

Statistical bulletin

# GDP first quarterly estimate, UK: October to December 2019

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



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# 1 . Main points

- UK gross domestic product (GDP) in volume terms was flat in Quarter 4 (Oct to Dec) 2019, following revised growth of 0.5% in Quarter 3 (July to Sept) 2019.
- When compared with the same quarter a year ago, UK GDP increased by 1.1% to Quarter 4 2019; down from a revised 1.2% in the previous period.
- Services and construction contributed positively to growth in the output approach to GDP in Quarter 4 2019, while production output contributed negatively to growth.
- Private consumption, government consumption and net trade contributed positively to growth in the expenditure approach to GDP, while gross capital formation contributed negatively to growth in Quarter 4 2019.
- GDP was estimated to have increased by 1.4% between 2018 and 2019 slightly above the 1.3% growth seen between 2017 and 2018.

## 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 \(PDF, 317KB\)](#).

In producing a balanced estimate of GDP, we reconcile information on the output, expenditure and income measures of GDP. In our first quarterly estimate, output tends to paint a more reliable picture of what is happening overall in the economy, and so balancing adjustments are applied to the expenditure and income components of GDP where required to align to output; these tend to be applied to components where data content is comparatively weak, or estimates are prone to revision.

There were increased challenges around balancing the first estimate of GDP growth for Quarter 4 (Oct to Dec) 2019, in part because of heightened uncertainty around the impact of the UK's planned exit from the EU on the activity of businesses. This has been reflected in the adjustments that have been applied to the expenditure estimates. For this reason we recommend the breakdown of the expenditure approach to GDP is considered in the context of these adjustments. Further information on these adjustments is available in the [Quality and methodology](#) section.

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

In line with the [National Accounts Revisions Policy](#), revisions are open back to Quarter 1 (Jan to Mar) 2019 as part of this publication.

### After EU withdrawal

As the UK leaves the EU, it is important that our statistics continue to be of high quality and are internationally comparable. During the transition period, those UK statistics that align with EU practice and rules will continue to do so in the same way as before 31 January 2020.

After the transition period, we will continue to produce our national accounts statistics in line with the UK Statistics Authority's (UKSA's) [Code of Practice for Statistics](#) and in accordance with internationally agreed statistical guidance and standards.

The Withdrawal Agreement outlines a need for UK Gross National Income (a fundamental component of the national accounts, which includes GDP) statistics to remain in line with those of other EU countries until the EU budgets are finalised for the years in which we were a member. To ensure comparability during this cycle, the national accounts will continue to be produced according to [European System of Accounts \(ESA\) 2010](#) definitions and standards.

## **Quarterly Stocks Inquiry temporary expansion**

The Quarterly Stocks Survey (formerly Inquiry) is used in the compilation of the changes in inventories component. To address users' concerns about the sample size of the survey and the potential impact on quality, we temporarily increased the sample size from 5,500 to 9,500 businesses for Quarter 2 (Apr to June) and Quarter 3 (July to Sept) 2019. Because of uncertainty about the EU exit date, we decided to extend this sample boost into Quarter 4 2019 and are currently assessing whether to extend this further. Our early analyses have shown that the introduction of this increased sample has not caused any significant discontinuity in estimates of changes in inventories.

## **3 . UK GDP was flat in Quarter 4 2019, as the underlying momentum continued to slow**

UK gross domestic product (GDP) was flat in Quarter 4 (Oct to Dec) 2019. The subdued performance of the UK economy is in line with the majority of external expectations, including the [National Institute of Economic and Social Research](#) and the [Bank of England](#). The first snapshot of how the economy performed in 2019 as a whole shows GDP growth of 1.4%. This reflects a slight pickup from the previous year, although it is one of the slowest rates since the financial crisis of 2008 and 2009.

UK GDP growth has been particularly volatile throughout 2019, in part reflecting changes in the timing of activity related to the UK's original planned exit dates from the EU. Although there is some evidence, both externally and in this dataset, that there has been stockpiling taking place in late 2019 ahead of the second planned EU exit date in October, initial estimates indicate that this was to a lesser degree than that taking place ahead of the original planned EU exit date in March. At face value the headline imports figures do not show strong evidence consistent with stockpiling, but when we look at the monthly path of imports from the EU we do see a pattern consistent with that seen in advance of the UK's original departure date at the end March, albeit less pronounced. The extent to which stockpiling happened in Quarter 4 2019 will become clearer as we receive additional data.

The underlying momentum in the UK economy continued to show signs of slowing. Quarterly GDP growth has been between 0.2% and 0.3% in 2019 on average, continuing the slowing that has been experienced over the previous five years. Compared with the same quarter a year ago, the UK economy increased by 1.1% (Figure 1).

**Figure 1: Real GDP was flat in Quarter 4 2019, as the underlying momentum in the UK economy appeared to be slowing**

UK, Quarter 1 (Jan to Mar) 2008 to Quarter 4 (October to December) 2019

**Figure 1: Real GDP was flat in Quarter 4 2019, as the underlying momentum in the UK economy appeared to be slowing**



**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. Real GDP figures are volume estimates that are adjusted for the effects of inflation over time.

In line with the [National Accounts Revisions Policy](#), the dataset is open to revision back to Quarter 1 (Jan to Mar) 2019 as part of this publication. There have been some small revisions to the quarterly path of GDP in 2019. There were slight upwards revisions in Quarter 2 (Apr to June) and Quarter 3 (July to Sept) 2019, reflecting revisions to output and expenditure approaches to measuring GDP. There were also some revisions to the quarterly path of nominal GDP throughout 2019, with upwards revisions in Quarters 1 and 3 and a downwards revision in Quarter 2. Nominal GDP increased by 0.1% in the final quarter of the year.

The implied GDP deflator represents the broadest measure of inflation in the domestic economy, reflecting changes in the price of all goods and services that comprise GDP. This includes the price movements in private and government consumption, investment and the relative price of exports and imports. The implied deflator slowed notably in Quarter 4, increasing by 0.1% – its weakest rate since Quarter 4 2015. Compared with the same quarter a year ago, the implied GDP deflator increased by 1.8% in Quarter 4, in line with the previous quarter.

Table 1: Headline economic indicators for the UK

% growth<sup>1</sup>

	Chained volume measures				Current market prices		GDP implied deflator
	GDP	Household expenditure	Gross fixed capital formation	GDP per head <sup>3</sup>	GDP	Compensation of employees	
Seasonally adjusted							
2018	1.3	1.6	-0.2	0.7	3.5	4.4	2.1
2019	1.4	1.4	0.4	0.8	3.3	4.3	1.9
Q1 2018	0.1	0.4	-1.2	-0.1	0.7	1.2	0.6
Q2 2018	0.5	0.6	-0.2	0.4	1.0	0.8	0.5
Q3 2018	0.6	0.4	0.3	0.4	1.1	1.5	0.5
Q4 2018	0.2	0.2	-0.1	0.1	0.4	1.5	0.2
Q1 2019	0.6	0.3	1.1	0.5	1.3	0.4	0.7
Q2 2019	-0.1	0.5	-0.5	-0.3	0.4	1.5	0.5
Q3 2019	0.5	0.4	0.3	0.4	0.9	0.9	0.4
Q4 2019	0.0	0.1	-1.6	-0.1	0.1	0.7	0.1

Source: Office for National Statistics

## Notes

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

## 4 . Growth in the service sector slowed to 0.1% in Quarter 4 2019, while production output fell 0.8%

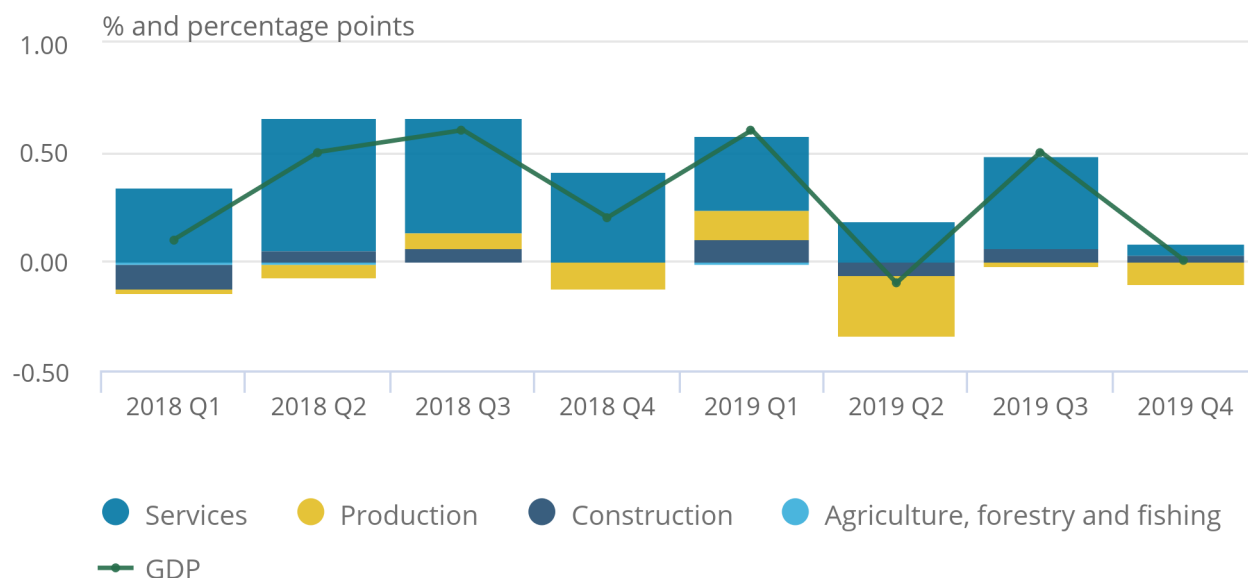
The output measure of gross domestic product (GDP) was flat in Quarter 4 (Oct to Dec) 2019, following a period of volatility throughout the year. This was in part linked to changes in the timing of activity around the originally planned departure dates of the UK from the EU in March and October 2019. The underlying momentum in the service industry continues to show signs of easing since the increase in activity in summer 2018, slowing to 0.1% in the final quarter of 2019. Manufacturing output fell sharply in Quarter 4 2019 and has now fallen for three consecutive quarters, while construction output grew 0.5% in the final quarter of 2019 (Figure 2).

**Figure 2: Service output growth was subdued in Quarter 4 2019, while production output fell**

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

**Figure 2: Service output growth was subdued in Quarter 4 2019, while production output fell**

UK, Quarter 1 (Jan to Mar) 2018 to Quarter 4 (Oct to Dec) 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 real GDP quarter-on-quarter growth.
3. Components contributions may not sum to total due to rounding.

Services output remained subdued in the final quarter of 2019, in which it increased by 0.1%. This is its weakest rate since mid-2016. The slowing is driven by falls in several industries, most notably wholesale and retail trade. The slowing is corroborated by the [Bank of England Agents Summary](#), which recorded a weakening in business services activity as political uncertainty weighed on activity. The [Services PMI \(PDF, 182.92KB\)](#) also reported a relatively subdued picture in the final month of 2019, reporting that business activity was unchanged in December following a marginal reduction in the previous month. Anecdotal evidence suggested that domestic political uncertainty in the run-up to the general election was the main factor weighing on new orders.

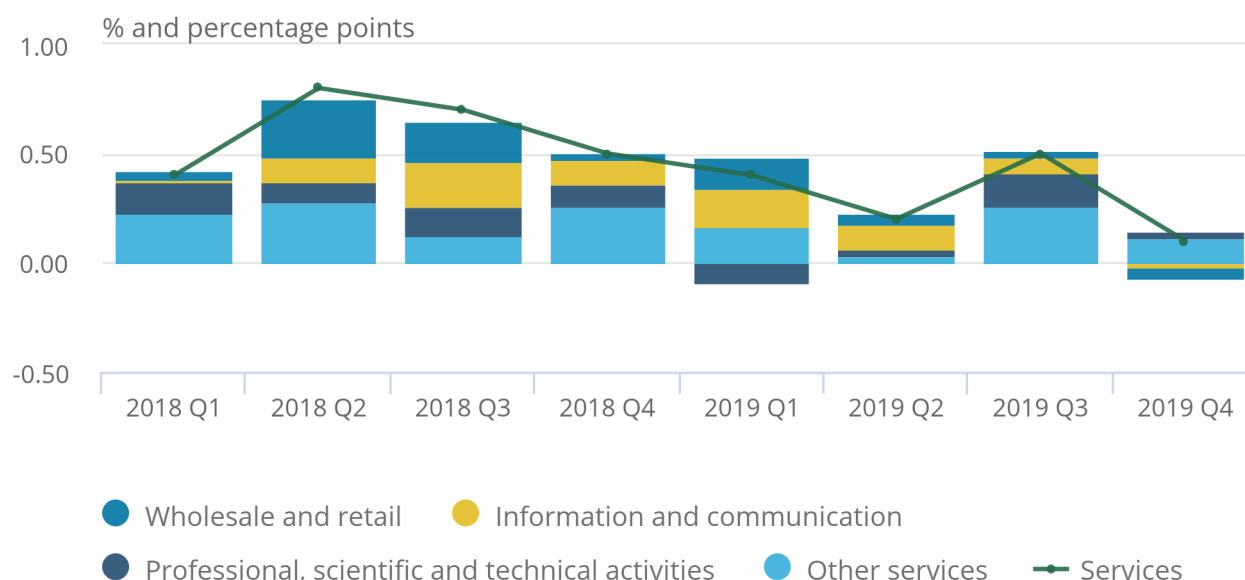
Real estate activities grew by 0.3% in Quarter 4, reflecting strength in estate agents and commercial real estate output. There was also an increase in education services output, which increased by 0.7%. There have been offsetting falls in several other industries, most notably wholesale and retail trade, which fell in the latest quarter for the first time since the Quarter 1 (Jan to Mar) 2017, predominantly reflecting the [1.0% fall in retail sales](#) in the final three months of 2019. Anecdotal evidence suggested that goods did not sell as well as expected in December 2019. The decline in retail sales is corroborated by data from the [British Retail Consortium](#) (BRC) – who recorded a 0.9% decline in sales in November and December 2019 – and noted how 2019 was “the worst year on record and the first year to show an overall decline in retail sales”.

### Figure 3: Service sector output growth has slowed in Quarter 4 2019

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

## Figure 3: Service sector output growth has slowed in Quarter 4 2019

UK, Quarter 1 (Jan to Mar) 2018 to Quarter 4 (Oct to Dec) 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 quarter-on-quarter service sector growth.
3. Components contributions may not sum to total due to rounding.

The volatility throughout the first half of 2019 has been particularly pronounced in the production sector, specifically in manufacturing. This was consistent with activity being brought forward ahead of the UK's original intended EU departure date, followed by a slowdown in activity in Quarter 2 (Apr to June) exacerbated by partial car plant shutdowns in April. Similar impacts were seen in the manufacturing sector ahead of the second intended EU departure date in October, although to a lesser degree.

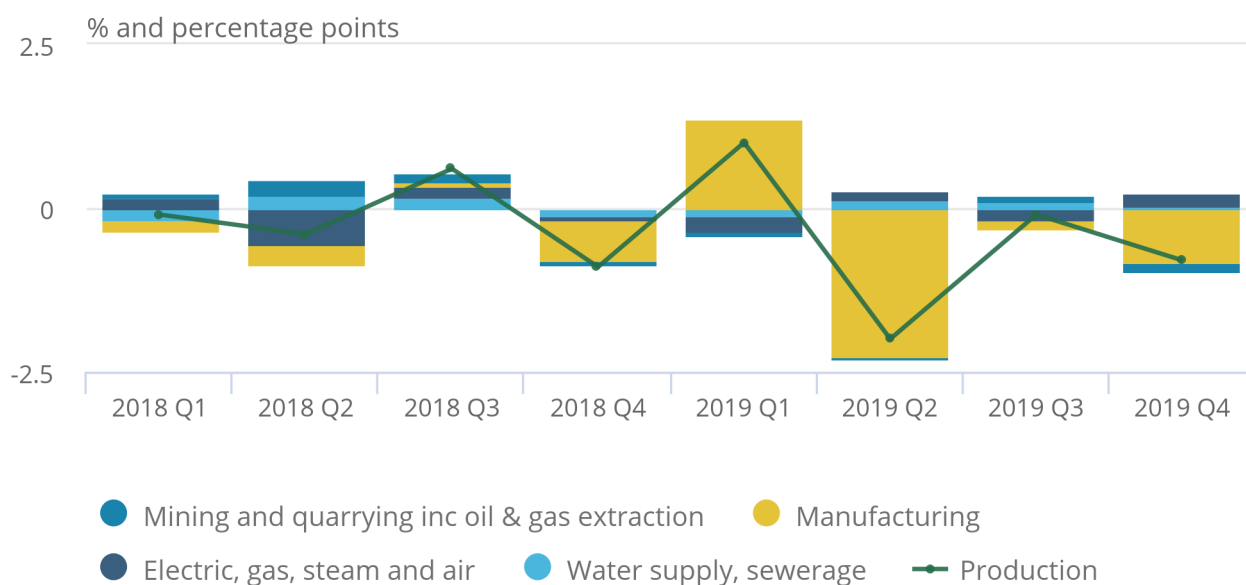
However, likely in part linked to the timing of planned exit dates within the quarter, these impacts are less clear when you look at Quarter 4 as a whole when compared with Quarter 1. There have also been downwards revisions to production throughout 2019, with a 1.3% decline in UK production output in 2019. This is the first annual contraction in production output since 2013, while manufacturing output fell by 1.5% overall in 2019, which may partially reflect relatively [weaker global GDP growth](#), as global trade tensions have weighed on economic activity.

**Figure 4: Manufacturing has subtracted from growth for the third consecutive quarter**

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

## Figure 4: Manufacturing has subtracted from growth for the third consecutive quarter

UK, Quarter 1 (Jan to Mar) 2018 to Quarter 4 (Oct to Dec) 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 quarter-on-quarter production growth.
3. Components contributions may not sum to total due to rounding.



The 0.8% quarterly decline in production output has been predominantly driven by the continued fall in manufacturing output. While there is some external evidence that there was an increase in stockbuilding in the latest quarter, it is difficult to unpick the extent to which this has affected manufacturing output over this period, despite some evidence of activity being brought forward ahead of the second intended EU exit date in October. The [Bank of England Agents Summary](#) noted how “stockbuilding activity ahead of the October Brexit deadline was lower than it had been ahead of the original March deadline”. The weakness in the manufacturing industry in the three months to December is corroborated by the [CBI Industrial Trends Survey](#), who noted how output volumes fell at the fastest rate since September 2009, reflecting “widespread weakness in the global manufacturing sector and the impact of continued Brexit uncertainty in the run-up to the General Election”. The [British Chambers of Commerce](#) also reported how the manufacturing sector remained weak by historical standards in Quarter 4 2019, as domestic and export orders continued to contract.

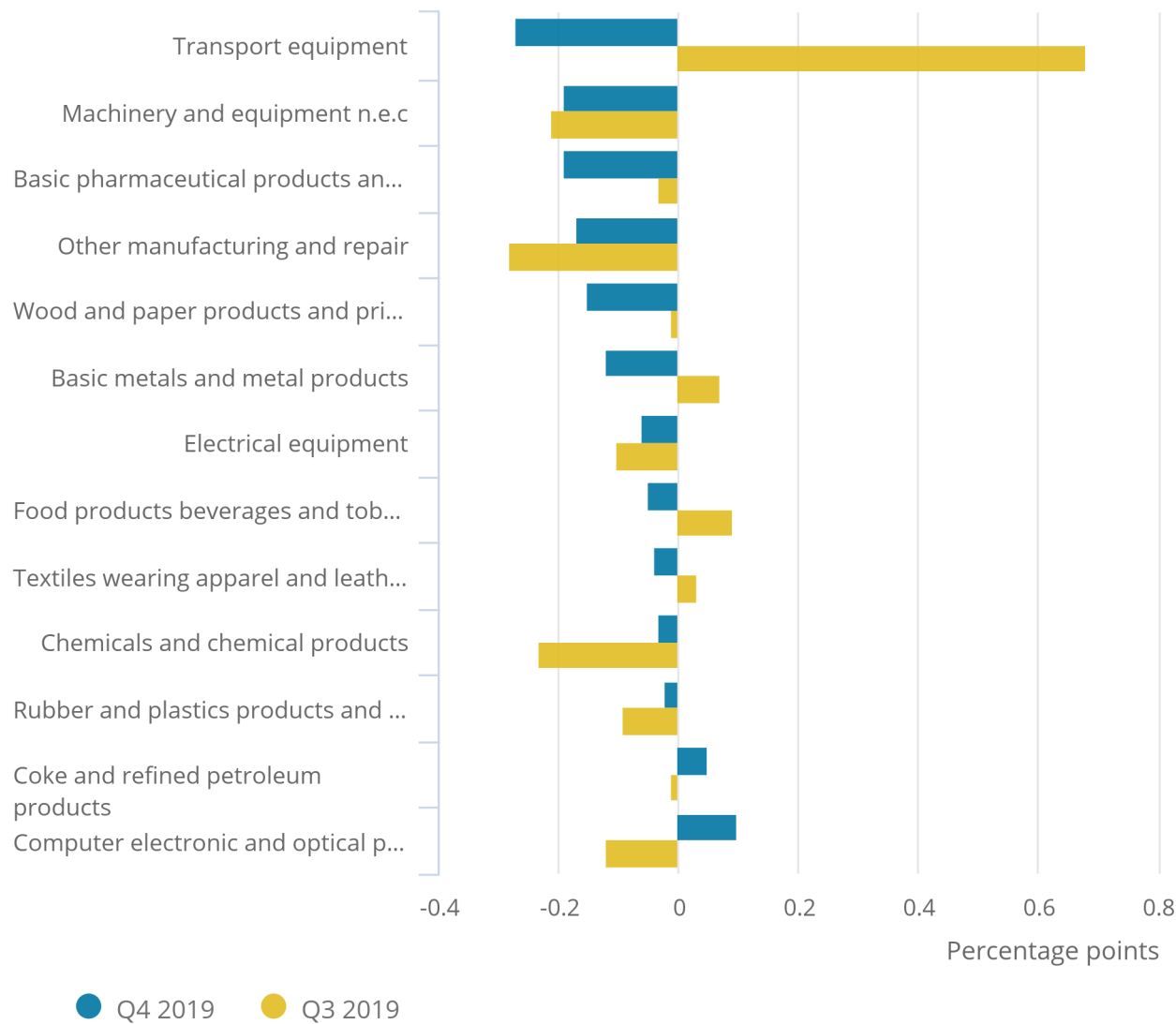
The fall in manufacturing output reflects widespread declines across a number of industries (Figure 5). The manufacture of transport equipment fell sharply, which partially reflects a number of car plant shutdowns in November 2019. The decline in transport equipment manufacturing is also evident in recent data from the [Society of Motor Manufacturers and Traders \(SMMT\)](#), who recorded a 6.4% fall in car production in Quarter 4, and a 14.2% decline in 2019 as a whole. The SMMT attributed to the decline to a number of factors, including weakened consumer and business confidence at home, slower demand in important overseas markets, a number of significant model production changes, and a shift from diesel across Europe. The often-volatile manufacture of pharmaceutical products also fell in the final quarter of 2019 following a relatively flat Quarter 3.

Figure 5: There were widespread falls in the manufacturing industries in Quarter 4 2019

UK, Quarter 3 (July to Sept) and Quarter 4 (Oct to Dec) 2019

Figure 5: There were widespread falls in the manufacturing industries in Quarter 4 2019

UK, Quarter 3 (July to Sept) and Quarter 4 (Oct to Dec) 2019



Source: Office for National Statistics

Notes:

- 1. Q3 refers to Quarter 3 (July to Sept) and Q4 refers to Quarter 4 (Oct to Dec).
- 2. Chart shows contribution to quarter-on-quarter manufacturing growth.
- 3. Components contributions may not sum to total due to rounding.

Mining and quarrying fell 2.8% in Quarter 4, partially reflecting ongoing shutdown issues at an onshore facility which are increasingly impacting North Sea gas production. Following some volatility in the first three quarters of 2019, electricity, gas, steam and air conditioning increased by 1.8% Quarter 4, while water supply and sewerage production grew for the third consecutive month, increasing by 0.5% in Quarter 4 2019.

Construction output increased by 0.5% in Quarter 4 2019. The quarterly increase reflects strength in new construction work, particularly in private commercial and public housing in the three months to December 2019. The quarterly increase in construction output is stronger than the majority of external evidence, including the [Bank of England Agents Summary](#) which recorded a marginal reduction in construction activity in Quarter 4 as uncertainty caused delays in a number of construction industries. This stronger than expected performance partially reflects an upwards revision to construction output in November 2019 (revised up 0.5 percentage points) following late and revised survey returns.

## **5 . Household consumption was subdued in the final quarter of 2019**

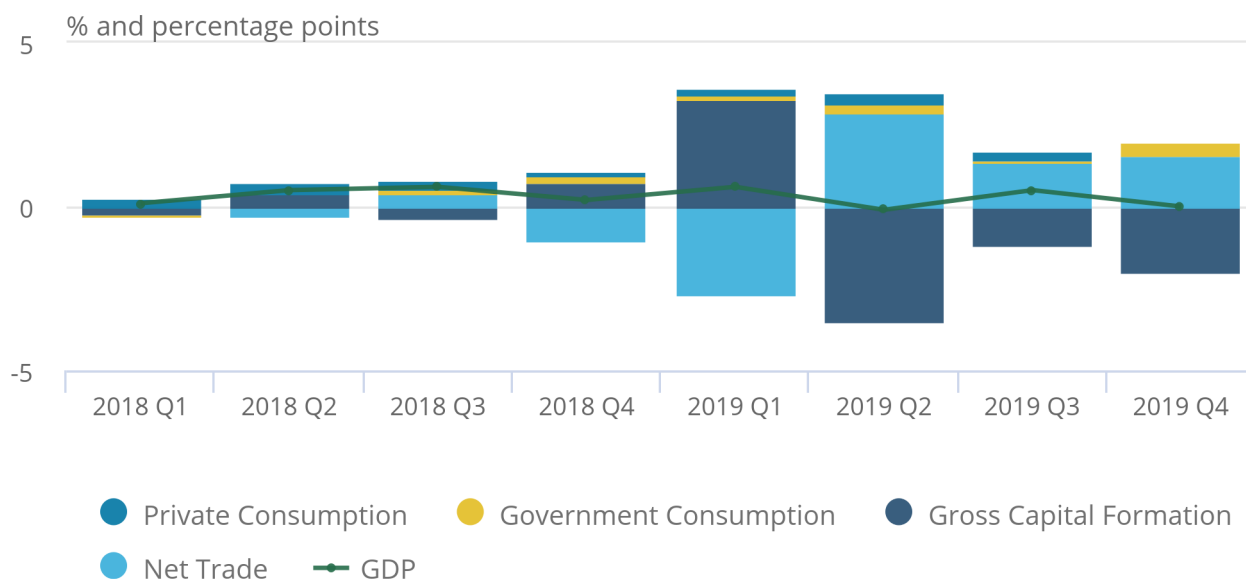
The expenditure measure of gross domestic product (GDP) was flat in Quarter 4 (Oct to Dec) 2019. Private consumption was subdued in the latest quarter, as government consumption and net trade contributed positively to growth. Gross capital formation (GCF) fell in Quarter 4 2019, although there was some evidence of stockbuilding taking place in the latest quarter (Figure 6).

**Figure 6: Private consumption, government consumption and net trade contributed positively to growth in Quarter 4 2019 while gross capital formation subtracted from growth**

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

Figure 6: Private consumption, government consumption and net trade contributed positively to growth in Quarter 4 2019 while gross capital formation subtracted from growth

UK, Quarter 1 (Jan to Mar) 2018 to Quarter 4 (Oct to Dec) 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 real GDP quarter-on-quarter growth.
3. Components contributions may not sum to total due to rounding. The statistical discrepancy is also not displayed.
4. Private consumption is household final consumption expenditure and non-profit institutions serving households.

Household consumption increased by a subdued 0.1% in Quarter 4 2019, continuing its recent slowing. The increase of 1.4% in 2019 is its weakest annual growth rate since 2011. The latest [Bank of England Agents' Summary of Business Conditions](#) also noted muted growth in consumer demand, stating that "annual growth in retail sales values remained subdued" in the final quarter of 2019. The latest official figures show that [retail sales](#) fell 1.0% in Quarter 4 2019. The [GfK Consumer Confidence](#) figures in December found that there was a slight increase in consumer sentiment at the end of 2019, though the overall Consumer Confidence Index score remains in negative territory.

Government consumption increased by 2.1% in Quarter 4 2019, a notable pickup from the previous quarter and the strongest quarterly growth since Quarter 1 (Jan to Mar) 2012. The increase reflects higher central government spending in the areas of public administration, defence services, health expenditure, and education. It should be noted that the latest data are partly based on budgetary forecasts rather than actual spending and as such will be subject to revision as actual spend data become available.

There have been revisions to the quarterly path of government consumption in the first three quarters of 2019 as forecast data have been replaced by outturn data.

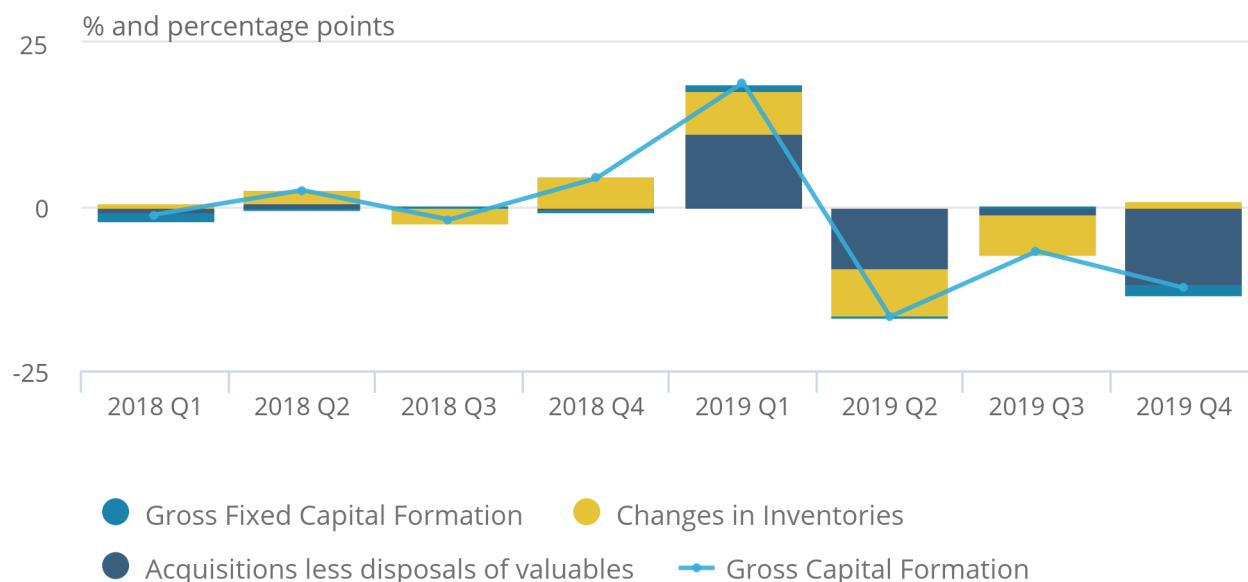
Gross Capital Formation – which includes gross fixed capital formation, changes in inventories and acquisitions less disposal of valuables – fell 12.4% in Quarter 4 2019. This was largely driven by acquisitions less disposal of valuables, reflecting large movements in non-monetary gold in the latest quarter (Figure 7). These movements do not affect headline GDP, as they are recorded as equivalent offsetting impacts in the UK National Accounts, but they are reflected in the composition of GDP growth. More information on [how non-monetary gold features in GDP](#) is available.

**Figure 7: Gross capital formation weakness in Quarter 4 2019 is largely driven by acquisitions less disposal of valuables**

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

**Figure 7: Gross capital formation weakness in Quarter 4 2019 is largely driven by acquisitions less disposal of valuables**

UK, Quarter 1 (Jan to Mar) 2018 to Quarter 4 (Oct to Dec) 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. Contributions represent contributions to gross capital formation quarter-on-quarter growth.
3. These figures include the statistical alignment adjustment.
4. As change in inventories and acquisition less disposal of valuables are change series, it is not possible to calculate fully additive contributions to growth. As a result, component contributions may not sum to total GCF.

Gross fixed capital formation (GFCF) fell by 1.6% in the fourth quarter of 2019. The fall was driven by declines in investment in information and communication technology (ICT) equipment, dwellings, transport, and intellectual property products, though these were partially offset by an increase in investment in other buildings and structures. Business investment fell by 1.0% in the final quarter of the year, continuing its recent subdued performance as heightened uncertainty is likely to have weighed on the willingness of firms to invest in capital. These figures have been subject to balancing in Quarter 4 2019 (see the Quality and methodology section for more information) therefore they should be interpreted with some caution.

External evidence suggests that investment intentions remained weak. For example, the latest [Bank of England Agents' Summary of Business Conditions](#) reports that investment intentions remained depressed in Quarter 4 2019 as the result of "slower global growth and political uncertainty". The Quarter 4 2019 [Decision Maker's Panel](#) states that "the share of firms reporting that Brexit was an important source of uncertainty for their business remained elevated in November". However, the more timely [Deloitte CFO Survey](#) points out that Brexit is no longer a top concern for CFOs, citing the easing in trade tensions between the United States and China towards the end of 2019, and the reduced political uncertainty following the December 2019 UK General Election amongst reasons for this trend.

The latest estimates show that government investment decreased by 0.5% in Quarter 4 2019, signalling the third consecutive quarter of decline. There were some revisions to the quarterly path of government investment in 2019, most notably a downwards revision in Quarter 2 2019, reflecting seasonal adjustment updates. Government investment is estimated to have grown 2.1% in 2019, although users should note that government investment figures are based on the latest available budgetary information provided by government departments including HM Treasury and local government. These estimates may be subject to revision when outturn data become available.

Alignment and balancing adjustments are typically applied to the inventories component to help balance the different approaches to GDP – more detail on these can be found in the Quality and methodology section of this publication. When these adjustments are removed, there is some evidence that stockbuilding was taking place in late 2019, as there was an increase of £2.2 billion in stocks being held by UK companies in Quarter 4 2019 (Table 2). In terms of contribution to growth, change in inventories excluding alignment and balancing adjustments contributed 1.46 percentage points to GDP growth in the latest quarter (Figure 8).

Table 2: Change in inventories, including and excluding balancing and alignment adjustments  
UK, Quarter 1 (Jan to Mar) 2019 to Quarter 4 (Oct to Dec) 2019

		<b>Change in Inventories</b>	<b>Of which alignment</b>	<b>Of which balancing</b>	<b>Change in Inventories excluding alignment and balancing</b>
<b>2019 Q1</b>	<b>Current price</b>	8,526	1,390		7,136
	<b>Chained volume measure</b>	6,969	1,317		5,652
<b>2019 Q2</b>	<b>Current price</b>	1,871	169	-500	2,202
	<b>Chained volume measure</b>	-351	155	-500	-6
<b>2019 Q3</b>	<b>Current price</b>	-2,424	194	-500	-2,118
	<b>Chained volume measure</b>	-5,777	178	-500	-5,455
<b>2019 Q4</b>	<b>Current price</b>	547	-1,753	-3,250	5,550
	<b>Chained volume measure</b>	-4,941	-1,650	-5,500	2,209

Source: Office for National Statistics

#### Notes

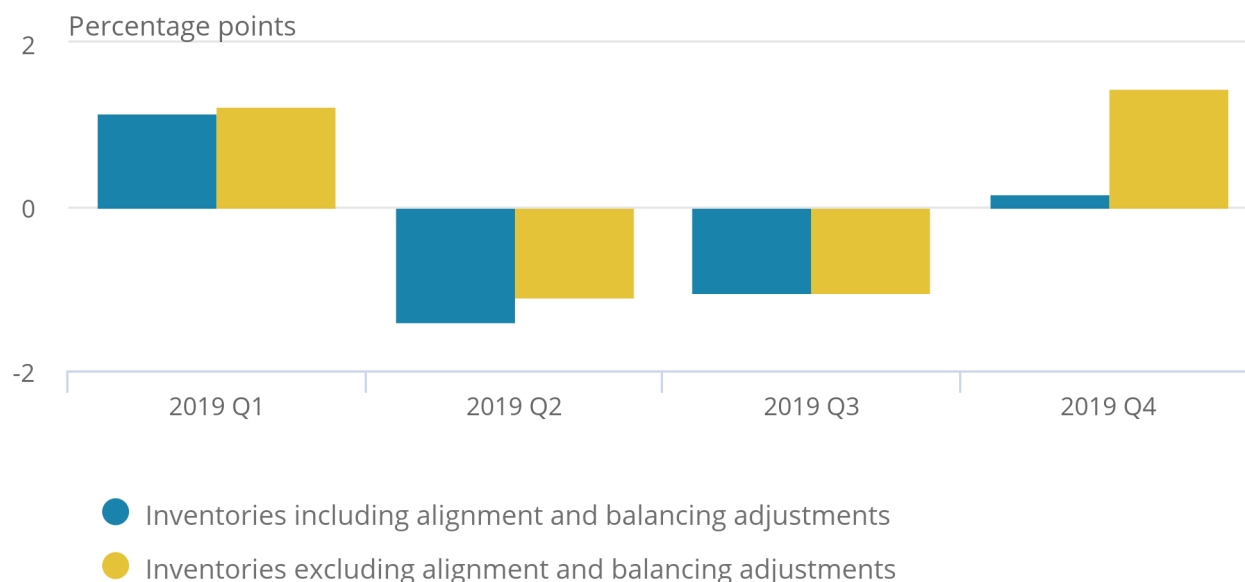
1. Data are in £ millions. [Back to table](#)
2. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept) and Q4 refers to Quarter 4 (Oct to Dec). [Back to table](#)

**Figure 8: Excluding alignment and balancing adjustments, change in inventories contributed 1.46 percentage points to GDP growth in Quarter 4 2019**

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

Figure 8: Excluding alignment and balancing adjustments, change in inventories contributed 1.46 percentage points to GDP growth in Quarter 4 2019

UK, Quarter 1 (Jan to Mar) 2019 to Quarter 4 (Oct to Dec) 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. Contributions represent contributions to overall GDP growth.
3. 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.

Trade imports and exports have been volatile through 2019, in part reflecting the effects of movements of “unspecified goods”, which include non-monetary gold. Today’s estimates show that the UK posted a trade surplus of £5.9 billion – or 1.1% of nominal GDP – in Quarter 4 2019. However, it should be noted that this figure is inclusive of precious metals. When precious metals are excluded, today’s estimates show that the UK had a trade deficit of 1.2% of nominal GDP in the latest quarter (Figure 9). Users are advised that significant balancing adjustments have been applied to trade figures to produce a balanced estimate of GDP, more detail can be found in the Quality and methodology section.

At face value, the headline imports figures do not show strong evidence consistent with stockpiling, but when we look at the monthly path of imports from the EU we do see a pattern consistent with that seen in advance of the UK’s original departure date at the end March, albeit less pronounced. More detailed information can be found in the [UK Trade](#) release.

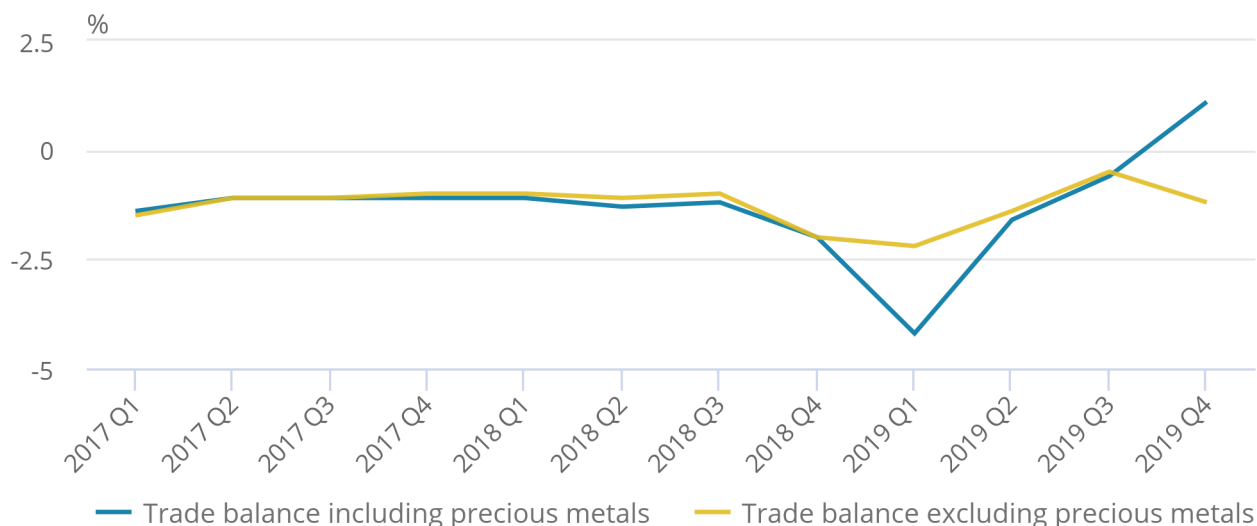


**Figure 9: The UK posted a trade surplus of 1.1% of nominal GDP in Quarter 4 2019, though the trade balance was in deficit excluding precious metals**

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 4 (Oct to Dec) 2019

Figure 9: The UK posted a trade surplus of 1.1% of nominal GDP in Quarter 4 2019, though the trade balance was in deficit excluding precious metals

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 4 (Oct to Dec) 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. The trade balance is calculated using current price estimates of GDP and net trade.

## 6 . Nominal GDP increased by 0.1% in Quarter 4 2019

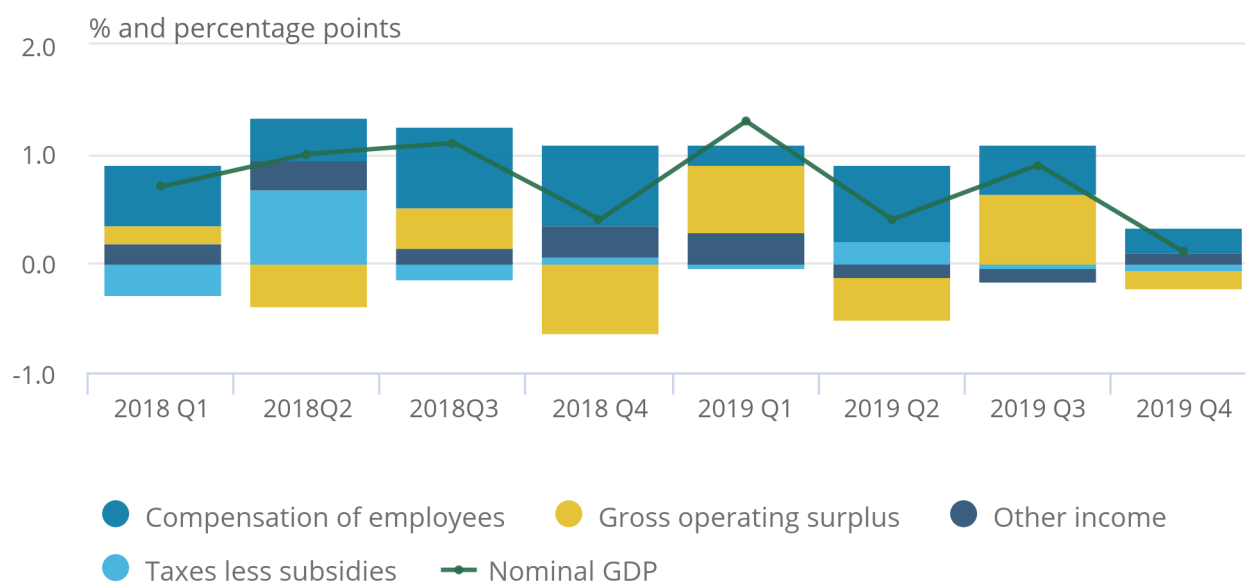
Nominal gross domestic product (GDP) grew 0.1% in Quarter 4 (Oct to Dec) 2019, following an increase of 0.9% in the previous quarter (Figure 10). This is the weakest quarterly figure since Quarter 2 2011. Compensation of employees (CoE) increased 0.7% in the fourth quarter, driven by wages and salaries which grew by 0.8%.

**Figure 10: Nominal GDP growth slowed to 0.1% in Quarter 4 2019**

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

## Figure 10: Nominal GDP growth slowed to 0.1% in Quarter 4 2019

UK, Quarter 1 (Jan to Mar) 2018 to Quarter 4 (Oct to Dec) 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 nominal GDP quarter-on-quarter growth.
3. Components contributions may not sum to total because of rounding.

Gross operating surplus (GOS) of corporations fell 1.1% in the fourth quarter, following an increase of 3.3% in the previous quarter. Meanwhile, following two consecutive quarters of decline, other income (which includes mixed income and the operating surplus of the non-corporate sector) grew 0.8% in Quarter 4 2019, driven by self-employment income.

## 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 20 December 2019 and are consistent with the data in this release up to Quarter 4 (Oct to Dec) 2018.

A number of other economic indicators were published on 11 February 2020, these include:

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

## 8 . Quality and methodology

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

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

### Important quality information

There are common pitfalls in interpreting data series 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 “Accuracy and reliability” section in the [Gross domestic product \(GDP\) QMI](#) analyses the mean average revision and the mean absolute revision for GDP estimates over data publication iterations.

## Reaching the GDP balance

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

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

Alignment adjustments, found in Table M of the [GDP data tables](#) in this release, have a target limit of plus or minus £2,000 million on any quarter. However, in periods where the data sources are particularly difficult to balance, larger alignment adjustments are sometimes needed. To achieve a balanced GDP dataset through alignment, balancing adjustments are applied to the components of GDP where required. The balancing adjustments applied in this quarter are shown in Table 3.

In our first quarterly estimate, output tends to paint a more reliable picture of what is happening overall in the economy, and so balancing adjustments are applied to the expenditure and income components of GDP where required to align to output. These adjustments are generally applied to the individual components where data content is particularly weak in a given quarter because of a higher level of forecast content. We have applied larger than usual adjustments to the expenditure approach in Quarter 4 (Oct to Dec) 2019 in part after heightened uncertainty around the impact of the UK's planned exit from the EU on the activity of businesses. 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 to Quarter 4 (Oct to Dec) 2019

**GDP measurement approach and component adjustment applied to Q1 2019 Q2 2019 Q3 2019 Q4 2019**

**Expenditure**

Trade in Services (exports)	Current prices	500	-	-1,000	-1,250
	Chained volume measure	1,000	-	-1,000	-1,250
Trade in Services (imports)	Current prices	-		500	3,250
	Chained volume measure	-	250	750	3,250
Change in inventories	Current prices	-	-500	-500	-3,250
	Chained volume measure	-	-500	-500	-5,500
Gross fixed capital formation	Current prices	-	-	-	-250
	Chained volume measure	-	-	-	-250

**Income**

Private non-financial corporations GOS	Current prices	-600	-600	-	-
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Source: Office for National Statistics

**Notes**

1. Adjustments are in £ million. [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. GOS refers to Gross Operating Surplus. [Back to table](#)

# A1 National accounts aggregates<sup>1,2</sup>

2016 = 100

	Value indices at current prices		Chained volume indices			Implied deflators <sup>3</sup>		
	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
2017	103.8	103.9	101.9	102.0	102.8	102.2	101.9	101.8
2018	107.5	107.6	103.3	103.3	104.9	104.3	104.1	104.1
2019	111.0	111.2	104.7	104.8	106.1	106.2	106.0	106.2
<b>Seasonally adjusted</b>								
2017 Q3	103.8	103.7	102.0	102.1	103.0	102.1	101.7	101.6
Q4	105.2	105.3	102.4	102.5	103.7	102.9	102.7	102.7
2018 Q1	106.0	106.3	102.5	102.6	103.9	103.5	103.4	103.7
Q2	107.0	106.9	103.0	103.1	104.6	104.0	103.9	103.7
Q3	108.2	108.3	103.6	103.7	105.3	104.8	104.4	104.5
Q4	108.6	108.7	103.9	103.9	105.6	104.9	104.6	104.6
2019 Q1	110.1	110.3	104.5	104.6	106.1	105.3	105.3	105.5
Q2	110.6	110.7	104.4	104.5	105.8	106.0	105.9	106.0
Q3	111.6	111.8	104.9	105.0	106.3	106.8	106.3	106.5
Q4	111.7	112.1	105.0	105.0	106.2	106.8	106.5	106.7
<b>Percentage change, latest year on previous year</b>								
	IHYM	KGL6	IHYP	KGM7	L489	KH7D	IHYS	KGM4
2017	3.8	3.9	1.9	2.0	2.8	2.2	1.9	1.8
2018	3.5	3.6	1.3	1.3	2.0	2.1	2.1	2.2
2019	3.3	3.4	1.4	1.4	1.1	1.8	1.9	2.0
<b>Percentage change, latest quarter on previous quarter</b>								
	IHYN	KGL8	IHYQ	KGM9		KH7E	IHYT	KGM5
2017 Q3	0.4	0.2	0.3	0.3	0.5	0.2	0.1	-0.1
Q4	1.4	1.5	0.4	0.4	0.7	0.8	1.0	1.2
2018 Q1	0.7	0.9	0.1	—	0.2	0.6	0.6	0.9
Q2	1.0	0.5	0.5	0.5	0.7	0.4	0.5	—
Q3	1.1	1.4	0.6	0.6	0.7	0.8	0.5	0.8
Q4	0.4	0.4	0.2	0.2	0.2	—	0.2	0.2
2019 Q1	1.3	1.4	0.6	0.7	0.5	0.4	0.7	0.8
Q2	0.4	0.4	-0.1	-0.1	-0.3	0.7	0.5	0.5
Q3	0.9	1.0	0.5	0.5	0.5	0.8	0.4	0.5
Q4	0.1	0.2	—	—	-0.1	—	0.1	0.2
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>								
	IHYO	KGM2	IHYR	KGN3	L48D	KH7F	IHYU	KGM6
2017 Q3	3.4	3.2	1.8	1.9	2.9	1.8	1.6	1.3
Q4	3.5	3.6	1.6	1.6	2.7	2.2	1.8	2.0
2018 Q1	2.9	3.3	1.1	1.0	1.7	1.5	1.9	2.2
Q2	3.6	3.3	1.3	1.3	2.1	2.1	2.2	2.0
Q3	4.3	4.4	1.6	1.5	2.3	2.7	2.6	2.9
Q4	3.3	3.2	1.4	1.4	1.8	1.9	1.8	1.9
2019 Q1	3.9	3.7	2.0	2.0	2.1	1.6	1.9	1.7
Q2	3.3	3.6	1.3	1.3	1.1	1.9	1.9	2.3
Q3	3.1	3.2	1.2	1.3	0.9	1.9	1.8	2.0
Q4	2.9	3.1	1.1	1.1	0.6	1.8	1.8	2.0

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 sum of expenditure components of GDP at current prices and at chained volume terms.

# A2 National accounts aggregates<sup>1</sup>

£ million

	Current prices			Chained volume measures (Reference year 2016)			
	Gross domestic product at market prices	less Basic price adjustment <sup>2</sup>	Gross value added at basic prices	Gross domestic product at market prices	less Basic price adjustment <sup>2</sup>	Gross value added at basic prices	Gross value added excluding oil & gas <sup>3</sup>
	YBHA	NTAP	ABML	ABMI	NTAO	ABMM	KLS2
2017	2 071 667	224 764	1 846 903	2 033 234	219 805	1 813 429	1 804 895
2018	2 144 304	231 722	1 912 582	2 060 494	223 392	1 837 102	1 827 953
2019	2 214 890	236 813	1 978 077	2 089 402	226 539	1 862 863	1 853 757
<b>Seasonally adjusted</b>							
2017 Q3	517 788	56 732	461 056	508 982	55 022	453 960	451 784
Q4	524 887	56 696	468 191	511 014	55 278	455 736	453 634
2018 Q1	528 589	55 957	472 632	511 318	55 377	455 941	453 775
Q2	533 844	58 803	475 041	514 011	55 709	458 302	456 025
Q3	539 878	58 331	481 547	517 029	56 071	460 958	458 781
Q4	541 993	58 631	483 362	518 136	56 235	461 901	460 298
2019 Q1	549 203	58 896	490 307	521 458	56 551	464 907	462 627
Q2	551 534	59 224	492 310	520 893	56 472	464 421	462 154
Q3	556 693	59 498	497 195	523 463	56 739	466 724	464 409
Q4	557 460	59 195	498 265	523 588	56 777	466 811	464 567
<b>Percentage change, latest year on previous year</b>							
	IHYM		KGL6	IHYP		KGM7	KLH8
2017	3.8		3.9	1.9		2.0	2.0
2018	3.5		3.6	1.3		1.3	1.3
2019	3.3		3.4	1.4		1.4	1.4
<b>Percentage change, latest quarter on previous quarter</b>							
	IHYN		KGL8	IHYQ		KGM9	
2017 Q3	0.4		0.2	0.3		0.3	0.3
Q4	1.4		1.5	0.4		0.4	0.4
2018 Q1	0.7		0.9	0.1		–	–
Q2	1.0		0.5	0.5		0.5	0.5
Q3	1.1		1.4	0.6		0.6	0.6
Q4	0.4		0.4	0.2		0.2	0.3
2019 Q1	1.3		1.4	0.6		0.7	0.7
Q2	0.4		0.4	–0.1		–0.1	–0.1
Q3	0.9		1.0	0.5		0.5	0.5
Q4	0.1		0.2	–		–	–
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>							
	IHYO		KGM2	IHYR		KGN3	KLH9
2017 Q3	3.4		3.2	1.8		1.9	1.9
Q4	3.5		3.6	1.6		1.6	1.6
2018 Q1	2.9		3.3	1.1		1.0	1.0
Q2	3.6		3.3	1.3		1.3	1.3
Q3	4.3		4.4	1.6		1.5	1.5
Q4	3.3		3.2	1.4		1.4	1.5
2019 Q1	3.9		3.7	2.0		2.0	2.0
Q2	3.3		3.6	1.3		1.3	1.3
Q3	3.1		3.2	1.2		1.3	1.3
Q4	2.9		3.1	1.1		1.1	1.1

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<sup>1,2</sup>

2016 = 100

	Production							Service industries						
	Agri- culture, forestry, and fishing	Mining & quarrying inc oil & gas extract	Manu- facturing	Electric, gas, steam & air	Water supply, sewerage	Total	Constr- uction	Distri- bution, hotels & restaura- nts	Transport storage and commu- nications	Business services and finance	Govern- ment and other services	Total	Gross value added <sup>4</sup>	Gross value added excluding oil & gas
<b>2016 Weights<sup>3</sup></b>	7	6	102	15	13	136	61	133	108	339	217	796	1000	995
	L2KL	L2KR	L2KX	L2MW	L2N2	L2KQ	L2N8	L2PZ	KI8M	KI8O	KI8Q	L2NC	CGCE	KLH7
2017	105.7	101.7	102.2	98.2	102.0	101.7	106.4	102.4	103.6	101.0	101.2	101.7	102.0	102.0
2018	102.5	107.1	103.1	96.7	102.5	102.5	106.4	105.5	107.6	102.8	101.9	103.7	103.3	103.3
2019	100.8	106.6	101.6	93.9	104.0	101.2	109.1	108.2	112.5	103.4	103.7	105.5	104.8	104.7
<b>Seasonally adjusted</b>														
2017 Q3	106.3	103.3	102.3	98.7	101.3	101.8	106.4	102.7	104.0	101.1	101.2	101.8	102.1	102.1
Q4	105.3	100.6	103.8	98.5	101.9	102.9	107.2	102.9	105.1	101.6	101.1	102.2	102.5	102.5
2018 Q1	103.3	102.1	103.6	100.0	100.1	102.8	105.3	103.3	105.0	102.4	101.3	102.6	102.6	102.6
Q2	102.3	107.0	103.2	94.9	102.3	102.4	106.1	105.3	106.5	102.7	101.7	103.4	103.1	103.1
Q3	102.0	110.4	103.3	96.4	104.2	102.9	107.2	106.5	108.7	102.9	102.1	104.1	103.7	103.7
Q4	102.7	108.9	102.4	95.5	103.3	102.0	107.2	107.1	110.0	103.3	102.5	104.6	103.9	104.0
2019 Q1	101.4	107.4	104.3	93.2	102.3	103.0	109.1	108.2	111.6	103.0	103.0	105.0	104.6	104.6
Q2	100.9	106.1	101.2	94.5	103.6	100.9	108.1	108.4	112.4	103.0	103.4	105.3	104.5	104.5
Q3	100.5	107.9	101.0	93.0	104.8	100.8	109.3	108.4	113.1	103.6	104.0	105.8	105.0	105.0
Q4	100.2	104.8	99.8	94.7	105.3	100.0	109.9	108.0	113.0	103.8	104.4	105.9	105.0	105.0
<b>Percentage change, latest year on previous year</b>														
	L3BB	L3BH	L3BN	L3DM	L3DQ	L3BG	L3DW	L3GP	KI8L	KI8N	KI8P	L3E2	KGM7	KLH8
2017	5.7	1.7	2.2	-1.8	2.0	1.7	6.4	2.4	3.6	1.0	1.2	1.7	2.0	2.0
2018	-3.0	5.3	0.9	-1.6	0.5	0.8	-	3.0	3.8	1.8	0.7	2.0	1.3	1.3
2019	-1.7	-0.5	-1.5	-2.9	1.5	-1.3	2.5	2.6	4.6	0.5	1.8	1.8	1.4	1.4
<b>Percentage change, latest quarter on previous quarter</b>														
													KGM9	
2017 Q3	0.6	1.3	0.9	0.3	1.0	0.9	0.1	0.4	0.6	0.5	-0.2	0.3	0.3	0.3
Q4	-1.0	-2.6	1.5	-0.2	0.6	1.1	0.7	0.2	1.0	0.5	-0.2	0.4	0.4	0.4
2018 Q1	-2.0	1.5	-0.2	1.6	-1.8	-0.1	-1.8	0.4	-0.1	0.7	0.2	0.4	-	-
Q2	-1.0	4.8	-0.4	-5.1	2.2	-0.4	0.8	1.9	1.4	0.3	0.4	0.8	0.5	0.5
Q3	-0.3	3.2	0.1	1.6	1.8	0.6	1.1	1.2	2.0	0.2	0.4	0.7	0.6	0.6
Q4	0.7	-1.4	-0.8	-0.9	-0.9	-0.9	-	0.5	1.2	0.3	0.4	0.5	0.2	0.3
2019 Q1	-1.2	-1.4	1.8	-2.3	-1.0	1.0	1.8	1.1	1.5	-0.3	0.5	0.4	0.7	0.7
Q2	-0.5	-1.2	-3.0	1.4	1.3	-2.0	-0.9	0.2	0.7	-	0.4	0.2	-0.1	-0.1
Q3	-0.4	1.7	-0.2	-1.6	1.2	-0.1	1.1	-	0.7	0.6	0.6	0.5	0.5	0.5
Q4	-0.2	-2.8	-1.1	1.8	0.5	-0.8	0.5	-0.4	-0.1	0.2	0.3	0.1	-	-
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>														
	L3ZZ	L427	L42D	L44C	L44G	L426	L44M	L47F	KII2	KIH9	KIH8	L44Q	KGN3	KLH9
2017 Q3	7.1	-0.4	2.6	-0.4	1.2	2.0	5.9	2.9	3.2	0.6	1.4	1.5	1.9	1.9
Q4	4.4	2.7	3.3	-3.1	0.5	2.3	5.4	1.3	3.5	0.6	1.0	1.2	1.6	1.6
2018 Q1	-2.2	1.2	2.1	2.7	-4.2	1.5	-0.7	1.4	3.2	1.6	0.3	1.4	1.0	1.0
Q2	-3.2	5.0	1.8	-3.5	2.0	1.4	-0.2	2.9	3.0	2.1	0.2	1.9	1.3	1.3
Q3	-4.1	6.9	1.0	-2.3	2.9	1.1	0.8	3.7	4.5	1.8	0.8	2.2	1.5	1.5
Q4	-2.5	8.2	-1.4	-3.1	1.3	-0.9	-	4.0	4.7	1.6	1.4	2.4	1.4	1.5
2019 Q1	-1.8	5.2	0.7	-6.8	2.1	0.2	3.7	4.7	6.3	0.6	1.7	2.4	2.0	2.0
Q2	-1.3	-0.8	-1.9	-0.4	1.2	-1.4	1.9	3.0	5.5	0.3	1.6	1.8	1.3	1.3
Q3	-1.5	-2.2	-2.2	-3.5	0.6	-2.1	2.0	1.8	4.1	0.7	1.9	1.7	1.3	1.3
Q4	-2.4	-3.7	-2.5	-0.8	2.0	-2.0	2.5	0.9	2.7	0.6	1.8	1.3	1.1	1.1

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.

5 For the most accurate figures on construction, please refer to the Construction output in Great Britain release



# B2 Gross value added at chained volume measures basic prices, by category of output<sup>1,2</sup>

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 <sup>4</sup>	Total services
<b>2016 Weights<sup>3</sup></b>	105	108	28	72	140	126	49	58	75	35	796
	L2NE	KI8M	L2NQ	L2O6	L2OC	L2OH	L2P8	L2PA	L2PC	L2Q5	L2NC
2017	102.5	103.6	102.4	99.1	99.0	104.3	100.8	101.2	101.0	102.1	101.7
2018	105.7	107.6	104.9	98.1	99.6	109.0	101.6	101.9	101.5	103.2	103.7
2019	108.7	112.5	106.6	95.3	100.3	111.4	103.5	104.7	103.4	103.2	105.5
<b>Seasonally adjusted</b>											
2017 Q3	102.8	104.0	102.5	98.9	98.8	104.9	100.7	101.2	101.1	102.6	101.8
Q4	103.1	105.1	102.2	98.1	99.1	106.5	100.9	101.0	100.6	102.3	102.2
2018 Q1	103.4	105.0	102.9	99.2	99.5	107.4	100.8	101.1	101.2	102.5	102.6
Q2	105.4	106.5	104.7	98.6	99.7	108.4	101.3	101.7	101.2	103.6	103.4
Q3	106.9	108.7	105.2	97.6	99.6	109.5	102.3	102.0	101.5	103.4	104.1
Q4	107.1	110.0	106.8	96.8	99.7	110.8	102.2	102.7	102.0	103.5	104.6
2019 Q1	108.4	111.6	107.6	95.4	100.0	110.7	103.3	103.8	102.5	102.4	105.0
Q2	108.8	112.4	107.0	94.6	100.2	110.8	103.6	104.5	102.8	102.5	105.3
Q3	109.0	113.1	106.1	95.7	100.4	111.8	103.5	104.8	103.8	104.2	105.8
Q4	108.6	113.0	105.7	95.4	100.7	112.2	103.5	105.5	104.3	103.8	105.9
<b>Percentage change, latest year on previous year</b>											
	L3E4	KI8L	L3EG	L3EU	L3F2	L3F7	L3FW	L3FY	L3G2	L3GT	L3E2
2017	2.5	3.6	2.4	-0.9	-1.0	4.3	0.8	1.2	1.0	2.1	1.7
2018	3.2	3.8	2.5	-1.1	0.6	4.5	0.9	0.7	0.4	1.1	2.0
2019	2.8	4.6	1.6	-2.8	0.7	2.1	1.8	2.7	1.8	-0.1	1.8
<b>Percentage change, latest quarter on previous quarter</b>											
2017 Q3	0.5	0.6	-0.2	-0.7	-0.1	1.8	-0.4	-	-0.4	0.1	0.3
Q4	0.3	1.0	-0.3	-0.8	0.3	1.5	0.2	-0.2	-0.4	-0.2	0.4
2018 Q1	0.3	-0.1	0.7	1.1	0.4	0.9	-0.1	0.1	0.6	0.2	0.4
Q2	1.9	1.4	1.7	-0.6	0.2	0.9	0.4	0.6	-0.1	1.1	0.8
Q3	1.4	2.0	0.5	-1.0	-0.1	1.1	1.0	0.3	0.3	-0.2	0.7
Q4	0.2	1.2	1.5	-0.8	0.1	1.2	-	0.8	0.5	0.1	0.5
2019 Q1	1.1	1.5	0.8	-1.5	0.2	-0.1	1.1	1.0	0.5	-1.1	0.4
Q2	0.4	0.7	-0.5	-0.8	0.3	0.1	0.2	0.7	0.3	0.1	0.2
Q3	0.2	0.7	-0.9	1.2	0.1	0.9	-	0.3	0.9	1.6	0.5
Q4	-0.4	-0.1	-0.3	-0.3	0.3	0.3	-	0.7	0.5	-0.4	0.1
<b>Percentage change, latest quarter on corresponding quarter of the previous year</b>											
	L44S	KI12	L456	L45K	L45Q	L45V	L46M	L46O	L46Q	L47J	L44Q
2017 Q3	3.0	3.2	2.4	-3.2	-1.1	4.7	1.0	1.6	1.1	2.3	1.5
Q4	1.2	3.5	1.5	-2.9	-1.5	4.9	1.1	0.9	0.3	2.7	1.2
2018 Q1	1.7	3.2	0.7	-0.7	0.2	4.4	0.4	-0.4	0.3	1.5	1.4
Q2	3.2	3.0	2.0	-1.0	0.8	5.2	0.2	0.4	-0.3	1.2	1.9
Q3	4.0	4.5	2.7	-1.3	0.8	4.4	1.6	0.8	0.4	0.8	2.2
Q4	3.9	4.7	4.5	-1.3	0.6	4.1	1.3	1.7	1.4	1.1	2.4
2019 Q1	4.8	6.3	4.6	-3.8	0.5	3.0	2.5	2.6	1.2	-0.2	2.4
Q2	3.2	5.5	2.3	-4.1	0.5	2.3	2.3	2.8	1.6	-1.1	1.8
Q3	2.0	4.1	0.8	-1.9	0.7	2.1	1.2	2.8	2.3	0.8	1.7
Q4	1.4	2.7	-1.0	-1.5	0.9	1.2	1.3	2.7	2.2	0.3	1.3

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

# C1 Gross domestic product: expenditure at current market prices<sup>1</sup>

£ million

National expenditure on goods and services at market prices																
Final consumption expenditure			Gross capital formation													
	Households	Non-profit institutions <sup>2</sup>	General government	Gross fixed capital formation	Of which business investment <sup>3</sup>	Change in inventories <sup>4</sup>	Of which alignment adjustment	Acquisitions less disposals of valuables <sup>5</sup>	Total	Exports	Gross final expenditure	less imports	Trade balance <sup>6</sup>	Statistical discrepancy (expenditure)	Gross domestic product at market prices	
	ABJQ	HAYE	NMRP	NPQS	NPEK	CAEX	DMUN	NPJQ	YBIL	IKBH	ABMF	IKBI	IKBJ	GIXM	YBHA	
2017	1 300 305	46 560	386 667	357 080	204 945	4 727	–	1 245 2 096	584 629	085 2 725	669 654	212	–25 127	210	2 071 667	
2018	1 356 650	47 353	396 230	362 639	204 701	3 132	–	2 982 2 168	986 656	478 2 825	464 686	265	–29 787	5 105	2 144 304	
2019	1 392 478	47 606	417 986	376 977	210 879	8 520	–	–863 2 242	704 688	989 2 931	693 718	282	–29 293	1 479	2 214 890	
Seasonally adjusted																
2017 Q3	325 010	11 679	96 670	89 686	51 562	266	–349	420	523 731	159 024	682 755	164 956	–5 932	–11	517 788	
Q4	328 917	11 757	97 631	90 495	51 363	732	453	877	530 409	158 989	689 398	164 938	–5 949	427	524 887	
2018 Q1	334 485	11 785	98 024	89 701	51 512	–783	–739	556	533 768	159 293	693 061	165 153	–5 860	681	528 589	
Q2	337 844	11 839	98 355	90 624	51 352	–1	1 620	1 287	539 948	162 417	702 365	169 332	–6 915	811	533 844	
Q3	341 414	11 861	99 472	91 009	50 979	–77	–2 085	1 041	544 720	166 610	711 330	172 861	–6 251	1 409	539 878	
Q4	342 907	11 868	100 379	91 305	50 858	3 993	1 204	98	550 550	168 158	718 708	178 919	–10 761	2 204	541 993	
2019 Q1	344 953	11 890	102 092	93 485	51 910	8 526	1 390	10 835	571 781	168 141	739 922	191 213	–23 072	494	549 203	
Q2	347 159	11 944	104 125	93 867	52 914	1 871	169	1 016	559 982	164 972	724 954	173 698	–8 726	278	551 534	
Q3	350 231	11 895	104 390	95 239	53 224	–2 424	194	454	559 785	175 359	735 144	178 740	–3 381	289	556 693	
Q4	350 135	11 877	107 379	94 386	52 831	547	–1 753	–13 168	551 156	180 517	731 673	174 631	5 886	418	557 460	
Percentage change, latest year on previous year																
	KG77	KGZ8	KH2C	KG6O	KG6N				KGX3	KH2O	KG7V	KH3H			IHYM	
2017	3.8	1.0	1.3	3.9	4.6				3.4	10.9	5.0	9.1			3.8	
2018	4.3	1.7	2.5	1.6	–0.1				3.5	4.4	3.7	4.9			3.5	
2019	2.6	0.5	5.5	4.0	3.0				3.4	5.0	3.8	4.7			3.3	
Percentage change, latest quarter on previous quarter																
	KG78	KGZ9	KH2D	KG6W	KG6V				KGX4	KH2P	KG78	KH3I			IHYN	
2017 Q3	0.3	0.5	0.8	0.6	0.6				0.4	0.9	0.5	0.9			0.4	
Q4	1.2	0.7	1.0	0.9	–0.4				1.3	–	1.0	–			1.4	
2018 Q1	1.7	0.2	0.4	–0.9	0.3				0.6	0.2	0.5	0.1			0.7	
Q2	1.0	0.5	0.3	1.0	–0.3				1.2	2.0	1.3	2.5			1.0	
Q3	1.1	0.2	1.1	0.4	–0.7				0.9	2.6	1.3	2.1			1.1	
Q4	0.4	0.1	0.9	0.3	–0.2				1.1	0.9	1.0	3.5			0.4	
2019 Q1	0.6	0.2	1.7	2.4	2.1				3.9	–	3.0	6.9			1.3	
Q2	0.6	0.5	2.0	0.4	1.9				–2.1	–1.9	–2.0	–9.2			0.4	
Q3	0.9	–0.4	0.3	1.5	0.6				–	6.3	1.4	2.9			0.9	
Q4	–	–0.2	2.9	–0.9	–0.7				–1.5	2.9	–0.5	–2.3			0.1	
Percentage change, latest quarter on corresponding quarter of previous year																
	KG79	KH22	KH2E	KG76	KG75				KGX5	KH2Q	KG79	KH3J			IHYO	
2017 Q3	2.6	1.9	1.1	2.8	3.3				1.8	12.6	4.1	6.4			3.4	
Q4	3.5	2.7	1.7	3.9	3.9				3.4	4.0	3.5	4.0			3.5	
2018 Q1	3.7	2.5	1.6	2.2	1.5				2.5	3.8	2.8	2.7			2.9	
Q2	4.3	1.9	2.6	1.7	0.2				3.5	3.0	3.4	3.6			3.6	
Q3	5.0	1.6	2.9	1.5	–1.1				4.0	4.8	4.2	4.8			4.3	
Q4	4.3	0.9	2.8	0.9	–1.0				3.8	5.8	4.3	8.5			3.3	
2019 Q1	3.1	0.9	4.2	4.2	0.8				7.1	5.6	6.8	15.8			3.9	
Q2	2.8	0.9	5.9	3.6	3.0				3.7	1.6	3.2	2.6			3.3	
Q3	2.6	0.3	4.9	4.6	4.4				2.8	5.3	3.3	3.4			3.1	
Q4	2.1	0.1	7.0	3.4	3.9				0.1	7.3	1.8	–2.4			2.9	

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 measures<sup>1</sup>

Reference year 2016, £ million

National expenditure on goods and services at market prices																
Final consumption expenditure			Gross capital formation													
	Households	Non-profit institutions <sup>2</sup>	General government <sup>7</sup>	Gross fixed capital formation	Of which business investment <sup>3</sup>	Change in inventories <sup>4</sup>	Of which alignment adjustment	Acquisitions less disposals of valuables <sup>5</sup>	Total	Exports	Gross final expenditure	less imports	Trade balance <sup>6</sup>	Statistical discrepancy (expenditure)	Gross domestic product at market prices	
	ABJR	HAYO	NMRY	NPQT	NPEL	CAFU	DMUM	NPJR	YBIM	IKBK	ABMG	IKBL	IKBM	GIXS	ABMI	
2017	1 281 722	46 042	382 508	349 306	201 708	-8 974	-	1 149 2 051	749 602	123 2 653	872 620	838 -18 715	200	2 033	234	
2018	1 302 614	46 133	384 153	348 521	198 681	-5 494	-	3 390 2 079	314 609	510 2 688	824 633	225 -23 715	4 895	2 060	494	
2019	1 320 501	45 569	397 897	349 911	199 255	-4 100	-	1 937 2 111	714 632	175 2 743	889 655	881 -23 706	1 394	2 089	402	
Seasonally adjusted																
2017 Q3	321 032	11 489	95 724	87 218	50 603	-2 784	-342	519	513 197	152 771	665 968	156 975	-4 204	-11	508 982	
Q4	322 005	11 568	95 905	88 201	50 705	-3 381	446	1 224	515 520	150 506	666 026	155 427	-4 921	415	511 014	
2018 Q1	323 391	11 600	95 497	87 169	50 275	-2 706	-713	538	515 488	151 022	666 510	155 850	-4 828	658	511 318	
Q2	325 297	11 501	95 430	86 964	49 859	-957	1 560	1 099	519 334	150 647	669 981	156 751	-6 104	781	514 011	
Q3	326 716	11 513	95 991	87 245	49 411	-2 985	-1 997	1 081	519 560	154 133	673 693	158 013	-3 880	1 349	517 029	
Q4	327 210	11 519	97 235	87 143	49 136	1 154	1 150	672	524 932	153 708	678 640	162 611	-8 903	2 107	518 136	
2019 Q1	328 131	11 504	97 837	88 075	49 682	6 969	1 317	10 730	543 246	155 379	698 625	177 636	-22 257	469	521 458	
Q2	329 898	11 385	99 138	87 592	49 941	-351	155	797	528 459	150 767	679 226	158 595	-7 828	262	520 893	
Q3	331 100	11 378	99 416	87 845	50 060	-5 777	178	-19	523 943	159 726	683 669	160 477	-751	271	523 463	
Q4	331 372	11 302	101 506	86 399	49 572	-4 941	-1 650	-9 571	516 066	166 303	682 369	159 173	7 130	392	523 588	
Percentage change, latest year on previous year																
	KGZ5	KH26	KH2I	KG7N	KG7M				KGX9	KH2U	KGW5	KH3N			IHPY	
2017	2.3	-0.2	0.3	1.6	2.9				1.2	6.1	2.3	3.5			1.9	
2018	1.6	0.2	0.4	-0.2	-1.5				1.3	1.2	1.3	2.0			1.3	
2019	1.4	-1.2	3.6	0.4	0.3				1.6	3.7	2.0	3.6			1.4	
Percentage change, latest quarter on previous quarter																
	KGZ6	KH27	KH2J	KG7Q	KG7P				KGY2	KH2V	KGW6	KH3O			IHYQ	
2017 Q3	0.4	-0.3	0.3	-0.4	0.2				0.2	1.0	0.4	0.6			0.3	
Q4	0.3	0.7	0.2	1.1	0.2				0.5	-1.5	-	-1.0			0.4	
2018 Q1	0.4	0.3	-0.4	-1.2	-0.8				-	0.3	0.1	0.3			0.1	
Q2	0.6	-0.9	-0.1	-0.2	-0.8				0.7	-0.2	0.5	0.6			0.5	
Q3	0.4	0.1	0.6	0.3	-0.9				-	2.3	0.6	0.8			0.6	
Q4	0.2	0.1	1.3	-0.1	-0.6				1.0	-0.3	0.7	2.9			0.2	
2019 Q1	0.3	-0.1	0.6	1.1	1.1				3.5	1.1	2.9	9.2			0.6	
Q2	0.5	-1.0	1.3	-0.5	0.5				-2.7	-3.0	-2.8	-10.7			-0.1	
Q3	0.4	-0.1	0.3	0.3	0.2				-0.9	5.9	0.7	1.2			0.5	
Q4	0.1	-0.7	2.1	-1.6	-1.0				-1.5	4.1	-0.2	-0.8			-	
Percentage change, latest quarter on corresponding quarter of previous year																
	KGZ7	KH28	KH2K	KG7T	KG7S				KGY3	KH2W	KGW7	KH3P			IHYR	
2017 Q3	1.6	0.5	0.4	0.5	1.7				-	10.3	2.2	3.2			1.8	
Q4	1.5	1.6	0.4	2.2	3.9				1.2	2.4	1.4	1.3			1.6	
2018 Q1	1.4	1.2	0.1	1.0	0.7				0.9	2.3	1.2	2.2			1.1	
Q2	1.7	-0.2	-	-0.7	-1.2				1.4	-0.4	1.0	0.5			1.3	
Q3	1.8	0.2	0.3	-	-2.4				1.2	0.9	1.2	0.7			1.6	
Q4	1.6	-0.4	1.4	-1.2	-3.1				1.8	2.1	1.9	4.6			1.4	
2019 Q1	1.5	-0.8	2.5	1.0	-1.2				5.4	2.9	4.8	14.0			2.0	
Q2	1.4	-1.0	3.9	0.7	0.2				1.8	0.1	1.4	1.2			1.3	
Q3	1.3	-1.2	3.6	0.7	1.3				0.8	3.6	1.5	1.6			1.2	
Q4	1.3	-1.9	4.4	-0.9	0.9				-1.7	8.2	0.5	-2.1			1.1	

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. During quality assurance we identified an inconsistent use of deflator for estimates of non-monetary gold between valuables and trade. There is no impact on headline GDP. We will align these deflators at the next available opportunity.

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

# D Gross domestic product by category of income: current prices<sup>1</sup>

£ million

	Compensation of employees		Gross operating surplus of corporations							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	Private non-financial corporations <sup>2</sup>	Of which alignment adjustment	Financial corporations	Public corporations	Total <sup>3</sup>	Other income <sup>4</sup>				
	DTWL	DTWP	DTWM	CAER	DMUQ	NHCZ	CAEQ	CGBZ	CGBX	CGCB	CMVL	GIXQ	YBHA
2017	833 103	176 047	1 009 150	366 438	–	61 216	16 899	444 553	364 779	1 818 482	252 976	209	2 071 667
2018	873 469	180 235	1 053 704	379 791	–	57 903	11 075	448 769	380 611	1 883 084	259 705	1 515	2 144 304
2019	903 619	195 212	1 098 831	..	–	..	..	453 648	392 274	1 944 753	264 807	5 330	2 214 890
<b>Seasonally adjusted</b>													
2017 Q3	209 600	44 657	254 257	89 380	44	14 235	4 339	107 954	91 300	453 511	64 175	102	517 788
Q4	212 245	43 680	255 925	93 565	71	15 498	3 660	112 723	92 253	460 901	63 976	10	524 887
2018 Q1	215 613	43 267	258 880	95 395	1 960	15 342	2 813	113 550	93 255	465 685	62 499	405	528 589
Q2	216 493	44 473	260 966	93 195	–403	15 445	2 856	111 496	94 679	467 141	66 093	610	533 844
Q3	219 413	45 569	264 982	96 688	431	14 091	2 719	113 498	95 570	474 050	65 406	422	539 878
Q4	221 950	46 926	268 876	94 513	–1 988	13 025	2 687	110 225	97 107	476 208	65 707	78	541 993
2019 Q1	222 818	47 117	269 935	96 388	–737	14 413	2 786	113 587	98 752	482 274	65 507	1 422	549 203
Q2	225 270	48 718	273 988	96 027	–644	12 510	2 809	111 346	98 025	483 359	66 735	1 440	551 534
Q3	226 860	49 694	276 554	99 038	907	13 030	2 923	114 991	97 366	488 911	66 485	1 297	556 693
Q4	228 671	49 683	278 354	..	474	..	..	113 724	98 131	490 209	66 080	1 171	557 460
<b>Percentage change, latest year on previous year</b>													
	CWNH	CWNE	KGI3	KH59		KH5L	KH53	KH4V	KH6T	KH6N	KH65		IHYM
2017	3.8	6.7	4.3	3.8		8.1	–6.0	4.0	2.4	3.8	3.8		3.8
2018	4.8	2.4	4.4	3.6		–5.4	–34.5	0.9	4.3	3.6	2.7		3.5
2019	3.5	8.3	4.3	..		..	..	1.1	3.1	3.3	2.0		3.3
<b>Percentage change, latest quarter on previous quarter</b>													
	CWNI	CWNI	KGI4	KH5A		KH5M	KH54	KH4W	KH6U	KH6O	KH66		IHYN
2017 Q3	1.0	1.4	1.1	0.2		–13.4	–3.1	–2.0	0.6	0.2	1.7		0.4
Q4	1.3	–2.2	0.7	4.7		8.9	–15.6	4.4	1.0	1.6	–0.3		1.4
2018 Q1	1.6	–0.9	1.2	2.0		–1.0	–23.1	0.7	1.1	1.0	–2.3		0.7
Q2	0.4	2.8	0.8	–2.3		0.7	1.5	–1.8	1.5	0.3	5.8		1.0
Q3	1.3	2.5	1.5	3.7		–8.8	–4.8	1.8	0.9	1.5	–1.0		1.1
Q4	1.2	3.0	1.5	–2.2		–7.6	–1.2	–2.9	1.6	0.5	0.5		0.4
2019 Q1	0.4	0.4	0.4	2.0		10.7	3.7	3.1	1.7	1.3	–0.3		1.3
Q2	1.1	3.4	1.5	–0.4		–13.2	0.8	–2.0	–0.7	0.2	1.9		0.4
Q3	0.7	2.0	0.9	3.1		4.2	4.1	3.3	–0.7	1.1	–0.4		0.9
Q4	0.8	–	0.7	..		..	..	–1.1	0.8	0.3	–0.6		0.1
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>													
	CWNJ	CWNG	KGI5	KH5B		KH5N	KH55	KH4X	KH6V	KH6P	KH67		IHYO
2017 Q3	3.6	6.4	4.1	3.5		–7.3	–3.6	1.6	2.2	3.1	5.4		3.4
Q4	4.6	2.2	4.2	1.1		23.6	–18.6	2.8	2.1	3.4	3.5		3.5
2018 Q1	5.8	–0.9	4.6	1.2		2.0	–36.4	–0.2	3.1	3.1	1.2		2.9
Q2	4.3	1.0	3.8	4.5		–6.1	–36.2	1.2	4.3	3.3	4.8		3.6
Q3	4.7	2.0	4.2	8.2		–1.0	–37.3	5.1	4.7	4.5	1.9		4.3
Q4	4.6	7.4	5.1	1.0		–16.0	–26.6	–2.2	5.3	3.3	2.7		3.3
2019 Q1	3.3	8.9	4.3	1.0		–6.1	–1.0	–	5.9	3.6	4.8		3.9
Q2	4.1	9.5	5.0	3.0		–19.0	–1.6	–0.1	3.5	3.5	1.0		3.3
Q3	3.4	9.1	4.4	2.4		–7.5	7.5	1.3	1.9	3.1	1.6		3.1
Q4	3.0	5.9	3.5	..		..	..	3.2	1.1	2.9	0.6		2.9

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.

# E1 Household final consumption expenditure by purpose

## Current prices

£ million

UK NATIONAL <sup>2</sup>																
UK DOMESTIC <sup>3</sup>																
COICOP <sup>1</sup>	Total	Net tourism	Total	Food & drink	Alcohol & tobacco	Clothing & footwear	Housing	Household goods & services	Health	Transport	Communication	Recreation & culture	Education	Restaurants & hotels	Miscellaneous	
	ABJO	ABTF	ZAKV	ZWUM	ZAKX	ZAKZ	ZAVN	ZAVV	ZAWB	ZAWL	ZAWV	ZAWZ	ZWUS	ZAXR	ZAYF	
2017	1 300 305	13 958	1 286 347	100 538	41 760	66 910	337 077	59 458	24 223	172 782	21 898	143 423	30 427	123 102	164 749	
2018	1 356 650	15 862	1 340 788	104 378	44 434	67 499	347 462	65 576	26 528	183 896	21 538	149 854	31 190	124 693	173 740	
2019	1 392 478	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Seasonally adjusted																
2017 Q3	325 010	3 302	321 708	25 245	10 464	16 714	84 209	15 167	6 125	42 680	5 524	36 076	7 622	31 053	40 829	
Q4	328 917	3 856	325 061	25 609	10 638	16 687	84 899	15 105	6 229	44 039	5 490	36 420	7 651	30 849	41 445	
2018 Q1	334 485	3 336	331 149	25 876	10 773	16 592	86 772	15 901	6 455	45 645	5 414	36 878	7 725	30 800	42 318	
Q2	337 844	3 960	333 884	25 989	11 197	16 775	86 189	16 261	6 534	46 066	5 349	37 333	7 781	31 151	43 259	
Q3	341 414	4 629	336 785	26 201	11 187	17 017	87 096	16 620	6 733	45 896	5 332	37 664	7 817	31 069	44 153	
Q4	342 907	3 937	338 970	26 312	11 277	17 115	87 405	16 794	6 806	46 289	5 443	37 979	7 867	31 673	44 010	
2019 Q1	344 953	4 321	340 632	26 466	11 394	17 631	87 448	16 958	6 980	46 262	5 391	38 197	7 971	31 702	44 232	
Q2	347 159	4 801	342 358	26 666	11 294	17 865	88 993	17 217	6 971	46 551	5 342	38 326	8 011	31 744	43 378	
Q3	350 231	5 161	345 070	26 850	11 376	18 101	88 961	17 258	7 044	46 664	5 342	38 887	8 052	32 374	44 161	
Q4	350 135	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Percentage change, latest year on previous year																
	KG7Y		KG6U	KG9N	KG6F	KG9F	KG6G	KG7H	KG16	KG7J	KGK2	KGK8	KG6B	KG6C	KG6E	
2017	3.8		3.8	5.6	1.9	3.3	0.5	9.5	10.2	3.6	2.1	7.5	9.0	2.6	5.2	
2018	4.3		4.2	3.8	6.4	0.9	3.1	10.3	9.5	6.4	-1.6	4.5	2.5	1.3	5.5	
2019	2.6		..	..	..	..	..	..	..	..	..	..	..	..	..	
Percentage change, quarter on previous quarter																
	KG78		KG74	KG9R	KG6F	KG6G	KG6H	KG17	KG7J	KGK3	KGK9	KG6B	KG6C	KG6E		
2017 Q3	0.3		0.3	0.9	-0.1	-0.3	0.3	1.7	0.9	0.8	0.6	0.5	0.4	1.1	-1.9	
Q4	1.2		1.0	1.4	1.7	-0.2	0.8	-0.4	1.7	3.2	-0.6	1.0	0.4	-0.7	1.5	
2018 Q1	1.7		1.9	1.0	1.3	-0.6	2.2	5.3	3.6	3.6	-1.4	1.3	1.0	-0.2	2.1	
Q2	1.0		0.8	0.4	3.9	1.1	-0.7	2.3	1.2	0.9	-1.2	1.2	0.7	1.1	2.2	
Q3	1.1		0.9	0.8	-0.1	1.4	1.1	2.2	3.0	-0.4	-0.3	0.9	0.5	-0.3	2.1	
Q4	0.4		0.6	0.4	0.8	0.6	0.4	1.0	1.1	0.9	2.1	0.8	0.6	1.9	-0.3	
2019 Q1	0.6		0.5	0.6	1.0	3.0	-	1.0	2.6	-0.1	-1.0	0.6	1.3	0.1	0.5	
Q2	0.6		0.5	0.8	-0.9	1.3	1.8	1.5	-0.1	0.6	-0.9	0.3	0.5	0.1	-1.9	
Q3	0.9		0.8	0.7	0.7	1.3	-	0.2	1.0	0.2	-	1.5	0.5	2.0	1.8	
Q4	-		..	..	..	..	..	..	..	..	..	..	..	..	..	
Percentage change, quarter on corresponding quarter of previous year																
	KG79		KG7C	KG9V	KG6F	KG6G	KG6H	KG18	KG7J	KGK4	KGK2	KG6B	KG6C	KG6E		
2017 Q3	2.6		3.2	5.1	2.0	3.6	0.4	10.9	11.9	1.5	2.3	7.6	9.1	3.5	1.2	
Q4	3.5		3.3	5.7	4.0	1.0	-0.1	7.7	12.5	3.4	1.7	8.1	9.2	0.6	3.8	
2018 Q1	3.7		3.9	4.9	5.8	-0.9	3.2	11.4	11.3	4.4	0.4	5.3	2.1	1.0	3.6	
Q2	4.3		4.1	3.8	6.9	0.1	2.7	9.0	7.6	8.8	-2.6	4.0	2.5	1.4	4.0	
Q3	5.0		4.7	3.8	6.9	1.8	3.4	9.6	9.9	7.5	-3.5	4.4	2.6	0.1	8.1	
Q4	4.3		4.3	2.7	6.0	2.6	3.0	11.2	9.3	5.1	-0.9	4.3	2.8	2.7	6.2	
2019 Q1	3.1		2.9	2.3	5.8	6.3	0.8	6.6	8.1	1.4	-0.4	3.6	3.2	2.9	4.5	
Q2	2.8		2.5	2.6	0.9	6.5	3.3	5.9	6.7	1.1	-0.1	2.7	3.0	1.9	0.3	
Q3	2.6		2.5	2.5	1.7	6.4	2.1	3.8	4.6	1.7	0.2	3.2	3.0	4.2	-	
Q4	2.1		..	..	..	..	..	..	..	..	..	..	..	..	..	

1 ESA 10 Classification of Individual Consumption by Purpose.

2 Final Consumption by UK Households in the UK & abroad.

3 Final consumption expenditure in the UK by UK & foreign households.

# E2 Household final consumption expenditure (goods and services) Current prices

£ million

UK NATIONAL <sup>2</sup>								
UK DOMESTIC <sup>3</sup>								
Goods								
	Total	Net tourism	Total	Total	Durable goods	Semi- durable goods	Non- durable goods	Services
COICOP <sup>1</sup>					D	SD	ND	S
	ABJQ	ABTF	ZAKV	UTIF	UTIB	UTIR	UTIJ	UTIN
2017	1 300 305	13 958	1 286 347	521 294	123 088	135 344	262 862	765 053
2018	1 356 650	15 862	1 340 788	547 777	128 348	140 199	279 230	793 011
2019	1 392 478	..	..	..	..	..	..	..
Seasonally adjusted								
2017 Q3	325 010	3 302	321 708	130 759	31 148	33 947	65 664	190 949
Q4	328 917	3 856	325 061	132 787	31 146	34 415	67 226	192 274
2018 Q1	334 485	3 336	331 149	135 562	31 878	34 459	69 225	195 587
Q2	337 844	3 960	333 884	136 060	32 099	34 767	69 194	197 824
Q3	341 414	4 629	336 785	137 410	31 757	35 348	70 305	199 375
Q4	342 907	3 937	338 970	138 745	32 614	35 625	70 506	200 225
2019 Q1	344 953	4 321	340 632	139 796	33 153	36 558	70 085	200 836
Q2	347 159	4 801	342 358	142 177	33 496	37 102	71 579	200 181
Q3	350 231	5 161	345 070	142 499	33 247	37 676	71 576	202 571
Q4	350 135	..	..	..	..	..	..	..
Percentage change, latest year on previous year								
	KG77		KG6U	KHC9	KHB5	KHH5	KHE5	KHF9
2017	3.8		3.8	4.8	2.6	7.7	4.4	3.1
2018	4.3		4.2	5.1	4.3	3.6	6.2	3.7
2019	2.6		..	..	..	..	..	..
Percentage change, quarter on previous quarter								
	KG78		KG74	KHD2	KHB6	KHH6	KHE6	KHG2
2017 Q3	0.3		0.3	1.1	2.7	0.7	0.5	-0.3
Q4	1.2		1.0	1.6	-	1.4	2.4	0.7
2018 Q1	1.7		1.9	2.1	2.4	0.1	3.0	1.7
Q2	1.0		0.8	0.4	0.7	0.9	-	1.1
Q3	1.1		0.9	1.0	-1.1	1.7	1.6	0.8
Q4	0.4		0.6	1.0	2.7	0.8	0.3	0.4
2019 Q1	0.6		0.5	0.8	1.7	2.6	-0.6	0.3
Q2	0.6		0.5	1.7	1.0	1.5	2.1	-0.3
Q3	0.9		0.8	0.2	-0.7	1.5	-	1.2
Q4	-		..	..	..	..	..	..
Percentage change, quarter on corresponding quarter of previous year								
	KG79		KG7C	KHD3	KHB7	KHH7	KHE7	KHG3
2017 Q3	2.6		3.2	5.3	3.7	8.8	4.4	1.8
Q4	3.5		3.3	5.0	3.7	7.3	4.5	2.1
2018 Q1	3.7		3.9	5.6	4.7	3.6	7.1	2.7
Q2	4.3		4.1	5.2	5.8	3.1	5.9	3.3
Q3	5.0		4.7	5.1	2.0	4.1	7.1	4.4
Q4	4.3		4.3	4.5	4.7	3.5	4.9	4.1
2019 Q1	3.1		2.9	3.1	4.0	6.1	1.2	2.7
Q2	2.8		2.5	4.5	4.4	6.7	3.4	1.2
Q3	2.6		2.5	3.7	4.7	6.6	1.8	1.6
Q4	2.1		..	..	..	..	..	..

1 ESA 10 Classification of Individual Consumption by Purpose.

2 Final Consumption by UK Households in the UK & abroad.

3 Final consumption expenditure in the UK by UK & foreign households.

# E3 Household final consumption expenditure by purpose

## Chained volume measures

Reference year 2016, £ million

UK NATIONAL <sup>2</sup>																
UK DOMESTIC <sup>3</sup>																
COICOP <sup>1</sup>	Total	Net tourism	Total	Food & drink	Alcohol & tobacco	Clothing & footwear	Housing	Household goods & services	Health	Transport	Communication	Recreation & culture	Education	Restaurants & hotels	Miscellaneous	
	0	01	02	03	04	05	06	07	08	09	10	11	12			
	ABJR	ABTH	ZAKW	ZWUN	ZAKY	ZALA	ZAVO	ZAVW	ZAWC	ZAWM	ZAWW	ZAXA	ZWUT	ZAXS	ZAYG	
2017	1 281 722	13 958	1 267 764	98 489	40 441	65 309	333 401	58 374	23 493	168 961	21 494	140 978	29 467	120 547	166 810	
2018	1 302 614	14 620	1 287 994	100 216	40 982	65 460	338 057	63 320	25 331	169 976	20 926	143 913	29 411	118 519	171 883	
2019	1 320 501	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Seasonally adjusted																
2017 Q3	321 032	3 443	317 589	24 690	10 059	16 173	83 162	14 774	5 902	42 485	5 403	35 345	7 375	30 562	41 659	
Q4	322 005	3 819	318 186	24 683	10 111	16 087	83 662	14 721	5 978	42 304	5 362	35 437	7 344	29 999	42 498	
2018 Q1	323 391	3 023	320 368	24 879	10 092	15 978	84 727	15 389	6 220	42 707	5 319	35 700	7 351	29 739	42 267	
Q2	325 297	3 731	321 566	25 011	10 388	16 244	84 178	15 674	6 262	42 856	5 238	35 970	7 360	29 660	42 725	
Q3	326 716	4 219	322 497	25 110	10 280	16 556	84 568	16 061	6 404	42 110	5 164	36 050	7 360	29 410	43 424	
Q4	327 210	3 647	323 563	25 216	10 222	16 682	84 584	16 196	6 445	42 303	5 205	36 193	7 340	29 710	43 467	
2019 Q1	328 131	3 864	324 267	25 269	10 180	17 249	84 477	16 295	6 574	42 077	5 116	36 299	7 352	29 652	43 727	
Q2	329 898	4 490	325 408	25 284	10 117	17 502	85 235	16 419	6 506	42 427	4 999	36 478	7 341	29 470	43 630	
Q3	331 100	4 166	326 934	25 303	10 122	17 682	85 227	16 458	6 535	42 362	4 983	36 880	7 341	29 919	44 122	
Q4	331 372	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Percentage change, latest year on previous year																
	KGZ5	KG7O	KG9Y	KGf6	KGg4	KGh2	KGh8	KGi9	KGj7	KGk5	KGl3	KGb8	KGd4	KGe8		
2017	2.3	2.3	3.4	-1.4	0.8	-0.6	7.5	6.9	1.3	0.2	5.7	5.5	0.5	6.5		
2018	1.6	1.6	1.8	1.3	0.2	1.4	8.5	7.8	0.6	-2.6	2.1	-0.2	-1.7	3.0		
2019	1.4	..	..	..	..	..	..	..	..	..	..	..	..	..		
Percentage change, quarter on previous quarter																
	KGZ6	KG7R	KGa3	KGf7	KGg5	KGh3	KGh9	KGj2	KGj8	KGk6	KGl4	KGb9	KGd5	KGf2		
2017 Q3	0.4	0.3	0.5	-1.3	-1.3	-0.1	0.6	-0.2	2.2	-0.4	-0.1	0.1	0.9	0.1		
Q4	0.3	0.2	-	0.5	-0.5	0.6	-0.4	1.3	-0.4	-0.8	0.3	-0.4	-1.8	2.0		
2018 Q1	0.4	0.7	0.8	-0.2	-0.7	1.3	4.5	4.0	1.0	-0.8	0.7	0.1	-0.9	-0.5		
Q2	0.6	0.4	0.5	2.9	1.7	-0.6	1.9	0.7	0.3	-1.5	0.8	0.1	-0.3	1.1		
Q3	0.4	0.3	0.4	-1.0	1.9	0.5	2.5	2.3	-1.7	-1.4	0.2	-	-0.8	1.6		
Q4	0.2	0.3	0.4	-0.6	0.8	-	0.8	0.6	0.5	0.8	0.4	-0.3	1.0	0.1		
2019 Q1	0.3	0.2	0.2	-0.4	3.4	-0.1	0.6	2.0	-0.5	-1.7	0.3	0.2	-0.2	0.6		
Q2	0.5	0.4	0.1	-0.6	1.5	0.9	0.8	-1.0	0.8	-2.3	0.5	-0.1	-0.6	-0.2		
Q3	0.4	0.5	0.1	-	1.0	-	0.2	0.4	-0.2	-0.3	1.1	-	1.5	1.1		
Q4	0.1	..	..	..	..	..	..	..	..	..	..	..	..	..		
Percentage change, quarter on corresponding quarter of previous year																
	KGZ7	KG7U	KGa6	KGf8	KGg6	KGh4	KGi2	KGj3	KGj9	KGk7	KGl5	KGc2	KGd6	KGf2		
2017 Q3	1.6	1.8	2.5	-1.6	-0.1	-1.0	7.3	7.5	-0.3	0.7	5.7	5.5	0.4	5.4		
Q4	1.5	1.4	0.3	-2.2	-3.5	-1.7	4.9	8.1	1.4	-0.8	4.6	5.2	-0.4	7.6		
2018 Q1	1.4	1.6	1.3	0.1	-4.1	1.6	8.4	9.1	0.3	0.3	2.5	-0.4	0.2	3.0		
Q2	1.7	1.6	1.8	1.9	-0.9	1.2	6.7	5.9	3.1	-3.5	1.7	-0.1	-2.1	2.7		
Q3	1.8	1.5	1.7	2.2	2.4	1.7	8.7	8.5	-0.9	-4.4	2.0	-0.2	-3.8	4.2		
Q4	1.6	1.7	2.2	1.1	3.7	1.1	10.0	7.8	-	-2.9	2.1	-0.1	-1.0	2.3		
2019 Q1	1.5	1.2	1.6	0.9	8.0	-0.3	5.9	5.7	-1.5	-3.8	1.7	-	-0.3	3.5		
Q2	1.4	1.2	1.1	-2.6	7.7	1.3	4.8	3.9	-1.0	-4.6	1.4	-0.3	-0.6	2.1		
Q3	1.3	1.4	0.8	-1.5	6.8	0.8	2.5	2.0	0.6	-3.5	2.3	-0.3	1.7	1.6		
Q4	1.3	..	..	..	..	..	..	..	..	..	..	..	..	..		

1 ESA 10 Classification of Individual Consumption by Purpose.

2 Final consumption expenditure by UK households in the UK & abroad.

3 Final consumption expenditure in the UK by UK & foreign households.

# E4 Household final consumption expenditure (goods and services) Chained volume measures

Reference year 2016, £ million

UK NATIONAL <sup>2</sup>								
UK DOMESTIC <sup>3</sup>								
COICOP <sup>1</sup>	Total	Net tourism	Total	Goods				
				Total	Durable goods	Semi- durable goods	Non- durable goods	Services
					D	SD	ND	S
	ABJR	ABTH	ZAKW	UTIH	UTID	UTIT	UTIL	UTIP
2017	1 281 722	13 958	1 267 764	508 679	120 290	132 981	255 408	759 085
2018	1 302 614	14 620	1 287 994	520 853	122 959	135 539	262 355	767 141
2019	1 320 501	..	..	..	..	..	..	..
<b>Seasonally adjusted</b>								
2017 Q3	321 032	3 443	317 589	127 426	30 416	33 071	63 939	190 163
Q4	322 005	3 819	318 186	127 989	30 047	33 388	64 554	190 197
2018 Q1	323 391	3 023	320 368	129 703	30 780	33 368	65 555	190 665
Q2	325 297	3 731	321 566	129 936	30 833	33 618	65 485	191 630
Q3	326 716	4 219	322 497	130 329	30 432	34 184	65 713	192 168
Q4	327 210	3 647	323 563	130 885	30 914	34 369	65 602	192 678
2019 Q1	328 131	3 864	324 267	131 854	31 151	35 311	65 392	192 413
Q2	329 898	4 490	325 408	133 577	31 731	35 956	65 890	191 831
Q3	331 100	4 166	326 934	133 890	31 798	36 409	65 683	193 044
Q4	331 372	..	..	..	..	..	..	..
<b>Percentage change, year on previous year</b>								
	KGZ5		KG7O	KHD7	KHC3	KHI3	KHF3	KHG7
2017	2.3		2.3	2.3	0.3	5.8	1.5	2.3
2018	1.6		1.6	2.4	2.2	1.9	2.7	1.1
2019	1.4		..	..	..	..	..	..
<b>Percentage change, quarter on previous quarter</b>								
	KGZ6		KG7R	KHD8	KHC4	KHI4	KHF4	KHG8
2017 Q3	0.4		0.3	0.7	3.0	-0.3	0.1	0.1
Q4	0.3		0.2	0.4	-1.2	1.0	1.0	-
2018 Q1	0.4		0.7	1.3	2.4	-0.1	1.6	0.2
Q2	0.6		0.4	0.2	0.2	0.7	-0.1	0.5
Q3	0.4		0.3	0.3	-1.3	1.7	0.3	0.3
Q4	0.2		0.3	0.4	1.6	0.5	-0.2	0.3
2019 Q1	0.3		0.2	0.7	0.8	2.7	-0.3	-0.1
Q2	0.5		0.4	1.3	1.9	1.8	0.8	-0.3
Q3	0.4		0.5	0.2	0.2	1.3	-0.3	0.6
Q4	0.1		..	..	..	..	..	..
<b>Percentage change, quarter on corresponding quarter of previous year</b>								
	KGZ7		KG7U	KHD9	KHC5	KHI5	KHF5	KHG9
2017 Q3	1.6		1.8	2.1	0.7	5.9	0.9	1.5
Q4	1.5		1.4	0.9	-0.8	3.2	0.5	1.7
2018 Q1	1.4		1.6	2.4	1.6	-	4.0	1.0
Q2	1.7		1.6	2.7	4.4	1.4	2.5	0.8
Q3	1.8		1.5	2.3	0.1	3.4	2.8	1.1
Q4	1.6		1.7	2.3	2.9	2.9	1.6	1.3
2019 Q1	1.5		1.2	1.7	1.2	5.8	-0.2	0.9
Q2	1.4		1.2	2.8	2.9	7.0	0.6	0.1
Q3	1.3		1.4	2.7	4.5	6.5	-	0.5
Q4	1.3		..	..	..	..	..	..

1 ESA 10 Classification of Individual Consumption by Purpose.

2 Final consumption expenditure by UK households in the UK & abroad.

3 Final consumption expenditure in the UK by UK & foreign households.



# F1 Gross fixed capital formation by sector and type of asset

## Current prices

£ million

	Analysis by sector								Analysis by asset					
	Public corporations <sup>2</sup>				Private Sector									
	Business investment <sup>1</sup>	General government	Dwellings <sup>4</sup>	Costs of transfer of ownership of non-produced assets	Dwellings <sup>4</sup>	Costs of transfer of ownership of non-produced assets	Total	Transport equipment	ICT equipment and other machinery and equipment <sup>3</sup>	Dwellings <sup>4</sup>	Other buildings and structures <sup>5</sup>	Intellectual Property Products	Total	
	NPEK	RPZG	L62R	L62S	L62T	L62U	NPQS	TLPX	TLPW	GGAE	EQED	TLPK	NPQS	
2017	204 945	55 290	8 464	773	69 191	18 417	357 080	22 064	66 328	77 655	117 290	73 743	357 080	
2018	204 701	57 144	4 567	759	77 449	18 019	362 639	17 731	64 476	82 018	118 831	79 583	362 639	
2019	210 879	62 591	4 593	758	80 285	17 871	376 977	17 911	63 262	84 885	128 861	82 058	376 977	
<b>Seasonally adjusted</b>														
2017 Q3	51 562	13 790	2 195	196	17 317	4 626	89 686	5 696	16 356	19 512	29 619	18 503	89 686	
Q4	51 363	14 161	1 797	191	18 433	4 550	90 495	4 993	16 885	20 231	29 509	18 877	90 495	
2018 Q1	51 512	13 643	1 234	175	18 595	4 542	89 701	5 104	16 237	19 830	29 000	19 530	89 701	
Q2	51 352	14 007	1 181	206	19 401	4 477	90 624	4 534	16 383	20 581	29 081	20 045	90 624	
Q3	50 979	14 539	1 069	191	19 725	4 506	91 009	3 971	15 981	20 796	30 161	20 100	91 009	
Q4	50 858	14 955	1 083	187	19 728	4 494	91 305	4 122	15 875	20 811	30 589	19 908	91 305	
2019 Q1	51 910	15 847	1 121	177	19 943	4 487	93 485	3 776	16 311	21 064	32 065	20 269	93 485	
Q2	52 914	15 128	1 140	197	20 043	4 445	93 867	4 964	15 058	21 184	32 248	20 413	93 867	
Q3	53 224	15 834	1 131	193	20 355	4 502	95 239	4 622	16 401	21 487	31 958	20 771	95 239	
Q4	52 831	15 782	1 201	191	19 944	4 437	94 386	4 549	15 492	21 150	32 590	20 605	94 386	
<b>Percentage change, latest year on previous year</b>														
	KG6N	KH7N	L64E	L64H	L64K	L64N	KG6O	KG6T	KG6S	KH7X	KH7W	KG6R	KG6O	
2016	6.8	2.5	2.9	5.7	4.9	10.1	5.9	21.9	8.0	4.7	3.5	4.7	5.9	
2017	4.6	5.5	1.2	6.6	13.6	-27.3	3.9	-10.4	18.2	12.0	-2.3	0.2	3.9	
2018	-0.1	3.4	-46.0	-1.8	11.9	-2.2	1.6	-19.6	-2.8	5.6	1.3	7.9	1.6	
2019	3.0	9.5	0.6	-0.1	3.7	-0.8	4.0	1.0	-1.9	3.5	8.4	3.1	4.0	
<b>Percentage change, latest quarter on previous quarter</b>														
	KG6V	KH7P	L64F	L64I	L64L	L64O	KG6W	KG73	KG72	KH83	KH82	KG6Z	KG6W	
2016 Q3	2.4	3.4	-1.3	-23.5	2.0	-0.7	2.1	18.9	-0.4	1.6	1.4	0.2	2.1	
Q4	-1.0	-2.2	2.3	5.9	2.1	4.5	-0.2	-23.7	-	2.1	3.5	0.5	-0.2	
2017 Q1	2.7	0.4	2.4	-6.1	6.1	-26.8	0.8	2.4	14.3	5.7	-6.6	-2.3	0.8	
Q2	1.0	3.6	4.5	29.8	1.6	-1.1	1.5	6.0	5.5	1.9	-1.3	0.8	1.5	
Q3	0.6	-0.9	-3.9	-10.1	2.8	0.7	0.6	-2.7	-3.7	2.0	2.5	1.3	0.6	
Q4	-0.4	2.7	-18.1	-2.6	6.4	-1.6	0.9	-12.3	3.2	3.7	-0.4	2.0	0.9	
2018 Q1	0.3	-3.7	-31.3	-8.4	0.9	-0.2	-0.9	2.2	-3.8	-2.0	-1.7	3.5	-0.9	
Q2	-0.3	2.7	-4.3	17.7	4.3	-1.4	1.0	-11.2	0.9	3.8	0.3	2.6	1.0	
Q3	-0.7	3.8	-9.5	-7.3	1.7	0.6	0.4	-12.4	-2.5	1.0	3.7	0.3	0.4	
Q4	-0.2	2.9	1.3	-2.1	-	-0.3	0.3	3.8	-0.7	0.1	1.4	-1.0	0.3	
2019 Q1	2.1	6.0	3.5	-5.3	1.1	-0.2	2.4	-8.4	2.7	1.2	4.8	1.8	2.4	
Q2	1.9	-4.5	1.7	11.3	0.5	-0.9	0.4	31.5	-7.7	0.6	0.6	0.7	0.4	
Q3	0.6	4.7	-0.8	-2.0	1.6	1.3	1.5	-6.9	8.9	1.4	-0.9	1.8	1.5	
Q4	-0.7	-0.3	6.2	-1.0	-2.0	-1.4	-0.9	-1.6	-5.5	-1.6	2.0	-0.8	-0.9	
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>														
	KG75	KH7R	L64G	L64J	L64M	L64P	KG76	KG7B	KG7A	KH87	KH86	KG79	KG76	
2016 Q3	9.5	11.1	3.3	-4.0	4.3	3.0	8.2	79.8	9.5	4.2	2.5	4.3	8.2	
Q4	5.1	9.0	7.9	2.3	5.8	3.2	5.7	-1.4	2.8	6.0	8.9	4.8	5.7	
2017 Q1	6.1	10.6	7.8	7.7	11.0	-31.5	4.6	-11.1	16.9	10.3	2.3	-0.9	4.6	
Q2	5.1	5.2	8.1	-1.4	12.2	-24.9	4.3	-1.6	20.0	11.7	-3.2	-0.7	4.3	
Q3	3.3	0.8	5.2	16.0	13.1	-23.8	2.8	-19.4	16.1	12.1	-2.1	0.4	2.8	
Q4	3.9	5.9	-15.8	6.7	17.9	-28.3	3.9	-7.5	19.9	13.9	-5.8	1.9	3.9	
2018 Q1	1.5	1.6	-43.6	4.2	12.1	-2.3	2.2	-7.6	0.8	5.6	-0.9	7.9	2.2	
Q2	0.2	0.7	-48.3	-5.5	15.1	-2.5	1.7	-22.5	-3.5	7.6	0.6	9.8	1.7	
Q3	-1.1	5.4	-51.3	-2.6	13.9	-2.6	1.5	-30.3	-2.3	6.6	1.8	8.6	1.5	
Q4	-1.0	5.6	-39.7	-2.1	7.0	-1.2	0.9	-17.4	-6.0	2.9	3.7	5.5	0.9	
2019 Q1	0.8	16.2	-9.2	1.1	7.2	-1.2	4.2	-26.0	0.5	6.2	10.6	3.8	4.2	
Q2	3.0	8.0	-3.5	-4.4	3.3	-0.7	3.6	9.5	-8.1	2.9	10.9	1.8	3.6	
Q3	4.4	8.9	5.8	1.0	3.2	-0.1	4.6	16.4	2.6	3.3	6.0	3.3	4.6	
Q4	3.9	5.5	10.9	2.1	1.1	-1.3	3.4	10.4	-2.4	1.6	6.5	3.5	3.4	

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

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

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

4 Includes new dwellings and improvements to dwellings.

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

# 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 <sup>2</sup>				Private Sector								Total	
		Business investment <sup>1</sup>	General government	Dwellings <sup>4</sup>	Costs of transfer of ownership of non-produced assets	Dwellings <sup>4</sup>	Costs of transfer of ownership of non-produced assets	Total	Transport equipment	ICT equipment and other machinery and equipment <sup>3</sup>	Dwellings <sup>4</sup>	Other buildings and structures <sup>5</sup>	Intellectual Property Products		
		NPEL	DLWF	L634	L635	L636	L637	NPQT	DLWL	DLWO	DFEG	DLWT	EQDO	NPQT	
2017		201 708	54 433	8 250	768	65 719	18 428	349 306	22 332	63 289	73 969	115 956	73 760	349 306	
2018		198 681	55 120	4 326	739	72 155	17 500	348 521	16 562	62 038	76 483	114 224	79 214	348 521	
2019		199 255	56 277	4 245	720	72 484	16 930	349 911	16 519	57 293	76 735	118 410	80 954	349 911	
<b>Seasonally adjusted</b>															
2017 Q3		50 603	13 517	2 140	193	16 205	4 560	87 218	5 732	15 723	18 345	28 922	18 496	87 218	
Q4		50 705	13 703	1 743	188	17 379	4 483	88 201	5 000	15 718	19 122	29 434	18 927	88 201	
2018 Q1		50 275	13 160	1 160	172	17 958	4 444	87 169	4 810	15 390	19 116	28 359	19 494	87 169	
Q2		49 859	13 412	1 122	200	18 058	4 313	86 964	4 195	15 474	19 181	28 198	19 916	86 964	
Q3		49 411	14 208	1 009	186	18 046	4 385	87 245	3 658	15 612	19 057	28 835	20 083	87 245	
Q4		49 136	14 340	1 035	181	18 093	4 358	87 143	3 899	15 562	19 129	28 832	19 721	87 143	
2019 Q1		49 682	14 581	1 027	170	18 274	4 341	88 075	3 593	15 434	19 302	29 558	20 188	88 075	
Q2		49 941	13 932	1 067	188	18 211	4 253	87 592	4 598	13 648	19 281	29 857	20 208	87 592	
Q3		50 060	13 919	1 041	183	18 362	4 280	87 845	4 285	14 654	19 404	29 127	20 375	87 845	
Q4		49 572	13 845	1 110	179	17 637	4 056	86 399	4 043	13 557	18 748	29 868	20 183	86 399	
<b>Percentage change, latest year on previous year</b>															
		KG7M	KH92	L64T	L64W	L654	L64Z	KG7N	KH95	KH96	KH8Y	KH97	KH98	KG7N	
2016		4.3	2.3	1.2	4.6	3.2	3.4	3.6	22.3	4.0	3.0	1.4	2.4	3.6	
2017		2.9	3.8	-1.3	5.8	7.9	-27.2	1.6	-9.3	12.8	6.7	-3.4	0.2	1.6	
2018		-1.5	1.3	-47.6	-3.8	9.8	-5.0	-0.2	-25.8	-2.0	3.4	-1.5	7.4	-0.2	
2019		0.3	2.1	-1.9	-2.6	0.5	-3.3	0.4	-0.3	-7.6	0.3	3.7	2.2	0.4	
<b>Percentage change, latest quarter on previous quarter</b>															
		KG7P	KH9C	L64U	L64X	L655	L652	KG7Q	KH9F	KH9G	KH9A	KH9H	KH9I	KG7Q	
2016 Q3		1.6	2.7	-2.3	-23.5	1.1	-1.2	1.3	17.4	-1.2	0.7	0.3	0.2	1.3	
Q4		-1.9	-2.3	5.6	5.9	1.9	5.4	-0.6	-20.3	-4.1	2.3	3.6	0.1	-0.6	
2017 Q1		2.3	-0.3	-0.6	-5.6	3.8	-25.3	-	1.9	13.6	3.3	-6.6	-2.3	-	
Q2		1.2	5.2	3.1	29.0	-0.5	-1.7	1.4	5.3	7.3	-0.1	-1.5	1.4	1.4	
Q3		0.2	-3.1	-3.5	-11.5	1.1	-2.0	-0.4	-3.7	-4.6	0.6	1.2	1.1	-0.4	
Q4		0.2	1.4	-18.6	-2.6	7.2	-1.7	1.1	-12.8	-	4.2	1.8	2.3	1.1	
2018 Q1		-0.8	-4.0	-33.4	-8.5	3.3	-0.9	-1.2	-3.8	-2.1	-	-3.7	3.0	-1.2	
Q2		-0.8	1.9	-3.3	16.3	0.6	-2.9	-0.2	-12.8	0.5	0.3	-0.6	2.2	-0.2	
Q3		-0.9	5.9	-10.1	-7.0	-0.1	1.7	0.3	-12.8	0.9	-0.6	2.3	0.8	0.3	
Q4		-0.6	0.9	2.6	-2.7	0.3	-0.6	-0.1	6.6	-0.3	0.4	-	-1.8	-0.1	
2019 Q1		1.1	1.7	-0.8	-6.1	1.0	-0.4	1.1	-7.8	-0.8	0.9	2.5	2.4	1.1	
Q2		0.5	-4.5	3.9	10.6	-0.3	-2.0	-0.5	28.0	-11.6	-0.1	1.0	0.1	-0.5	
Q3		0.2	-0.1	-2.4	-2.7	0.8	0.6	0.3	-6.8	7.4	0.6	-2.4	0.8	0.3	
Q4		-1.0	-0.5	6.6	-2.2	-3.9	-5.2	-1.6	-5.6	-7.5	-3.4	2.5	-0.9	-1.6	
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>															
		KG7S	KH9M	L64V	L64Y	L656	L653	KG7T	KH9P	KH9Q	KH9K	KH9R	KH9S	KG7T	
2016 Q3		6.7	11.4	0.7	-5.1	2.6	-3.5	5.7	76.0	5.9	2.4	0.2	1.7	5.7	
Q4		2.1	10.0	6.8	1.7	3.7	-1.8	3.4	3.4	-5.4	4.1	7.7	2.4	3.4	
2017 Q1		3.0	8.4	4.6	7.6	6.7	-31.2	1.7	-8.6	8.1	6.2	0.1	-1.5	1.7	
Q2		3.1	5.2	5.7	-1.4	6.4	-23.6	2.2	0.3	15.6	6.3	-4.5	-0.6	2.2	
Q3		1.7	-0.7	4.5	14.2	6.4	-24.2	0.5	-17.7	11.5	6.1	-3.6	0.3	0.5	
Q4		3.9	3.0	-19.4	5.0	12.0	-29.3	2.2	-9.9	16.2	8.1	-5.3	2.5	2.2	
2018 Q1		0.7	-0.8	-46.0	1.8	11.5	-6.1	1.0	-14.9	0.2	4.7	-2.3	8.1	1.0	
Q2		-1.2	-3.8	-49.4	-8.3	12.7	-7.3	-0.7	-29.5	-6.1	5.1	-1.3	8.8	-0.7	
Q3		-2.4	5.1	-52.9	-3.6	11.4	-3.8	-	-36.2	-0.7	3.9	-0.3	8.6	-	
Q4		-3.1	4.6	-40.6	-3.7	4.1	-2.8	-1.2	-22.0	-1.0	-	-2.0	4.2	-1.2	
2019 Q1		-1.2	10.8	-11.5	-1.2	1.8	-2.3	1.0	-25.3	0.3	1.0	4.2	3.6	1.0	
Q2		0.2	3.9	-4.9	-6.0	0.8	-1.4	0.7	9.6	-11.8	0.5	5.9	1.5	0.7	
Q3		1.3	-2.0	3.2	-1.6	1.8	-2.4	0.7	17.1	-6.1	1.8	1.0	1.5	0.7	
Q4		0.9	-3.5	7.2	-1.1	-2.5	-6.9	-0.9	3.7	-12.9	-2.0	3.6	2.3	-0.9	

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.

# G1 Changes in inventories at current prices <sup>1</sup>

£ million

	Mining and quarrying	Manufacturing industries				Elect- ricity, gas and water supply	Distributive trades		Other industries <sup>3</sup>	Changes in inventories <sup>3</sup>
		Materials and fuel	Work in progress	Finished goods	Total		Wholesale <sup>2</sup>	Retail <sup>2</sup>		
<b>Level of inventories held at end-December 2016</b>	1 141	23 508	21 445	23 190	68 143	2 725	38 742	38 704	62 025	211 480
	FAHS	FAGF	FADY	FALR	NZTP	FAGI	FBHE	FAHA	CWVD	CAEX
2017	-427	77	-1 864	850	-937	-79	5 771	-1 135	1 534	4 727
2018	-400	-411	3 197	-727	2 059	-449	3 613	-1 893	202	3 132
2019	168	5 215	-3	-866	4 346	-24	1 629	1 622	779	8 520
<b>Seasonally adjusted</b>										
2016 Q3	-393	1 485	76	-722	839	1 232	-429	73	-503	819
Q4	-682	105	1 509	-524	1 090	1 370	525	1 116	-768	2 651
2017 Q1	-35	922	-1 318	-649	-1 045	47	1 451	-967	3 697	3 148
Q2	356	-567	970	314	717	-82	2 208	-186	-2 432	581
Q3	-7	-417	846	766	1 195	-17	226	-88	-1 043	266
Q4	-741	139	-2 362	419	-1 804	-27	1 886	106	1 312	732
2018 Q1	-269	-37	-77	-164	-278	-466	1 778	188	-1 736	-783
Q2	-134	-596	2 084	-346	1 142	60	-1 154	-1 036	1 121	-1
Q3	-187	-33	296	-6	257	-227	2 035	-484	-1 471	-77
Q4	190	255	894	-211	938	184	954	-561	2 288	3 993
2019 Q1	214	2 060	352	1 223	3 635	-88	1 037	512	3 216	8 526
Q2	-212	2 585	-701	-1 875	9	35	483	368	1 188	1 871
Q3	135	-110	-414	-971	-1 495	148	-162	-197	-853	-2 424
Q4	31	680	760	757	2 197	-119	271	939	-2 772	547

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

<sup>2</sup> Wholesaling and retailing estimates exclude the motor trades.

<sup>3</sup> Quarterly alignment adjustment included in this series

# G2 Changes in inventories at chained volume measures<sup>1</sup>

Reference year 2016, £ million

	Mining and quarrying	Manufacturing industries				Electricity, gas and water supply	Distributive trades		Other industries <sup>3</sup>	Changes in inventories <sup>3</sup>
		Materials and fuel	Work in progress	Finished goods	Total		Wholesale <sup>2</sup>	Retail <sup>2</sup>		
<b>Level of inventories held at end-December<sup>4</sup> 2016</b>	1 141	23 508	21 445	23 190	68 143	2 725	38 742	38 704	62 025	211 480
	FAEA	FBNF	FBNG	FBNH	DHBM	FAEB	FAJX	FBYN	DLWX	CAFU
2017	-1 441	-485	-3 076	393	-3 168	-435	3 883	-3 735	-4 081	-8 974
2018	-499	-908	3 250	-1 530	812	-644	1 740	-3 135	-3 770	-5 494
2019	180	4 328	-591	-1 236	2 501	-79	300	-173	-6 829	-4 100
<b>Seasonally adjusted</b>										
2016 Q3	-809	1 508	-91	-53	1 721	16	-141	158	2 159	3 154
Q4	-168	-196	1 806	-101	1 571	193	-330	540	-902	-113
2017 Q1	-606	941	-1 894	-494	-1 447	-152	684	-1 344	2 288	-577
Q2	548	-815	537	120	-158	28	2 062	-557	-4 156	-2 232
Q3	-283	-554	843	372	661	-151	52	-689	-2 375	-2 784
Q4	-1 100	-57	-2 562	395	-2 224	-160	1 085	-1 145	162	-3 381
2018 Q1	-64	-44	-314	1	-357	-366	1 151	124	-3 195	-2 706
Q2	-336	-410	2 320	-661	1 249	-45	-1 280	-1 115	570	-957
Q3	-305	-84	170	-441	-355	-342	1 525	-688	-2 821	-2 985
Q4	206	-370	1 074	-429	275	109	344	-1 456	1 676	1 154
2019 Q1	245	1 741	220	1 357	3 318	-2	1 035	452	1 921	6 969
Q2	-255	2 270	-949	-1 957	-636	-12	-81	54	579	-351
Q3	66	-113	-500	-1 022	-1 635	62	-448	-428	-3 394	-5 777
Q4	124	430	638	386	1 454	-127	-206	-251	-5 935	-4 941

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

2 Wholesaling and retailing estimates exclude the motor trades.

3 Quarterly alignment adjustment included in this series

4 These are values of physical stock levels in reference year (2016) prices.

# H1 Exports and imports of goods and services

## Current market prices

£ million

	Exports			Imports			Balance		
	Goods	Services	Total	Goods	Services	Total	Goods	Services	Total <sup>1</sup>
	BOKG	IKBB	IKBH	BOKH	IKBC	IKBI	BOKI	IKBD	IKBJ
2017	337 466	291 619	629 085	473 361	180 851	654 212	-135 895	110 768	-25 127
2018	349 608	306 870	656 478	488 973	197 292	686 265	-139 365	109 578	-29 787
2019	372 035	316 954	688 989	501 657	216 625	718 282	-129 622	100 329	-29 293
<b>Seasonally adjusted</b>									
2017 Q3	84 557	74 467	159 024	119 272	45 684	164 956	-34 715	28 783	-5 932
Q4	85 907	73 082	158 989	119 747	45 191	164 938	-33 840	27 891	-5 949
2018 Q1	84 870	74 423	159 293	117 637	47 516	165 153	-32 767	26 907	-5 860
Q2	87 338	75 079	162 417	121 225	48 107	169 332	-33 887	26 972	-6 915
Q3	89 343	77 267	166 610	123 817	49 044	172 861	-34 474	28 223	-6 251
Q4	88 057	80 101	168 158	126 294	52 625	178 919	-38 237	27 476	-10 761
2019 Q1	89 210	78 931	168 141	139 403	51 810	191 213	-50 193	27 121	-23 072
Q2	85 330	79 642	164 972	120 210	53 488	173 698	-34 880	26 154	-8 726
Q3	94 001	81 358	175 359	123 481	55 259	178 740	-29 480	26 099	-3 381
Q4	103 494	77 023	180 517	118 563	56 068	174 631	-15 069	20 955	5 886
<b>Percentage change, latest year on previous year</b>									
	KG9K	KH35	KH2O	KG9L	KH3W	KH3H			
2017	13.3	8.2	10.9	9.5	7.8	9.1			
2018	3.6	5.2	4.4	3.3	9.1	4.9			
2019	6.4	3.3	5.0	2.6	9.8	4.7			
<b>Percentage change, latest quarter on previous quarter</b>									
	KG9O	KH36	KH2P	KG9P	KH3X	KH3I			
2017 Q3	-0.4	2.3	0.9	0.9	0.9	0.9			
Q4	1.6	-1.9	-	0.4	-1.1	-			
2018 Q1	-1.2	1.8	0.2	-1.8	5.1	0.1			
Q2	2.9	0.9	2.0	3.1	1.2	2.5			
Q3	2.3	2.9	2.6	2.1	1.9	2.1			
Q4	-1.4	3.7	0.9	2.0	7.3	3.5			
2019 Q1	1.3	-1.5	-	10.4	-1.5	6.9			
Q2	-4.3	0.9	-1.9	-13.8	3.2	-9.2			
Q3	10.2	2.2	6.3	2.7	3.3	2.9			
Q4	10.1	-5.3	2.9	-4.0	1.5	-2.3			
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>									
	KG9S	KH37	KH2Q	KG9T	KH3Y	KH3J			
2017 Q3	14.9	10.0	12.6	6.2	6.9	6.4			
Q4	6.4	1.4	4.0	5.3	0.9	4.0			
2018 Q1	3.3	4.4	3.8	1.3	6.3	2.7			
Q2	2.9	3.1	3.0	2.6	6.2	3.6			
Q3	5.7	3.8	4.8	3.8	7.4	4.8			
Q4	2.5	9.6	5.8	5.5	16.5	8.5			
2019 Q1	5.1	6.1	5.6	18.5	9.0	15.8			
Q2	-2.3	6.1	1.6	-0.8	11.2	2.6			
Q3	5.2	5.3	5.3	-0.3	12.7	3.4			
Q4	17.5	-3.8	7.3	-6.1	6.5	-2.4			

<sup>1</sup> 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 <sup>1</sup>
	BQKQ	IKBE	IKBK	BQKO	IKBF	IKBL	IKBM
2017	316 737	285 386	602 123	444 634	176 204	620 838	-18 715
2018	316 184	293 326	609 510	444 935	188 290	633 225	-23 715
2019	334 241	297 934	632 175	453 547	202 334	655 881	-23 706
<b>Seasonally adjusted</b>							
2017 Q3	79 982	72 789	152 771	112 254	44 721	156 975	-4 204
Q4	79 722	70 784	150 506	111 213	44 214	155 427	-4 921
2018 Q1	79 251	71 771	151 022	109 736	46 114	155 850	-4 828
Q2	78 772	71 875	150 647	110 717	46 034	156 751	-6 104
Q3	80 293	73 840	154 133	111 472	46 541	158 013	-3 880
Q4	77 868	75 840	153 708	113 010	49 601	162 611	-8 903
2019 Q1	80 150	75 229	155 379	129 404	48 232	177 636	-22 257
Q2	75 685	75 082	150 767	108 716	49 879	158 595	-7 828
Q3	83 393	76 333	159 726	108 944	51 533	160 477	-751
Q4	95 013	71 290	166 303	106 483	52 690	159 173	7 130
<b>Percentage change, latest year on previous year</b>							
	KG9X	KH3B	KH2U	KG9W	KH44	KH3N	
2017	6.3	5.9	6.1	2.9	5.1	3.5	
2018	-0.2	2.8	1.2	0.1	6.9	2.0	
2019	5.7	1.6	3.7	1.9	7.5	3.6	
<b>Percentage change, latest quarter on previous quarter</b>							
	KGA2	KH3C	KH2V	KG9Z	KH45	KH3O	
2017 Q3	-0.1	2.3	1.0	0.5	1.1	0.6	
Q4	-0.3	-2.8	-1.5	-0.9	-1.1	-1.0	
2018 Q1	-0.6	1.4	0.3	-1.3	4.3	0.3	
Q2	-0.6	0.1	-0.2	0.9	-0.2	0.6	
Q3	1.9	2.7	2.3	0.7	1.1	0.8	
Q4	-3.0	2.7	-0.3	1.4	6.6	2.9	
2019 Q1	2.9	-0.8	1.1	14.5	-2.8	9.2	
Q2	-5.6	-0.2	-3.0	-16.0	3.4	-10.7	
Q3	10.2	1.7	5.9	0.2	3.3	1.2	
Q4	13.9	-6.6	4.1	-2.3	2.2	-0.8	
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>							
	KGA5	KH3D	KH2W	KGA4	KH46	KH3P	
2017 Q3	10.8	9.8	10.3	1.7	7.4	3.2	
Q4	4.8	-0.1	2.4	1.3	1.1	1.3	
2018 Q1	2.9	1.6	2.3	0.3	7.1	2.2	
Q2	-1.6	1.0	-0.4	-0.9	4.1	0.5	
Q3	0.4	1.4	0.9	-0.7	4.1	0.7	
Q4	-2.3	7.1	2.1	1.6	12.2	4.6	
2019 Q1	1.1	4.8	2.9	17.9	4.6	14.0	
Q2	-3.9	4.5	0.1	-1.8	8.4	1.2	
Q3	3.9	3.4	3.6	-2.3	10.7	1.6	
Q4	22.0	-6.0	8.2	-5.8	6.2	-2.1	

<sup>1</sup> 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) <sup>3</sup>				
	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 <sup>1</sup>	Expenditure-based estimate	Income-based estimate	Expenditure-based estimate	Income-based estimate <sup>2</sup>	Output-based estimate
	CAGR	CAGQ	CAGS	DJDS	IHYA	IHYB	IHYC	IHYD	YBFR
2017	1 813 229	1 846 693	1 846 694	–1	103.9	103.9	102.0	102.0	102.0
2018	1 832 207	1 907 477	1 911 067	–3 590	107.3	107.5	103.0	103.2	103.7
2019	1 861 469	1 976 598	1 972 747	3 851	111.2	110.9	104.7	104.5	105.1
<b>Seasonally adjusted</b>									
2017 Q3	453 971	461 067	460 954	113	103.7	103.7	102.1	102.1	102.1
Q4	455 321	467 764	468 181	–417	105.2	105.3	102.4	102.5	102.6
2018 Q1	455 283	471 951	472 227	–276	106.2	106.2	102.4	102.5	102.8
Q2	457 521	474 230	474 431	–201	106.7	106.7	102.9	103.0	103.4
Q3	459 609	480 138	481 125	–987	108.0	108.2	103.4	103.6	104.1
Q4	459 794	481 158	483 284	–2 126	108.2	108.7	103.4	103.9	104.4
2019 Q1	464 438	489 813	488 885	928	110.2	110.0	104.5	104.3	105.0
Q2	464 159	492 032	490 870	1 162	110.7	110.4	104.4	104.2	104.8
Q3	466 453	496 906	495 898	1 008	111.8	111.6	104.9	104.7	105.3
Q4	466 419	497 847	497 094	753	112.0	111.8	104.9	104.8	105.3
<b>Percentage change, latest year on previous year</b>									
	KH4D	KH47	KH68		KH47	KH68	KH4D	KH6E	GDPQ
2017	2.0	3.9	3.9		3.9	3.9	2.0	2.0	2.0
2018	1.0	3.3	3.5		3.3	3.5	1.0	1.2	1.6
2019	1.6	3.6	3.2		3.6	3.2	1.6	1.2	1.4
<b>Percentage change, latest quarter on previous quarter</b>									
	KH4F	KH49	KH6A		KH49	KH6A	KH4F	KH6G	
2017 Q3	0.3	0.2	0.2		0.2	0.2	0.3	0.3	0.4
Q4	0.3	1.5	1.6		1.5	1.6	0.3	0.4	0.5
2018 Q1	–	0.9	0.9		0.9	0.9	–	–	0.2
Q2	0.5	0.5	0.5		0.5	0.5	0.5	0.5	0.6
Q3	0.5	1.2	1.4		1.2	1.4	0.5	0.6	0.7
Q4	–	0.2	0.4		0.2	0.4	–	0.3	0.3
2019 Q1	1.0	1.8	1.2		1.8	1.2	1.0	0.4	0.6
Q2	–0.1	0.5	0.4		0.5	0.4	–0.1	–0.1	–0.1
Q3	0.5	1.0	1.0		1.0	1.0	0.5	0.5	0.5
Q4	–	0.2	0.2		0.2	0.2	–	–	–
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>									
	KH4H	KH4B	KH6C		KH4B	KH6C	KH4H	KH6I	GDPR
2017 Q3	1.9	3.2	3.2		3.2	3.2	1.9	1.9	1.9
Q4	1.5	3.5	3.6		3.5	3.6	1.5	1.6	1.7
2018 Q1	0.9	3.1	3.2		3.1	3.2	0.9	0.9	1.3
Q2	1.1	3.1	3.2		3.1	3.2	1.1	1.2	1.6
Q3	1.2	4.1	4.4		4.1	4.4	1.2	1.5	1.9
Q4	1.0	2.9	3.2		2.9	3.2	1.0	1.3	1.7
2019 Q1	2.0	3.8	3.5		3.8	3.5	2.0	1.8	2.1
Q2	1.5	3.8	3.5		3.8	3.5	1.5	1.2	1.4
Q3	1.5	3.5	3.1		3.5	3.1	1.5	1.1	1.2
Q4	1.4	3.5	2.9		3.5	2.9	1.4	0.8	0.9

<sup>1</sup> 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.

<sup>2</sup> Income data deflated by the implied GDP deflator, based on expenditure data.

<sup>3</sup> The growth rates of index numbers are calculated using unrounded data.

# M Alignment adjustments<sup>1</sup>

£ million

	Changes in inventories		Gross operating surplus of non-financial corporations at current prices
	At current prices	Chained volume measures (Reference year 2016)	
<b>Seasonally adjusted</b>			
	DMUN	DMUM	DMUQ
2017 Q3	-349	-342	44
Q4	453	446	71
2018 Q1	-739	-713	1 960
Q2	1 620	1 560	-403
Q3	-2 085	-1 997	431
Q4	1 204	1 150	-1 988
2019 Q1	1 390	1 317	-737
Q2	169	155	-644
Q3	194	178	907
Q4	-1 753	-1 650	474

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



# Selected financial year variables 1,2

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

	Current prices					Chained Volume Measures (reference year 2016)				
	Gross domestic product at market prices	Gross domestic product at market prices non seasonally adjusted	Gross value added at basic prices	General government final consumption expenditure	General government gross fixed capital formation	Gross domestic product at market prices	Gross value added at basic prices	General government final consumption expenditure	General government gross fixed capital formation	Implied GDP deflator at market prices <sup>3,4</sup>
	YBHA	BKTL	ABML	NMRP	RPZG	ABMI	ABMM	NMRY	DLWF	L8GG
2015/16	1 934 489	1 934 600	1 723 821	375 641	49 666	1 967 966	1 752 769	380 173	49 428	94.0193
2016/17	2 019 115	2 019 484	1 799 847	383 393	53 708	2 006 495	1 788 490	381 572	53 447	96.2454
2017/18	2 086 798	2 085 654	1 861 834	388 194	55 504	2 038 569	1 818 069	382 586	54 329	97.9082
2018/19	2 164 918	2 167 319	1 930 257	400 298	59 348	2 070 634	1 846 068	386 493	56 541	100.0000
<b>Seasonally adjusted</b>										
2017 Q3	517 788	513 359	461 056	96 670	13 790	508 982	453 960	95 724	13 517	97.3022
Q4	524 887	530 365	468 191	97 631	14 161	511 014	455 736	95 905	13 703	98.2440
2018 Q1	528 589	529 837	472 632	98 024	13 643	511 318	455 941	95 497	13 160	98.8781
Q2	533 844	530 412	475 041	98 355	14 007	514 011	458 302	95 430	13 412	99.3379
Q3	539 878	535 871	481 547	99 472	14 539	517 029	460 958	95 991	14 208	99.8743
Q4	541 993	548 184	483 362	100 379	14 955	518 136	461 901	97 235	14 340	100.0513
2019 Q1	549 203	552 852	490 307	102 092	15 847	521 458	464 907	97 837	14 581	100.7364
Q2	551 534	547 159	492 310	104 125	15 128	520 893	464 421	99 138	13 932	101.2737
Q3	556 693	550 895	497 195	104 390	15 834	523 463	466 724	99 416	13 919	101.7192
Q4	557 460	563 983	498 265	107 379	15 782	523 588	466 811	101 506	13 845	101.8350
<b>Percentage change, latest financial year on previous financial year</b>										
2015/16	3.2	3.4	3.1	1.5	-2.5	2.3	2.1	2.2	-6.5	0.9
2016/17	4.4	4.4	4.4	2.1	8.1	2.0	2.0	0.4	8.1	2.4
2017/18	3.4	3.3	3.4	1.3	3.3	1.6	1.7	0.3	1.7	1.7
2018/19	3.7	3.9	3.7	3.1	6.9	1.6	1.5	1.0	4.1	2.1
<b>Percentage change, latest quarter on previous quarter</b>										
	IHYN	A8L9	KGL8	KH2D	KH7P	IHYQ	KGM9	KH2J	KH9C	L8GH
2017 Q3	0.4	0.2	0.2	0.8	-0.9	0.3	0.3	0.3	-3.1	0.1
Q4	1.4	3.3	1.5	1.0	2.7	0.4	0.4	0.2	1.4	1.0
2018 Q1	0.7	-0.1	0.9	0.4	-3.7	0.1	-	-0.4	-4.0	0.6
Q2	1.0	0.1	0.5	0.3	2.7	0.5	0.5	-0.1	1.9	0.5
Q3	1.1	1.0	1.4	1.1	3.8	0.6	0.6	0.6	5.9	0.5
Q4	0.4	2.3	0.4	0.9	2.9	0.2	0.2	1.3	0.9	0.2
2019 Q1	1.3	0.9	1.4	1.7	6.0	0.6	0.7	0.6	1.7	0.7
Q2	0.4	-1.0	0.4	2.0	-4.5	-0.1	-0.1	1.3	-4.5	0.5
Q3	0.9	0.7	1.0	0.3	4.7	0.5	0.5	0.3	-0.1	0.4
Q4	0.1	2.4	0.2	2.9	-0.3	-	-	2.1	-0.5	0.1
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>										
	IHYO	A8LA	KGM2	KH2E	KH7R	IHYR	KGN3	KH2K	KH9M	L8GI
2017 Q3	3.4	3.7	3.2	1.1	0.8	1.8	1.9	0.4	-0.7	1.6
Q4	3.5	3.7	3.6	1.7	5.9	1.6	1.6	0.4	3.0	1.8
2018 Q1	2.9	2.7	3.3	1.6	1.6	1.1	1.0	0.1	-0.8	1.9
Q2	3.6	3.6	3.3	2.6	0.7	1.3	1.3	-	-3.8	2.2
Q3	4.3	4.4	4.4	2.9	5.4	1.6	1.5	0.3	5.1	2.6
Q4	3.3	3.4	3.2	2.8	5.6	1.4	1.4	1.4	4.6	1.8
2019 Q1	3.9	4.3	3.7	4.2	16.2	2.0	2.0	2.5	10.8	1.9
Q2	3.3	3.2	3.6	5.9	8.0	1.3	1.3	3.9	3.9	1.9
Q3	3.1	2.8	3.2	4.9	8.9	1.2	1.3	3.6	-2.0	1.8
Q4	2.9	2.9	3.1	7.0	5.5	1.1	1.1	4.4	-3.5	1.8

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

2 All data are seasonally adjusted unless otherwise specified.

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

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

# O Selected implied deflators<sup>1</sup>

2019 = 100

	Implied deflators <sup>2</sup>		
	Gross national expenditure	Gross domestic product at market prices <sup>3</sup>	Gross value added at basic prices
	MNE2	MNF2	MNX5
2017	96.2053	96.1167	95.9131
2018	98.2065	98.1698	98.0436
2019	100.0000	100.0000	100.0000
<b>Seasonally adjusted</b>			
2017 Q3	96.0816	95.9672	95.6484
Q4	96.8682	96.8961	96.7501
2018 Q1	97.4878	97.5215	97.6239
Q2	97.8862	97.9750	97.6160
Q3	98.7083	98.5040	98.3827
Q4	98.7438	98.6786	98.5519
2019 Q1	99.0944	99.3543	99.3216
Q2	99.7651	99.8842	99.8317
Q3	100.5897	100.3236	100.3248
Q4	100.5508	100.4378	100.5219
<b>Percentage change, latest year on previous year</b>			
	MNE3	MNF3	MNX6
2016	1.9	2.1	2.0
2017	2.2	1.9	1.8
2018	2.1	2.1	2.2
2019	1.8	1.9	2.0
<b>Percentage change, latest quarter on previous quarter</b>			
	MNE4	MNF4	MNX7
2016 Q3	0.2	0.2	0.1
Q4	0.4	0.7	0.5
2017 Q1	1.3	0.6	0.7
Q2	-0.2	0.2	0.2
Q3	0.2	0.1	-0.1
Q4	0.8	1.0	1.2
2018 Q1	0.6	0.6	0.9
Q2	0.4	0.5	-
Q3	0.8	0.5	0.8
Q4	-	0.2	0.2
2019 Q1	0.4	0.7	0.8
Q2	0.7	0.5	0.5
Q3	0.8	0.4	0.5
Q4	-	0.1	0.2
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>			
	MNE5	MNF5	MNX8
2016 Q3	1.7	2.1	2.1
Q4	2.9	3.0	2.7
2017 Q1	2.9	2.5	2.6
Q2	1.8	1.6	1.6
Q3	1.8	1.6	1.3
Q4	2.2	1.8	2.0
2018 Q1	1.5	1.9	2.2
Q2	2.1	2.2	2.0
Q3	2.7	2.6	2.9
Q4	1.9	1.8	1.9
2019 Q1	1.6	1.9	1.7
Q2	1.9	1.9	2.3
Q3	1.9	1.8	2.0
Q4	1.8	1.8	2.0

1 Implied deflator is expressed in terms of 2019 = 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 Head<sup>1</sup>

£

	UK resident population mid-year estimates (persons thousands) <sup>2</sup>	Current Prices		Chained volume measures (Reference year 2016)	
		Gross domestic product at market prices <sup>3</sup>	Gross domestic product per head	Gross domestic product at market prices <sup>3</sup>	Gross domestic product per head
	EBAQ	YBHA	IHXT	ABMI	IHXW
2016	65 648	1 995 478	30 397	1 995 478	30 397
2017	66 040	2 071 667	31 370	2 033 234	30 788
2018	66 436	2 144 304	32 276	2 060 494	31 015
2019	66 833	2 214 890	33 141	2 089 402	31 263
<b>Seasonally adjusted</b>					
2016 Q3	65 746	500 711	7 616	499 836	7 603
Q4	65 844	507 375	7 706	503 083	7 641
2017 Q1	65 942	513 458	7 787	505 983	7 673
Q2	66 040	515 534	7 806	507 255	7 681
Q3	66 139	517 788	7 829	508 982	7 696
Q4	66 238	524 887	7 924	511 014	7 715
2018 Q1	66 337	528 589	7 968	511 318	7 708
Q2	66 436	533 844	8 035	514 011	7 737
Q3	66 535	539 878	8 114	517 029	7 771
Q4	66 634	541 993	8 134	518 136	7 776
2019 Q1	66 734	549 203	8 230	521 458	7 814
Q2	66 833	551 534	8 252	520 893	7 794
Q3	66 924	556 693	8 318	523 463	7 822
Q4	67 014	557 460	8 319	523 588	7 813
<b>Percentage change, latest year on previous year</b>					
		IHYM	N3Y3	IHYP	N3Y6
2016		4.1	3.2	1.9	1.1
2017		3.8	3.2	1.9	1.3
2018		3.5	2.9	1.3	0.7
2019		3.3	2.7	1.4	0.8
<b>Percentage change, latest quarter on previous quarter</b>					
		IHYN	N3Y4	IHYQ	N3Y7
2016 Q3		0.6	0.5	0.5	0.3
Q4		1.3	1.2	0.6	0.5
2017 Q1		1.2	1.1	0.6	0.4
Q2		0.4	0.2	0.3	0.1
Q3		0.4	0.3	0.3	0.2
Q4		1.4	1.2	0.4	0.2
2018 Q1		0.7	0.6	0.1	-0.1
Q2		1.0	0.8	0.5	0.4
Q3		1.1	1.0	0.6	0.4
Q4		0.4	0.2	0.2	0.1
2019 Q1		1.3	1.2	0.6	0.5
Q2		0.4	0.3	-0.1	-0.3
Q3		0.9	0.8	0.5	0.4
Q4		0.1	-	-	-0.1
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>					
		IHYO	N3Y5	IHYR	N3Y8
2016 Q3		4.1	3.3	1.9	1.1
Q4		4.8	4.1	1.8	1.1
2017 Q1		4.8	4.1	2.2	1.6
Q2		3.6	3.0	1.9	1.3
Q3		3.4	2.8	1.8	1.2
Q4		3.5	2.8	1.6	1.0
2018 Q1		2.9	2.3	1.1	0.5
Q2		3.6	2.9	1.3	0.7
Q3		4.3	3.6	1.6	1.0
Q4		3.3	2.7	1.4	0.8
2019 Q1		3.9	3.3	2.0	1.4
Q2		3.3	2.7	1.3	0.7
Q3		3.1	2.5	1.2	0.7
Q4		2.9	2.3	1.1	0.5

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 This data uses the UK resident population mid-year estimates published 26 June 2019

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

# R Revisions Analysis

## Revisions since previously published estimates<sup>1</sup>

£ million

2018

### Latest less previously published levels of GDP

#### at current market prices

#### National accounts aggregates

##### at current prices (Table A2)

Gross domestic product at market prices

KB7D

—

less Basic price adjustment

KB7E

—

Gross value added at basic prices

KB7F

—

#### Gross domestic product:

##### expenditure at current prices (Table C1)

National expenditure on goods and services

at market prices

Households

KB7K

—

Non-profit institutions serving households

KB7L

—

General government

KB7M

—

Gross fixed capital formation

KB7N

—

Changes in inventories

KB7O

—

Acquisitions less disposals of valuables

KB7P

—

Total

KB7Q

—

Total exports

KB7R

—

Total imports

KB7S

—

Statistical discrepancy (expenditure)

KB7T

—

#### Gross domestic product:

##### income at current prices (Table D)

Compensation of employees

KB7U

—

Gross operating surplus of corporations

KB7V

—

Other income

KB7W

—

Gross value added at factor cost

KB7X

—

Taxes on products & production less Subsidies

KB7Y

—

Statistical discrepancy (income)

KB7Z

—

2018

### Latest less previously published growth rates for GDP

#### in chained volume terms

#### Percentage changes in volume of GDP (Table A2)

Gross domestic product chained volume measures

Year on year growth

KB82

—

#### Percentage changes in volume

##### of GVA output components (Table B1)

GVA at basic prices

Agriculture, forestry and fishing

KB83

—

Mining and quarrying inc oil & gas extraction

KB84

—

Manufacturing

KB85

—

Electricity, gas, steam and air

KB86

—

Water supply, sewerage

KNT7

—

Total Production

KB87

—

Construction

KB88

—

Distribution, hotels and catering; repairs

KB89

—

Transport storage and communications

KB8A

—

Business services and finance

KB8B

—

Government and other services

KB8C

—

Total services

KB8D

—

Total GVA

KB8E

—

Total GVA excluding Oil

KB8F

—

#### Percentage changes in volume

##### of GDP expenditure components (Table C2)

National expenditure on goods and services

at market prices

Households

KB8G

—

Non-profit institutions serving households

KB8H

—

General government

KB8I

—

Gross fixed capital formation

KB8J

—

Total

KB8K

—

Total exports

KB8L

—

Total imports

KB8M

—

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

# R Revisions Analysis

## Revisions since previously published estimates<sup>1</sup>

continued

£ million

		2018 Q1	2018 Q2	2018 Q3	2018 Q4	2019 Q1	2019 Q2	2019 Q3
<b>Latest less previously published levels of GDP</b>								
<b>at current market prices</b>								
<b>National accounts aggregates</b>								
<b>at current prices (Table A2)</b>								
Gross domestic product at market prices	KB7D	–	–	–	–	1 631	–1 047	21
less Basic price adjustment	KB7E	–	–	–	–	–39	–205	374
Gross value added at basic prices	KB7F	–	–	–	–	1 670	–842	–353
<b>Gross domestic product:</b>								
<b>expenditure at current prices (Table C1)</b>								
<b>National expenditure on goods and services</b>								
<b>at market prices</b>								
Households	KB7K	–	–	–	–	67	33	755
Non-profit institutions serving households	KB7L	–	–	–	–	–7	10	–86
General government	KB7M	–	–	–	–	–122	–114	–
Gross fixed capital formation	KB7N	–	–	–	–	37	174	426
Changes in inventories	KB7O	–	–	–	–	3 529	–1 584	2 840
Acquisitions less disposals of valuables	KB7P	–	–	–	–	37	30	681
Total	KB7Q	–	–	–	–	3 541	–1 451	4 616
Total exports	KB7R	–	–	–	–	179	2 802	153
Total imports	KB7S	–	–	–	–	393	622	3 124
Statistical discrepancy (expenditure)	KB7T	–	–	–	–	–1 696	–1 776	–1 624
<b>Gross domestic product:</b>								
<b>income at current prices (Table D)</b>								
Compensation of employees	KB7U	–	–	–	–	–35	–170	–369
Gross operating surplus of corporations	KB7V	–	–	–	–	445	–1 743	–27
Other income	KB7W	–	–	–	–	103	127	–393
Gross value added at factor cost	KB7X	–	–	–	–	513	–1 786	–789
Taxes on products & production less Subsidies	KB7Y	–	–	–	–	–240	–322	232
Statistical discrepancy (income)	KB7Z	–	–	–	–	1 358	1 061	578
		2018 Q1	2018 Q2	2018 Q3	2018 Q4	2019 Q1	2019 Q2	2019 Q3
<b>Latest less previously published growth rates</b>								
<b>for GDP in chained volume terms</b>								
<b>Percentage changes in volume of GDP (Table A2)</b>								
<b>Gross domestic product chained volume measures</b>								
Quarter on quarter growth	KB82	–	–	–	–	–	0.1	0.1
Quarter on same quarter a year earlier	KB94	–	–	–	–	–	0.1	0.1
<b>Percentage changes in volume</b>								
<b>of GVA output components (Table B1)</b>								
<b>GVA at basic prices quarter on quarter growth</b>								
Agriculture, forestry and fishing	KB83	–	–	–	–	0.6	–0.2	–0.3
Mining and quarrying inc oil & gas extraction	KB84	–	–	–	–	–0.3	–	1.8
Manufacturing	KB85	–	–	–	–	–0.6	–0.4	–0.3
Electricity, gas, steam and air	KB86	–	–	–	–	0.5	–0.6	0.2
Water supply, sewerage	KNT7	–	–	–	–	0.4	–0.2	–0.4
Total Production	KB87	–	–	–	–	–0.3	–0.3	–0.2
Construction	KB88	–	–	–	–	0.1	0.1	–0.1
Distribution, hotels and catering; repairs	KB89	–	–	–	–	–0.1	0.1	–0.2
Transport storage and communications	KB8A	–	–	–	–	0.2	0.2	0.1
Business services and finance	KB8B	–	–	–	–	–0.1	0.1	0.1
Government and other services	KB8C	–	–	–	–	–	–	0.1
Total services	KB8D	–	–	–	–	–	–	–
Total GVA	KB8E	–	–	–	–	0.1	0.1	0.1
Total GVA excluding Oil	KB8F	–	–	–	–	–	0.1	0.1
<b>Percentage changes in volume of GDP</b>								
<b>expenditure components (Table C2)</b>								
<b>National expenditure on goods and services</b>								
<b>at market prices quarter on quarter growth</b>								
Households	KB8G	–	–	–	–	0.1	–	0.1
Non-profit institutions serving households	KB8H	–	–	–	–	0.1	–0.1	–1.0
General government	KB8I	–	–	–	–	–0.4	0.1	0.9
Gross fixed capital formation	KB8J	–	–	–	–	–	0.1	0.1
Total	KB8K	–	–	–	–	0.1	–0.2	1.0
Total exports	KB8L	–	–	–	–	0.8	1.1	–2.0
Total imports	KB8M	–	–	–	–	–	0.1	1.5

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

# AA Annex A - Growth and contributions to growth - output components of GDP<sup>1</sup>

## Chained Volume Measures

Seasonally adjusted data

Reference year 2016

	Agri- culture, forestry, and fishing	Total Production	Mining & quarrying inc oil & gas extract	Manu- facturing	Electric, gas, steam & air	Water supply, sewerage	Constr uction	Total Services	Distri- bution, hotels & catering	Transport storage and commu- nications	Business services and finance	Govern- ment and other services
<b>Percentage change, latest year on previous year</b>												
<b>Growth</b>	L3BB	L3BG	L3BH	L3BN	L3DM	L3DQ	L3DW	L3E2	L3GP	KI8L	KI8N	KI8P
2018	-3.0	0.8	5.3	0.9	-1.6	0.5	—	2.0	3.0	3.8	1.8	0.7
2019	-1.7	-1.3	-0.5	-1.5	-2.9	1.5	2.5	1.8	2.6	4.6	0.5	1.8
<b>Contributions to growth<sup>2</sup></b>												
	ZZ3V	ZZ3W	ZZ3Y	ZZ3X	ZZ3Z	ZZ42	ZZ43	ZZ44	ZZ45	ZZ46	ZZ47	ZZ48
2018	-0.02	0.11	0.04	0.09	-0.02	0.01	—	1.58	0.40	0.42	0.59	0.15
2019	-0.01	-0.18	—	-0.15	-0.04	0.02	0.15	1.42	0.34	0.52	0.18	0.40
<b>Percentage change, latest quarter on previous quarter</b>												
<b>Growth</b>	L3BB	L3BG	L3BH	L3BN	L3DM	L3DQ	L3DW	L3E2	L3GP	KI8L	KI8N	KI8P
2017 Q1	4.7	0.7	3.0	0.9	-4.1	3.0	4.2	0.2	0.2	0.2	-0.3	0.9
Q2	0.1	-0.4	1.0	-0.1	0.9	-4.0	0.3	0.4	0.5	1.6	-0.2	0.5
Q3	0.6	0.9	1.3	0.9	0.3	1.0	0.1	0.3	0.4	0.6	0.5	-0.2
Q4	-1.0	1.1	-2.6	1.5	-0.2	0.6	0.7	0.4	0.2	1.0	0.5	-0.2
2018 Q1	-2.0	-0.1	1.5	-0.2	1.6	-1.8	-1.8	0.4	0.4	-0.1	0.7	0.2
Q2	-1.0	-0.4	4.8	-0.4	-5.1	2.2	0.8	0.8	1.9	1.4	0.3	0.4
Q3	-0.3	0.6	3.2	0.1	1.6	1.8	1.1	0.7	1.2	2.0	0.2	0.4
Q4	0.7	-0.9	-1.4	-0.8	-0.9	-0.9	—	0.5	0.5	1.2	0.3	0.4
2019 Q1	-1.2	1.0	-1.4	1.8	-2.3	-1.0	1.8	0.4	1.1	1.5	-0.3	0.5
Q2	-0.5	-2.0	-1.2	-3.0	1.4	1.3	-0.9	0.2	0.2	0.7	—	0.4
Q3	-0.4	-0.1	1.7	-0.2	-1.6	1.2	1.1	0.5	—	0.7	0.6	0.6
Q4	-0.2	-0.8	-2.8	-1.1	1.8	0.5	0.5	0.1	-0.4	-0.1	0.2	0.3
<b>Contributions to growth<sup>2</sup></b>												
	ZZ2F	ZZ2G	ZZ2I	ZZ2H	ZZ2J	ZZ2K	ZZ2L	ZZ2M	ZZ2N	ZZ2O	ZZ2P	ZZ2Q
2017 Q1	0.03	0.09	0.02	0.10	-0.06	0.04	0.26	0.16	0.03	0.03	-0.09	0.20
Q2	—	-0.05	0.01	-0.01	0.01	-0.05	0.02	0.28	0.06	0.18	-0.06	0.10
Q3	—	0.12	0.01	0.10	—	0.01	0.01	0.24	0.05	0.06	0.17	-0.05
Q4	-0.01	0.14	-0.02	0.16	—	0.01	0.05	0.28	0.02	0.12	0.18	-0.04
2018 Q1	-0.01	-0.02	0.01	-0.02	0.02	-0.02	-0.11	0.34	0.06	-0.01	0.24	0.05
Q2	-0.01	-0.06	0.04	-0.04	-0.07	0.03	0.05	0.61	0.25	0.16	0.11	0.09
Q3	—	0.08	0.03	0.01	0.02	0.02	0.06	0.52	0.16	0.23	0.06	0.08
Q4	—	-0.12	-0.01	-0.08	-0.01	-0.01	—	0.41	0.07	0.14	0.12	0.09
2019 Q1	-0.01	0.13	-0.01	0.18	-0.03	-0.01	0.11	0.34	0.14	0.17	-0.08	0.11
Q2	—	-0.28	-0.01	-0.29	0.02	0.02	-0.06	0.19	0.03	0.08	—	0.09
Q3	—	-0.02	0.02	-0.02	-0.02	0.01	0.07	0.42	—	0.08	0.20	0.14
Q4	—	-0.10	-0.03	-0.11	0.02	0.01	0.03	0.06	-0.05	-0.02	0.06	0.09
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>												
<b>Growth</b>	L3ZZ	L426	L427	L42D	L44C	L44G	L44M	L44Q	L47F	KI12	KI19	KI18
2017 Q1	4.9	2.5	1.7	2.4	0.3	6.2	8.0	1.8	2.9	3.1	1.7	0.8
Q2	6.6	0.2	2.8	0.6	-3.7	0.2	6.5	2.1	2.8	4.6	1.3	1.6
Q3	7.1	2.0	-0.4	2.6	-0.4	1.2	5.9	1.5	2.9	3.2	0.6	1.4
Q4	4.4	2.3	2.7	3.3	-3.1	0.5	5.4	1.2	1.3	3.5	0.6	1.0
2018 Q1	-2.2	1.5	1.2	2.1	2.7	-4.2	-0.7	1.4	1.4	3.2	1.6	0.3
Q2	-3.2	1.4	5.0	1.8	-3.5	2.0	-0.2	1.9	2.9	3.0	2.1	0.2
Q3	-4.1	1.1	6.9	1.0	-2.3	2.9	0.8	2.2	3.7	4.5	1.8	0.8
Q4	-2.5	-0.9	8.2	-1.4	-3.1	1.3	—	2.4	4.0	4.7	1.6	1.4
2019 Q1	-1.8	0.2	5.2	0.7	-6.8	2.1	3.7	2.4	4.7	6.3	0.6	1.7
Q2	-1.3	-1.4	-0.8	-1.9	-0.4	1.2	1.9	1.8	3.0	5.5	0.3	1.6
Q3	-1.5	-2.1	-2.2	-2.2	-3.5	0.6	2.0	1.7	1.8	4.1	0.7	1.9
Q4	-2.4	-2.0	-3.7	-2.5	-0.8	2.0	2.5	1.3	0.9	2.7	0.6	1.8
<b>Contributions to growth<sup>2</sup></b>												
	ZZ36	ZZ37	ZZ39	ZZ38	ZZ3A	ZZ3B	ZZ3C	ZZ3D	ZZ3E	ZZ3F	ZZ3G	ZZ3H
2017 Q1	0.03	0.35	0.01	0.25	—	0.08	0.48	1.45	0.38	0.33	0.56	0.17
Q2	0.04	0.02	0.02	0.06	-0.06	—	0.40	1.63	0.37	0.49	0.43	0.35
Q3	0.05	0.27	—	0.26	-0.01	0.02	0.36	1.23	0.38	0.35	0.21	0.30
Q4	0.03	0.31	0.02	0.33	-0.05	0.01	0.33	0.97	0.17	0.38	0.20	0.22
2018 Q1	-0.02	0.20	0.01	0.21	0.04	-0.06	-0.04	1.15	0.19	0.35	0.54	0.07
Q2	-0.02	0.19	0.04	0.18	-0.05	0.03	-0.01	1.48	0.39	0.33	0.71	0.05
Q3	-0.03	0.15	0.05	0.10	-0.03	0.04	0.05	1.77	0.49	0.49	0.60	0.18
Q4	-0.02	-0.12	0.06	-0.14	-0.04	0.02	—	1.90	0.54	0.52	0.53	0.31
2019 Q1	-0.01	0.03	0.05	0.07	-0.10	0.03	0.22	1.89	0.63	0.69	0.20	0.37
Q2	-0.01	-0.19	-0.01	-0.19	-0.01	0.02	0.12	1.47	0.40	0.61	0.09	0.37
Q3	-0.01	-0.28	-0.02	-0.22	-0.05	0.01	0.12	1.36	0.24	0.46	0.24	0.43
Q4	-0.02	-0.26	-0.04	-0.25	-0.01	0.03	0.15	1.00	0.12	0.30	0.19	0.42

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

2 Contributions 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

3 For the most accurate figures on construction, please refer to the Construction output in Great Britain release.

# AB Annex B - Growth and contributions to growth - expenditure components of GDP<sup>1,2</sup>

## Chained Volume Measures

Seasonally adjusted data

Reference year 2016

Final consumption expenditure									
	Households	Non-profit institutions <sup>3</sup>	General government <sup>4</sup>	Gross capital formation	Gross fixed capital formation	Business investment	Total exports	less Total imports	Net trade
<b>Percentage change, latest year on previous year</b>									
<b>Growth</b>									
	KGZ5	KH26	KH2I	ZZ6H	KG7N	KG7M	KH2U	KH3N	
2018	1.6	0.2	0.4	1.4	-0.2	-1.5	1.2	2.0	
2019	1.4	-1.2	3.6	0.4	0.4	0.3	3.7	3.6	
<b>Contributions to growth</b>									
	ZZ6M	ZZ6N	ZZ6O	ZZ6P	ZZ6Q	ZZ6R	ZZ6S	ZZ6T	ZZ6U
2018	1.02	-	0.08	0.25	-0.04	-0.15	0.37	0.63	-0.26
2019	0.87	-0.03	0.66	0.07	0.07	0.03	1.14	1.15	-0.01
<b>Percentage change, latest quarter on previous quarter</b>									
<b>Growth</b>									
	KGZ6	KH27	KH2J	ZZ5H	KG7Q	KG7P	KH2V	KH3O	
2017 Q1	0.5	0.7	-0.1	2.1	-	2.3	0.4	-0.7	
Q2	0.3	0.5	-	0.3	1.4	1.2	2.4	2.3	
Q3	0.4	-0.3	0.3	-0.5	-0.4	0.2	1.0	0.6	
Q4	0.3	0.7	0.2	1.3	1.1	0.2	-1.5	-1.0	
2018 Q1	0.4	0.3	-0.4	-1.2	-1.2	-0.8	0.3	0.3	
Q2	0.6	-0.9	-0.1	2.5	-0.2	-0.8	-0.2	0.6	
Q3	0.4	0.1	0.6	-2.0	0.3	-0.9	2.3	0.8	
Q4	0.2	0.1	1.3	4.3	-0.1	-0.6	-0.3	2.9	
2019 Q1	0.3	-0.1	0.6	18.9	1.1	1.1	1.1	9.2	
Q2	0.5	-1.0	1.3	-16.8	-0.5	0.5	-3.0	-10.7	
Q3	0.4	-0.1	0.3	-6.8	0.3	0.2	5.9	1.2	
Q4	0.1	-0.7	2.1	-12.4	-1.6	-1.0	4.1	-0.8	
<b>Contributions to growth</b>									
	ZZ5M	ZZ5N	ZZ5O	ZZ5P	ZZ5Q	ZZ5R	ZZ5S	ZZ5T	ZZ5U
2017 Q1	-0.08	0.02	-0.01	0.35	0.01	0.22	0.13	-0.20	0.33
Q2	0.18	0.01	0.01	0.05	0.24	0.11	0.70	0.69	0.01
Q3	0.25	-0.01	0.05	-0.08	-0.07	0.02	0.31	0.20	0.11
Q4	0.19	0.02	0.04	0.21	0.19	0.02	-0.45	-0.30	-0.14
2018 Q1	0.27	0.01	-0.08	-0.21	-0.20	-0.08	0.10	0.09	0.02
Q2	0.37	-0.02	-0.01	0.43	-0.04	-0.08	-0.08	0.18	-0.26
Q3	0.27	-	0.11	-0.36	0.05	-0.09	0.70	0.25	0.44
Q4	0.10	-	0.24	0.73	-0.02	-0.05	-0.08	0.92	-1.00
2019 Q1	0.18	-	0.12	3.32	0.18	0.10	0.33	3.02	-2.69
Q2	0.34	-0.02	0.25	-3.48	-0.09	0.05	-0.92	-3.80	2.89
Q3	0.23	-	0.05	-1.18	0.05	0.02	1.78	0.38	1.40
Q4	0.05	-0.01	0.40	-1.99	-0.28	-0.09	1.30	-0.26	1.56
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>									
<b>Growth</b>									
	KGZ7	KH28	KH2K	ZZ5Y	KG7T	KG7S	KH2W	KH3P	
2017 Q1	3.7	-2.5	0.1	-2.2	1.7	3.0	5.6	4.0	
Q2	2.5	-0.2	0.2	0.9	2.2	3.1	6.4	5.6	
Q3	1.6	0.5	0.4	-7.9	0.5	1.7	10.3	3.2	
Q4	1.5	1.6	0.4	3.2	2.2	3.9	2.4	1.3	
2018 Q1	1.4	1.2	0.1	-0.1	1.0	0.7	2.3	2.2	
Q2	1.7	-0.2	-	2.0	-0.7	-1.2	-0.4	0.5	
Q3	1.8	0.2	0.3	0.5	-	-2.4	0.9	0.7	
Q4	1.6	-0.4	1.4	3.4	-1.2	-3.1	2.1	4.6	
2019 Q1	1.5	-0.8	2.5	24.4	1.0	-1.2	2.9	14.0	
Q2	1.4	-1.0	3.9	1.1	0.7	0.2	0.1	1.2	
Q3	1.3	-1.2	3.6	-3.9	0.7	1.3	3.6	1.6	
Q4	1.3	-1.9	4.4	-19.2	-0.9	0.9	8.2	-2.1	
<b>Contributions to growth</b>									
	ZZ65	ZZ66	ZZ67	ZZ68	ZZ69	ZZ6A	ZZ6B	ZZ6C	ZZ6D
2017 Q1	2.28	-0.06	0.01	-0.38	0.29	0.29	1.59	1.19	0.40
Q2	1.63	-	0.03	0.15	0.38	0.31	1.82	1.66	0.15
Q3	1.34	0.01	0.07	-1.46	0.08	0.17	2.85	0.98	1.87
Q4	0.54	0.04	0.09	0.53	0.38	0.38	0.70	0.38	0.31
2018 Q1	0.88	0.03	0.02	-0.03	0.17	0.07	0.68	0.69	-0.01
Q2	1.08	-	-0.01	0.36	-0.12	-0.12	-0.11	0.16	-0.27
Q3	1.11	-	0.05	0.08	0.01	-0.23	0.27	0.21	0.06
Q4	1.01	-0.01	0.26	0.60	-0.21	-0.31	0.64	1.45	-0.81
2019 Q1	0.93	-0.02	0.45	4.16	0.18	-0.11	0.88	4.44	-3.56
Q2	0.90	-0.02	0.72	0.19	0.12	0.02	0.02	0.37	-0.35
Q3	0.85	-0.03	0.66	-0.65	0.12	0.12	1.12	0.50	0.62
Q4	0.80	-0.04	0.82	-3.37	-0.14	0.08	2.52	-0.69	3.21

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 the contribution from the statistical

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

3 Non-profit institutions serving households

# AC Annex C - Growth and contributions to growth - income components of GDP<sup>1,2</sup>

## Current Prices

Seasonally adjusted data

	Compen- sation of employees	Gross operating surplus of corporations <sup>3</sup>	Other income <sup>4</sup>	Taxes on products & production less subsidies
<b>Percentage change, latest year on previous year</b>				
<b>Growth</b>				
	KGI3	KH4V	KH6T	KH65
2018	4.4	0.9	4.3	2.7
2019	4.3	1.1	3.1	2.0
<b>Contributions to growth</b>				
	ZZ7H	ZZ7I	ZZ7J	ZZ7K
2018	2.15	0.20	0.76	0.32
2019	2.11	0.23	0.55	0.24
<b>Percentage change, latest quarter on previous quarter</b>				
<b>Growth</b>				
	KGI4	KH4W	KH6U	KH66
2017 Q1	0.8	3.8	0.2	-0.1
Q2	1.6	-3.2	0.3	2.2
Q3	1.1	-2.0	0.6	1.7
Q4	0.7	4.4	1.0	-0.3
2018 Q1	1.2	0.7	1.1	-2.3
Q2	0.8	-1.8	1.5	5.8
Q3	1.5	1.8	0.9	-1.0
Q4	1.5	-2.9	1.6	0.5
2019 Q1	0.4	3.1	1.7	-0.3
Q2	1.5	-2.0	-0.7	1.9
Q3	0.9	3.3	-0.7	-0.4
Q4	0.7	-1.1	0.8	-0.6
<b>Contributions to growth</b>				
	ZZ6Z	ZZ72	ZZ73	ZZ74
2017 Q1	0.36	0.81	0.03	-0.01
Q2	0.78	-0.70	0.05	0.26
Q3	0.49	-0.38	0.10	0.19
Q4	0.33	0.94	0.19	-0.04
2018 Q1	0.56	0.16	0.19	-0.28
Q2	0.40	-0.39	0.27	0.68
Q3	0.73	0.37	0.16	-0.13
Q4	0.74	-0.62	0.29	0.06
2019 Q1	0.19	0.61	0.30	-0.04
Q2	0.70	-0.38	-0.12	0.21
Q3	0.45	0.64	-0.12	-0.04
Q4	0.23	-0.17	0.10	-0.05
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>				
<b>Growth</b>				
	KGI5	KH4X	KH6V	KH67
2017 Q1	4.6	7.4	3.8	2.6
Q2	4.2	4.0	1.5	3.6
Q3	4.1	1.6	2.2	5.4
Q4	4.2	2.8	2.1	3.5
2018 Q1	4.6	-0.2	3.1	1.2
Q2	3.8	1.2	4.3	4.8
Q3	4.2	5.1	4.7	1.9
Q4	5.1	-2.2	5.3	2.7
2019 Q1	4.3	-	5.9	4.8
Q2	5.0	-0.1	3.5	1.0
Q3	4.4	1.3	1.9	1.6
Q4	3.5	3.2	1.1	0.6
<b>Contributions to growth</b>				
	ZZ79	ZZ7A	ZZ7B	ZZ7C
2017 Q1	2.22	1.59	0.67	0.31
Q2	2.03	0.85	0.27	0.44
Q3	2.00	0.34	0.39	0.65
Q4	2.06	0.62	0.38	0.44
2018 Q1	2.19	-0.04	0.53	0.15
Q2	1.86	0.27	0.77	0.59
Q3	2.09	1.08	0.83	0.24
Q4	2.50	-0.48	0.94	0.33
2019 Q1	2.09	0.01	1.04	0.57
Q2	2.43	-0.03	0.62	0.12
Q3	2.13	0.28	0.33	0.20
Q4	1.78	0.66	0.19	0.07

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 GDP<sup>1</sup>

Seasonally adjusted data

Reference year 2016

Final consumption expenditure							
	House-holds	Non-prof-it institutions <sup>2</sup>	General govern-ment	Gross capital formation	Gross fixed capital formation	Total exports	less Total imports
<b>Percentage change, latest year on previous year</b>							
	ZZ93	ZZ94	ZZ95	ZZ96	ZZ97	ZZ98	ZZ99
2018	2.7	1.5	2.0	0.1	1.8	3.1	2.8
2019	1.3	1.8	1.8	3.9	3.5	1.2	1.0
<b>Percentage change, latest quarter on previous quarter</b>							
	ZZ8N	ZZ8O	ZZ8P	ZZ8Q	ZZ8R	ZZ8S	ZZ8T
2017 Q1	1.0	-0.3	0.6	0.9	0.7	-0.1	2.1
Q2	0.2	0.6	-0.7	-0.9	0.1	0.4	-0.6
Q3	-0.1	0.7	0.6	0.9	1.0	-0.2	0.3
Q4	0.9	-	0.8	0.6	-0.2	1.5	1.0
2018 Q1	1.3	-	0.8	-1.7	0.3	-0.2	-0.1
Q2	0.4	1.3	0.4	0.2	1.3	2.2	1.9
Q3	0.6	0.1	0.5	2.1	0.1	0.3	1.3
Q4	0.3	-	-0.4	-0.5	0.4	1.2	0.6
2019 Q1	0.3	0.3	1.1	-0.5	1.3	-1.1	-2.2
Q2	0.1	1.5	0.7	3.0	1.0	1.1	1.7
Q3	0.5	-0.3	-	3.4	1.2	0.3	1.7
Q4	-0.1	0.5	0.7	0.1	0.8	-1.1	-1.5
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>							
	ZZ8U	ZZ8V	ZZ8W	ZZ8X	ZZ8Y	ZZ8Z	ZZ92
2017 Q1	1.5	1.2	1.9	9.7	2.9	8.5	9.6
Q2	1.3	0.9	0.5	6.0	2.1	6.2	6.6
Q3	0.9	1.4	0.7	8.1	2.3	2.1	3.1
Q4	2.0	1.0	1.2	1.6	1.7	1.6	2.7
2018 Q1	2.3	1.3	1.5	-1.0	1.2	1.5	0.5
Q2	2.5	2.0	2.6	-	2.4	3.4	3.1
Q3	3.2	1.3	2.6	1.3	1.4	3.8	4.1
Q4	2.6	1.4	1.4	0.2	2.1	3.6	3.7
2019 Q1	1.6	1.7	1.7	1.4	3.1	2.6	1.6
Q2	1.3	1.9	1.9	4.2	2.8	1.5	1.4
Q3	1.2	1.5	1.3	5.5	3.9	1.6	1.8
Q4	0.8	2.0	2.5	6.1	4.3	-0.8	-0.3

1 Estimates are 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

# AE

## Annex E - Output components of GDP- growths and revisions from previous estimate<sup>1,2</sup>, Chained Volume Measures

Seasonally adjusted data

Reference year 2016

	Agri- culture, forestry, and fishing	Total Production	Mining & quarrying inc oil & gas extract	Manu- facturing	Electric, gas, steam & air	Water supply, sewerage	Constr- uction	Total Services	Distri- bution, hotels & catering	Transport, storage and commu- nications	Business services and finance	Govern- ment & other services
<b>Percentage change, latest year on previous year</b>												
<b>Current estimates<sup>3</sup></b>												
2018	L3BB -3.0	L3BG 0.8	L3BH 5.3	L3BN 0.9	L3DM -1.6	L3DQ 0.5	L3DW -	L3E2 2.0	L3GP 3.0	KI8L 3.8	KI8N 1.8	KI8P 0.7
2019	-1.7	-1.3	-0.5	-1.5	-2.9	1.5	2.5	1.8	2.6	4.6	0.5	1.8
<b>Previous estimates<sup>2</sup></b>												
2017	A2EQ 5.7	A2ER 1.7	A2ET 1.7	A2ES 2.2	A2EU -1.8	A2EV 2.0	A2EW 6.4	A2EY 1.7	A2F2 2.4	A2F3 3.6	A2F4 1.0	A2F5 1.2
2018	-3.0	0.8	5.3	0.9	-1.6	0.5	-	2.0	3.0	3.8	1.8	0.7
<b>Revisions</b>												
2017	ZZ52 -	ZZ53 -	ZZ55 -	ZZ54 -	ZZ56 -	ZZ57 -	ZZ58 -	ZZ59 -	ZZ5A -	ZZ5B -	ZZ5C -	ZZ5D -
2018	-	-	-	-	-	-	-	-	-	-	-	-
<b>Percentage change, latest quarter on previous quarter</b>												
<b>Current estimates<sup>3</sup></b>												
2017 Q1	L3BB 4.7	L3BG 0.7	L3BH 3.0	L3BN 0.9	L3DM -4.1	L3DQ 3.0	L3DW 4.2	L3E2 0.2	L3GP 0.2	KI8L 0.2	KI8N -0.3	KI8P 0.9
Q2	0.1	-0.4	1.0	-0.1	0.9	-4.0	0.3	0.4	0.5	1.6	-0.2	0.5
Q3	0.6	0.9	1.3	0.9	0.3	1.0	0.1	0.3	0.4	0.6	0.5	-0.2
Q4	-1.0	1.1	-2.6	1.5	-0.2	0.6	0.7	0.4	0.2	1.0	0.5	-0.2
2018 Q1	-2.0	-0.1	1.5	-0.2	1.6	-1.8	-1.8	0.4	0.4	-0.1	0.7	0.2
Q2	-1.0	-0.4	4.8	-0.4	-5.1	2.2	0.8	0.8	1.9	1.4	0.3	0.4
Q3	-0.3	0.6	3.2	0.1	1.6	1.8	1.1	0.7	1.2	2.0	0.2	0.4
Q4	0.7	-0.9	-1.4	-0.8	-0.9	-0.9	-	0.5	0.5	1.2	0.3	0.4
2019 Q1	-1.2	1.0	-1.4	1.8	-2.3	-1.0	1.8	0.4	1.1	1.5	-0.3	0.5
Q2	-0.5	-2.0	-1.2	-3.0	1.4	1.3	-0.9	0.2	0.2	0.7	-	0.4
Q3	-0.4	-0.1	1.7	-0.2	-1.6	1.2	1.1	0.5	-	0.7	0.6	0.6
Q4	-0.2	-0.8	-2.8	-1.1	1.8	0.5	0.5	0.1	-0.4	-0.1	0.2	0.3
<b>Previous estimates<sup>2</sup></b>												
2017 Q3	A2CX 0.6	A2CY 0.9	A2DO 1.3	A2DL 0.9	A2DR 0.3	A2DS 1.0	A2DT 0.1	A2DU 0.3	A2DV 0.4	A2DW 0.6	A2DX 0.5	A2DY -0.2
Q4	-1.0	1.1	-2.6	1.5	-0.2	0.6	0.7	0.4	0.2	1.0	0.5	-0.2
2018 Q1	-2.0	-0.1	1.5	-0.2	1.6	-1.8	-1.8	0.4	0.4	-0.1	0.7	0.2
Q2	-1.0	-0.4	4.8	-0.4	-5.1	2.2	0.8	0.8	1.9	1.4	0.3	0.4
Q3	-0.3	0.6	3.2	0.1	1.6	1.8	1.1	0.7	1.2	2.0	0.2	0.4
Q4	0.7	-0.9	-1.4	-0.8	-0.9	-0.9	-	0.5	0.5	1.2	0.3	0.4
2019 Q1	-1.8	1.3	-1.1	2.4	-2.8	-1.4	1.7	0.4	1.2	1.3	-0.2	0.5
Q2	-0.3	-1.7	-1.2	-2.6	2.0	1.5	-1.0	0.2	0.1	0.5	-0.1	0.4
Q3	-0.1	0.1	-0.1	0.1	-1.8	1.6	1.2	0.5	0.2	0.6	0.5	0.5
<b>Revisions</b>												
2017 Q3	ZZ4A -	ZZ4B -	ZZ4D -	ZZ4C -	ZZ4E -	ZZ4F -	ZZ4G -	ZZ4H -	ZZ4I -	ZZ4J -	ZZ4K -	ZZ4L -
Q4	-	-	-	-	-	-	-	-	-	-	-	-
2018 Q1	-	-	-	-	-	-	-	-	-	-	-	-
Q2	-	-	-	-	-	-	-	-	-	-	-	-
Q3	-	-	-	-	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-	-	-	-	-
2019 Q1	0.6	-0.3	-0.3	-0.6	0.5	0.4	0.1	-	-0.1	0.2	-0.1	-
Q2	-0.2	-0.3	-	-0.4	-0.6	-0.2	0.1	-	0.1	0.2	0.1	-
Q3	-0.3	-0.2	1.8	-0.3	0.2	-0.4	-0.1	-	-0.2	0.1	0.1	0.1

1 Estimates are accurate to 1 decimal place, previous estimates and revisions are available from 1997. Output data are available from 1990 in table B1

2 Previous estimate refers to estimates from the Quarterly National Accounts

3 Current estimate refers to the estimates released within this publication (GDP first quarterly estimate)

4 For the most accurate figures on construction, please refer to the Construction output in Great Britain release

# AE

## Annex E - Output components of GDP- growths and revisions from previous estimate<sup>1,2</sup>, Chained Volume Measures

continued

Seasonally adjusted data

Reference year 2016

	Agri- culture, forestry, and fishing	Total Production	Mining & quarrying inc oil & gas extract	Manu- facturing	Electric, gas, steam & air	Water supply, sewerage	Constr- uction	Total Services	Distri- bution, hotels & catering	Transport, storage and commu- nications	Business services and finance	Govern- ment & other services
<b>Percentage growths, latest quarter on corresponding quarter of previous year</b>												
<b>Current estimates<sup>3</sup></b>												
	L3ZZ	L426	L427	L42D	L44C	L44G	L44M	L44Q	L47F	KII2	KIH9	KIH8
2017 Q1	4.9	2.5	1.7	2.4	0.3	6.2	8.0	1.8	2.9	3.1	1.7	0.8
Q2	6.6	0.2	2.8	0.6	-3.7	0.2	6.5	2.1	2.8	4.6	1.3	1.6
Q3	7.1	2.0	-0.4	2.6	-0.4	1.2	5.9	1.5	2.9	3.2	0.6	1.4
Q4	4.4	2.3	2.7	3.3	-3.1	0.5	5.4	1.2	1.3	3.5	0.6	1.0
2018 Q1	-2.2	1.5	1.2	2.1	2.7	-4.2	-0.7	1.4	1.4	3.2	1.6	0.3
Q2	-3.2	1.4	5.0	1.8	-3.5	2.0	-0.2	1.9	2.9	3.0	2.1	0.2
Q3	-4.1	1.1	6.9	1.0	-2.3	2.9	0.8	2.2	3.7	4.5	1.8	0.8
Q4	-2.5	-0.9	8.2	-1.4	-3.1	1.3	-	2.4	4.0	4.7	1.6	1.4
2019 Q1	-1.8	0.2	5.2	0.7	-6.8	2.1	3.7	2.4	4.7	6.3	0.6	1.7
Q2	-1.3	-1.4	-0.8	-1.9	-0.4	1.2	1.9	1.8	3.0	5.5	0.3	1.6
Q3	-1.5	-2.1	-2.2	-2.2	-3.5	0.6	2.0	1.7	1.8	4.1	0.7	1.9
Q4	-2.4	-2.0	-3.7	-2.5	-0.8	2.0	2.5	1.3	0.9	2.7	0.6	1.8
<b>Previous estimates<sup>2</sup></b>												
	A2DZ	A2E2	A2E4	A2E3	A2E5	A2EE	A2EK	A2EL	A2EM	A2EN	A2EO	A2EP
2017 Q3	7.1	2.0	-0.4	2.6	-0.4	1.2	5.9	1.5	2.9	3.2	0.6	1.4
Q4	4.4	2.3	2.7	3.3	-3.1	0.5	5.4	1.2	1.3	3.5	0.6	1.0
2018 Q1	-2.2	1.5	1.2	2.1	2.7	-4.2	-0.7	1.4	1.4	3.2	1.6	0.3
Q2	-3.2	1.4	5.0	1.8	-3.5	2.0	-0.2	1.9	2.9	3.0	2.1	0.2
Q3	-4.1	1.1	6.9	1.0	-2.3	2.9	0.8	2.2	3.7	4.5	1.8	0.8
Q4	-2.5	-0.9	8.2	-1.4	-3.1	1.3	-	2.4	4.0	4.7	1.6	1.4
2019 Q1	-2.3	0.6	5.4	1.2	-7.2	1.7	3.6	2.4	4.8	6.2	0.6	1.7
Q2	-1.6	-0.8	-0.6	-1.1	-0.2	1.0	1.8	1.8	3.0	5.3	0.2	1.7
Q3	-1.4	-1.3	-3.7	-1.0	-3.5	0.8	1.9	1.6	2.0	3.8	0.5	1.8
<b>Revisions</b>												
	ZZ4N	ZZ4O	ZZ4Q	ZZ4P	ZZ4R	ZZ4S	ZZ4T	ZZ4U	ZZ4V	ZZ4W	ZZ4X	ZZ4Y
2017 Q3	-	-	-	-	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-	-	-	-	-
2018 Q1	-	-	-	-	-	-	-	-	-	-	-	-
Q2	-	-	-	-	-	-	-	-	-	-	-	-
Q3	-	-	-	-	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-	-	-	-	-
2019 Q1	0.5	-0.4	-0.2	-0.5	0.4	0.4	0.1	-	-0.1	0.1	-	-
Q2	0.3	-0.6	-0.2	-0.8	-0.2	0.2	0.1	-	-	0.2	0.1	-0.1
Q3	-0.1	-0.8	1.5	-1.2	-	-0.2	0.1	0.1	-0.2	0.3	0.2	0.1

1 Estimates are accurate to 1 decimal place, previous estimates and revisions are available from 1997. Output data are available from 1990 in table B1

2 Previous estimate refers to estimates from the Quarterly National Accounts

3 Current estimate refers to the estimates released within this publication (GDP first quarterly estimate)

4 For the most accurate figures on construction, please refer to the Construction output in Great Britain release

# AF Annex F - Expenditure components of GDP- growths and revisions from previous estimate<sup>1,2</sup>, Chained Volume Measures

Seasonally adjusted data

Reference year 2016

Final consumption expenditure								
	House-holds	Non-prof- it instit- utions <sup>3</sup>	General govern- ment	Gross Capital Formation	Gross Fixed Capital Formation	Business investme nt	Total exports	less Total imports
<b>Percentage change, latest year on previous year</b>								
<b>Current estimates<sup>4</sup></b>								
	KGZ5	KH26	KH2I	ZZ6H	KG7N	KG7M	KH2U	KH3N
2018	1.6	0.2	0.4	1.4	-0.2	-1.5	1.2	2.0
2019	1.4	-1.2	3.6	0.4	0.4	0.3	3.7	3.6
<b>Previous estimates<sup>2</sup></b>								
	A275	A276	A289	A28J	A28L	A29D	A29F	A2CK
2017	2.3	-0.2	0.3	-1.7	1.6	2.9	6.1	3.5
2018	1.6	0.2	0.4	1.4	-0.2	-1.5	1.2	2.0
<b>Revisions</b>								
	ZZ83	ZZ84	ZZ85	ZZ86	ZZ87	ZZ88	ZZ89	ZZ8A
2017	-	-	-	-	-	-	-	-
2018	-	-	-	-	-	-	-	-
<b>Percentage change, latest quarter on previous quarter</b>								
<b>Current estimates<sup>4</sup></b>								
	KGZ6	KH27	KH2J	ZZ5H	KG7Q	KG7P	KH2V	KH3O
2017 Q1	0.5	0.7	-0.1	2.1	-	2.3	0.4	-0.7
Q2	0.3	0.5	-	0.3	1.4	1.2	2.4	2.3
Q3	0.4	-0.3	0.3	-0.5	-0.4	0.2	1.0	0.6
Q4	0.3	0.7	0.2	1.3	1.1	0.2	-1.5	-1.0
2018 Q1	0.4	0.3	-0.4	-1.2	-1.2	-0.8	0.3	0.3
Q2	0.6	-0.9	-0.1	2.5	-0.2	-0.8	-0.2	0.6
Q3	0.4	0.1	0.6	-2.0	0.3	-0.9	2.3	0.8
Q4	0.2	0.1	1.3	4.3	-0.1	-0.6	-0.3	2.9
2019 Q1	0.3	-0.1	0.6	18.9	1.1	1.1	1.1	9.2
Q2	0.5	-1.0	1.3	-16.8	-0.5	0.5	-3.0	-10.7
Q3	0.4	-0.1	0.3	-6.8	0.3	0.2	5.9	1.2
Q4	0.1	-0.7	2.1	-12.4	-1.6	-1.0	4.1	-0.8
<b>Previous estimates<sup>2</sup></b>								
	A24M	A24X	A24Y	A25I	A25J	A25M	A264	A268
2017 Q3	0.4	-0.3	0.3	-0.5	-0.4	0.2	1.0	0.6
Q4	0.3	0.7	0.2	1.3	1.1	0.2	-1.5	-1.0
2018 Q1	0.4	0.3	-0.4	-1.2	-1.2	-0.8	0.3	0.3
Q2	0.6	-0.9	-0.1	2.5	-0.2	-0.8	-0.2	0.6
Q3	0.4	0.1	0.6	-2.0	0.3	-0.9	2.3	0.8
Q4	0.2	0.1	1.3	4.3	-0.1	-0.6	-0.3	2.9
2019 Q1	0.2	-0.2	1.0	18.2	1.1	1.0	0.3	9.2
Q2	0.5	-0.9	1.2	-15.4	-0.6	0.1	-4.1	-10.8
Q3	0.3	0.9	-0.6	-11.4	0.2	-	7.9	-0.3
<b>Revisions</b>								
	ZZ7L	ZZ7M	ZZ7N	ZZ7O	ZZ7P	ZZ7Q	ZZ7R	ZZ7S
2017 Q3	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-
2018 Q1	-	-	-	-	-	-	-	-
Q2	-	-	-	-	-	-	-	-
Q3	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-
2019 Q1	0.1	0.1	-0.4	0.7	-	0.1	0.8	-
Q2	-	-0.1	0.1	-1.4	0.1	0.4	1.1	0.1
Q3	0.1	-1.0	0.9	4.6	0.1	0.2	-2.0	1.5

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

2 Previous estimates refers to estimates from the Quarterly National Accounts

3 Non-profit institutions serving households

4 Current estimates refers to the estimates within this publication (GDP first quarterly estimate)

# AF Annex F - Expenditure components of GDP- growths and revisions from previous estimate<sup>1,2</sup>, Chained Volume Measures

continued

Seasonally adjusted data

Reference year 2016

	Final consumption expenditure							
	Households	Non-profit institutions <sup>3</sup>	General government	Gross capital formation	Gross fixed capital formation	Business investment	Total exports	less Total imports
<b>Percentage change, latest quarter on corresponding quarter of the previous year</b>								
<b>Current estimates<sup>4</sup></b>								
	KGZ7	KH28	KH2K	ZZ5Y	KG7T	KG7S	KH2W	KH3P
2017 Q1	3.7	-2.5	0.1	-2.2	1.7	3.0	5.6	4.0
Q2	2.5	-0.2	0.2	0.9	2.2	3.1	6.4	5.6
Q3	1.6	0.5	0.4	-7.9	0.5	1.7	10.3	3.2
Q4	1.5	1.6	0.4	3.2	2.2	3.9	2.4	1.3
2018 Q1	1.4	1.2	0.1	-0.1	1.0	0.7	2.3	2.2
Q2	1.7	-0.2	—	2.0	-0.7	-1.2	-0.4	0.5
Q3	1.8	0.2	0.3	0.5	—	-2.4	0.9	0.7
Q4	1.6	-0.4	1.4	3.4	-1.2	-3.1	2.1	4.6
2019 Q1	1.5	-0.8	2.5	24.4	1.0	-1.2	2.9	14.0
Q2	1.4	-1.0	3.9	1.1	0.7	0.2	0.1	1.2
Q3	1.3	-1.2	3.6	-3.9	0.7	1.3	3.6	1.6
Q4	1.3	-1.9	4.4	-19.2	-0.9	0.9	8.2	-2.1
<b>Previous estimates<sup>2</sup></b>								
	A26C	A26H	A26I	A26J	A26K	A26L	A26M	A26N
2017 Q3	1.6	0.5	0.4	-7.9	0.5	1.7	10.3	3.2
Q4	1.5	1.6	0.4	3.2	2.2	3.9	2.4	1.3
2018 Q1	1.4	1.2	0.1	-0.1	1.0	0.7	2.3	2.2
Q2	1.7	-0.2	—	2.0	-0.7	-1.2	-0.4	0.5
Q3	1.8	0.2	0.3	0.5	—	-2.4	0.9	0.7
Q4	1.6	-0.4	1.4	3.4	-1.2	-3.1	2.1	4.6
2019 Q1	1.4	-0.9	2.8	23.7	1.1	-1.3	2.1	14.0
Q2	1.3	-1.0	4.1	2.1	0.7	-0.4	-1.9	1.1
Q3	1.1	-0.2	2.8	-7.7	0.6	0.5	3.5	—
<b>Revisions</b>								
	ZZ7T	ZZ7U	ZZ7V	ZZ7W	ZZ7X	ZZ7Y	ZZ7Z	ZZ82
2017 Q3	—	—	—	—	—	—	—	—
Q4	—	—	—	—	—	—	—	—
2018 Q1	—	—	—	—	—	—	—	—
Q2	—	—	—	—	—	—	—	—
Q3	—	—	—	—	—	—	—	—
Q4	—	—	—	—	—	—	—	—
2019 Q1	0.1	0.1	-0.3	0.7	-0.1	0.1	0.8	—
Q2	0.1	—	-0.2	-1.0	—	0.6	2.0	0.1
Q3	0.2	-1.0	0.8	3.8	0.1	0.8	0.1	1.6

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

2 Previous estimates refers to the estimates from Quarterly National Accounts

3 Non-profit institutions serving households

4 Current estimates refers to the estimates within this publication (GDP first quarterly estimate)

# AG Annex G - Income components of GDP- growths and revisions from previous estimate<sup>1,2</sup>, Current Price

Seasonally adjusted data

	Compen- sation of employees	Gross operating surplus of corporations	Other income	Taxes on products & production less subsidies
<b>Percentage change, latest year on previous year</b>				
<b>Current estimates<sup>3</sup></b>				
	KGI3	KH4V	KH6T	KH65
2018	4.4	0.9	4.3	2.7
2019	4.3	1.1	3.1	2.0
<b>Previous estimates<sup>2</sup></b>				
	A2CT	A2CU	A2CV	A2CW
2017	4.3	4.0	2.4	3.8
2018	4.4	0.9	4.3	2.7
<b>Revisions</b>				
	ZZ8J	ZZ8K	ZZ8L	ZZ8M
2017	—	—	—	—
2018	—	—	—	—
<b>Percentage change, latest quarter on previous quarter</b>				
<b>Current estimates<sup>3</sup></b>				
	KGI4	KH4W	KH6U	KH66
2017 Q1	0.8	3.8	0.2	-0.1
Q2	1.6	-3.2	0.3	2.2
Q3	1.1	-2.0	0.6	1.7
Q4	0.7	4.4	1.0	-0.3
2018 Q1	1.2	0.7	1.1	-2.3
Q2	0.8	-1.8	1.5	5.8
Q3	1.5	1.8	0.9	-1.0
Q4	1.5	-2.9	1.6	0.5
2019 Q1	0.4	3.1	1.7	-0.3
Q2	1.5	-2.0	-0.7	1.9
Q3	0.9	3.3	-0.7	-0.4
Q4	0.7	-1.1	0.8	-0.6
<b>Previous estimates<sup>2</sup></b>				
	A2CL	A2CM	A2CN	A2CO
2017 Q3	1.1	-2.0	0.6	1.7
Q4	0.7	4.4	1.0	-0.3
2018 Q1	1.2	0.7	1.1	-2.3
Q2	0.8	-1.8	1.5	5.8
Q3	1.5	1.8	0.9	-1.0
Q4	1.5	-2.9	1.6	0.5
2019 Q1	0.4	2.6	1.6	0.1
Q2	1.6	—	-0.8	2.0
Q3	1.0	1.7	-0.1	-1.2
<b>Revisions</b>				
	ZZ8B	ZZ8C	ZZ8D	ZZ8E
2017 Q3	—	—	—	—
Q4	—	—	—	—
2018 Q1	—	—	—	—
Q2	—	—	—	—
Q3	—	—	—	—
Q4	—	—	—	—
2019 Q1	—	0.5	0.1	-0.4
Q2	-0.1	-2.0	0.1	-0.1
Q3	-0.1	1.6	-0.6	0.8

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

2 Previous estimates refers to estimates from the Quarterly National Accounts

3 Current estimates refers to estimates within this publication (GDP first quarterly estimate)

# AG Annex G - Income components of GDP- growths and revisions from previous estimate<sup>1,2</sup>, Current Price

continued Seasonally adjusted data

	Compen- sation of employees	Gross operating surplus of corporations	Other income	Taxes on products & production less subsidies
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>				
<b>Current estimates<sup>3</sup></b>				
2017 Q1	KGI5 4.6	KH4X 7.4	KH6V 3.8	KH67 2.6
Q2	4.2	4.0	1.5	3.6
Q3	4.1	1.6	2.2	5.4
Q4	4.2	2.8	2.1	3.5
2018 Q1	4.6	-0.2	3.1	1.2
Q2	3.8	1.2	4.3	4.8
Q3	4.2	5.1	4.7	1.9
Q4	5.1	-2.2	5.3	2.7
2019 Q1	4.3	-	5.9	4.8
Q2	5.0	-0.1	3.5	1.0
Q3	4.4	1.3	1.9	1.6
Q4	3.5	3.2	1.1	0.6
<b>Previous estimates<sup>2</sup></b>				
2017 Q3	A2CP 4.1	A2CQ 1.6	A2CR 2.2	A2CS 5.4
Q4	4.2	2.8	2.1	3.5
2018 Q1	4.6	-0.2	3.1	1.2
Q2	3.8	1.2	4.3	4.8
Q3	4.2	5.1	4.7	1.9
Q4	5.1	-2.2	5.3	2.7
2019 Q1	4.3	-0.4	5.8	5.2
Q2	5.1	1.4	3.4	1.5
Q3	4.5	1.3	2.3	1.3
<b>Revisions</b>				
2017 Q3	ZZ8F -	ZZ8G -	ZZ8H -	ZZ8I -
Q4	-	-	-	-
2018 Q1	-	-	-	-
Q2	-	-	-	-
Q3	-	-	-	-
Q4	-	-	-	-
2019 Q1	-	0.4	0.1	-0.4
Q2	-0.1	-1.5	0.1	-0.5
Q3	-0.1	-	-0.4	0.3

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

2 Previous estimates refers to estimates from the Quarterly National Accounts

3 Current estimate refers to estimates within this publication (GDP first quarterly estimate)