

Statistical bulletin

GDP first quarterly estimate, UK: January to March 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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Next release:
28 June 2019

Notice

10 May 2019

During the final quality assurance of the Blue Book 2018 consistent Quarterly National Accounts dataset an error was discovered in the General Government Final Consumption Expenditure (GGFCE) chained volume measure (CVM). The error affects 2005 data, increasing annual GGFCE growth by around 1.7 percentage points from 2.3% to 4.0%. GGFCE in current prices is unaffected.

There is no impact on headline GDP growth or the GDP implied deflator, as the impact during 2005 would be offset by revisions to the expenditure alignment adjustment.

The GGFCE CVM series will be corrected and there will be a review of the alignment adjustment in the Blue Book 2019 consistent Quarterly National Accounts dataset.

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1 . Main points

- UK gross domestic product (GDP) in volume terms was estimated to have increased by 0.5% in Quarter 1 (Jan to Mar) 2019, having slowed to 0.2% growth in the previous quarter.
- In comparison with the same quarter a year ago UK GDP increased by 1.8% to Quarter 1 (Jan to Mar) 2019; up from 1.4% in the previous period.
- Growth in the services sector slowed to 0.3% in the latest quarter, while there was a noticeable pickup in growth in the production sector, driven by growth of 2.2% in manufacturing output.
- Private consumption, government consumption and gross capital formation contributed positively, while net trade contributed negatively to GDP growth.
- The trade deficit widened to 3.4% of nominal GDP in Quarter 1 2019; when unspecified goods are excluded, the deficit widened to 2.3% of nominal GDP – this figure gives a better indication of the underlying trade position.
- Gross fixed capital formation increased by 2.1% in the latest quarter, with strong growth in government investment; business investment increased by 0.5% in Quarter 1 2019 following four quarters of contraction.

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 the [short guide to 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), with the exception of 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 accountancy framework International Financial Reporting Standards (IFRS). 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 this quarter, 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 contacted around 260 QCAS respondents with large movements in their data to ask them which accountancy framework they used and what if any impact IFRS16 has had on their data for Quarter 1 2019, if they use the IFRS framework. As a result, we have made an adjustment of approximately £220 million to remove the quantified impact of its introduction and better reflect underlying growth for GFCF and business investment. The asset most affected by the introduction of IFRS16 in this provisional dataset was ICT equipment and other machinery and equipment.

3 . The UK economy grew by 0.5% in Quarter 1 2019

UK gross domestic product (GDP) is estimated to have grown by 0.5% in Quarter 1 (Jan to Mar) 2019, having slowed to 0.2% growth in the previous quarter. This is in line with the latest expectations from the [Bank of England](#) and slightly above those from the [National Institute of Economic and Social Research](#). The UK economy grew by 1.8% compared with the same quarter in the previous year (Figure 1), its fastest rate since Quarter 3 (July to Sept) 2017.

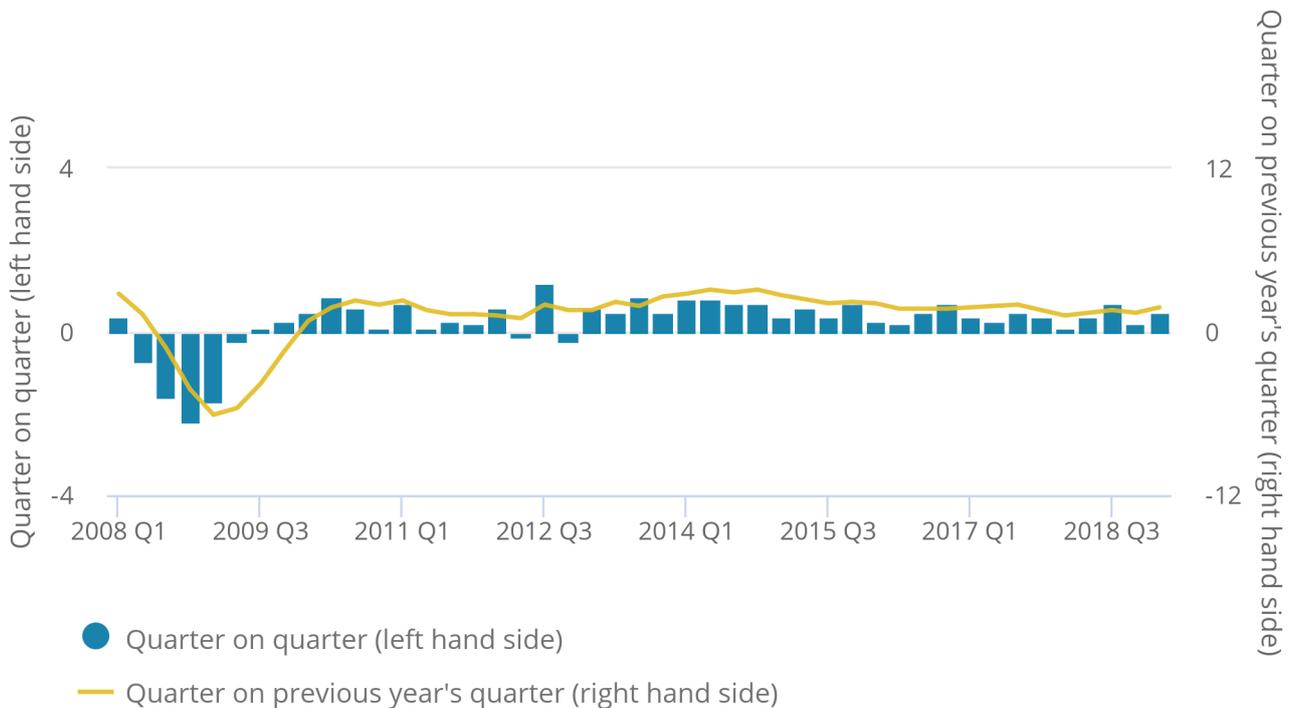
The strength in quarterly growth is in part due to the low December 2018 monthly growth in the base period, which makes the current period look stronger in comparison. Having fallen by 0.3% in December 2018, there was offsetting strength in January 2019 as output increased by 0.5%, followed by a further increase of 0.2% in February 2019. Real GDP growth is estimated to have contracted by 0.1% in March 2019. More information on the monthly path of GDP can be found in the [GDP monthly estimate, UK: March 2019](#) release.

Figure 1: Real GDP increases by 0.5% in Quarter 1 2019

UK, Quarter 1 (Jan to Mar) 2008 to Quarter 1 (Jan to Mar) 2019

Figure 1: Real GDP increases by 0.5% in Quarter 1 2019

UK, Quarter 1 (Jan to Mar) 2008 to Quarter 1 (Jan to Mar) 2019



Source: Office for National Statistics

Notes:

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

Nominal GDP increased by 1.0% in Quarter 1 2019, up from the 0.7% recorded in the previous quarter, while real GDP per head increased by 0.4% in the first quarter of 2019 (Table 1). The implied GDP deflator represents the broadest measure of inflation in the domestic economy. It reflects changes in the price of all goods and services that comprise GDP, including the price movements in private and government consumption, investment and the relative price of exports and imports.

In the year to Quarter 1 2019, the GDP deflator increased by 1.6%, continuing the easing that has been seen in recent quarters. This movement in the implied deflator broadly reflects weakness in the implied import deflator for goods, which has been driven by falls in the price of fuel imports – including gas and electricity and crude and refined oil – due to a fall in oil prices in Quarter 1 2019.

There has also been a notable decline in the implied deflator for gross capital formation in Quarter 1 2019, although this broadly reflects erratic movements in non-monetary gold. This has been partially offset by an increase in the implied deflator for government consumption, as education spending continues to rise.

Table 1: Headline economic indicators for the UK
Quarter 1 (Jan to Mar) 2017 to Quarter 1 (Jan to Mar) 2019

	Chained volume measures			Current market prices		
	GDP	Household expenditure	Gross fixed capital formation	GDP per head	GDP	Compensation of employees
Seasonally adjusted						
2017	1.8	2.2	3.5	1.2	4.1	4.2
2018	1.4	1.8	0.2	0.7	3.3	4.2
Q1 2017	0.4	0.7	1.0	0.3	1.2	0.8
Q2 2017	0.3	0.4	1.9	0.1	0.4	1.5
Q3 2017	0.5	0.5	0.3	0.4	1.1	0.7
Q4 2017	0.4	0.3	0.7	0.3	1.0	1.0
Q1 2018	0.1	0.5	-0.8	-0.1	0.7	1.0
Q2 2018	0.4	0.5	-0.6	0.2	0.7	0.9
Q3 2018	0.7	0.4	0.9	0.5	1.1	1.6
Q4 2018	0.2	0.3	-0.6	0.1	0.7	0.8
Q1 2019	0.5	0.7	2.1	0.4	1.0	0.9

Source: Office for National Statistics

Notes

1. Percentage change on previous quarter. [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 28 June 2018 published estimates. [Back to table](#)

4 . Growth in production and construction output increases as services sector growth slows

Growth in the output measure of gross domestic product (GDP) increased by 0.5% in Quarter 1 (Jan to Mar) 2019 (Figure 2). Production output increased by 1.4% in the first quarter of 2019, within which manufacturing output increased by 2.2%. Services output growth slowed to 0.3% in Quarter 1 2019, while construction output increased by 1.0%. Output of the agriculture, forestry and fishing sector fell by 1.8%, providing the only negative contribution to growth.

Figure 2: Growth in services output drives GDP growth in Quarter 1 2019

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 1 (Jan to Mar) 2019

Figure 2: Growth in services output drives GDP growth in Quarter 1 2019

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 1 (Jan to Mar) 2019



Source: Office for National Statistics

Notes:

1. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept), and Q4 refers to Quarter 4 (Oct to Dec).
2. Chart shows contributions to real GDP growth.

Services output increased by 0.3% in Quarter 1 2019, following the comparatively strong performance in the second half of 2018 (Figure 3). This easing has also been seen in the recent [Markit UK Services Purchasing Manager's Index \(PMI\)](#) for March 2019, which recorded a contraction in services sector activity for the first time since 2012 and cited how "corporate clients had opted to delay spending in response to political uncertainty".

Following growth of 0.3% in Quarter 4 (Oct to Dec) 2018, there was a sharp pickup in the output of the wholesale, retail and motor trades industries, which increased by 1.2% in the first quarter of 2019. This increase broadly reflects growth in retail sales, which increased by 1.6% in the first three months of 2019.

As outlined in the [Retail sales, Great Britain: March 2019](#) publication, the growth in Quarter 1 2019 reflects an increase in the quantity bought across all stores, with the exception of department stores and household goods stores. However, the pickup in retail sales in Quarter 1 2019 is at odds with a variety of external survey evidence, including both the [British Retail Consortium](#) and [Bank of England's Agents' Summary Survey](#), with the latter attributing the weakening demand for household goods to the relatively subdued UK housing market, in addition to the recent political uncertainty.

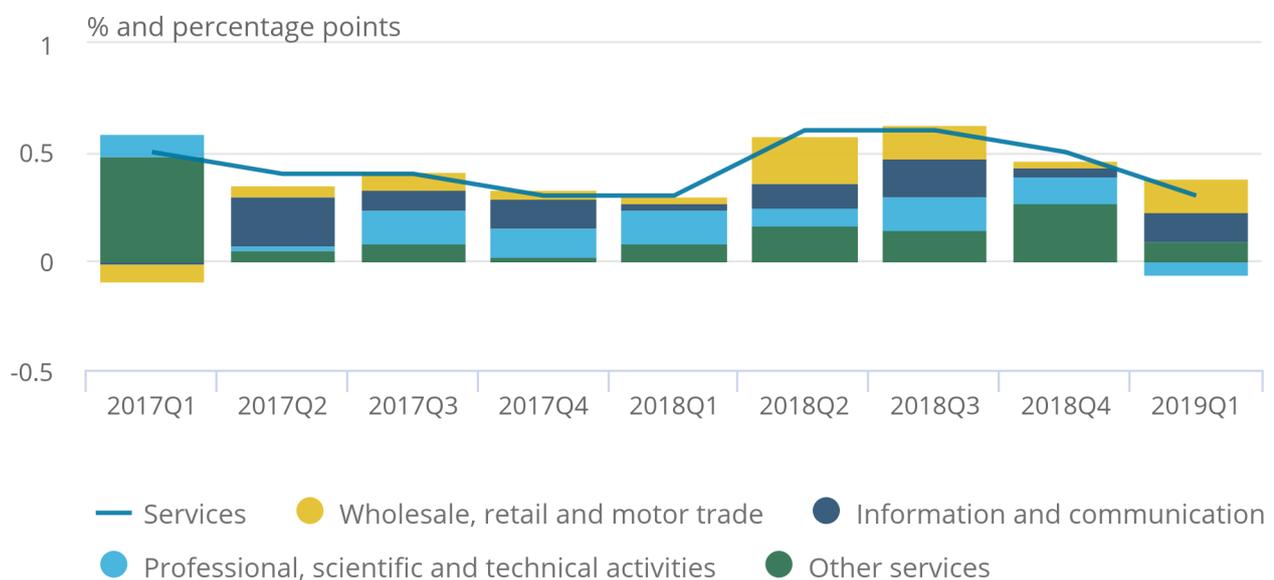
Professional, scientific and technical activities fell by 0.6% in Quarter 1 2019. However, this decrease broadly reflects a fallback following particularly strong growth throughout the second half of 2018. In addition, financial and insurance services output continued to fall in Quarter 1 2019, decreasing by 0.4%. The quarterly fall predominantly reflected a fall in financial service activities, which has not contributed positively to growth since Quarter 1 2017. It should be noted that data content in these industries is comparatively low in early estimates. This fall is also consistent with the [Bank of England's Agents' Summary Survey](#), which attributed some of the recent decline in financial services to weaker demand, reflecting recent political uncertainty as well as worries around trade tensions between the US and China.

Figure 3: Service sector growth slows despite strengthening in wholesale, retail and motor trade

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 1 (Jan to Mar) 2019

Figure 3: Service sector growth slows despite strengthening in wholesale, retail and motor trade

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 1 (Jan to Mar) 2019



Source: Office for National Statistics

Notes:

1. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept), and Q4 refers to Quarter 4 (Oct to Dec).
2. Chart shows contribution to services growth.

Following a weak picture in Quarter 4 2018, in which all of the four main areas of production experienced a fall in output, there was a pickup in Quarter 1 2019. Production output increased by 1.4% (Figure 4), predominantly driven by manufacturing output, which increased by 2.2%, its fastest rate since Quarter 3 (July to Sept) 1988.

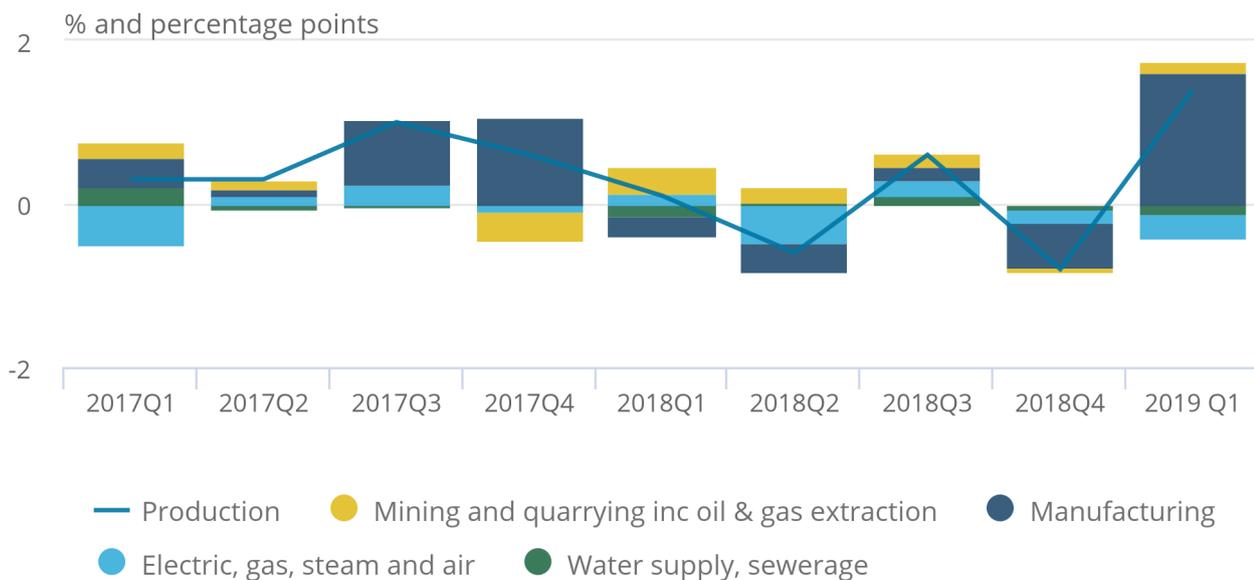
This pickup in manufacturing was also captured in the recent [Markit UK Manufacturing PMI](#) for March 2019, which recorded a 13-month high in manufacturing activity due to “companies stepping up production to build-up inventories in advance of Brexit and to also meet rising inflows of new work”. The rate at which inventories increased was the highest for any G7 country.

Figure 4: Increase in production output in Quarter 1 2019 driven by recovery in manufacturing

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 1 (Jan to Mar) 2019

Figure 4: Increase in production output in Quarter 1 2019 driven by recovery in manufacturing

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 1 (Jan to Mar) 2019



Source: Office for National Statistics

Notes:

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

Recently, there has been much interest in the extent to which stock building has been taking place in the UK. This refers to when a business increases its holdings of intermediate and/or finished goods, which is typically in response to unexpected shocks to demand. There have been concerns that there may be disruptions at the UK border, and there has been external survey evidence that points to a sharp uptick in businesses increasing their inventories of stocks.

For instance, the latest Bank of England’s Agents’ Summary shows that “around half of all respondents had been building inventories as part of their contingency planning for Brexit”, while almost one-third of respondents to the latest Decision Maker’s Panel Survey reported an increase in stock levels. It is difficult to unpick how much of the increase in manufacturing output in Quarter 1 2019 might reflect the increase of domestic output produced by UK manufacturers in response to the stockpiling demands by UK and/or foreign manufacturers.

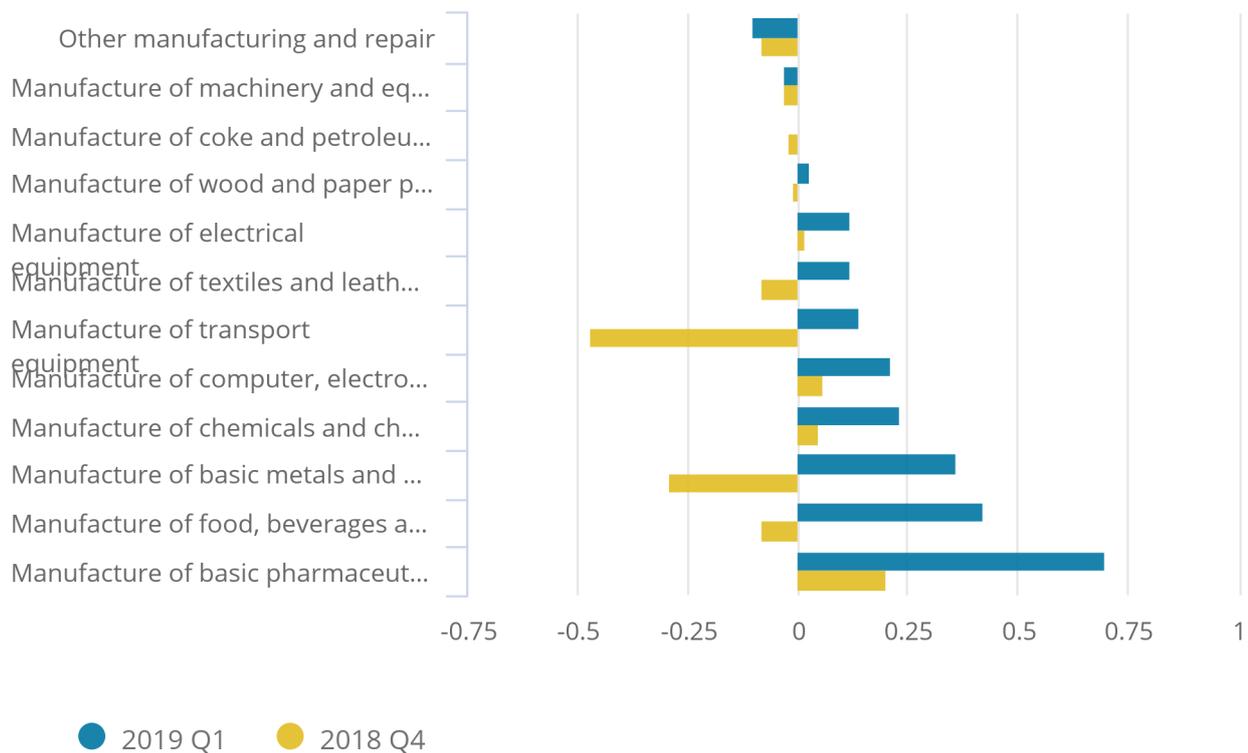
There has been widespread strength across the majority of manufacturing industries in Quarter 1 2019 (Figure 5), with the most notable growth occurring in the relatively volatile pharmaceuticals sector which increased by 9.4% in the first quarter. This was mainly driven by growth in exports of pharmaceutical products, some of which was likely in anticipation of the UK's original exit date from the European Union at the end of March 2019.

Figure 5: Manufacturing growth driven by widespread increases, including growth in pharmaceuticals

UK, Quarter 4 (Oct to Dec) 2018 and Quarter 1 (Jan to Mar) 2019

Figure 5: Manufacturing growth driven by widespread increases, including growth in pharmaceuticals

UK, Quarter 4 (Oct to Dec) 2018 and Quarter 1 (Jan to Mar) 2019



Source: Office for National Statistics

Notes:

1. Q1 refers to Quarter 1 (Jan to Mar) and Q4 refers to Quarter 4 (Oct to Dec).

The manufacturing of food and drink recovered from a fall in Quarter 4 2018, driven by an increase in the manufacturing of alcohol products, reflecting [strong export demand](#). The manufacture of transport equipment also recovered somewhat from a fall in the final quarter of 2018, increasing by 0.9%. The Quarter 1 growth in this sector has been driven by increases in the manufacturing of aircraft and other transport equipment.

Mining and quarrying production also bounced back in Quarter 1 2019, increasing by 2.0% following a fall in the previous quarter. This increase stems predominantly from relatively new oil fields maturing in production capacity, which has led to an increase in output in the first three months of 2019.

In contrast, electricity, gas, steam and air as well as water supply and sewerage production both fell for the second consecutive quarter in Quarter 1 2019. Warmer than average temperatures in Quarter 1 2019 lowered the demand for electricity production, while the 1.6% fall in water supply and sewerage reflected broad-based weakness across the sector in Quarter 1 2019. More information on the movements in the output production industries can be found in the [Index of Production, UK: March 2019](#) release.

Following a weak end to 2018, construction output recovered in the first quarter of 2019, increasing by 1.0%. However, this reflects to some extent the volatile monthly movements in recent months. Following a fall of 2.5% in December 2018, construction output recovered in January and February 2019, with growth of 3.3% and 0.5% respectively. The latest figures show that construction output fell by 1.9% in March 2019 (Figure 6).

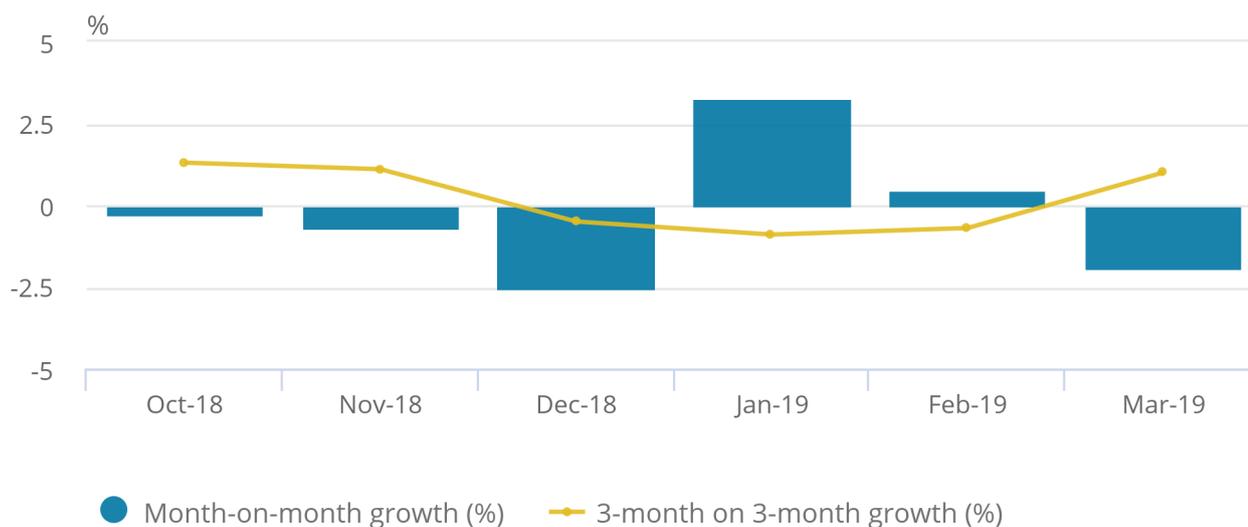
The quarterly increase in total construction output in Quarter 1 2019 resulted from the 2.9% growth in repair and maintenance work, which also recovered following a weak end to 2018. Elsewhere, growth in new construction work was flat in Quarter 1 2019, with falls in new commercial construction work offset by an increase in infrastructure output. The latest [Bank of England's Agents' Summary Survey](#) notes how "heightened caution around business investment has resulted in some commercial developments being paused or delayed".

Figure 6: Quarter 1 2019 increase in construction output stemmed from growth in January 2019

UK, October 2018 to March 2019

Figure 6: Quarter 1 2019 increase in construction output stemmed from growth in January 2019

UK, October 2018 to March 2019



Source: Office for National Statistics

5 . Movements in imports of unspecified goods have been particularly pronounced in Quarter 1 2019, while there has also been an increase in household consumption and business investment

The expenditure measure of gross domestic product (GDP) increased by 0.5% in Quarter 1 (Jan to Mar) 2019. Private consumption, government consumption and gross capital formation (GCF) contributed positively to growth, while net trade subtracted from GDP growth in Quarter 1 2019 (Figure 7).

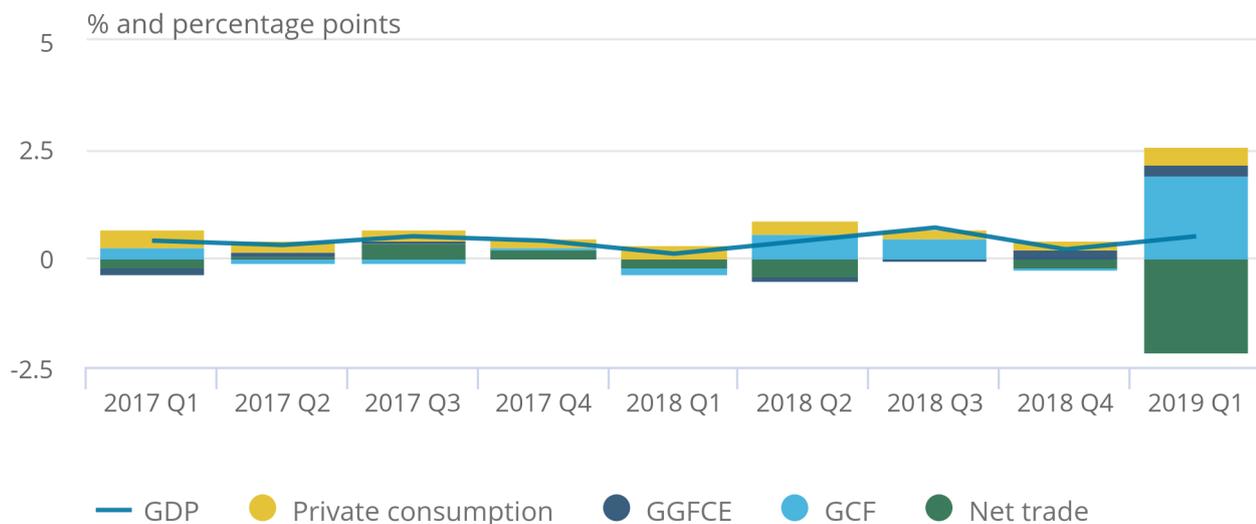
There have been some notable movements in imports of unspecified goods in the first quarter of 2019. These unspecified goods include non-monetary gold (NMG) and account for the large and offsetting impacts to gross capital formation and net trade. These movements do not affect headline GDP as they are recorded as equivalent offsetting impacts in the UK National Accounts, but this is reflected in the composition of GDP growth. [More information on how non-monetary gold \(NMG\) features in GDP is available](#). There has been a sizeable import of NMG in Quarter 1 2019, reflected in a record high in the acquisition less disposal of valuables.

Figure 7: There have been large offsetting movements in imports of unspecified goods in Quarter 1 2019

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 1 (Jan to Mar) 2019

Figure 7: There have been large offsetting movements in imports of unspecified goods in Quarter 1 2019

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 1 (Jan to Mar) 2019



Source: Office for National Statistics

Notes:

1. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept), and Q4 refers to Quarter 4 (Oct to Dec)
2. Components may not sum to total gross domestic product due to rounding and loss of additivity in data prior to open period. The statistical discrepancy is also not displayed.

Following a relatively subdued 2018, household consumption increased by 0.7% in the first three months of 2019. Although when compared with the same quarter a year ago, growth remained subdued at 1.9%. External evidence points towards continued weakness in consumer demand. The latest [Bank of England Agents' Summary of Business Conditions](#) states that "uncertainty about Brexit and the wider economy weighed on spending" in Quarter 1 2019, while the [GfK Consumer Confidence](#) index remained unchanged at negative 13 in March 2019, below its long-run average.

Government consumption increased by 1.4% in Quarter 1 2019, following growth of 1.3% in Quarter 4 (Oct to Dec) 2018. This increase reflects widespread growth in a number of areas including health, which increased by 0.7%, and other functions of central government, such as general public services and economic affairs, which increased by 9.6%.

Gross fixed capital formation (GFCF) increased by 2.1% in the first three months of 2019, mainly reflecting the 8.1% increase in general government investment. This was due to increases across a number of central government departments.

Government consumption and investment figures are based on the latest available budgetary information, provided by government departments including HM Treasury and local government. These estimates will be subject to further scrutiny when outturn information are available.

Following four consecutive quarters of decline throughout 2018, business investment grew by 0.5% in the first quarter of 2019, driven by higher investment in IT equipment and other machinery and equipment. 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 1 2019.

The latest [Bank of England Agents' Summary of Business Conditions](#) reported that investment intentions fell sharply in manufacturing, with a modest decline in services. Political uncertainty continues to be cited as having a negative impact on investment, as seen in the Quarter 1 2019 [Decision Maker's Panel](#), while the latest [Deloitte Chief Financial Officers \(CFO\) Survey](#) states that "more than half of CFOs continue to rate current levels of uncertainty as high or very high".

It should be noted that GFCF and business investment estimates are subject to higher levels of uncertainty in this release, reflecting the introduction of International Financial Reporting Standard (IFRS) 16 Leases in January 2019 – further information can be found in the Things you need to know about this release section.

Alignment adjustments 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 increase of £5.2 billion in stocks being held by UK companies in the most recent quarter (Table 2). [Data for previous periods are available.](#)

Table 2: Change in inventories, including and excluding balancing and alignment adjustments
UK, Quarter 1 (Jan to Mar) 2019

£ millions

	Change in inventories	Of which alignment	Of which balancing	Change in inventories excluding alignment and balancing
Current price	3524	-678	-2500	6702
Chained volume measure	4600	-641	0	5241

Source: Office for National Statistics

The UK trade deficit widened to 3.4% of nominal GDP in Quarter 1 2019, the widest deficit in more than 50 years. This is largely a reflection of the volume of imports of unspecified goods, which includes non-monetary gold (NMG).

Figure 8 shows that excluding unspecified goods, the trade deficit was at 2.3% of nominal GDP in Quarter 1 2019. Export volume growth was flat, while import volumes increased by 6.8%, resulting in net trade being a significant drag on GDP growth in the first quarter of the year.

Trade in goods exports grew by 4.5% in Quarter 1 2019, reflecting increases in machinery and transport equipment and miscellaneous manufactures, while trade in services exports fell by an offsetting 5.0% due to falls in telecommunications, computer and information technology, intellectual property and other business services. The rise in imports reflects a 11.0% increase in trade in goods imports, partially offset by a 4.4% fall in trade in services imports.

More detail on the movements in trade data can be found in the [UK trade: March 2019 release](#).

Figure 8: UK trade deficit widened to 3.4% of nominal GDP in Quarter 1 2019 with a smaller deficit of 2.3% excluding unspecified goods

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 1 (Jan to Mar) 2019

Figure 8: UK trade deficit widened to 3.4% of nominal GDP in Quarter 1 2019 with a smaller deficit of 2.3% excluding unspecified goods

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 1 (Jan to Mar) 2019



Source: Office for National Statistics

Notes:

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

6 . Nominal GDP rises by 1.0% in the first three months of 2019

Growth in nominal gross domestic product (GDP) strengthened in Quarter 1 (Jan to Mar) 2019, rising by 1.0% and following an increase of 0.7% in the previous quarter. This was driven by an increase of 2.5% in gross operating surplus (GOS) of corporations and a 0.9% increase in compensation of employees (CoE) (Figure 9).

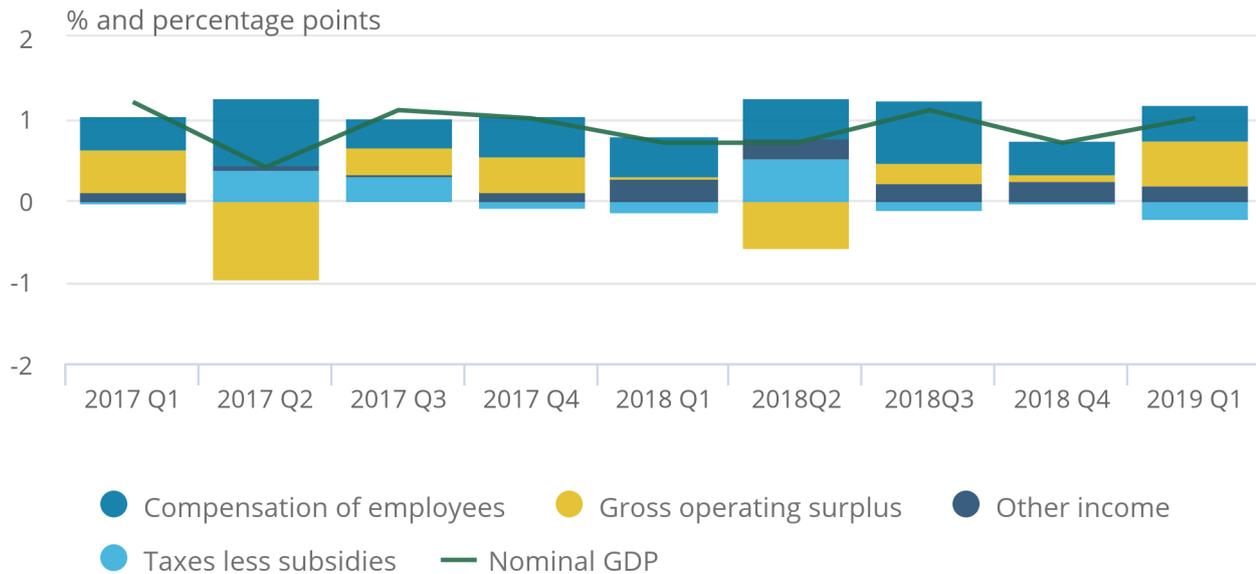
Wages and salaries grew by 0.8%, due primarily to an increase in private sector salaries, while employer social contributions grew by 1.2%, due to increased National Insurance contributions. Other income increased by 1.1%, slowing slightly from growth of 1.4% in both the final two quarters of 2018 (July to December).

Figure 9: Nominal GDP increases by 1.0% in Quarter 1 2019

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 1 (Jan to Mar) 2019

Figure 9: Nominal GDP increases by 1.0% in Quarter 1 2019

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 1 (Jan to Mar) 2019



Source: Office for National Statistics

Notes:

1. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept), and Q4 refers to Quarter 4 (Oct to Dec).
2. Chart shows contributions to nominal GDP growth.

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 (UKEA). These data can be downloaded directly from the UKEA dataset and on the UKEA main aggregates dataset table.

Data published in the UKEA reflect data as published on 29 March 2019 and will be next updated on 28 June 2019 when the Quarter 1 (Jan to Mar) 2019 Quarterly national accounts release and UKEA will become consistent.

A number of other economic indicators were published on 10 May 2019, these include:

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

8 . Are there any upcoming changes?

Blue Book 2019

An [article announcing the scope of Blue Book 2019](#) was published in October 2018. The Blue Book 2019 will include the biggest changes to the compilation of real (adjusted for price changes) gross domestic product (GDP) in a generation. We plan to publish indicative estimates of these changes on GDP in June 2019.

Revisions in June Quarterly National Accounts

In a change to our published [revisions policy](#), the June Quarterly National Accounts (QNA) release will be open for revisions in Quarter 1 (January to March) 2019 only.

9 . Quality and methodology

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

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

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 issues

There are common pitfalls in interpreting data series and 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 “Validation and quality assurance” section in the [Quality and Methodology Information 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 – dictates 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 due to its larger data content.

Information on the methods we use for [Balancing the output, income and expenditure approaches to measuring GDP](#) is available. The size and direction of the quarterly alignment adjustments, when considered alongside the statistical discrepancy, in Quarter 1 (Jan to Mar) 2019 indicate that in this quarter the levels of expenditure and income are lower than the level of output.

Alignment adjustments, found in Table M of the [first quarterly estimate of GDP datasets](#) in this release, have a target limit of plus or minus £2,000 million on any quarter. 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 due to 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 1 (Jan to Mar) 2019

GDP measurement approach and component adjustment applied to	Q1 2019
Expenditure	
Change in inventories	Current prices -2500
Gross Fixed Capital Formation	Current prices -500

Source: Office for National Statistics

Notes

1. Adjustments are in £ million. [Back to table](#)
2. Q1 refers to Quarter 1 (Jan to Mar). [Back to table](#)

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	96.3	96.4	98.2	98.1	97.6	98.4	98.0	98.2
2016	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2017	104.1	104.0	101.8	102.1	103.4	102.4	102.2	101.9
2018	107.5	107.5	103.2	103.5	105.1	104.5	104.1	103.9
Seasonally adjusted								
2015 Q4	97.0	97.1	99.1	98.8	98.3	98.1	97.9	98.2
2016 Q1	98.6	98.6	99.5	99.1	98.8	99.3	99.1	99.4
Q2	99.4	99.4	99.6	99.6	99.5	100.0	99.8	99.9
Q3	100.3	100.4	100.1	100.2	100.3	100.1	100.2	100.2
Q4	101.7	101.7	100.8	101.1	101.5	100.6	100.9	100.5
2017 Q1	103.0	102.9	101.3	101.5	102.7	101.7	101.7	101.4
Q2	103.3	103.3	101.5	101.8	103.0	101.9	101.8	101.5
Q3	104.4	104.2	102.0	102.3	103.7	102.5	102.3	101.9
Q4	105.5	105.4	102.5	102.7	104.2	103.3	103.0	102.7
2018 Q1	106.2	106.3	102.5	102.8	104.3	103.7	103.6	103.4
Q2	106.9	106.6	102.9	103.2	104.8	104.0	103.9	103.3
Q3	108.1	108.1	103.6	103.9	105.7	104.8	104.3	104.0
Q4	108.9	108.9	103.9	104.1	105.9	105.2	104.8	104.6
2019 Q1	109.9	110.2	104.4	104.6	106.5	105.3	105.3	105.3
Percentage change, latest year on previous year								
	IHYM	KGL6	IHYP	KGM7	L489	KH7D	IHYS	KGM4
2015	2.8	2.8	2.3	2.5	2.8	-0.1	0.4	0.2
2016	3.9	3.8	1.8	1.9	2.4	1.6	2.1	1.9
2017	4.1	4.0	1.8	2.1	3.4	2.4	2.2	1.9
2018	3.3	3.4	1.4	1.4	1.7	2.0	1.9	1.9
Percentage change, latest quarter on previous quarter								
	IHYN	KGL8	IHYQ	KGM9		KH7E	IHYT	KGM5
2015 Q4	0.5	0.5	0.7	0.5	0.5	-0.5	-0.3	-
2016 Q1	1.6	1.5	0.3	0.3	0.4	1.2	1.3	1.2
Q2	0.9	0.9	0.2	0.4	0.7	0.7	0.7	0.4
Q3	0.9	0.9	0.5	0.6	0.8	0.2	0.4	0.3
Q4	1.5	1.3	0.7	0.9	1.2	0.5	0.7	0.4
2017 Q1	1.2	1.3	0.4	0.4	1.2	1.1	0.8	0.9
Q2	0.4	0.4	0.3	0.3	0.3	0.2	0.1	0.1
Q3	1.1	0.9	0.5	0.5	0.6	0.6	0.5	0.3
Q4	1.0	1.2	0.4	0.4	0.5	0.7	0.6	0.8
2018 Q1	0.7	0.8	0.1	-	0.1	0.4	0.6	0.8
Q2	0.7	0.3	0.4	0.4	0.5	0.3	0.3	-0.1
Q3	1.1	1.4	0.7	0.7	0.8	0.7	0.5	0.7
Q4	0.7	0.8	0.2	0.2	0.2	0.4	0.4	0.6
2019 Q1	1.0	1.2	0.5	0.5	0.6	-	0.5	0.6
Percentage change, latest quarter on corresponding quarter of previous year								
	IHYO	KGM2	IHYR	KGN3	L48D	KH7F	IHYU	KGM6
2015 Q4	2.8	2.8	2.2	1.8	2.0	-0.1	0.5	0.9
2016 Q1	3.9	3.6	2.1	1.8	1.9	1.3	1.7	1.8
Q2	3.0	2.8	1.7	1.6	2.0	0.9	1.3	1.3
Q3	3.8	3.9	1.7	1.9	2.5	1.5	2.1	2.0
Q4	4.9	4.7	1.7	2.3	3.2	2.5	3.1	2.4
2017 Q1	4.5	4.5	1.8	2.4	4.0	2.4	2.6	2.0
Q2	4.0	3.9	1.9	2.2	3.6	2.0	2.0	1.7
Q3	4.2	3.8	2.0	2.1	3.4	2.4	2.2	1.7
Q4	3.7	3.7	1.6	1.6	2.7	2.7	2.0	2.1
2018 Q1	3.1	3.2	1.2	1.2	1.5	2.0	1.9	2.0
Q2	3.4	3.2	1.4	1.4	1.7	2.1	2.0	1.8
Q3	3.5	3.7	1.6	1.6	1.9	2.2	1.9	2.1
Q4	3.2	3.3	1.4	1.4	1.6	1.9	1.8	1.9
2019 Q1	3.5	3.6	1.8	1.8	2.1	1.5	1.6	1.8

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	1 895 839	203 800	1 692 039	1 934 903	211 411	1 723 523	1 711 310
2016	1 969 524	213 479	1 756 045	1 969 524	213 479	1 756 045	1 743 298
2017	2 049 629	223 756	1 825 873	2 005 427	213 165	1 792 262	1 779 831
2018	2 117 724	230 599	1 887 125	2 033 455	216 350	1 817 105	1 803 884
Seasonally adjusted							
2015 Q4	477 774	51 676	426 098	488 153	54 358	433 845	430 760
2016 Q1	485 326	52 667	432 659	489 736	54 606	435 169	432 081
Q2	489 494	52 981	436 513	490 502	53 391	437 116	433 934
Q3	493 730	53 153	440 577	492 816	52 908	439 892	436 496
Q4	500 974	54 678	446 296	496 470	52 574	443 868	440 787
2017 Q1	507 028	55 076	451 952	498 582	52 979	445 603	442 478
Q2	508 869	55 297	453 572	499 885	53 144	446 741	443 583
Q3	514 258	56 810	457 448	502 473	53 425	449 048	445 876
Q4	519 474	56 573	462 901	504 487	53 617	450 870	447 894
2018 Q1	522 891	56 262	466 629	504 785	53 697	451 088	447 868
Q2	526 394	58 439	467 955	506 842	53 924	452 918	449 619
Q3	532 444	58 049	474 395	510 346	54 296	456 050	452 682
Q4	535 995	57 849	478 146	511 482	54 433	457 049	453 715
2019 Q1	541 160	57 511	483 649	514 019	54 689	459 330	455 945
Percentage change, latest year on previous year							
	IHYM		KGL6	IHYP		KGM7	KLH8
2015	2.8		2.8	2.3		2.5	2.5
2016	3.9		3.8	1.8		1.9	1.9
2017	4.1		4.0	1.8		2.1	2.1
2018	3.3		3.4	1.4		1.4	1.4
Percentage change, latest quarter on previous quarter							
	IHYN		KGL8	IHYQ		KGM9	
2015 Q4	0.5		0.5	0.7		0.5	0.5
2016 Q1	1.6		1.5	0.3		0.3	0.3
Q2	0.9		0.9	0.2		0.4	0.4
Q3	0.9		0.9	0.5		0.6	0.6
Q4	1.5		1.3	0.7		0.9	1.0
2017 Q1	1.2		1.3	0.4		0.4	0.4
Q2	0.4		0.4	0.3		0.3	0.2
Q3	1.1		0.9	0.5		0.5	0.5
Q4	1.0		1.2	0.4		0.4	0.5
2018 Q1	0.7		0.8	0.1		–	–
Q2	0.7		0.3	0.4		0.4	0.4
Q3	1.1		1.4	0.7		0.7	0.7
Q4	0.7		0.8	0.2		0.2	0.2
2019 Q1	1.0		1.2	0.5		0.5	0.5
Percentage change, latest quarter on corresponding quarter of previous year							
	IHYO		KGM2	IHYR		KGN3	KLH9
2015 Q4	2.8		2.8	2.2		1.8	1.7
2016 Q1	3.9		3.6	2.1		1.8	1.7
Q2	3.0		2.8	1.7		1.6	1.6
Q3	3.8		3.9	1.7		1.9	1.9
Q4	4.9		4.7	1.7		2.3	2.3
2017 Q1	4.5		4.5	1.8		2.4	2.4
Q2	4.0		3.9	1.9		2.2	2.2
Q3	4.2		3.8	2.0		2.1	2.1
Q4	3.7		3.7	1.6		1.6	1.6
2018 Q1	3.1		3.2	1.2		1.2	1.2
Q2	3.4		3.2	1.4		1.4	1.4
Q3	3.5		3.7	1.6		1.6	1.5
Q4	3.2		3.3	1.4		1.4	1.3
2019 Q1	3.5		3.6	1.8		1.8	1.8

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 ⁴	Gross value added excluding oil & gas
	Agriculture, forestry, and fishing	Mining & quarrying inc oil & gas extract	Manufacturing	Electric, gas, steam & air	Water supply, sewerage	Total	Construction	Distribution, hotels & restaurants	Transport storage and communications	Business services and finance	Government and other services	Total		
2016 Weights³	7	10	100	17	10	138	60	134	106	335	221	796	1000	993
	L2KL	L2KR	L2KX	L2MW	L2N2	L2KQ	L2N8	L2PZ	KI8M	KI8O	KI8Q	L2NC	CGCE	KLH7
2015	106.0	99.7	99.6	97.9	94.7	99.0	96.1	96.3	96.7	98.0	100.0	98.1	98.1	98.2
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	103.0	99.4	102.5	98.4	103.4	101.8	107.1	102.2	104.9	102.2	100.6	102.1	102.1	102.1
2018	100.6	103.7	103.4	97.9	101.9	102.6	107.4	105.1	108.9	103.8	100.9	103.9	103.5	103.5
Seasonally adjusted														
2015 Q4	104.6	99.7	99.2	96.1	96.0	98.6	97.2	97.6	97.7	98.9	100.5	98.9	98.8	98.8
2016 Q1	100.7	97.9	99.0	98.1	97.8	98.7	97.5	98.7	98.0	99.3	100.3	99.3	99.1	99.1
Q2	99.7	100.1	100.2	102.5	100.5	100.5	99.2	99.2	98.2	99.6	99.9	99.4	99.6	99.6
Q3	99.5	105.1	99.7	98.5	100.6	100.1	100.2	100.1	101.0	100.3	99.8	100.2	100.2	100.2
Q4	100.1	97.0	101.0	100.9	101.2	100.7	103.1	101.9	102.8	100.8	100.0	101.0	101.1	101.1
2017 Q1	102.2	99.4	101.5	96.9	104.3	101.0	106.5	101.7	103.3	101.6	100.5	101.5	101.5	101.5
Q2	102.8	100.9	101.6	97.8	103.4	101.2	106.7	102.0	104.5	101.8	100.7	101.9	101.8	101.8
Q3	103.5	101.0	102.7	99.9	102.9	102.2	107.4	102.5	105.2	102.4	100.7	102.3	102.3	102.3
Q4	103.3	96.4	104.2	99.2	102.9	102.9	107.7	102.7	106.6	102.8	100.4	102.6	102.7	102.8
2018 Q1	101.1	100.8	103.9	100.3	100.9	103.0	106.1	103.1	106.8	103.3	100.5	103.0	102.8	102.8
Q2	100.2	103.4	103.4	96.5	101.5	102.4	106.7	104.9	108.1	103.6	100.6	103.6	103.2	103.2
Q3	100.1	105.7	103.6	98.1	103.1	103.0	108.6	106.0	110.0	103.9	100.9	104.2	103.9	103.9
Q4	100.8	104.8	102.8	96.6	102.2	102.2	108.0	106.3	110.8	104.3	101.5	104.7	104.1	104.1
2019 Q1	99.0	106.9	105.1	94.4	100.5	103.6	109.2	107.5	111.6	104.2	101.7	105.1	104.6	104.6
Percentage change, latest year on previous year														
	L3BB	L3BH	L3BN	L3DM	L3DQ	L3BG	L3DW	L3GP	KI8L	KI8N	KI8P	L3E2	KGM7	KLH8
2015	1.1	8.0	-	1.0	3.4	1.2	4.4	4.5	4.1	2.6	0.9	2.7	2.5	2.5
2016	-5.6	0.3	0.4	2.1	5.6	1.0	4.1	3.8	3.4	2.1	-	1.9	1.9	1.9
2017	3.0	-0.6	2.5	-1.6	3.4	1.8	7.1	2.2	4.9	2.2	0.6	2.1	2.1	2.1
2018	-2.3	4.3	0.9	-0.6	-1.4	0.8	0.3	2.8	3.8	1.6	0.3	1.7	1.4	1.4
Percentage change, latest quarter on previous quarter														
													KGM9	
2015 Q4	-1.7	-2.0	-0.2	-2.4	0.3	-0.6	1.5	1.0	0.6	0.7	0.3	0.6	0.5	0.5
2016 Q1	-3.7	-1.9	-0.1	2.1	1.8	0.1	0.3	1.1	0.4	0.5	-0.2	0.4	0.3	0.3
Q2	-1.1	2.2	1.2	4.6	2.8	1.8	1.7	0.5	0.2	0.3	-0.4	0.1	0.4	0.4
Q3	-0.2	5.1	-0.5	-3.9	0.1	-0.4	1.1	0.9	2.9	0.7	-0.1	0.8	0.6	0.6
Q4	0.6	-7.8	1.3	2.4	0.6	0.6	2.9	1.7	1.8	0.5	0.1	0.8	0.9	1.0
2017 Q1	2.1	2.6	0.5	-3.9	3.1	0.3	3.2	-0.2	0.4	0.8	0.5	0.5	0.4	0.4
Q2	0.6	1.5	0.1	0.9	-0.8	0.3	0.2	0.3	1.2	0.2	0.3	0.4	0.3	0.2
Q3	0.6	0.1	1.1	2.2	-0.5	1.0	0.7	0.5	0.7	0.6	-0.1	0.4	0.5	0.5
Q4	-0.1	-4.5	1.5	-0.8	-	0.6	0.3	0.2	1.3	0.4	-0.3	0.3	0.4	0.5
2018 Q1	-2.1	4.6	-0.3	1.1	-1.9	0.1	-1.5	0.3	0.2	0.5	0.1	0.3	-	-
Q2	-0.9	2.5	-0.5	-3.7	0.6	-0.6	0.5	1.7	1.2	0.2	0.1	0.6	0.4	0.4
Q3	-0.1	2.2	0.2	1.6	1.6	0.6	1.8	1.0	1.8	0.3	0.3	0.6	0.7	0.7
Q4	0.6	-0.8	-0.7	-1.5	-0.9	-0.8	-0.5	0.3	0.8	0.4	0.6	0.5	0.2	0.2
2019 Q1	-1.8	2.0	2.2	-2.3	-1.7	1.4	1.0	1.1	0.7	-	0.2	0.3	0.5	0.5
Percentage change, latest quarter on corresponding quarter of previous year														
	L3ZZ	L427	L42D	L44C	L44G	L426	L44M	L47F	KI12	KI19	KI18	L44Q	KGN3	KLH9
2015 Q4	-2.6	7.6	-1.1	-1.0	5.1	0.3	3.3	3.9	2.8	2.0	0.5	2.0	1.8	1.7
2016 Q1	-5.0	3.3	-1.1	-1.4	6.8	-0.1	2.5	3.9	2.6	2.1	0.8	2.1	1.8	1.7
Q2	-6.8	-2.5	0.5	5.0	5.4	1.0	3.0	3.2	1.8	2.0	-0.1	1.6	1.6	1.6
Q3	-6.5	3.3	0.4	0.1	5.1	0.9	4.7	3.7	4.0	2.1	-0.3	1.9	1.9	1.9
Q4	-4.3	-2.8	1.9	5.0	5.3	2.1	6.1	4.4	5.3	1.9	-0.5	2.1	2.3	2.3
2017 Q1	1.5	1.6	2.5	-1.2	6.7	2.3	9.2	3.0	5.4	2.3	0.2	2.2	2.4	2.4
Q2	3.2	0.9	1.4	-4.6	2.9	0.7	7.6	2.7	6.4	2.2	0.8	2.5	2.2	2.2
Q3	4.0	-4.0	3.0	1.4	2.3	2.2	7.1	2.4	4.2	2.1	0.8	2.1	2.1	2.1
Q4	3.2	-0.5	3.2	-1.7	1.7	2.2	4.5	0.8	3.7	2.0	0.4	1.6	1.6	1.6
2018 Q1	-1.0	1.4	2.3	3.5	-3.2	2.0	-0.3	1.4	3.4	1.7	-	1.4	1.2	1.2
Q2	-2.5	2.5	1.7	-1.3	-1.8	1.1	-	2.9	3.4	1.7	-0.1	1.6	1.4	1.4
Q3	-3.2	4.6	0.9	-1.9	0.2	0.8	1.2	3.4	4.5	1.4	0.3	1.9	1.6	1.5
Q4	-2.5	8.7	-1.3	-2.5	-0.7	-0.7	0.3	3.5	3.9	1.4	1.1	2.0	1.4	1.3
2019 Q1	-2.2	6.0	1.2	-5.9	-0.4	0.6	2.8	4.3	4.5	0.9	1.2	2.0	1.8	1.8

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	104	106	30	73	138	123	47	59	75	40	796
	L2NE	KI8M	L2NQ	L2O6	L2OC	L2OH	L2P8	L2PA	L2PC	L2Q5	L2NC
2015	95.8	96.7	98.5	96.6	99.4	97.2	101.8	100.6	98.4	100.2	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
2017	102.1	104.9	102.8	100.2	101.0	104.6	100.2	100.6	99.7	102.6	102.1
2018	105.0	108.9	105.4	98.5	102.0	108.8	101.2	100.9	100.2	101.6	103.9
Seasonally adjusted											
2015 Q4	96.9	97.7	100.4	97.1	100.3	98.3	101.1	101.0	99.4	101.2	98.9
2016 Q1	98.6	98.0	99.2	98.7	100.5	98.4	100.5	100.5	100.1	99.9	99.3
Q2	99.2	98.2	99.3	99.4	99.9	99.4	99.8	99.8	100.1	99.7	99.4
Q3	100.2	101.0	100.1	101.2	99.7	100.4	99.8	99.7	100.0	99.7	100.2
Q4	102.0	102.8	101.5	100.7	99.9	101.8	99.8	100.0	99.7	100.6	101.0
2017 Q1	101.4	103.3	102.7	101.2	100.5	103.1	99.8	100.9	99.7	102.0	101.5
Q2	101.8	104.5	102.6	100.5	101.0	103.4	100.3	100.5	100.0	103.1	101.9
Q3	102.4	105.2	102.9	99.9	101.3	105.1	100.1	100.5	99.7	103.4	102.3
Q4	102.7	106.6	102.8	99.3	101.3	106.6	100.5	100.4	99.6	101.8	102.6
2018 Q1	102.9	106.8	103.5	99.2	101.7	107.6	100.6	100.4	99.9	101.6	103.0
Q2	104.7	108.1	105.4	98.8	101.8	108.3	101.1	101.0	99.6	101.5	103.6
Q3	105.9	110.0	106.1	98.4	102.0	109.2	101.6	100.9	100.1	101.7	104.2
Q4	106.3	110.8	106.5	97.4	102.7	110.1	101.6	101.5	101.3	101.7	104.7
2019 Q1	107.5	111.6	107.4	97.1	103.0	109.8	101.7	101.9	101.6	101.8	105.1
Percentage change, latest year on previous year											
	L3E4	KI8L	L3EG	L3EU	L3F2	L3F7	L3FW	L3FY	L3G2	L3GT	L3E2
2015	4.5	4.1	4.8	-2.9	3.5	5.1	-1.9	1.7	1.5	2.0	2.7
2016	4.4	3.4	1.5	3.5	0.6	2.9	-1.8	-0.6	1.6	-0.2	1.9
2017	2.1	4.9	2.8	0.2	1.0	4.6	0.2	0.6	-0.3	2.6	2.1
2018	2.8	3.8	2.5	-1.8	1.0	4.1	1.0	0.4	0.5	-0.9	1.7
Percentage change, latest quarter on previous quarter											
2015 Q4	0.8	0.6	2.0	2.0	0.2	0.4	-0.2	0.2	0.4	0.9	0.6
2016 Q1	1.8	0.4	-1.2	1.7	0.1	0.1	-0.6	-0.5	0.8	-1.2	0.4
Q2	0.6	0.2	0.1	0.8	-0.5	0.9	-0.6	-0.7	-	-0.2	0.1
Q3	0.9	2.9	0.8	1.8	-0.2	1.0	-	-0.1	-0.1	-	0.8
Q4	1.8	1.8	1.4	-0.4	0.1	1.5	-	0.3	-0.3	0.9	0.8
2017 Q1	-0.6	0.4	1.2	0.5	0.6	1.3	-	0.9	-	1.4	0.5
Q2	0.4	1.2	-0.1	-0.7	0.6	0.3	0.4	-0.4	0.2	1.1	0.4
Q3	0.6	0.7	0.2	-0.6	0.3	1.6	-0.2	-	-0.3	0.3	0.4
Q4	0.3	1.3	-	-0.6	0.1	1.4	0.4	-0.1	-0.1	-1.5	0.3
2018 Q1	0.2	0.2	0.7	-	0.3	0.9	0.1	-	0.3	-0.2	0.3
Q2	1.7	1.2	1.8	-0.5	0.1	0.7	0.5	0.5	-0.3	-0.1	0.6
Q3	1.2	1.8	0.6	-0.4	0.2	0.8	0.6	-0.1	0.5	0.2	0.6
Q4	0.3	0.8	0.4	-1.0	0.7	0.8	-	0.6	1.3	-	0.5
2019 Q1	1.2	0.7	0.9	-0.4	0.3	-0.2	0.1	0.4	0.3	-	0.3
Percentage change, latest quarter on corresponding quarter of the previous year											
	L44S	KI12	L456	L45K	L45Q	L45V	L46M	L46O	L46Q	L47J	L44Q
2015 Q4	3.7	2.8	4.8	-2.6	3.4	3.2	-2.6	1.3	1.0	1.9	2.0
2016 Q1	4.5	2.6	1.9	0.2	2.5	3.0	-2.2	0.3	3.2	0.5	2.1
Q2	3.7	1.8	1.5	3.8	0.8	2.5	-2.3	-0.4	1.7	-0.1	1.6
Q3	4.2	4.0	1.7	6.3	-0.4	2.5	-1.4	-1.1	1.1	-0.6	1.9
Q4	5.3	5.3	1.1	3.8	-0.5	3.6	-1.2	-1.1	0.4	-0.6	2.1
2017 Q1	2.8	5.4	3.6	2.6	-	4.7	-0.6	0.4	-0.4	2.0	2.2
Q2	2.6	6.4	3.4	1.1	1.1	4.1	0.5	0.7	-0.1	3.4	2.5
Q3	2.3	4.2	2.8	-1.3	1.6	4.7	0.3	0.8	-0.4	3.7	2.1
Q4	0.7	3.7	1.4	-1.5	1.5	4.7	0.7	0.5	-0.2	1.2	1.6
2018 Q1	1.5	3.4	0.8	-1.9	1.2	4.4	0.8	-0.5	0.2	-0.4	1.4
Q2	2.9	3.4	2.7	-1.8	0.8	4.8	0.8	0.5	-0.4	-1.6	1.6
Q3	3.4	4.5	3.1	-1.5	0.7	3.9	1.5	0.4	0.4	-1.7	1.9
Q4	3.5	3.9	3.5	-1.8	1.3	3.2	1.1	1.0	1.8	-0.1	2.0
2019 Q1	4.4	4.5	3.7	-2.2	1.3	2.1	1.1	1.5	1.7	0.1	2.0

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 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	1 178 915	56 566	361 028	319 432	184 620	7 046	–	–164 1	922 823 519 610	2 442 433 546 594	–26 984	–	–	1 895 839	
2016	1 235 247	57 343	367 974	331 442	187 032	8 556	–	–151 2 000 411 556 961	2 557 372 587 848	–30 887	–	–	–	1 969 524	
2017	1 288 984	57 986	375 219	351 293	194 886	1 604	–	359 2 075 445 617 539	2 692 984 641 472	–23 933	–1 883	–	–	2 049 629	
2018	1 341 849	58 234	386 091	359 272	197 237	4 790	–	1 202 2 151 438 634 062	2 785 500 665 031	–30 969	–2 745	–	–	2 117 724	
Seasonally adjusted															
2015 Q4	299 266	14 166	90 443	80 509	46 409	1 359	–334	–1 676	484 067 130 438	614 505 136 731	–6 293	–	–	477 774	
2016 Q1	303 176	14 217	91 626	80 667	45 850	2 046	–84	295	492 027 131 401	623 428 138 102	–6 701	–	–	485 326	
Q2	306 925	14 287	91 550	82 434	46 690	1 712	–900	–1 196	495 712 136 044	631 756 142 262	–6 218	–	–	489 494	
Q3	310 953	14 371	92 032	83 994	47 583	3 500	1 981	2 620	507 470 138 462	645 932 152 202	–13 740	–	–	493 730	
Q4	314 193	14 468	92 766	84 347	46 909	1 298	–997	–1 870	505 202 151 054	656 256 155 282	–4 228	–	–	500 974	
2017 Q1	318 968	14 476	93 048	85 579	47 313	2 217	1 089	–588	513 700 151 463	665 163 158 146	–6 683	11	–	507 028	
Q2	320 806	14 510	93 403	87 658	48 614	–550	–1 609	210	516 037 153 044	669 081 160 009	–6 965	–203	–	508 869	
Q3	322 838	14 495	93 895	88 394	49 174	563	639	97	520 282 156 229	676 511 161 594	–5 365	–659	–	514 258	
Q4	326 372	14 505	94 873	89 662	49 785	–626	–119	640	525 426 156 803	682 229 161 723	–4 920	–1 032	–	519 474	
2018 Q1	330 889	14 545	95 596	89 481	49 497	–1 949	–1 622	319	528 881 155 345	684 226 160 568	–5 223	–767	–	522 891	
Q2	333 979	14 555	95 981	89 306	49 592	–381	–348	1 178	534 618 156 632	691 250 164 080	–7 448	–776	–	526 394	
Q3	336 985	14 552	96 736	90 295	49 147	2 672	–570	758	541 998 159 541	701 539 168 401	–8 860	–694	–	532 444	
Q4	339 996	14 582	97 778	90 190	49 001	4 448	2 540	–1 053	545 941 162 544	708 485 171 982	–9 438	–508	–	535 995	
2019 Q1	343 879	14 610	99 780	92 591	49 161	3 524	–678	5 781	560 165 161 178	721 343 179 515	–18 337	–668	–	541 160	
Percentage change, latest year on previous year															
	KG7	KGZ8	KH2C	KG6O	KG6N				KGX3	KH2O	KG7	KH3H		IHYM	
2015	3.2	0.5	1.1	4.5	5.1				2.6	–0.1	2.0	–0.6		2.8	
2016	4.8	1.4	1.9	3.8	1.3				4.0	7.2	4.7	7.5		3.9	
2017	4.4	1.1	2.0	6.0	4.2				3.8	10.9	5.3	9.1		4.1	
2018	4.1	0.4	2.9	2.3	1.2				3.7	2.7	3.4	3.7		3.3	
Percentage change, latest quarter on previous quarter															
	KG8	KGZ9	KH2D	KG6W	KG6V				KGX4	KH2P	KG8	KH3I		IHYN	
2015 Q4	1.1	0.2	–0.7	1.9	2.1				0.5	2.0	0.8	1.9		0.5	
2016 Q1	1.3	0.4	1.3	0.2	–1.2				1.6	0.7	1.5	1.0		1.6	
Q2	1.2	0.5	–0.1	2.2	1.8				0.7	3.5	1.3	3.0		0.9	
Q3	1.3	0.6	0.5	1.9	1.9				2.4	1.8	2.2	7.0		0.9	
Q4	1.0	0.7	0.8	0.4	–1.4				–0.4	9.1	1.6	2.0		1.5	
2017 Q1	1.5	0.1	0.3	1.5	0.9				1.7	0.3	1.4	1.8		1.2	
Q2	0.6	0.2	0.4	2.4	2.7				0.5	1.0	0.6	1.2		0.4	
Q3	0.6	–0.1	0.5	0.8	1.2				0.8	2.1	1.1	1.0		1.1	
Q4	1.1	0.1	1.0	1.4	1.2				1.0	0.4	0.8	0.1		1.0	
2018 Q1	1.4	0.3	0.8	–0.2	–0.6				0.7	–0.9	0.3	–0.7		0.7	
Q2	0.9	0.1	0.4	–0.2	0.2				1.1	0.8	1.0	2.2		0.7	
Q3	0.9	–	0.8	1.1	–0.9				1.4	1.9	1.5	2.6		1.1	
Q4	0.9	0.2	1.1	–0.1	–0.3				0.7	1.9	1.0	2.1		0.7	
2019 Q1	1.1	0.2	2.0	2.7	0.3				2.6	–0.8	1.8	4.4		1.0	
Percentage change, latest quarter on corresponding quarter of previous year															
	KG9	KH22	KH2E	KG76	KG75				KGX5	KH2Q	KG9	KH3J		IHYO	
2015 Q4	3.6	0.2	0.7	3.4	4.0				2.1	–1.0	1.4	–3.0		2.8	
2016 Q1	4.5	0.6	1.7	1.3	–1.2				3.2	0.9	2.7	–1.1		3.9	
Q2	4.6	1.1	2.4	2.7	0.8				3.2	3.8	3.4	4.6		3.0	
Q3	5.0	1.7	1.0	6.3	4.7				5.3	8.3	5.9	13.4		3.8	
Q4	5.0	2.1	2.6	4.8	1.1				4.4	15.8	6.8	13.6		4.9	
2017 Q1	5.2	1.8	1.6	6.1	3.2				4.4	15.3	6.7	14.5		4.5	
Q2	4.5	1.6	2.0	6.3	4.1				4.1	12.5	5.9	12.5		4.0	
Q3	3.8	0.9	2.0	5.2	3.3				2.5	12.8	4.7	6.2		4.2	
Q4	3.9	0.3	2.3	6.3	6.1				4.0	3.8	4.0	4.1		3.7	
2018 Q1	3.7	0.5	2.7	4.6	4.6				3.0	2.6	2.9	1.5		3.1	
Q2	4.1	0.3	2.8	1.9	2.0				3.6	2.3	3.3	2.5		3.4	
Q3	4.4	0.4	3.0	2.2	–0.1				4.2	2.1	3.7	4.2		3.5	
Q4	4.2	0.5	3.1	0.6	–1.6				3.9	3.7	3.8	6.3		3.2	
2019 Q1	3.9	0.4	4.4	3.5	–0.7				5.9	3.8	5.4	11.8		3.5	

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							Statistical discrepancy (expenditure)		Gross domestic product at market prices
Households	Non-profit institutions ²	General government ⁷	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	GIXS	ABMI			
ABJR	HAYO	NMRY	NPQT	NPGL	CAFU	DMUM	NPJR	YBIM	IKBK	ABMG	IKBL	IKBM	GIXS	ABMI		
2015	1 196 525	56 874	365 223	324 016	187 355	11 146	-1	953 172 551 228	2 504 151 569 120	-17 892	-	-	-	1 934 903		
2016	1 235 247	57 343	367 974	331 442	187 031	8 556	-	-151 2 000 411 556 961	2 557 372 587 848	-30 887	-	-	-	1 969 524		
2017	1 262 271	57 162	367 267	342 917	189 877	-2 377	-	291 2 027 531 588 217	2 615 748 608 487	-20 270	-1 834	-	-	2 005 427		
2018	1 284 838	56 392	368 587	343 498	189 047	5 353	-	1 025 2 059 693 588 900	2 648 593 612 501	-23 601	-2 637	-	-	2 033 455		
Seasonally adjusted																
2015 Q4	301 804	14 195	91 665	81 427	47 023	2 782	-345	-1 803	493 287 139 491	632 757 144 591	-5 100	-	-	488 153		
2016 Q1	305 101	14 251	92 044	81 415	46 221	1 881	-86	284	495 416 138 252	633 733 143 976	-5 724	-	-	489 736		
Q2	307 595	14 345	91 959	82 695	46 622	347	-903	-1 264	495 847 139 554	635 416 144 900	-5 346	-	-	490 502		
Q3	311 268	14 338	91 968	83 909	47 330	1 173	1 977	2 626	506 847 135 108	642 147 149 364	-14 256	-	-	492 816		
Q4	311 283	14 409	92 003	83 423	46 858	5 155	-988	-1 797	502 301 144 047	646 076 149 608	-5 561	-	-	496 470		
2017 Q1	313 584	14 351	91 427	84 265	46 762	2 121	1 070	-561	505 187 144 273	649 460 150 889	-6 616	11	-	498 582		
Q2	314 804	14 334	91 876	85 868	47 365	-784	-1 580	175	506 273 146 067	652 340 152 256	-6 189	-199	-	499 885		
Q3	316 397	14 248	91 969	86 111	47 779	-1 464	625	96	507 357 148 859	656 216 153 099	-4 240	-644	-	502 473		
Q4	317 486	14 229	91 995	86 673	47 971	-2 250	-115	581	508 714 149 018	657 732 152 243	-3 225	-1 002	-	504 487		
2018 Q1	319 051	14 203	92 152	85 998	47 668	-1 878	-1 561	267	509 793 147 073	656 866 151 341	-4 268	-740	-	504 785		
Q2	320 805	14 121	91 790	85 521	47 459	580	-329	1 058	513 875 145 654	659 529 151 940	-6 286	-747	-	506 842		
Q3	322 015	14 045	91 726	86 267	47 171	2 410	-540	663	517 126 146 903	664 029 153 018	-6 115	-665	-	510 346		
Q4	322 967	14 023	92 919	85 712	46 749	4 241	2 430	-963	518 899 149 270	668 169 156 202	-6 932	-485	-	511 482		
2019 Q1	325 133	13 949	94 208	87 495	46 999	4 600	-641	6 778	532 163 149 332	681 495 166 842	-17 510	-634	-	514 019		
Percentage change, latest year on previous year																
	KGZ5	KH26	KH2I	KG7N	KG7M			KGX9	KH2U	KGW5	KH3N			IHP		
2015	2.7	-0.3	1.4	3.4	3.7			2.7	4.4	3.1	5.5			2.3		
2016	3.2	0.8	0.8	2.3	-0.2			2.4	1.0	2.1	3.3			1.8		
2017	2.2	-0.3	-0.2	3.5	1.5			1.4	5.6	2.3	3.5			1.8		
2018	1.8	-1.3	0.4	0.2	-0.4			1.6	0.1	1.3	0.7			1.4		
Percentage change, latest quarter on previous quarter																
	KGZ6	KH27	KH2J	KG7Q	KG7P			KGY2	KH2V	KGW6	KH3O			IHYQ		
2015 Q4	0.1	0.2	-0.2	1.8	2.3			1.0	2.0	1.2	2.7			0.7		
2016 Q1	1.1	0.4	0.4	-	-1.7			0.4	-0.9	0.2	-0.4			0.3		
Q2	0.8	0.7	-0.1	1.6	0.9			0.1	0.9	0.3	0.6			0.2		
Q3	1.2	-	-	1.5	1.5			2.2	-3.2	1.1	3.1			0.5		
Q4	-	0.5	-	-0.6	-1.0			-0.9	6.6	0.6	0.2			0.7		
2017 Q1	0.7	-0.4	-0.6	1.0	-0.2			0.6	0.2	0.5	0.9			0.4		
Q2	0.4	-0.1	0.5	1.9	1.3			0.2	1.2	0.4	0.9			0.3		
Q3	0.5	-0.6	0.1	0.3	0.9			0.2	1.9	0.6	0.6			0.5		
Q4	0.3	-0.1	-	0.7	0.4			0.3	0.1	0.2	-0.6			0.4		
2018 Q1	0.5	-0.2	0.2	-0.8	-0.6			0.2	-1.3	-0.1	-0.6			0.1		
Q2	0.5	-0.6	-0.4	-0.6	-0.4			0.8	-1.0	0.4	0.4			0.4		
Q3	0.4	-0.5	-0.1	0.9	-0.6			0.6	0.9	0.7	0.7			0.7		
Q4	0.3	-0.2	1.3	-0.6	-0.9			0.3	1.6	0.6	2.1			0.2		
2019 Q1	0.7	-0.5	1.4	2.1	0.5			2.6	-	2.0	6.8			0.5		
Percentage change, latest quarter on corresponding quarter of previous year																
	KGZ7	KH28	KH2K	KG7T	KG7S			KGY3	KH2W	KGW7	KH3P			IHYR		
2015 Q4	2.8	-0.1	1.8	2.5	2.9			2.2	3.1	2.4	3.0			2.2		
2016 Q1	3.3	0.2	1.7	0.8	-2.1			1.9	1.0	1.7	0.4			2.1		
Q2	3.3	0.4	0.7	1.1	-1.1			2.3	1.1	2.0	3.2			1.7		
Q3	3.2	1.2	0.2	4.9	2.9			3.7	-1.2	2.7	6.1			1.7		
Q4	3.1	1.5	0.4	2.5	-0.4			1.8	3.3	2.1	3.5			1.7		
2017 Q1	2.8	0.7	-0.7	3.5	1.2			2.0	4.4	2.5	4.8			1.8		
Q2	2.3	-0.1	-0.1	3.8	1.6			2.1	4.7	2.7	5.1			1.9		
Q3	1.6	-0.6	-	2.6	0.9			0.1	10.2	2.2	2.5			-2.0		
Q4	2.0	-1.2	-	3.9	2.4			1.3	3.5	1.8	1.8			1.6		
2018 Q1	1.7	-1.0	0.8	2.1	1.9			0.9	1.9	1.1	0.3			1.2		
Q2	1.9	-1.5	-0.1	-0.4	0.2			1.5	-0.3	1.1	-0.2			1.4		
Q3	1.8	-1.4	-0.3	0.2	-1.3			1.9	-1.3	1.2	-0.1			1.6		
Q4	1.7	-1.4	1.0	-1.1	-2.5			2.0	0.2	1.6	2.6			1.4		
2019 Q1	1.9	-1.8	2.2	1.7	-1.4			4.4	1.5	3.7	10.2			1.8		

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.

7 An error was discovered in the General Government Final Consumption Expenditure CVM figures during quality assurance. The most significant quarterly growth error is in 2005Q2 increasing growth by 2.3%. Figures in current prices are unaffected and the CVM data will be corrected in Blue Book 2019, the next time 2005 data are open to revision.

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	773 363	155 096	928 459	413 869	–	322 906	1 665 234	230 605	–	1 895 839
2016	798 583	164 823	963 406	432 307	–	333 887	1 729 600	239 924	–	1 969 524
2017	829 346	174 591	1 003 937	448 236	–	338 295	1 790 468	251 970	7 191	2 049 629
2018	867 319	179 048	1 046 367	448 822	–	353 296	1 848 485	259 129	10 110	2 117 724
Seasonally adjusted										
2015 Q4	195 933	39 251	235 184	101 675	–867	82 382	419 241	58 533	–	477 774
2016 Q1	194 390	38 932	233 322	110 376	1 912	82 608	426 306	59 020	–	485 326
Q2	199 228	41 170	240 398	105 406	–1 681	83 888	429 692	59 802	–	489 494
Q3	202 897	42 169	245 066	104 992	–1 987	83 782	433 840	59 890	–	493 730
Q4	202 068	42 552	244 620	111 533	1 756	83 609	439 762	61 212	–	500 974
2017 Q1	203 342	43 333	246 675	114 042	2 574	84 194	444 911	61 030	1 087	507 028
Q2	206 616	43 784	250 400	109 562	–2 507	84 423	444 385	62 825	1 659	508 869
Q3	208 053	44 102	252 155	111 158	–689	84 587	447 900	64 252	2 106	514 258
Q4	211 335	43 372	254 707	113 474	622	85 091	453 272	63 863	2 339	519 474
2018 Q1	213 771	43 416	257 187	113 563	1 886	86 433	457 183	63 170	2 538	522 891
Q2	214 852	44 717	259 569	110 719	–1 637	87 745	458 033	65 786	2 575	526 394
Q3	218 083	45 650	263 733	112 032	–703	88 941	464 706	65 192	2 546	532 444
Q4	220 613	45 265	265 878	112 508	454	90 177	468 563	64 981	2 451	535 995
2019 Q1	222 364	45 825	268 189	115 312	1 906	91 175	474 676	63 858	2 626	541 160
Percentage change, latest year on previous year										
	CWNH	CWNE	KG13	KH4V		KH6T	KH6N	KH65		IHYM
2015	3.6	1.0	3.2	–0.1		5.6	2.8	2.8		2.8
2016	3.3	6.3	3.8	4.5		3.4	3.9	4.0		3.9
2017	3.9	5.9	4.2	3.7		1.3	3.5	5.0		4.1
2018	4.6	2.6	4.2	0.1		4.4	3.2	2.8		3.3
Percentage change, latest quarter on previous quarter										
	CWNI	CWNI	KG14	KH4W		KH6U	KH6O	KH66		IHYN
2015 Q4	0.2	1.5	0.4	0.7		0.6	0.5	0.1		0.5
2016 Q1	–0.8	–0.8	–0.8	8.6		0.3	1.7	0.8		1.6
Q2	2.5	5.7	3.0	–4.5		1.5	0.8	1.3		0.9
Q3	1.8	2.4	1.9	–0.4		–0.1	1.0	0.1		0.9
Q4	–0.4	0.9	–0.2	6.2		–0.2	1.4	2.2		1.5
2017 Q1	0.6	1.8	0.8	2.2		0.7	1.2	–0.3		1.2
Q2	1.6	1.0	1.5	–3.9		0.3	–0.1	2.9		0.4
Q3	0.7	0.7	0.7	1.5		0.2	0.8	2.3		1.1
Q4	1.6	–1.7	1.0	2.1		0.6	1.2	–0.6		1.0
2018 Q1	1.2	0.1	1.0	0.1		1.6	0.9	–1.1		0.7
Q2	0.5	3.0	0.9	–2.5		1.5	0.2	4.1		0.7
Q3	1.5	2.1	1.6	1.2		1.4	1.5	–0.9		1.1
Q4	1.2	–0.8	0.8	0.4		1.4	0.8	–0.3		0.7
2019 Q1	0.8	1.2	0.9	2.5		1.1	1.3	–1.7		1.0
Percentage change, latest quarter on corresponding quarter of previous year										
	CWNJ	CWNG	KG15	KH4X		KH6V	KH6P	KH67		IHYO
2015 Q4	3.5	2.8	3.4	–1.2		6.1	2.7	2.9		2.8
2016 Q1	2.3	1.6	2.2	5.7		5.2	3.7	5.4		3.9
Q2	3.8	6.0	4.2	–1.2		4.6	2.9	3.9		3.0
Q3	3.8	9.1	4.6	3.9		2.4	4.0	2.4		3.8
Q4	3.1	8.4	4.0	9.7		1.5	4.9	4.6		4.9
2017 Q1	4.6	11.3	5.7	3.3		1.9	4.4	3.4		4.5
Q2	3.7	6.3	4.2	3.9		0.6	3.4	5.1		4.0
Q3	2.5	4.6	2.9	5.9		1.0	3.2	7.3		4.2
Q4	4.6	1.9	4.1	1.7		1.8	3.1	4.3		3.7
2018 Q1	5.1	0.2	4.3	–0.4		2.7	2.8	3.5		3.1
Q2	4.0	2.1	3.7	1.1		3.9	3.1	4.7		3.4
Q3	4.8	3.5	4.6	0.8		5.1	3.8	1.5		3.5
Q4	4.4	4.4	4.4	–0.9		6.0	3.4	1.8		3.2
2019 Q1	4.0	5.5	4.3	1.5		5.5	3.8	1.1		3.5

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				Transport equipment	ICT equipment and other machinery and equipment ³	Dwellings ⁴	Other buildings and structures ⁵	Intellectual Property Products	Total
	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							
2015	NPEK 184 620	RPZG 50 998	L62R 8 128	L62S 687	L62T 59 817	L62U 15 181	NPQS 319 432	TLPX 22 382	TLPW 62 290	GGAE 67 946	EQED 107 618	TLPK 59 195	NPQS 319 432	
2016	187 032	52 100	8 403	726	66 169	17 013	331 442	25 856	61 628	74 573	108 718	60 669	331 442	
2017	194 886	55 093	8 412	773	73 987	18 142	351 293	22 768	66 065	82 400	117 206	62 854	351 293	
2018	197 237	57 252	4 525	762	81 640	17 856	359 272	20 427	65 243	86 164	121 653	65 785	359 272	
Seasonally adjusted														
2015 Q4	46 409	12 294	1 989	176	15 533	4 109	80 509	5 351	15 870	17 521	26 897	14 868	80 509	
2016 Q1	45 850	12 128	2 046	150	15 969	4 525	80 667	6 286	14 902	18 015	26 514	14 950	80 667	
Q2	46 690	13 111	2 104	229	16 209	4 091	82 434	6 347	15 804	18 313	26 820	15 150	82 434	
Q3	47 583	13 460	2 115	168	16 623	4 045	83 994	7 169	15 346	18 738	27 534	15 208	83 994	
Q4	46 909	13 401	2 138	179	17 368	4 352	84 347	6 054	15 576	19 507	27 850	15 361	84 347	
2017 Q1	47 313	13 404	2 169	165	18 017	4 511	85 579	5 862	15 446	20 203	28 938	15 130	85 579	
Q2	48 614	13 995	2 317	223	18 050	4 459	87 658	6 119	16 666	20 346	29 009	15 518	87 658	
Q3	49 174	13 793	2 164	195	18 453	4 615	88 394	5 650	16 658	20 591	29 594	15 901	88 394	
Q4	49 785	13 901	1 762	190	19 467	4 557	89 662	5 137	17 295	21 260	29 665	16 305	89 662	
2018 Q1	49 497	14 033	1 397	172	19 873	4 509	89 481	5 716	16 565	21 269	29 526	16 405	89 481	
Q2	49 592	13 698	1 012	211	20 440	4 353	89 306	5 248	16 300	21 452	29 779	16 527	89 306	
Q3	49 147	14 667	1 077	191	20 735	4 478	90 295	4 703	16 423	21 812	30 901	16 456	90 295	
Q4	49 001	14 854	1 039	188	20 592	4 516	90 190	4 760	15 955	21 631	31 447	16 397	90 190	
2019 Q1	49 161	16 529	1 282	180	20 926	4 513	92 591	4 334	17 082	22 207	32 181	16 787	92 591	
Percentage change, latest year on previous year														
	KG6N	KH7N	L64E	L64H	L64K	L64N	KG6O	KG6T	KG6S	KH7X	KH7W	KG6R	KG6O	
2015	5.1	0.4	-2.0	4.7	8.1	0.8	4.5	36.1	-0.3	6.8	4.9	-2.3	4.5	
2016	1.3	2.2	3.4	5.7	10.6	12.1	3.8	15.5	-1.1	9.8	1.0	2.5	3.8	
2017	4.2	5.7	0.1	6.5	11.8	6.6	6.0	-11.9	7.2	10.5	7.8	3.6	6.0	
2018	1.2	3.9	-46.2	-1.4	10.3	-1.6	2.3	-10.3	-1.2	4.6	3.8	4.7	2.3	
Percentage change, latest quarter on previous quarter														
	KG6V	KH7P	L64F	L64I	L64L	L64O	KG6W	KG73	KG72	KH83	KH82	KG6Z	KG6W	
2015 Q4	2.1	-0.5	-3.2	-0.6	3.2	4.4	1.9	10.0	3.1	2.4	0.5	-0.2	1.9	
2016 Q1	-1.2	-1.4	2.9	-14.8	2.8	10.1	0.2	17.5	-6.1	2.8	-1.4	0.6	0.2	
Q2	1.8	8.1	2.8	52.7	1.5	-9.6	2.2	1.0	6.1	1.7	1.2	1.3	2.2	
Q3	1.9	2.7	0.5	-26.6	2.6	-1.1	1.9	13.0	-2.9	2.3	2.7	0.4	1.9	
Q4	-1.4	-0.4	1.1	6.5	4.5	7.6	0.4	-15.6	1.5	4.1	1.1	1.0	0.4	
2017 Q1	0.9	-	1.4	-7.8	3.7	3.7	1.5	-3.2	-0.8	3.6	3.9	-1.5	1.5	
Q2	2.7	4.4	6.8	35.2	0.2	-1.2	2.4	4.4	7.9	0.7	0.2	2.6	2.4	
Q3	1.2	-1.4	-6.6	-12.6	2.2	3.5	0.8	-7.7	-	1.2	2.0	2.5	0.8	
Q4	1.2	0.8	-18.6	-2.6	5.5	-1.3	1.4	-9.1	3.8	3.2	0.2	2.5	1.4	
2018 Q1	-0.6	0.9	-20.7	-9.5	2.1	-1.1	-0.2	11.3	-4.2	-	-0.5	0.6	-0.2	
Q2	0.2	-2.4	-27.6	22.7	2.9	-3.5	-0.2	-8.2	-1.6	0.9	0.9	0.7	-0.2	
Q3	-0.9	7.1	6.4	-9.5	1.4	2.9	1.1	-10.4	0.8	1.7	3.8	-0.4	1.1	
Q4	-0.3	1.3	-3.5	-1.6	-0.7	0.8	-0.1	1.2	-2.8	-0.8	1.8	-0.4	-0.1	
2019 Q1	0.3	11.3	23.4	-4.3	1.6	-0.1	2.7	-8.9	7.1	2.7	2.3	2.4	2.7	
Percentage change, latest quarter on corresponding quarter of previous year														
	KG75	KH7R	L64G	L64J	L64M	L64P	KG76	KG7B	KG7A	KH87	KH86	KG79	KG76	
2015 Q4	4.0	-5.5	-10.2	5.4	10.6	9.6	3.4	25.2	-0.3	7.8	3.2	-3.0	3.4	
2016 Q1	-1.2	-9.1	-7.2	-16.2	13.4	34.0	1.3	-5.8	-3.0	10.6	-1.4	3.8	1.3	
Q2	0.8	0.8	11.9	47.7	7.0	8.8	2.7	15.6	0.9	7.5	-0.9	0.8	2.7	
Q3	4.7	8.9	2.9	-5.1	10.5	2.8	6.3	47.3	-0.3	9.6	2.9	2.1	6.3	
Q4	1.1	9.0	7.5	1.7	11.8	5.9	4.8	13.1	-1.9	11.3	3.5	3.3	4.8	
2017 Q1	3.2	10.5	6.0	10.0	12.8	-0.3	6.1	-6.7	3.7	12.1	9.1	1.2	6.1	
Q2	4.1	6.7	10.1	-2.6	11.4	9.0	6.3	-3.6	5.5	11.1	8.2	2.4	6.3	
Q3	3.3	2.5	2.3	16.1	11.0	14.1	5.2	-21.2	8.5	9.9	7.5	4.6	5.2	
Q4	6.1	3.7	-17.6	6.1	12.1	4.7	6.3	-15.1	11.0	9.0	6.5	6.1	6.3	
2018 Q1	4.6	4.7	-35.6	4.2	10.3	-	4.6	-2.5	7.2	5.3	2.0	8.4	4.6	
Q2	2.0	-2.1	-56.3	-5.4	13.2	-2.4	1.9	-14.2	-2.2	5.4	2.7	6.5	1.9	
Q3	-0.1	6.3	-50.2	-2.1	12.4	-3.0	2.2	-16.8	-1.4	5.9	4.4	3.5	2.2	
Q4	-1.6	6.9	-41.0	-1.1	5.8	-0.9	0.6	-7.3	-7.7	1.7	6.0	0.6	0.6	
2019 Q1	-0.7	17.8	-8.2	4.7	5.3	0.1	3.5	-24.2	3.1	4.4	9.0	2.3	3.5	

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				Transport equipment	ICT equipment and other machinery and equipment ³	Dwellings ⁴	Other buildings and structures ⁵	Intellectual Property Products	Total
	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	NPQT							
	NPEL	DLWF	L634	L635	L636	L637	NPQT	DLWL	DLWO	DFEG	DLWT	EQDO	NPQT	
2015	187 355	51 660	8 241	694	60 677	15 347	324 016	21 785	64 208	68 917	109 223	60 130	324 016	
2016	187 031	52 100	8 404	726	66 170	17 013	331 442	25 854	61 628	74 572	108 718	60 669	331 442	
2017	189 877	54 029	8 202	767	72 053	17 990	342 917	23 250	61 854	80 255	115 143	62 415	342 917	
2018	189 047	54 861	4 279	738	77 262	17 311	343 498	19 790	61 445	81 542	116 329	64 392	343 498	
Seasonally adjusted														
2015 Q4	47 023	12 390	2 008	177	15 687	4 140	81 427	5 185	16 444	17 694	27 135	15 063	81 427	
2016 Q1	46 221	12 243	2 062	150	16 191	4 543	81 415	6 230	15 135	18 253	26 771	15 042	81 415	
Q2	46 622	13 277	2 110	229	16 369	4 095	82 695	6 272	15 744	18 478	27 040	15 176	82 695	
Q3	47 330	13 605	2 109	168	16 674	4 024	83 909	7 151	15 167	18 783	27 600	15 174	83 909	
Q4	46 858	12 975	2 123	179	16 936	4 351	83 423	6 201	15 582	19 058	27 307	15 277	83 423	
2017 Q1	46 762	12 921	2 161	165	17 733	4 524	84 265	6 171	14 807	19 774	28 415	15 098	84 265	
Q2	47 365	13 892	2 267	222	17 673	4 449	85 868	6 280	15 616	19 890	28 675	15 407	85 868	
Q3	47 779	13 631	2 078	193	17 889	4 541	86 111	5 719	15 535	20 057	29 038	15 762	86 111	
Q4	47 971	13 585	1 696	187	18 758	4 476	86 673	5 080	15 896	20 534	29 015	16 148	86 673	
2018 Q1	47 668	13 369	1 335	167	19 039	4 420	85 998	5 555	15 406	20 374	28 544	16 119	85 998	
Q2	47 459	13 248	960	204	19 427	4 223	85 521	5 078	15 390	20 388	28 598	16 067	85 521	
Q3	47 171	14 084	1 011	185	19 496	4 320	86 267	4 582	15 533	20 507	29 523	16 122	86 267	
Q4	46 749	14 160	973	182	19 300	4 348	85 712	4 575	15 116	20 273	29 664	16 084	85 712	
2019 Q1	46 999	15 300	1 191	172	19 504	4 329	87 495	4 103	16 112	20 695	30 245	16 340	87 495	
Percentage change, latest year on previous year														
	KG7M	KH9J	L64T	L64W	L654	L64Z	KG7N	KH95	KH96	KH8Y	KH97	KH98	KG7N	
2015	3.7	-0.7	-2.2	3.4	7.8	-0.4	3.4	37.1	-3.8	6.5	4.2	-3.1	3.4	
2016	-0.2	0.9	2.0	4.6	9.1	10.9	2.3	18.7	-4.0	8.2	-0.5	0.9	2.3	
2017	1.5	3.7	-2.4	5.6	8.9	5.7	3.5	-10.1	0.4	7.6	5.9	2.9	3.5	
2018	-0.4	1.5	-47.8	-3.8	7.2	-3.8	0.2	-14.9	-0.7	1.6	1.0	3.2	0.2	
Percentage change, latest quarter on previous quarter														
	KG7P	KH9C	L64U	L64X	L655	L652	KG7Q	KH9F	KH9G	KH9A	KH9H	KH9I	KG7Q	
2015 Q4	2.3	-1.4	-3.5	-0.6	3.0	4.4	1.8	8.7	4.3	2.2	-	-0.3	1.8	
2016 Q1	-1.7	-1.2	2.7	-15.3	3.2	9.7	-	20.2	-8.0	3.2	-1.3	-0.1	-	
Q2	0.9	8.4	2.3	52.7	1.1	-9.9	1.6	0.7	4.0	1.2	1.0	0.9	1.6	
Q3	1.5	2.5	-	-26.6	1.9	-1.7	1.5	14.0	-3.7	1.7	2.1	-	1.5	
Q4	-1.0	-4.6	0.7	6.5	1.6	8.1	-0.6	-13.3	2.7	1.5	-1.1	0.7	-0.6	
2017 Q1	-0.2	-0.4	1.8	-7.8	4.7	4.0	1.0	-0.5	-5.0	3.8	4.1	-1.2	1.0	
Q2	1.3	7.5	4.9	34.5	-0.3	-1.7	1.9	1.8	5.5	0.6	0.9	2.0	1.9	
Q3	0.9	-1.9	-8.3	-13.1	1.2	2.1	0.3	-8.9	-0.5	0.8	1.3	2.3	0.3	
Q4	0.4	-0.3	-18.4	-3.1	4.9	-1.4	0.7	-11.2	2.3	2.4	-0.1	2.4	0.7	
2018 Q1	-0.6	-1.6	-21.3	-10.7	1.5	-1.3	-0.8	9.4	-3.1	-0.8	-1.6	-0.2	-0.8	
Q2	-0.4	-0.9	-28.1	22.2	2.0	-4.5	-0.6	-8.6	-0.1	0.1	0.2	-0.3	-0.6	
Q3	-0.6	6.3	5.3	-9.3	0.4	2.3	0.9	-9.8	0.9	0.6	3.2	0.3	0.9	
Q4	-0.9	0.5	-3.8	-1.6	-1.0	0.6	-0.6	-0.2	-2.7	-1.1	0.5	-0.2	-0.6	
2019 Q1	0.5	8.1	22.4	-5.5	1.1	-0.4	2.1	-10.3	6.6	2.1	2.0	1.6	2.1	
Percentage change, latest quarter on corresponding quarter of previous year														
	KG7S	KH9M	L64V	L64Y	L656	L653	KG7T	KH9P	KH9Q	KH9K	KH9R	KH9S	KG7T	
2015 Q4	2.9	-6.2	-10.6	3.5	10.0	8.3	2.5	22.8	-1.1	7.1	2.3	-4.0	2.5	
2016 Q1	-2.1	-8.7	-8.0	-17.6	13.0	32.5	0.8	-2.0	-4.9	10.1	-1.8	2.5	0.8	
Q2	-1.1	-0.2	10.4	45.9	6.1	7.4	1.1	14.6	-2.1	6.6	-2.3	-0.6	1.1	
Q3	2.9	8.3	1.4	-5.6	9.4	1.5	4.9	49.9	-3.8	8.5	1.7	0.4	4.9	
Q4	-0.4	4.7	5.7	1.1	8.0	5.1	2.5	19.6	-5.2	7.7	0.6	1.4	2.5	
2017 Q1	1.2	5.5	4.8	10.0	9.5	-0.4	3.5	-0.9	-2.2	8.3	6.1	0.4	3.5	
Q2	1.6	4.6	7.4	-3.1	8.0	8.6	3.8	0.1	-0.8	7.6	6.0	1.5	3.8	
Q3	0.9	0.2	-1.5	14.9	7.3	12.8	2.6	-20.0	2.4	6.8	5.2	3.9	2.6	
Q4	2.4	4.7	-20.1	4.5	10.8	2.9	3.9	-18.1	2.0	7.7	6.3	5.7	3.9	
2018 Q1	1.9	3.5	-38.2	1.2	7.4	-2.3	2.1	-10.0	4.0	3.0	0.5	6.8	2.1	
Q2	0.2	-4.6	-57.7	-8.1	9.9	-5.1	-0.4	-19.1	-1.4	2.5	-0.3	4.3	-0.4	
Q3	-1.3	3.3	-51.3	-4.1	9.0	-4.9	0.2	-19.9	-	2.2	1.7	2.3	0.2	
Q4	-2.5	4.2	-42.6	-2.7	2.9	-2.9	-1.1	-9.9	-4.9	-1.3	2.2	-0.4	-1.1	
2019 Q1	-1.4	14.4	-10.8	3.0	2.4	-2.1	1.7	-26.1	4.6	1.6	6.0	1.4	1.7	

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	286 752	232 858	519 610	404 562	142 032	546 594	-117 810	90 826	-26 984
2016	299 073	257 888	556 961	431 725	156 123	587 848	-132 652	101 765	-30 887
2017	338 739	278 800	617 539	475 774	165 698	641 472	-137 035	113 102	-23 933
2018	350 651	283 411	634 062	488 744	176 287	665 031	-138 093	107 124	-30 969
Seasonally adjusted									
2015 Q4	70 804	59 634	130 438	100 274	36 457	136 731	-29 470	23 177	-6 293
2016 Q1	70 403	60 998	131 401	101 443	36 659	138 102	-31 040	24 339	-6 701
Q2	73 778	62 266	136 044	104 321	37 941	142 262	-30 543	24 325	-6 218
Q3	74 148	64 314	138 462	112 681	39 521	152 202	-38 533	24 793	-13 740
Q4	80 744	70 310	151 054	113 280	42 002	155 282	-32 536	28 308	-4 228
2017 Q1	83 015	68 448	151 463	117 141	41 005	158 146	-34 126	27 443	-6 683
Q2	84 136	68 908	153 044	118 563	41 446	160 009	-34 427	27 462	-6 965
Q3	86 140	70 089	156 229	120 002	41 592	161 594	-33 862	28 497	-5 365
Q4	85 448	71 355	156 803	120 068	41 655	161 723	-34 620	29 700	-4 920
2018 Q1	85 966	69 379	155 345	118 075	42 493	160 568	-32 109	26 886	-5 223
Q2	86 371	70 261	156 632	120 619	43 461	164 080	-34 248	26 800	-7 448
Q3	89 366	70 175	159 541	124 183	44 218	168 401	-34 817	25 957	-8 860
Q4	88 948	73 596	162 544	125 867	46 115	171 982	-36 919	27 481	-9 438
2019 Q1	91 449	69 729	161 178	134 794	44 721	179 515	-43 345	25 008	-18 337
Percentage change, latest year on previous year									
	KG9K	KH35	KH2O	KG9L	KH3W	KH3H			
2015	-2.2	2.5	-0.1	-2.6	5.4	-0.6			
2016	4.3	10.7	7.2	6.7	9.9	7.5			
2017	13.3	8.1	10.9	10.2	6.1	9.1			
2018	3.5	1.7	2.7	2.7	6.4	3.7			
Percentage change, latest quarter on previous quarter									
	KG9O	KH36	KH2P	KG9P	KH3X	KH3I			
2015 Q4	0.3	4.0	2.0	1.7	2.5	1.9			
2016 Q1	-0.6	2.3	0.7	1.2	0.6	1.0			
Q2	4.8	2.1	3.5	2.8	3.5	3.0			
Q3	0.5	3.3	1.8	8.0	4.2	7.0			
Q4	8.9	9.3	9.1	0.5	6.3	2.0			
2017 Q1	2.8	-2.6	0.3	3.4	-2.4	1.8			
Q2	1.4	0.7	1.0	1.2	1.1	1.2			
Q3	2.4	1.7	2.1	1.2	0.4	1.0			
Q4	-0.8	1.8	0.4	0.1	0.2	0.1			
2018 Q1	0.6	-2.8	-0.9	-1.7	2.0	-0.7			
Q2	0.5	1.3	0.8	2.2	2.3	2.2			
Q3	3.5	-0.1	1.9	3.0	1.7	2.6			
Q4	-0.5	4.9	1.9	1.4	4.3	2.1			
2019 Q1	2.8	-5.3	-0.8	7.1	-3.0	4.4			
Percentage change, latest quarter on corresponding quarter of previous year									
	KG9S	KH37	KH2Q	KG9T	KH3Y	KH3J			
2015 Q4	-3.7	2.3	-1.0	-6.6	8.6	-3.0			
2016 Q1	-1.8	4.2	0.9	-3.6	6.3	-1.1			
Q2	0.1	8.6	3.8	3.8	6.8	4.6			
Q3	5.1	12.2	8.3	14.3	11.1	13.4			
Q4	14.0	17.9	15.8	13.0	15.2	13.6			
2017 Q1	17.9	12.2	15.3	15.5	11.9	14.5			
Q2	14.0	10.7	12.5	13.7	9.2	12.5			
Q3	16.2	9.0	12.8	6.5	5.2	6.2			
Q4	5.8	1.5	3.8	6.0	-0.8	4.1			
2018 Q1	3.6	1.4	2.6	0.8	3.6	1.5			
Q2	2.7	2.0	2.3	1.7	4.9	2.5			
Q3	3.7	0.1	2.1	3.5	6.3	4.2			
Q4	4.1	3.1	3.7	4.8	10.7	6.3			
2019 Q1	6.4	0.5	3.8	14.2	5.2	11.8			

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	302 991	248 177	551 228	415 878	153 347	569 120	-17 892
2016	299 073	257 888	556 961	431 725	156 123	587 848	-30 887
2017	319 033	269 184	588 217	450 747	157 740	608 487	-20 270
2018	318 700	270 200	588 900	448 265	164 236	612 501	-23 601
Seasonally adjusted							
2015 Q4	76 519	63 059	139 491	105 107	39 554	144 591	-5 100
2016 Q1	74 823	63 507	138 252	105 537	38 438	143 976	-5 724
Q2	75 463	64 171	139 554	106 066	38 837	144 900	-5 346
Q3	72 300	62 781	135 108	110 687	38 673	149 364	-14 256
Q4	76 487	67 429	144 047	109 435	40 175	149 608	-5 561
2017 Q1	77 953	66 320	144 273	111 703	39 186	150 889	-6 616
Q2	79 606	66 461	146 067	112 805	39 451	152 256	-6 189
Q3	81 852	67 007	148 859	113 601	39 498	153 099	-4 240
Q4	79 622	69 396	149 018	112 638	39 605	152 243	-3 225
2018 Q1	80 149	66 924	147 073	111 273	40 068	151 341	-4 268
Q2	78 616	67 038	145 654	111 271	40 669	151 940	-6 286
Q3	80 560	66 343	146 903	111 970	41 048	153 018	-6 115
Q4	79 375	69 895	149 270	113 751	42 451	156 202	-6 932
2019 Q1	82 950	66 382	149 332	126 275	40 567	166 842	-17 510
Percentage change, latest year on previous year							
	KG9X	KH3B	KH2U	KG9W	KH44	KH3N	
2015	6.7	1.6	4.4	4.4	8.9	5.5	
2016	-1.3	3.9	1.0	3.8	1.8	3.3	
2017	6.7	4.4	5.6	4.4	1.0	3.5	
2018	-0.1	0.4	0.1	-0.6	4.1	0.7	
Percentage change, latest quarter on previous quarter							
	KGA2	KH3C	KH2V	KG9Z	KH45	KH3O	
2015 Q4	1.2	3.3	2.0	2.7	2.6	2.7	
2016 Q1	-2.2	0.7	-0.9	0.4	-2.8	-0.4	
Q2	0.9	1.0	0.9	0.5	1.0	0.6	
Q3	-4.2	-2.2	-3.2	4.4	-0.4	3.1	
Q4	5.8	7.4	6.6	-1.1	3.9	0.2	
2017 Q1	1.9	-1.6	0.2	2.1	-2.5	0.9	
Q2	2.1	0.2	1.2	1.0	0.7	0.9	
Q3	2.8	0.8	1.9	0.7	0.1	0.6	
Q4	-2.7	3.6	0.1	-0.8	0.3	-0.6	
2018 Q1	0.7	-3.6	-1.3	-1.2	1.2	-0.6	
Q2	-1.9	0.2	-1.0	-	1.5	0.4	
Q3	2.5	-1.0	0.9	0.6	0.9	0.7	
Q4	-1.5	5.4	1.6	1.6	3.4	2.1	
2019 Q1	4.5	-5.0	-	11.0	-4.4	6.8	
Percentage change, latest quarter on corresponding quarter of previous year							
	KGA5	KH3D	KH2W	KGA4	KH46	KH3P	
2015 Q4	5.0	0.8	3.1	0.4	11.5	3.0	
2016 Q1	0.9	1.1	1.0	-0.8	4.4	0.4	
Q2	-1.6	4.8	1.1	4.0	1.1	3.2	
Q3	-4.4	2.8	-1.2	8.2	0.3	6.1	
Q4	-	6.9	3.3	4.1	1.6	3.5	
2017 Q1	4.2	4.4	4.4	5.8	1.9	4.8	
Q2	5.5	3.6	4.7	6.4	1.6	5.1	
Q3	13.2	6.7	10.2	2.6	2.1	2.5	
Q4	4.1	2.9	3.5	2.9	-1.4	1.8	
2018 Q1	2.8	0.9	1.9	-0.4	2.3	0.3	
Q2	-1.2	0.9	-0.3	-1.4	3.1	-0.2	
Q3	-1.6	-1.0	-1.3	-1.4	3.9	-0.1	
Q4	-0.3	0.7	0.2	1.0	7.2	2.6	
2019 Q1	3.5	-0.8	1.5	13.5	1.2	10.2	

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	1 723 523	1 692 039	1 692 039	–	96.4	96.4	98.1	98.1	98.1
2016	1 756 045	1 756 045	1 756 045	–	100.0	100.0	100.0	100.0	100.0
2017	1 794 096	1 827 756	1 818 682	9 074	104.1	103.6	102.2	101.7	102.4
2018	1 819 742	1 889 870	1 877 015	12 855	107.6	106.9	103.6	102.9	103.9
Seasonally adjusted									
2015 Q4	433 845	426 098	426 098	–	97.1	97.1	98.8	98.8	98.8
2016 Q1	435 169	432 659	432 659	–	98.6	98.6	99.1	99.1	99.1
Q2	437 116	436 513	436 513	–	99.4	99.4	99.6	99.6	99.6
Q3	439 892	440 577	440 577	–	100.4	100.4	100.2	100.2	100.2
Q4	443 868	446 296	446 296	–	101.7	101.7	101.1	101.1	101.1
2017 Q1	445 592	451 941	450 865	1 076	102.9	102.7	101.5	101.3	101.7
Q2	446 940	453 775	451 913	1 862	103.4	102.9	101.8	101.4	102.1
Q3	449 692	458 107	455 342	2 765	104.3	103.7	102.4	101.8	102.6
Q4	451 872	463 933	460 562	3 371	105.7	104.9	102.9	102.2	103.0
2018 Q1	451 828	467 396	464 091	3 305	106.5	105.7	102.9	102.2	103.1
Q2	453 665	468 731	465 380	3 351	106.8	106.0	103.3	102.6	103.6
Q3	456 715	475 089	471 849	3 240	108.2	107.5	104.0	103.3	104.3
Q4	457 534	478 654	475 695	2 959	109.0	108.4	104.2	103.6	104.5
2019 Q1	459 964	484 317	481 023	3 294	110.3	109.6	104.8	104.1	105.1
Percentage change, latest year on previous year									
	KH4D	KH47	KH68		KH47	KH68	KH4D	KH6E	GDPQ
2015	2.5	2.8	2.8		2.8	2.8	2.5	2.5	2.5
2016	1.9	3.8	3.8		3.8	3.8	1.9	1.9	1.9
2017	2.2	4.1	3.6		4.1	3.6	2.2	1.7	2.4
2018	1.4	3.4	3.2		3.4	3.2	1.4	1.2	1.5
Percentage change, latest quarter on previous quarter									
	KH4F	KH49	KH6A		KH49	KH6A	KH4F	KH6G	
2015 Q4	0.5	0.5	0.5		0.5	0.5	0.5	0.5	0.5
2016 Q1	0.3	1.5	1.5		1.5	1.5	0.3	0.3	0.3
Q2	0.4	0.9	0.9		0.9	0.9	0.4	0.4	0.4
Q3	0.6	0.9	0.9		0.9	0.9	0.6	0.6	0.6
Q4	0.9	1.3	1.3		1.3	1.3	0.9	0.9	0.9
2017 Q1	0.4	1.3	1.0		1.3	1.0	0.4	0.2	0.6
Q2	0.3	0.4	0.2		0.4	0.2	0.3	0.1	0.3
Q3	0.6	1.0	0.8		1.0	0.8	0.6	0.4	0.5
Q4	0.5	1.3	1.1		1.3	1.1	0.5	0.4	0.4
2018 Q1	–	0.7	0.8		0.7	0.8	–	–	0.1
Q2	0.4	0.3	0.3		0.3	0.3	0.4	0.4	0.4
Q3	0.7	1.4	1.4		1.4	1.4	0.7	0.7	0.7
Q4	0.2	0.8	0.8		0.8	0.8	0.2	0.2	0.2
2019 Q1	0.5	1.2	1.1		1.2	1.1	0.5	0.5	0.5
Percentage change, latest quarter on corresponding quarter of previous year									
	KH4H	KH4B	KH6C		KH4B	KH6C	KH4H	KH6I	GDPR
2015 Q4	1.8	2.8	2.8		2.8	2.8	1.8	1.8	1.8
2016 Q1	1.8	3.6	3.6		3.6	3.6	1.8	1.8	1.8
Q2	1.6	2.8	2.8		2.8	2.8	1.6	1.6	1.6
Q3	1.9	3.9	3.9		3.9	3.9	1.9	1.9	1.9
Q4	2.3	4.7	4.7		4.7	4.7	2.3	2.3	2.3
2017 Q1	2.4	4.5	4.2		4.5	4.2	2.4	2.1	2.6
Q2	2.2	4.0	3.5		4.0	3.5	2.2	1.8	2.5
Q3	2.2	4.0	3.4		4.0	3.4	2.2	1.6	2.4
Q4	1.8	4.0	3.2		4.0	3.2	1.8	1.1	1.9
2018 Q1	1.4	3.4	2.9		3.4	2.9	1.4	0.9	1.4
Q2	1.5	3.3	3.0		3.3	3.0	1.5	1.2	1.4
Q3	1.6	3.7	3.6		3.7	3.6	1.6	1.5	1.6
Q4	1.3	3.2	3.3		3.2	3.3	1.3	1.4	1.5
2019 Q1	1.8	3.6	3.6		3.6	3.6	1.8	1.8	1.9

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

£ 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			
2015 Q4	DMUN -334	DMUM -345	DMUQ -867
2016 Q1	-84	-86	1 912
Q2	-900	-903	-1 681
Q3	1 981	1 977	-1 987
Q4	-997	-988	1 756
2017 Q1	1 089	1 070	2 574
Q2	-1 609	-1 580	-2 507
Q3	639	625	-689
Q4	-119	-115	622
2018 Q1	-1 622	-1 561	1 886
Q2	-348	-329	-1 637
Q3	-570	-540	-703
Q4	2 540	2 430	454
2019 Q1	-678	-641	1 906

N 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	1 913 870	1 912 472	1 707 180	362 579	49 784	1 944 905	1 731 157	366 806	50 492	94.1075
2016/17	1 991 226	1 989 398	1 775 338	369 396	53 376	1 978 370	1 766 479	367 357	52 778	96.2514
2017/18	2 065 492	2 067 387	1 840 550	377 767	55 722	2 011 630	1 797 747	367 992	54 477	98.1925
2018/19	2 135 993	2 135 040	1 904 145	390 275	59 748	2 042 689	1 825 347	370 643	56 792	100.0000
Seasonally adjusted										
2015 Q4	477 774	485 250	426 098	90 443	12 294	488 153	433 845	91 665	12 390	93.6009
2016 Q1	485 326	485 753	432 659	91 626	12 128	489 736	435 169	92 044	12 243	94.7731
Q2	489 494	486 658	436 513	91 550	13 111	490 502	437 116	91 959	13 277	95.4377
Q3	493 730	490 693	440 577	92 032	13 460	492 816	439 892	91 968	13 605	95.8116
Q4	500 974	506 420	446 296	92 766	13 401	496 470	443 868	92 003	12 975	96.5018
2017 Q1	507 028	505 627	451 952	93 048	13 404	498 582	445 603	91 427	12 921	97.2543
Q2	508 869	506 918	453 572	93 403	13 995	499 885	446 741	91 876	13 892	97.3530
Q3	514 258	510 663	457 448	93 895	13 793	502 473	449 048	91 969	13 631	97.8772
Q4	519 474	526 421	462 901	94 873	13 901	504 487	450 870	91 995	13 585	98.4753
2018 Q1	522 891	523 385	466 629	95 596	14 033	504 785	451 088	92 152	13 369	99.0645
Q2	526 394	523 463	467 955	95 981	13 698	506 842	452 918	91 790	13 248	99.3234
Q3	532 444	529 833	474 395	96 736	14 667	510 346	456 050	91 726	14 084	99.7752
Q4	535 995	541 043	478 146	97 778	14 854	511 482	457 049	92 919	14 160	100.2175
2019 Q1	541 160	540 701	483 649	99 780	16 529	514 019	459 330	94 208	15 300	100.6839
Percentage change, latest financial year on previous financial year										
2015/16	3.0	3.1	2.9	1.4	-1.6	2.2	2.2	1.6	-2.1	0.8
2016/17	4.0	4.0	4.0	1.9	7.2	1.7	2.0	0.2	4.5	2.3
2017/18	3.7	3.9	3.7	2.3	4.4	1.7	1.8	0.2	3.2	2.0
2018/19	3.4	3.3	3.5	3.3	7.2	1.5	1.5	0.7	4.2	1.8
Percentage change, latest quarter on previous quarter										
	IHYN	A8L9	KGL8	KH2D	KH7P	IHYQ	KGM9	KH2J	KH9C	L8GH
2015 Q4	0.5	2.7	0.5	-0.7	-0.5	0.7	0.5	-0.2	-1.4	-0.3
2016 Q1	1.6	0.1	1.5	1.3	-1.4	0.3	0.3	0.4	-1.2	1.3
Q2	0.9	0.2	0.9	-0.1	8.1	0.2	0.4	-0.1	8.4	0.7
Q3	0.9	0.8	0.9	0.5	2.7	0.5	0.6	-	2.5	0.4
Q4	1.5	3.2	1.3	0.8	-0.4	0.7	0.9	-	-4.6	0.7
2017 Q1	1.2	-0.2	1.3	0.3	-	0.4	0.4	-0.6	-0.4	0.8
Q2	0.4	0.3	0.4	0.4	4.4	0.3	0.3	0.5	7.5	0.1
Q3	1.1	0.7	0.9	0.5	-1.4	0.5	0.5	0.1	-1.9	0.5
Q4	1.0	3.1	1.2	1.0	0.8	0.4	0.4	-	-0.3	0.6
2018 Q1	0.7	-0.6	0.8	0.8	0.9	0.1	-	0.2	-1.6	0.6
Q2	0.7	-	0.3	0.4	-2.4	0.4	0.4	-0.4	-0.9	0.3
Q3	1.1	1.2	1.4	0.8	7.1	0.7	0.7	-0.1	6.3	0.5
Q4	0.7	2.1	0.8	1.1	1.3	0.2	0.2	1.3	0.5	0.4
2019 Q1	1.0	-0.1	1.2	2.0	11.3	0.5	0.5	1.4	8.1	0.5
Percentage change, latest quarter on corresponding quarter of previous year										
	IHYO	A8LA	KGM2	KH2E	KH7R	IHYR	KGN3	KH2K	KH9M	L8GI
2015 Q4	2.8	3.1	2.8	0.7	-5.5	2.2	1.8	1.8	-6.2	0.5
2016 Q1	3.9	3.5	3.6	1.7	-9.1	2.1	1.8	1.7	-8.7	1.7
Q2	3.0	3.7	2.8	2.4	0.8	1.7	1.6	0.7	-0.2	1.3
Q3	3.8	3.9	3.9	1.0	8.9	1.7	1.9	0.2	8.3	2.1
Q4	4.9	4.4	4.7	2.6	9.0	1.7	2.3	0.4	4.7	3.1
2017 Q1	4.5	4.1	4.5	1.6	10.5	1.8	2.4	-0.7	5.5	2.6
Q2	4.0	4.2	3.9	2.0	6.7	1.9	2.2	-0.1	4.6	2.0
Q3	4.2	4.1	3.8	2.0	2.5	2.0	2.1	-	0.2	2.2
Q4	3.7	3.9	3.7	2.3	3.7	1.6	1.6	-	4.7	2.0
2018 Q1	3.1	3.5	3.2	2.7	4.7	1.2	1.2	0.8	3.5	1.9
Q2	3.4	3.3	3.2	2.8	-2.1	1.4	1.4	-0.1	-4.6	2.0
Q3	3.5	3.8	3.7	3.0	6.3	1.6	1.6	-0.3	3.3	1.9
Q4	3.2	2.8	3.3	3.1	6.9	1.4	1.4	1.0	4.2	1.8
2019 Q1	3.5	3.3	3.6	4.4	17.8	1.8	1.8	2.2	14.4	1.6

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.

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	94.2529	94.0837	94.5320
2016	95.7365	96.0197	96.2890
2017	98.0001	98.1373	98.0956
2018	100.0000	100.0000	100.0000
Seasonally adjusted			
2015 Q4	93.9497	93.9813	94.5724
2016 Q1	95.0842	95.1583	95.7365
Q2	95.7131	95.8256	96.1590
Q3	95.8568	96.2010	96.4418
Q4	96.2921	96.8941	96.8186
2017 Q1	97.3525	97.6496	97.6638
Q2	97.5856	97.7487	97.7642
Q3	98.1781	98.2751	98.0931
Q4	98.8843	98.8756	98.8613
2018 Q1	99.3239	99.4672	99.6093
Q2	99.6037	99.7272	99.4888
Q3	100.3439	100.1808	100.1653
Q4	100.7285	100.6249	100.7366
2019 Q1	100.7769	101.0931	101.3900
Percentage change, latest year on previous year			
	MNE3	MNF3	MNX6
2015	-0.1	0.4	0.2
2016	1.6	2.1	1.9
2017	2.4	2.2	1.9
2018	2.0	1.9	1.9
Percentage change, latest quarter on previous quarter			
	MNE4	MNF4	MNX7
2015 Q4	-0.5	-0.3	-
2016 Q1	1.2	1.3	1.2
Q2	0.7	0.7	0.4
Q3	0.2	0.4	0.3
Q4	0.5	0.7	0.4
2017 Q1	1.1	0.8	0.9
Q2	0.2	0.1	0.1
Q3	0.6	0.5	0.3
Q4	0.7	0.6	0.8
2018 Q1	0.4	0.6	0.8
Q2	0.3	0.3	-0.1
Q3	0.7	0.5	0.7
Q4	0.4	0.4	0.6
2019 Q1	-	0.5	0.6
Percentage change, latest quarter on corresponding quarter of previous year			
	MNE5	MNF5	MNX8
2015 Q4	-0.1	0.5	0.9
2016 Q1	1.3	1.7	1.8
Q2	0.9	1.3	1.3
Q3	1.5	2.1	2.0
Q4	2.5	3.1	2.4
2017 Q1	2.4	2.6	2.0
Q2	2.0	2.0	1.7
Q3	2.4	2.2	1.7
Q4	2.7	2.0	2.1
2018 Q1	2.0	1.9	2.0
Q2	2.1	2.0	1.8
Q3	2.2	1.9	2.1
Q4	1.9	1.8	1.9
2019 Q1	1.5	1.6	1.8

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	1 895 839	29 117	1 934 903	29 717
2016	65 648	1 969 524	30 001	1 969 524	30 001
2017	66 040	2 049 629	31 036	2 005 427	30 367
2018	66 466	2 117 724	31 862	2 033 455	30 594
Seasonally adjusted					
2015 Q4	65 379	477 774	7 308	488 153	7 467
2016 Q1	65 514	485 326	7 408	489 736	7 475
Q2	65 648	489 494	7 456	490 502	7 472
Q3	65 746	493 730	7 510	492 816	7 496
Q4	65 844	500 974	7 608	496 470	7 540
2017 Q1	65 942	507 028	7 689	498 582	7 561
Q2	66 040	508 869	7 705	499 885	7 569
Q3	66 146	514 258	7 775	502 473	7 596
Q4	66 253	519 474	7 841	504 487	7 615
2018 Q1	66 359	522 891	7 880	504 785	7 607
Q2	66 466	526 394	7 920	506 842	7 626
Q3	66 572	532 444	7 998	510 346	7 666
Q4	66 678	535 995	8 039	511 482	7 671
2019 Q1	66 767	541 160	8 105	514 019	7 699
Percentage change, latest year on previous year					
		IHYM	N3Y3	IHYP	N3Y6
2015		2.8	2.0	2.3	1.5
2016		3.9	3.0	1.8	1.0
2017		4.1	3.4	1.8	1.2
2018		3.3	2.7	1.4	0.7
Percentage change, latest quarter on previous quarter					
		IHYN	N3Y4	IHYQ	N3Y7
2015 Q4		0.5	0.3	0.7	0.5
2016 Q1		1.6	1.4	0.3	0.1
Q2		0.9	0.6	0.2	-
Q3		0.9	0.7	0.5	0.3
Q4		1.5	1.3	0.7	0.6
2017 Q1		1.2	1.1	0.4	0.3
Q2		0.4	0.2	0.3	0.1
Q3		1.1	0.9	0.5	0.4
Q4		1.0	0.8	0.4	0.3
2018 Q1		0.7	0.5	0.1	-0.1
Q2		0.7	0.5	0.4	0.2
Q3		1.1	1.0	0.7	0.5
Q4		0.7	0.5	0.2	0.1
2019 Q1		1.0	0.8	0.5	0.4
Percentage change, latest quarter on corresponding quarter of previous year					
		IHYO	N3Y5	IHYR	N3Y8
2015 Q4		2.8	1.9	2.2	1.4
2016 Q1		3.9	3.0	2.1	1.2
Q2		3.0	2.2	1.7	0.8
Q3		3.8	3.0	1.7	0.9
Q4		4.9	4.1	1.7	1.0
2017 Q1		4.5	3.8	1.8	1.2
Q2		4.0	3.3	1.9	1.3
Q3		4.2	3.5	2.0	1.3
Q4		3.7	3.1	1.6	1.0
2018 Q1		3.1	2.5	1.2	0.6
Q2		3.4	2.8	1.4	0.8
Q3		3.5	2.9	1.6	0.9
Q4		3.2	2.5	1.4	0.7
2019 Q1		3.5	2.9	1.8	1.2

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 28 June 2018

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 & 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	-5.6	1.0	0.3	0.4	2.1	5.6	4.1	1.9	3.8	3.4	2.1	-
2017	3.0	1.8	-0.6	2.5	-1.6	3.4	7.1	2.1	2.2	4.9	2.2	0.6
2018	-2.3	0.8	4.3	0.9	-0.6	-1.4	0.3	1.7	2.8	3.8	1.6	0.3
Contributions to growth												
	ZZ3V	ZZ3W	ZZ3Y	ZZ3X	ZZ3Z	ZZ42	ZZ43	ZZ44	ZZ45	ZZ46	ZZ47	ZZ48
2016	-0.04	0.13	-	0.04	0.04	0.06	0.25	1.54	0.51	0.37	0.68	-0.01
2017	0.02	0.25	-0.01	0.25	-0.03	0.03	0.42	1.66	0.30	0.52	0.72	0.13
2018	-0.02	0.11	0.05	0.09	-0.01	-0.01	0.02	1.39	0.38	0.41	0.52	0.07
Percentage change, latest quarter on previous quarter												
Growth												
	L3BB	L3BG	L3BH	L3BN	L3DM	L3DQ	L3DW	L3E2	L3GP	KI8L	KI8N	KI8P
2016 Q3	-0.2	-0.4	5.1	-0.5	-3.9	0.1	1.1	0.8	0.9	2.9	0.7	-0.1
Q4	0.6	0.6	-7.8	1.3	2.4	0.6	2.9	0.8	1.7	1.8	0.5	0.1
2017 Q1	2.1	0.3	2.6	0.5	-3.9	3.1	3.2	0.5	-0.2	0.4	0.8	0.5
Q2	0.6	0.3	1.5	0.1	0.9	-0.8	0.2	0.4	0.3	1.2	0.2	0.3
Q3	0.6	1.0	0.1	1.1	2.2	-0.5	0.7	0.4	0.5	0.7	0.6	-0.1
Q4	-0.1	0.6	-4.5	1.5	-0.8	-	0.3	0.3	0.2	1.3	0.4	-0.3
2018 Q1	-2.1	0.1	4.6	-0.3	1.1	-1.9	-1.5	0.3	0.3	0.2	0.5	0.1
Q2	-0.9	-0.6	2.5	-0.5	-3.7	0.6	0.5	0.6	1.7	1.2	0.2	0.1
Q3	-0.1	0.6	2.2	0.2	1.6	1.6	1.8	0.6	1.0	1.8	0.3	0.3
Q4	0.6	-0.8	-0.8	-0.7	-1.5	-0.9	-0.5	0.5	0.3	0.8	0.4	0.6
2019 Q1	-1.8	1.4	2.0	2.2	-2.3	-1.7	1.0	0.3	1.1	0.7	-	0.2
Contributions to growth												
	ZZ2F	ZZ2G	ZZ2I	ZZ2H	ZZ2J	ZZ2K	ZZ2L	ZZ2M	ZZ2N	ZZ2O	ZZ2P	ZZ2Q
2016 Q3	-	-0.06	0.06	-0.05	-0.07	-	0.07	0.63	0.12	0.31	0.22	-0.01
Q4	-	0.08	-0.10	0.13	0.04	0.01	0.18	0.63	0.24	0.20	0.17	0.03
2017 Q1	0.01	0.04	0.03	0.05	-0.07	0.03	0.20	0.40	-0.03	0.05	0.27	0.11
Q2	-	0.03	0.02	0.01	0.02	-0.01	0.01	0.28	0.03	0.12	0.06	0.06
Q3	-	0.14	-	0.11	0.04	-0.01	0.04	0.33	0.07	0.08	0.20	-0.02
Q4	-	0.09	-0.05	0.15	-0.01	-	0.02	0.27	0.03	0.15	0.15	-0.06
2018 Q1	-0.01	0.01	0.05	-0.03	0.02	-0.02	-0.09	0.24	0.04	0.02	0.16	0.02
Q2	-0.01	-0.08	0.03	-0.05	-0.06	0.01	0.03	0.47	0.24	0.13	0.07	0.03
Q3	-	0.09	0.03	0.02	0.03	0.02	0.11	0.51	0.14	0.19	0.10	0.07
Q4	-	-0.12	-0.01	-0.07	-0.02	-0.01	-0.03	0.38	0.05	0.09	0.12	0.13
2019 Q1	-0.01	0.19	0.03	0.22	-0.04	-0.02	0.06	0.26	0.15	0.08	-0.02	0.05
Percentage change, latest quarter on corresponding quarter of previous year												
Growth												
	L3ZZ	L426	L427	L42D	L44C	L44G	L44M	L44Q	L47F	KI12	KI19	KI18
2016 Q3	-6.5	0.9	3.3	0.4	0.1	5.1	4.7	1.9	3.7	4.0	2.1	-0.3
Q4	-4.3	2.1	-2.8	1.9	5.0	5.3	6.1	2.1	4.4	5.3	1.9	-0.5
2017 Q1	1.5	2.3	1.6	2.5	-1.2	6.7	9.2	2.2	3.0	5.4	2.3	0.2
Q2	3.2	0.7	0.9	1.4	-4.6	2.9	7.6	2.5	2.7	6.4	2.2	0.8
Q3	4.0	2.2	-4.0	3.0	1.4	2.3	7.1	2.1	2.4	4.2	2.1	0.8
Q4	3.2	2.2	-0.5	3.2	-1.7	1.7	4.5	1.6	0.8	3.7	2.0	0.4
2018 Q1	-1.0	2.0	1.4	2.3	3.5	-3.2	-0.3	1.4	1.4	3.4	1.7	-
Q2	-2.5	1.1	2.5	1.7	-1.3	-1.8	-	1.6	2.9	3.4	1.7	-0.1
Q3	-3.2	0.8	4.6	0.9	-1.9	0.2	1.2	1.9	3.4	4.5	1.4	0.3
Q4	-2.5	-0.7	8.7	-1.3	-2.5	-0.7	0.3	2.0	3.5	3.9	1.4	1.1
2019 Q1	-2.2	0.6	6.0	1.2	-5.9	-0.4	2.8	2.0	4.3	4.5	0.9	1.2
Contributions to growth												
	ZZ36	ZZ37	ZZ39	ZZ38	ZZ3A	ZZ3B	ZZ3C	ZZ3D	ZZ3E	ZZ3F	ZZ3G	ZZ3H
2016 Q3	-0.04	0.12	0.04	0.04	-	0.05	0.28	1.54	0.49	0.43	0.69	-0.07
Q4	-0.03	0.28	-0.03	0.19	0.08	0.05	0.37	1.67	0.58	0.57	0.64	-0.11
2017 Q1	0.01	0.31	0.02	0.25	-0.02	0.07	0.54	1.77	0.40	0.56	0.77	0.05
Q2	0.02	0.10	0.01	0.14	-0.08	0.03	0.45	1.96	0.37	0.67	0.73	0.19
Q3	0.03	0.30	-0.04	0.30	0.02	0.02	0.43	1.65	0.32	0.45	0.71	0.18
Q4	0.02	0.30	-0.01	0.32	-0.03	0.02	0.27	1.28	0.11	0.40	0.68	0.09
2018 Q1	-0.01	0.28	0.02	0.24	0.06	-0.03	-0.02	1.13	0.19	0.36	0.57	0.01
Q2	-0.02	0.16	0.03	0.17	-0.02	-0.02	-	1.32	0.39	0.37	0.58	-0.03
Q3	-0.02	0.11	0.06	0.09	-0.03	-	0.07	1.49	0.46	0.49	0.49	0.06
Q4	-0.02	-0.10	0.10	-0.13	-0.04	-0.01	0.02	1.61	0.47	0.43	0.46	0.24
2019 Q1	-0.01	0.08	0.08	0.12	-0.11	-	0.17	1.64	0.59	0.49	0.29	0.27

1 Estimates are accurate to 1 decimal place

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									
	Households	Non-profit institutions ³	General government ⁴	Gross capital formation	Gross fixed capital formation	Business investment	Total exports	less Total imports	Net trade
Percentage change, latest year on previous year									
Growth									
	KGZ5	KH26	KH2I	ZZ6H	KG7N	KG7M	KH2U	KH3N	
2016	3.2	0.8	0.8	1.6	2.3	-0.2	1.0	3.3	
2017	2.2	-0.3	-0.2	0.3	3.5	1.5	5.6	3.5	
2018	1.8	-1.3	0.4	2.7	0.2	-0.4	0.1	0.7	
Contributions to growth									
	ZZ6M	ZZ6N	ZZ6O	ZZ6P	ZZ6Q	ZZ6R	ZZ6S	ZZ6T	ZZ6U
2016	2.01	0.02	0.14	0.27	0.39	-0.02	0.29	0.95	-0.66
2017	1.37	-0.01	-0.04	0.05	0.58	0.14	1.59	1.05	0.54
2018	1.12	-0.04	0.07	0.46	0.03	-0.04	0.04	0.21	-0.17
Percentage change, latest quarter on previous quarter									
Growth									
	KGZ6	KH27	KH2J	ZZ5H	KG7Q	KG7P	KH2V	KH3O	
2016 Q3	1.2	-	-	9.0	1.5	1.5	-3.2	3.1	
Q4	-	0.5	-	-5.3	-0.6	-1.0	6.6	0.2	
2017 Q1	0.7	-0.4	-0.6	1.4	1.0	-0.2	0.2	0.9	
Q2	0.4	-0.1	0.5	-0.7	1.9	1.3	1.2	0.9	
Q3	0.5	-0.6	0.1	-0.6	0.3	0.9	1.9	0.6	
Q4	0.3	-0.1	-	0.3	0.7	0.4	0.1	-0.6	
2018 Q1	0.5	-0.2	0.2	-0.7	-0.8	-0.6	-1.3	-0.6	
Q2	0.5	-0.6	-0.4	3.3	-0.6	-0.4	-1.0	0.4	
Q3	0.4	-0.5	-0.1	2.5	0.9	-0.6	0.9	0.7	
Q4	0.3	-0.2	1.3	-0.4	-0.6	-0.9	1.6	2.1	
2019 Q1	0.7	-0.5	1.4	11.1	2.1	0.5	-	6.8	
Contributions to growth									
	ZZ5M	ZZ5N	ZZ5O	ZZ5P	ZZ5Q	ZZ5R	ZZ5S	ZZ5T	ZZ5U
2016 Q3	0.75	-	-	1.50	0.25	0.15	-0.87	0.89	-1.76
Q4	-	0.01	0.01	-0.95	-0.10	-0.10	1.75	0.05	1.70
2017 Q1	0.46	-0.01	-0.12	0.25	0.17	-0.02	0.05	0.26	-0.21
Q2	0.24	-	0.09	-0.11	0.32	0.12	0.36	0.27	0.09
Q3	0.32	-0.02	0.02	-0.10	0.05	0.08	0.56	0.17	0.39
Q4	0.22	-	0.01	0.05	0.11	0.04	0.03	-0.17	0.20
2018 Q1	0.31	-0.01	0.03	-0.12	-0.13	-0.06	-0.40	-0.18	-0.21
Q2	0.35	-0.02	-0.07	0.56	-0.09	-0.04	-0.29	0.12	-0.41
Q3	0.24	-0.01	-0.01	0.44	0.15	-0.06	0.25	0.22	0.03
Q4	0.19	-	0.23	-0.07	-0.11	-0.08	0.48	0.64	-0.17
2019 Q1	0.42	-0.01	0.25	1.94	0.35	0.05	0.01	2.17	-2.16
Percentage change, latest quarter on corresponding quarter of previous year									
Growth									
	KGZ7	KH28	KH2K	ZZ5Y	KG7T	KG7S	KH2W	KH3P	
2016 Q3	3.2	1.2	0.2	10.2	4.9	2.9	-1.2	6.1	
Q4	3.1	1.5	0.4	-1.2	2.5	-0.4	3.3	3.5	
2017 Q1	2.8	0.7	-0.7	2.2	3.5	1.2	4.4	4.8	
Q2	2.3	-0.1	-0.1	4.1	3.8	1.6	4.7	5.1	
Q3	1.6	-0.6	-	-5.1	2.6	0.9	10.2	2.5	
Q4	2.0	-1.2	-	0.5	3.9	2.4	3.5	1.8	
2018 Q1	1.7	-1.0	0.8	-1.7	2.1	1.9	1.9	0.3	
Q2	1.9	-1.5	-0.1	2.2	-0.4	0.2	-0.3	-0.2	
Q3	1.8	-1.4	-0.3	5.4	0.2	-1.3	-1.3	-0.1	
Q4	1.7	-1.4	1.0	4.7	-1.1	-2.5	0.2	2.6	
2019 Q1	1.9	-1.8	2.2	17.2	1.7	-1.4	1.5	10.2	
Contributions to growth									
	ZZ65	ZZ66	ZZ67	ZZ68	ZZ69	ZZ6A	ZZ6B	ZZ6C	ZZ6D
2016 Q3	2.00	0.04	0.03	1.70	0.81	0.28	-0.32	1.73	-2.06
Q4	1.95	0.04	0.07	-0.21	0.41	-0.03	0.90	1.01	-0.11
2017 Q1	1.73	0.02	-0.13	0.37	0.58	0.11	1.23	1.41	-0.18
Q2	1.47	-	-0.02	0.68	0.65	0.15	1.33	1.50	-0.17
Q3	1.04	-0.02	-	-0.92	0.45	0.09	2.79	0.76	2.03
Q4	1.25	-0.04	-	0.08	0.65	0.22	1.00	0.53	0.47
2018 Q1	1.10	-0.03	0.15	-0.29	0.35	0.18	0.58	0.09	0.48
Q2	1.20	-0.04	-0.02	0.39	-0.07	0.02	-0.08	-0.07	-0.02
Q3	1.12	-0.04	-0.05	0.93	0.03	-0.12	-0.40	-0.02	-0.38
Q4	1.09	-0.04	0.18	0.80	-0.19	-0.24	0.05	0.81	-0.76
2019 Q1	1.21	-0.05	0.41	2.88	0.30	-0.13	0.46	3.20	-2.74

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

4 Please refer to footnote 7 in table C2

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	3.8	4.5	3.4	4.0
2017	4.2	3.7	1.3	5.0
2018	4.2	0.1	4.4	2.8
Contributions to growth				
	ZZ7H	ZZ7I	ZZ7J	ZZ7K
2016	1.85	0.98	0.58	0.49
2017	2.07	0.82	0.23	0.62
2018	2.06	0.03	0.73	0.35
Percentage change, latest quarter on previous quarter				
Growth				
	KGI4	KH4W	KH6U	KH66
2016 Q3	1.9	-0.4	-0.1	0.1
Q4	-0.2	6.2	-0.2	2.2
2017 Q1	0.8	2.2	0.7	-0.3
Q2	1.5	-3.9	0.3	2.9
Q3	0.7	1.5	0.2	2.3
Q4	1.0	2.1	0.6	-0.6
2018 Q1	1.0	0.1	1.6	-1.1
Q2	0.9	-2.5	1.5	4.1
Q3	1.6	1.2	1.4	-0.9
Q4	0.8	0.4	1.4	-0.3
2019 Q1	0.9	2.5	1.1	-1.7
Contributions to growth				
	ZZ6Z	ZZ72	ZZ73	ZZ74
2016 Q3	0.99	-0.09	-0.02	0.02
Q4	-0.09	1.35	-0.04	0.27
2017 Q1	0.41	0.50	0.12	-0.04
Q2	0.81	-0.97	0.05	0.39
Q3	0.36	0.33	0.03	0.29
Q4	0.49	0.44	0.10	-0.07
2018 Q1	0.51	0.02	0.27	-0.14
Q2	0.48	-0.57	0.26	0.52
Q3	0.76	0.24	0.22	-0.11
Q4	0.42	0.09	0.24	-0.04
2019 Q1	0.45	0.54	0.19	-0.22
Percentage change, latest quarter on corresponding quarter of previous year				
Growth				
	KGI5	KH4X	KH6V	KH67
2016 Q3	4.6	3.9	2.4	2.4
Q4	4.0	9.7	1.5	4.6
2017 Q1	5.7	3.3	1.9	3.4
Q2	4.2	3.9	0.6	5.1
Q3	2.9	5.9	1.0	7.3
Q4	4.1	1.7	1.8	4.3
2018 Q1	4.3	-0.4	2.7	3.5
Q2	3.7	1.1	3.9	4.7
Q3	4.6	0.8	5.1	1.5
Q4	4.4	-0.9	6.0	1.8
2019 Q1	4.3	1.5	5.5	1.1
Contributions to growth				
	ZZ79	ZZ7A	ZZ7B	ZZ7C
2016 Q3	2.27	0.83	0.40	0.29
Q4	1.99	2.08	0.26	0.57
2017 Q1	2.77	0.76	0.33	0.42
Q2	2.06	0.86	0.11	0.62
Q3	1.45	1.26	0.16	0.89
Q4	2.02	0.39	0.30	0.53
2018 Q1	2.05	-0.09	0.44	0.42
Q2	1.78	0.22	0.64	0.57
Q3	2.23	0.17	0.84	0.18
Q4	2.16	-0.19	0.99	0.22
2019 Q1	2.11	0.34	0.91	0.13

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							less Total imports
	House- holds	Non-prof- it instit- utions ²	General govern- ment	Gross capital formation	Gross fixed capital formation	Total exports		
Percentage change, latest year on previous year								
	ZZ93	ZZ94	ZZ95	ZZ96	ZZ97	ZZ98	ZZ99	
2016	1.5	0.5	1.2	2.5	1.4	6.1	4.1	
2017	2.1	1.4	2.2	3.6	2.4	5.0	5.4	
2018	2.3	1.8	2.5	0.7	2.1	2.6	3.0	
Percentage change, latest quarter on previous quarter								
	ZZ8N	ZZ8O	ZZ8P	ZZ8Q	ZZ8R	ZZ8S	ZZ8T	
2016 Q3	0.1	0.6	0.5	-0.3	0.4	5.1	3.8	
Q4	1.0	0.2	0.8	-1.9	1.0	2.3	1.9	
2017 Q1	0.8	0.5	0.9	2.6	0.4	0.1	1.0	
Q2	0.2	0.4	-0.1	0.8	0.5	-0.2	0.3	
Q3	0.1	0.5	0.4	2.6	0.6	0.2	0.4	
Q4	0.7	0.2	1.0	0.4	0.8	0.3	0.6	
2018 Q1	0.9	0.5	0.6	-1.3	0.6	0.4	-0.1	
Q2	0.4	0.6	0.8	-0.7	0.4	1.8	1.8	
Q3	0.5	0.5	0.9	1.5	0.2	1.0	1.9	
Q4	0.6	0.4	-0.2	0.2	0.5	0.3	-	
2019 Q1	0.5	0.7	0.7	-2.0	0.6	-0.9	-2.3	
Percentage change, latest quarter on corresponding quarter of previous year								
	ZZ8U	ZZ8V	ZZ8W	ZZ8X	ZZ8Y	ZZ8Z	ZZ92	
2016 Q3	1.8	0.5	0.9	1.6	1.3	9.6	6.9	
Q4	1.8	0.6	2.2	5.7	2.3	12.1	9.8	
2017 Q1	2.4	1.1	2.2	2.8	2.5	10.5	9.3	
Q2	2.1	1.6	2.1	1.2	2.4	7.5	7.0	
Q3	2.1	1.5	2.0	4.1	2.5	2.4	3.6	
Q4	1.8	1.5	2.3	6.5	2.3	0.3	2.3	
2018 Q1	2.0	1.5	1.9	2.5	2.5	0.6	1.2	
Q2	2.2	1.8	2.9	0.9	2.3	2.6	2.8	
Q3	2.6	1.8	3.3	-0.2	2.0	3.5	4.3	
Q4	2.4	2.0	2.0	-0.3	1.7	3.5	3.6	
2019 Q1	2.0	2.3	2.1	-1.0	1.7	2.2	1.4	

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