	2.5
Q2	3.6	3.1	3.7	0.7	5.2	1.9	2.1	0.2	5.2	1.6
Q3	3.4	3.7	3.2	1.1	0.8	1.8	1.9	0.4	-0.7	1.6
Q4	3.5	3.7	3.6	1.7	5.9	1.6	1.6	0.4	3.0	1.8
2018 Q1	2.8	2.9	3.1	1.7	2.8	1.1	1.0	0.3	0.9	1.7
Q2	3.3	3.2	2.9	2.4	0.3	1.3	1.3	0.2	-3.9	1.9
Q3	4.0	3.9	4.2	2.4	7.5	1.6	1.6	0.3	5.3	2.4
Q4	3.1	3.3	3.1	3.1	5.8	1.5	1.5	1.8	6.2	1.6
2019 Q1	3.8	4.2	3.6	4.1	15.8	2.1	2.1	2.8	10.2	1.7
Q2	3.7	3.0	4.0	6.4	8.2	1.3	1.3	4.0	6.1	2.3
Q3	3.0	3.2	3.0	7.1	-0.3	1.0	1.0	3.9	-1.9	2.0

1 Financial year £ millions estimates are the sum of the 4 quarters which make up that financial year.

2 All data are seasonally adjusted unless otherwise specified.

3 Implied deflator is expressed in terms of 2018/2019 = 100 for presentational purposes, whereas in table A1 it is expressed as 2016 = 100.

4 Implied deflator is displayed with 4 decimal places to replace a GDP deflator in index form series previously calculated by HM Treasury. Data are only considered accurate to 1 decimal place.

O Selected implied deflators¹

2018 = 100

	Implied deflators ²		
	Gross national expenditure	Gross domestic product at market prices ³	Gross value added at basic prices
	MNE2	MNF2	MNX5
2015	94.1654	94.2980	94.3777
2016	95.9458	96.3135	96.2997
2017	98.0452	98.1363	98.0797
2018	100.0000	100.0000	100.0000
Seasonally adjusted			
2016 Q2	95.9531	96.3130	96.4025
Q3	96.1803	96.4859	96.5466
Q4	96.5950	97.1390	97.0286
2017 Q1	97.8438	97.7402	97.6693
Q2	97.6969	97.8893	97.9049
Q3	97.9191	97.9837	97.8090
Q4	98.7208	98.9321	98.9355
2018 Q1	99.2381	99.4186	99.6568
Q2	99.8674	99.7597	99.4947
Q3	100.5230	100.3276	100.3539
Q4	100.3715	100.4941	100.4947
2019 Q1	100.4296	101.1179	101.1951
Q2	101.7489	102.0814	102.1807
Q3	102.2899	102.3448	102.4184
Percentage change, latest year on previous year			
	MNE3	MNF3	MNX6
2015	0.1	0.6	0.8
2016	1.9	2.1	2.0
2017	2.2	1.9	1.8
2018	2.0	1.9	2.0
Percentage change, latest quarter on previous quarter			
	MNE4	MNF4	MNX7
2016 Q2	0.9	1.0	1.2
Q3	0.2	0.2	0.1
Q4	0.4	0.7	0.5
2017 Q1	1.3	0.6	0.7
Q2	-0.2	0.2	0.2
Q3	0.2	0.1	-0.1
Q4	0.8	1.0	1.2
2018 Q1	0.5	0.5	0.7
Q2	0.6	0.3	-0.2
Q3	0.7	0.6	0.9
Q4	-0.2	0.2	0.1
2019 Q1	0.1	0.6	0.7
Q2	1.3	1.0	1.0
Q3	0.5	0.3	0.2
Percentage change, latest quarter on corresponding quarter of previous year			
	MNE5	MNF5	MNX8
2016 Q2	1.8	1.9	1.9
Q3	1.7	2.1	2.1
Q4	2.9	3.0	2.7
2017 Q1	2.9	2.5	2.6
Q2	1.8	1.6	1.6
Q3	1.8	1.6	1.3
Q4	2.2	1.8	2.0
2018 Q1	1.4	1.7	2.0
Q2	2.2	1.9	1.6
Q3	2.7	2.4	2.6
Q4	1.7	1.6	1.6
2019 Q1	1.2	1.7	1.5
Q2	1.9	2.3	2.7
Q3	1.8	2.0	2.1

1 Implied deflator is expressed in terms of 2018 = 100, whereas in table A1 it is expressed as 2016 = 100.

2 Data are only considered accurate to 1 decimal place.

3 Implied deflator is displayed with 4 decimal places to replace a GDP deflator in index form series previously calculated by HM Treasury.

P GDP Per Head¹

£

	UK resident population mid-year estimates (persons thousands) ²	Current Prices		Chained volume measures (Reference year 2016)	
		Gross domestic product at market prices ³	Gross domestic product per head	Gross domestic product at market prices ³	Gross domestic product per head
	EBAQ	YBHA	IHXT	ABMI	IHXW
2015	65 110	1 916 896	29 441	1 957 920	30 071
2016	65 648	1 995 478	30 397	1 995 478	30 397
2017	66 040	2 071 667	31 370	2 033 234	30 788
2018	66 436	2 140 278	32 216	2 061 408	31 028
Seasonally adjusted					
2016 Q2	65 648	497 571	7 579	497 593	7 580
Q3	65 746	500 711	7 616	499 836	7 603
Q4	65 844	507 375	7 706	503 083	7 641
2017 Q1	65 942	513 458	7 787	505 983	7 673
Q2	66 040	515 534	7 806	507 255	7 681
Q3	66 139	517 788	7 829	508 982	7 696
Q4	66 238	524 887	7 924	511 014	7 715
2018 Q1	66 337	527 763	7 956	511 300	7 708
Q2	66 436	532 388	8 014	514 017	7 737
Q3	66 535	538 756	8 096	517 221	7 773
Q4	66 634	541 371	8 122	518 870	7 785
2019 Q1	66 734	547 884	8 207	521 873	7 817
Q2	66 833	551 898	8 254	520 735	7 788
Q3	66 924	554 929	8 292	522 247	7 804
Percentage change, latest year on previous year					
		IHYM	N3Y3	IHYP	N3Y6
2015		3.0	2.1	2.4	1.6
2016		4.1	3.2	1.9	1.1
2017		3.8	3.2	1.9	1.3
2018		3.3	2.7	1.4	0.8
Percentage change, latest quarter on previous quarter					
		IHYN	N3Y4	IHYQ	N3Y7
2016 Q2		1.6	1.4	0.5	0.3
Q3		0.6	0.5	0.5	0.3
Q4		1.3	1.2	0.6	0.5
2017 Q1		1.2	1.1	0.6	0.4
Q2		0.4	0.2	0.3	0.1
Q3		0.4	0.3	0.3	0.2
Q4		1.4	1.2	0.4	0.2
2018 Q1		0.5	0.4	0.1	-0.1
Q2		0.9	0.7	0.5	0.4
Q3		1.2	1.0	0.6	0.5
Q4		0.5	0.3	0.3	0.2
2019 Q1		1.2	1.0	0.6	0.4
Q2		0.7	0.6	-0.2	-0.4
Q3		0.5	0.5	0.3	0.2
Percentage change, latest quarter on corresponding quarter of previous year					
		IHYO	N3Y5	IHYR	N3Y8
2016 Q2		3.8	2.9	1.9	1.1
Q3		4.1	3.3	1.9	1.1
Q4		4.8	4.1	1.8	1.1
2017 Q1		4.8	4.1	2.2	1.6
Q2		3.6	3.0	1.9	1.3
Q3		3.4	2.8	1.8	1.2
Q4		3.5	2.8	1.6	1.0
2018 Q1		2.8	2.2	1.1	0.5
Q2		3.3	2.7	1.3	0.7
Q3		4.0	3.4	1.6	1.0
Q4		3.1	2.5	1.5	0.9
2019 Q1		3.8	3.2	2.1	1.4
Q2		3.7	3.0	1.3	0.7
Q3		3.0	2.4	1.0	0.4

1 This data uses the latest population estimates with the exception of the latest year where populations projections are used. The quarterly data in this table does not sum to annuals (excluding GDP at market prices)

2 The UK resident population mid-year estimates used in this publication are published on 26 June 2019

3 GDP is presented in £ million; also published in table A2

AA Annex A - Growth and contributions to growth - output components of GDP^{1,2}

Chained Volume Measures

Seasonally adjusted data

Reference year 2016

	Agri- culture, forestry, and fishing	Total Production	Mining & quarrying inc oil & gas extract	Manu- facturing	Electric, gas, steam & air	Water supply, sewerage	Constr uction	Total Services	Distri- bution, hotels & restaurants	Transport storage and commu- nications	Business services and finance	Govern- ment and other services
Percentage change, latest year on previous year												
Growth	L3BB	L3BG	L3BH	L3BN	L3DM	L3DQ	L3DW	L3E2	L3GP	KI8L	KI8N	KI8P
2016	-5.5	1.1	-2.0	0.2	3.7	7.1	3.9	2.0	3.7	2.8	2.7	-0.5
2017	5.7	1.7	1.7	2.2	-1.8	2.0	6.4	1.7	2.4	3.6	1.0	1.2
2018	-4.0	0.1	4.8	0.4	-1.9	-1.8	-0.4	2.1	2.8	3.2	2.1	1.1
Contributions to growth	ZZ3V	ZZ3W	ZZ3Y	ZZ3X	ZZ3Z	ZZ42	ZZ43	ZZ44	ZZ45	ZZ46	ZZ47	ZZ48
2016	-0.04	0.16	-0.02	0.02	0.06	0.09	0.24	1.58	0.49	0.29	0.90	-0.10
2017	0.04	0.24	0.01	0.23	-0.03	0.03	0.39	1.32	0.32	0.39	0.35	0.26
2018	-0.03	0.02	0.04	0.04	-0.03	-0.02	-0.02	1.70	0.38	0.36	0.72	0.24
Percentage change, latest quarter on previous quarter												
Growth	L3BB	L3BG	L3BH	L3BN	L3DM	L3DQ	L3DW	L3E2	L3GP	KI8L	KI8N	KI8P
2017 Q1	4.7	0.7	3.0	0.9	-4.1	3.0	4.2	0.2	0.2	0.2	-0.3	0.9
Q2	0.1	-0.4	1.0	-0.1	0.9	-4.0	0.3	0.4	0.5	1.6	-0.2	0.5
Q3	0.6	0.9	1.3	0.9	0.3	1.0	0.1	0.3	0.4	0.6	0.5	-0.2
Q4	-1.0	1.1	-2.6	1.5	-0.2	0.6	0.7	0.4	0.2	1.0	0.5	-0.2
2018 Q1	-3.0	-0.5	0.8	-0.7	1.2	-2.3	-2.2	0.5	0.2	-0.8	1.0	0.7
Q2	-0.9	-0.7	5.0	-0.6	-5.1	0.3	0.7	0.8	1.9	1.6	0.5	0.3
Q3	-0.3	0.5	3.4	0.1	1.2	1.6	1.2	0.6	1.1	1.8	0.2	0.4
Q4	0.8	-0.7	-1.7	-0.6	-0.2	-1.7	0.2	0.5	0.7	1.3	0.3	0.3
2019 Q1	-1.4	1.1	-0.9	2.0	-2.8	-0.6	1.6	0.4	0.9	1.5	-0.3	0.6
Q2	-0.4	-1.8	-1.1	-2.8	2.8	1.2	-1.2	0.1	-	0.6	-	0.2
Q3	-0.2	-	-1.7	-	-0.7	1.2	0.6	0.4	0.1	0.6	0.3	0.4
Contributions to growth	ZZ2F	ZZ2G	ZZ2I	ZZ2H	ZZ2J	ZZ2K	ZZ2L	ZZ2M	ZZ2N	ZZ2O	ZZ2P	ZZ2Q
2017 Q1	0.03	0.09	0.02	0.10	-0.06	0.04	0.26	0.16	0.03	0.03	-0.09	0.20
Q2	-	-0.05	0.01	-0.01	0.01	-0.05	0.02	0.28	0.06	0.18	-0.06	0.10
Q3	-	0.12	0.01	0.10	-	0.01	0.01	0.24	0.05	0.06	0.17	-0.05
Q4	-0.01	0.14	-0.02	0.16	-	0.01	0.05	0.28	0.02	0.12	0.18	-0.04
2018 Q1	-0.02	-0.07	0.01	-0.07	0.02	-0.03	-0.14	0.42	0.03	-0.08	0.32	0.15
Q2	-0.01	-0.10	0.04	-0.06	-0.07	-	0.04	0.67	0.25	0.18	0.16	0.08
Q3	-	0.07	0.03	0.01	0.02	0.02	0.07	0.52	0.15	0.21	0.08	0.08
Q4	0.01	-0.10	-0.01	-0.06	-	-0.02	0.01	0.42	0.09	0.15	0.11	0.07
2019 Q1	-0.01	0.15	-0.01	0.19	-0.04	-0.01	0.10	0.32	0.12	0.17	-0.10	0.12
Q2	-	-0.24	-0.01	-0.28	0.04	0.02	-0.07	0.12	-	0.07	-	0.04
Q3	-	-0.01	-0.02	-	-0.01	0.01	0.04	0.29	0.02	0.06	0.11	0.10
Percentage change, latest quarter on corresponding quarter of previous year												
Growth	L3ZZ	L426	L427	L42D	L44C	L44G	L44M	L44Q	L47F	KII2	KIH9	KIH8
2017 Q1	4.9	2.5	1.7	2.4	0.3	6.2	8.0	1.8	2.9	3.1	1.7	0.8
Q2	6.6	0.2	2.8	0.6	-3.7	0.2	6.5	2.1	2.8	4.6	1.3	1.6
Q3	7.1	2.0	-0.4	2.6	-0.4	1.2	5.9	1.5	2.9	3.2	0.6	1.4
Q4	4.4	2.3	2.7	3.3	-3.1	0.5	5.4	1.2	1.3	3.5	0.6	1.0
2018 Q1	-3.3	1.1	0.5	1.7	2.3	-4.7	-1.1	1.5	1.3	2.5	1.8	0.8
Q2	-4.3	0.7	4.5	1.2	-3.8	-0.4	-0.6	2.0	2.7	2.5	2.5	0.6
Q3	-5.1	0.3	6.7	0.4	-3.0	0.2	0.4	2.4	3.4	3.8	2.2	1.2
Q4	-3.5	-1.5	7.6	-1.7	-3.0	-2.1	-0.2	2.6	4.0	4.1	2.0	1.7
2019 Q1	-1.9	0.2	5.8	0.9	-6.9	-0.4	3.7	2.4	4.7	6.5	0.8	1.6
Q2	-1.4	-0.9	-0.3	-1.3	0.9	0.5	1.8	1.7	2.7	5.4	0.3	1.4
Q3	-1.3	-1.4	-5.3	-1.4	-1.0	0.1	1.2	1.4	1.7	4.1	0.4	1.5
Contributions to growth	ZZ36	ZZ37	ZZ39	ZZ38	ZZ3A	ZZ3B	ZZ3C	ZZ3D	ZZ3E	ZZ3F	ZZ3G	ZZ3H
2017 Q1	0.03	0.35	0.01	0.25	-	0.08	0.48	1.45	0.38	0.33	0.56	0.17
Q2	0.04	0.02	0.02	0.06	-0.06	-	0.40	1.63	0.37	0.49	0.43	0.35
Q3	0.05	0.27	-	0.26	-0.01	0.02	0.36	1.23	0.38	0.35	0.21	0.30
Q4	0.03	0.31	0.02	0.33	-0.05	0.01	0.33	0.97	0.17	0.38	0.20	0.22
2018 Q1	-0.02	0.14	-	0.17	0.03	-0.06	-0.07	1.23	0.17	0.27	0.62	0.17
Q2	-0.03	0.09	0.03	0.12	-0.05	-0.01	-0.04	1.62	0.36	0.28	0.84	0.14
Q3	-0.04	0.04	0.05	0.04	-0.04	-	0.02	1.90	0.46	0.42	0.75	0.27
Q4	-0.03	-0.20	0.06	-0.17	-0.04	-0.03	-0.01	2.03	0.53	0.45	0.68	0.37
2019 Q1	-0.01	0.02	0.05	0.09	-0.11	-	0.23	1.94	0.62	0.71	0.26	0.35
Q2	-0.01	-0.12	-	-0.14	0.01	0.01	0.11	1.38	0.37	0.61	0.10	0.31
Q3	-0.01	-0.20	-0.05	-0.14	-0.01	-	0.08	1.15	0.23	0.46	0.13	0.33

1 Estimates are accurate to 1 decimal place and contributions are available from 1997. Output data are available from 1990 in table B1.

2 Contribution are to output gross value added and therefore may not sum to the percentage change in average GDP. More information on the difference between the 3 measures can be found in the Short Guide to National Accounts

AB Annex B - Growth and contributions to growth - expenditure components of GDP^{1,2}

Chained Volume Measures

Seasonally adjusted data

Reference year 2016

Final consumption expenditure									
	House-holds	Non-prof- it instit- utions ³	General govern- ment	Gross capital formation	Gross fixed capital formation	Business investme- nt	Total exports	less Total imports	Net trade
Percentage change, latest year on previous year									
Growth									
	KGZ5	KH26	KH2I	ZZ6H	KG7N	KG7M	KH2U	KH3N	
2016	3.8	-1.5	1.0	-0.6	3.6	4.3	2.7	4.4	
2017	2.3	-0.2	0.3	-1.7	1.6	2.9	6.1	3.5	
2018	1.6	0.7	0.6	1.4	-0.1	-1.6	-0.9	0.7	
Contributions to growth									
	ZZ6M	ZZ6N	ZZ6O	ZZ6P	ZZ6Q	ZZ6R	ZZ6S	ZZ6T	ZZ6U
2016	2.39	-0.04	0.19	-0.10	0.62	0.41	0.76	1.28	-0.52
2017	1.44	-	0.05	-0.29	0.28	0.29	1.74	1.05	0.68
2018	1.01	0.02	0.12	0.24	-0.01	-0.16	-0.26	0.23	-0.49
Percentage change, latest quarter on previous quarter									
Growth									
	KGZ6	KH27	KH2J	ZZ5H	KG7Q	KG7P	KH2V	KH3O	
2017 Q1	0.5	0.7	-0.1	2.1	-	2.3	0.4	-0.7	
Q2	0.3	0.5	-	0.3	1.4	1.2	2.4	2.3	
Q3	0.4	-0.3	0.3	-0.5	-0.4	0.2	1.0	0.6	
Q4	0.3	0.7	0.2	1.3	1.1	0.2	-1.5	-1.0	
2018 Q1	0.5	0.7	-0.2	-2.7	-0.9	-1.0	-0.7	-0.9	
Q2	0.5	-0.8	-	5.6	-0.4	-0.6	-2.6	0.4	
Q3	0.3	0.3	0.4	-2.9	0.5	-0.8	3.4	0.9	
Q4	0.2	0.1	1.6	2.6	-0.1	-1.0	0.5	2.8	
2019 Q1	0.3	-0.1	0.8	17.4	0.9	0.8	1.6	10.3	
Q2	0.4	-1.1	1.1	-15.6	-0.9	-0.4	-6.6	-13.0	
Q3	0.4	0.5	0.3	-7.2	-0.2	-	5.2	0.8	
Contributions to growth									
	ZZ5M	ZZ5N	ZZ5O	ZZ5P	ZZ5Q	ZZ5R	ZZ5S	ZZ5T	ZZ5U
2017 Q1	-0.08	0.02	-0.01	0.35	0.01	0.22	0.13	-0.20	0.33
Q2	0.18	0.01	0.01	0.05	0.24	0.11	0.70	0.69	0.01
Q3	0.25	-0.01	0.05	-0.08	-0.07	0.02	0.31	0.20	0.11
Q4	0.19	0.02	0.04	0.21	0.19	0.02	-0.45	-0.30	-0.14
2018 Q1	0.34	0.02	-0.04	-0.48	-0.16	-0.10	-0.21	-0.29	0.07
Q2	0.34	-0.02	-0.01	0.96	-0.07	-0.06	-0.77	0.13	-0.90
Q3	0.16	0.01	0.08	-0.52	0.08	-0.08	1.00	0.29	0.70
Q4	0.11	-	0.30	0.45	-0.02	-0.10	0.14	0.87	-0.73
2019 Q1	0.19	-	0.15	3.03	0.15	0.08	0.47	3.33	-2.86
Q2	0.22	-0.03	0.20	-3.18	-0.16	-0.04	-2.01	-4.61	2.60
Q3	0.25	0.01	0.06	-1.24	-0.04	-	1.47	0.25	1.22
Percentage change, latest quarter on corresponding quarter of previous year									
Growth									
	KGZ7	KH28	KH2K	ZZ5Y	KG7T	KG7S	KH2W	KH3P	
2017 Q1	3.7	-2.5	0.1	-2.2	1.7	3.0	5.6	4.0	
Q2	2.5	-0.2	0.2	0.9	2.2	3.1	6.4	5.6	
Q3	1.6	0.5	0.4	-7.9	0.5	1.7	10.3	3.2	
Q4	1.5	1.6	0.4	3.2	2.2	3.9	2.4	1.3	
2018 Q1	1.5	1.6	0.3	-1.7	1.2	0.6	1.2	1.0	
Q2	1.8	0.3	0.2	3.6	-0.6	-1.2	-3.7	-0.8	
Q3	1.6	0.8	0.3	1.1	0.2	-2.3	-1.4	-0.5	
Q4	1.5	0.2	1.8	2.4	-1.0	-3.4	0.5	3.2	
2019 Q1	1.3	-0.6	2.8	23.6	0.8	-1.6	2.8	14.9	
Q2	1.1	-0.9	4.0	-1.3	0.3	-1.4	-1.4	-0.4	
Q3	1.2	-0.7	3.9	-5.7	-0.4	-0.6	0.2	-0.6	
Contributions to growth									
	ZZ65	ZZ66	ZZ67	ZZ68	ZZ69	ZZ6A	ZZ6B	ZZ6C	ZZ6D
2017 Q1	2.28	-0.06	0.01	-0.38	0.29	0.29	1.59	1.19	0.40
Q2	1.63	-	0.03	0.15	0.38	0.31	1.82	1.66	0.15
Q3	1.34	0.01	0.07	-1.46	0.08	0.17	2.85	0.98	1.87
Q4	0.54	0.04	0.09	0.53	0.38	0.38	0.70	0.38	0.31
2018 Q1	0.95	0.04	0.05	-0.30	0.20	0.05	0.36	0.31	0.05
Q2	1.12	0.01	0.04	0.63	-0.11	-0.12	-1.13	-0.26	-0.87
Q3	1.03	0.02	0.06	0.19	0.04	-0.22	-0.44	-0.17	-0.27
Q4	0.95	0.01	0.33	0.42	-0.17	-0.34	0.16	1.02	-0.86
2019 Q1	0.81	-0.01	0.53	3.97	0.14	-0.16	0.86	4.70	-3.84
Q2	0.69	-0.02	0.73	-0.23	0.05	-0.14	-0.42	-0.14	-0.28
Q3	0.78	-0.01	0.71	-0.97	-0.07	-0.06	0.07	-0.18	0.25

1 Estimates are accurate to 1 decimal place and contributions are available from 1997. Expenditure data are available from 1948 annually and 1955 quarterly in table C2

2 This table does not include contribution from the statistical discrepancy

and components may not sum to the percentage change in average GDP. Chained volume measure data for this component are available in table C2

3 Non-profit institutions serving households

AC Annex C - Growth and contributions to growth - income components of GDP^{1,2}

Current Prices

Seasonally adjusted data

	Compen- sation of employees	Gross operating surplus of corporations ³	Other income ⁴	Taxes on products & production less subsidies
Percentage change, latest year on previous year				
Growth				
	KGI3	KH4V	KH6T	KH65
2016	4.1	3.8	4.5	4.0
2017	4.3	4.0	2.4	3.8
2018	4.3	0.9	5.2	2.7
Contributions to growth				
	ZZ7H	ZZ7I	ZZ7J	ZZ7K
2016	2.00	0.81	0.80	0.49
2017	2.07	0.84	0.42	0.46
2018	2.11	0.20	0.90	0.32
Percentage change, latest quarter on previous quarter				
Growth				
	KGI4	KH4W	KH6U	KH66
2017 Q1	0.8	3.8	0.2	-0.1
Q2	1.6	-3.2	0.3	2.2
Q3	1.1	-2.0	0.6	1.7
Q4	0.7	4.4	1.0	-0.3
2018 Q1	1.1	0.1	1.4	-1.6
Q2	0.9	-1.9	1.9	5.1
Q3	1.5	2.9	1.2	-1.5
Q4	1.4	-2.5	2.2	0.6
2019 Q1	0.3	3.6	1.9	-
Q2	1.5	-0.9	-0.4	2.0
Q3	0.9	0.1	0.5	-0.2
Contributions to growth				
	ZZ6Z	ZZ72	ZZ73	ZZ74
2017 Q1	0.36	0.81	0.03	-0.01
Q2	0.78	-0.70	0.05	0.26
Q3	0.49	-0.38	0.10	0.19
Q4	0.33	0.94	0.19	-0.04
2018 Q1	0.47	0.03	0.22	-0.18
Q2	0.45	-0.42	0.34	0.62
Q3	0.73	0.60	0.21	-0.19
Q4	0.73	-0.54	0.40	0.08
2019 Q1	0.17	0.73	0.34	-
Q2	0.72	-0.19	-0.06	0.23
Q3	0.40	0.02	0.07	-0.02
Percentage change, latest quarter on corresponding quarter of previous year				
Growth				
	KGI5	KH4X	KH6V	KH67
2017 Q1	4.6	7.4	3.8	2.6
Q2	4.2	4.0	1.5	3.6
Q3	4.1	1.6	2.2	5.4
Q4	4.2	2.8	2.1	3.5
2018 Q1	4.5	-0.8	3.3	1.9
Q2	3.7	0.6	5.0	4.8
Q3	4.1	5.5	5.5	1.5
Q4	5.0	-1.4	6.7	2.4
2019 Q1	4.2	1.9	7.3	4.1
Q2	4.9	2.9	5.0	1.1
Q3	4.3	0.2	4.2	2.4
Contributions to growth				
	ZZ79	ZZ7A	ZZ7B	ZZ7C
2017 Q1	2.22	1.59	0.67	0.31
Q2	2.03	0.85	0.27	0.44
Q3	2.00	0.34	0.39	0.65
Q4	2.06	0.62	0.38	0.44
2018 Q1	2.19	-0.17	0.59	0.23
Q2	1.84	0.12	0.88	0.60
Q3	2.01	1.14	0.97	0.18
Q4	2.39	-0.31	1.17	0.29
2019 Q1	2.06	0.41	1.29	0.49
Q2	2.41	0.61	0.90	0.14
Q3	2.09	0.03	0.75	0.30

1 Estimates are accurate to 1 decimal place and contributions are available from 1997. Income data are available from 1948 annually and 1955 quarterly in table D.

2 This table does not include the contribution from the statistical discrepancy and components may not sum to the percentage change in average GDP. Current price data for this component are available in table D

3 Includes the operating surplus of financial corporations, private non-financial corporations and public corporations

4 Includes mixed income and the operating surplus of the non-corporate sector

AD Annex D - Implied GDP deflator growths- Expenditure components of GDP¹

Seasonally adjusted data

Reference year 2016

Final consumption expenditure							
	House-holds	Non-prof- it instit- utions ²	General govern- ment	Gross capital formation	Gross fixed capital formation	Total exports	less Total imports
Percentage change, latest year on previous year							
	ZZ93	ZZ94	ZZ95	ZZ96	ZZ97	ZZ98	ZZ99
2016	1.5	0.4	1.1	4.6	2.2	4.2	3.2
2017	1.4	1.1	1.1	6.3	2.2	4.5	5.4
2018	2.5	1.0	1.8	0.4	1.8	3.0	3.2
Percentage change, latest quarter on previous quarter							
	ZZ8N	ZZ8O	ZZ8P	ZZ8Q	ZZ8R	ZZ8S	ZZ8T
2017 Q1	1.0	-0.3	0.6	0.9	0.7	-0.1	2.1
Q2	0.2	0.6	-0.7	-0.9	0.1	0.4	-0.6
Q3	-0.1	0.7	0.6	0.9	1.0	-0.2	0.3
Q4	0.9	-	0.8	0.6	-0.2	1.5	1.0
2018 Q1	1.1	-0.5	0.8	-1.5	0.3	-0.1	-
Q2	0.5	1.3	0.1	1.5	1.3	1.9	2.7
Q3	0.6	-	0.5	1.4	0.2	0.2	0.6
Q4	0.3	-	-	-1.9	0.3	1.6	0.4
2019 Q1	0.2	0.3	0.7	-1.2	1.6	-0.8	-2.7
Q2	0.4	1.5	1.1	5.1	0.1	0.7	2.0
Q3	0.3	-	1.2	0.9	0.7	0.4	1.4
Percentage change, latest quarter on corresponding quarter of previous year							
	ZZ8U	ZZ8V	ZZ8W	ZZ8X	ZZ8Y	ZZ8Z	ZZ92
2017 Q1	1.5	1.2	1.9	9.7	2.9	8.5	9.6
Q2	1.3	0.9	0.5	6.0	2.1	6.2	6.6
Q3	0.9	1.4	0.7	8.1	2.3	2.1	3.1
Q4	2.0	1.0	1.2	1.6	1.7	1.6	2.7
2018 Q1	2.1	0.9	1.4	-0.9	1.2	1.6	0.6
Q2	2.5	1.5	2.2	1.4	2.4	3.2	4.0
Q3	3.1	0.8	2.1	1.9	1.5	3.5	4.4
Q4	2.5	0.8	1.3	-0.6	2.0	3.6	3.7
2019 Q1	1.5	1.5	1.3	-0.3	3.4	2.8	0.9
Q2	1.4	1.7	2.3	3.3	2.2	1.6	0.2
Q3	1.2	1.8	3.1	2.9	2.7	1.9	1.1

¹ Estimates accurate to 1 decimal place and are available from 1997. Current price and chained volume measure data are available from 1948 annually and 1955 quarterly in tables C1 and C2 respectively.

² Non-profit institutions serving households