

Statistical bulletin

# GDP quarterly national accounts, UK: October to December 2018

Revised quarterly estimate of gross domestic product (GDP) for the UK. Uses additional data to provide a more precise indication of economic growth than the first estimate.



Contact:  
Charlotte Richards  
[gdp@ons.gov.uk](mailto:gdp@ons.gov.uk)  
+44 (0)1633 455284

Release date:  
29 March 2019

Next release:  
10 May 2019

## Notice

### 29 March 2019

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

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

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

# Table of contents

1. [Main points](#)
2. [Things you need to know about this release](#)
3. [The UK economy slows to 0.2% in Quarter 4 2018, unrevised from the first quarterly estimate](#)
4. [Quarter 4 2018 sees steady growth in services output and declines in production and construction output](#)
5. [Business investment falls for the fourth consecutive quarter](#)
6. [Nominal GDP rises by a slightly revised 0.7% in Quarter 4 2018](#)
7. [Links to related statistics](#)
8. [Are there any upcoming changes?](#)
9. [Quality and methodology](#)

## 1 . Main points

- UK gross domestic product (GDP) in volume terms was estimated to have increased by 0.2% in Quarter 4 (Oct to Dec) 2018, unrevised from the previous estimate.
- There has been an upward revision of 0.1 percentage points to GDP growth in Quarter 3 (July to Sept) 2018 to 0.7%, due to revisions to estimates of government services; the first two quarters of 2018 remain unrevised in the latest quarter.
- Growth in the latest quarter was driven by the services sector, while all four sub-sectors of production and construction contributed negatively to GDP growth.
- Private consumption and government consumption contributed positively, while gross capital formation and net trade contributed negatively to GDP growth in the latest quarter.
- There have been some upward revisions to business investment in Quarter 3 and Quarter 4 2018 because of later survey returns, but business investment still fell in every quarter of 2018.
- Nominal GDP increased by 0.7% in Quarter 4 2018 with compensation of employees providing the largest contribution to growth.

## 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.

The quarterly national accounts are typically published around 90 days after the end of the quarter. At this stage, the data content of this estimate from the output approach to GDP has risen since the first quarterly estimate to around 90% of the total required for the final output-based estimate. There is also around 90% data content available to produce estimates of GDP from the expenditure approach and around 70% data content from the income approach.

Further information on all three approaches to measuring GDP can be found in the [short guide to national accounts \(PDF, 317KB\)](#).

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

## 3 . The UK economy slows to 0.2% in Quarter 4 2018, unrevised from the first quarterly estimate

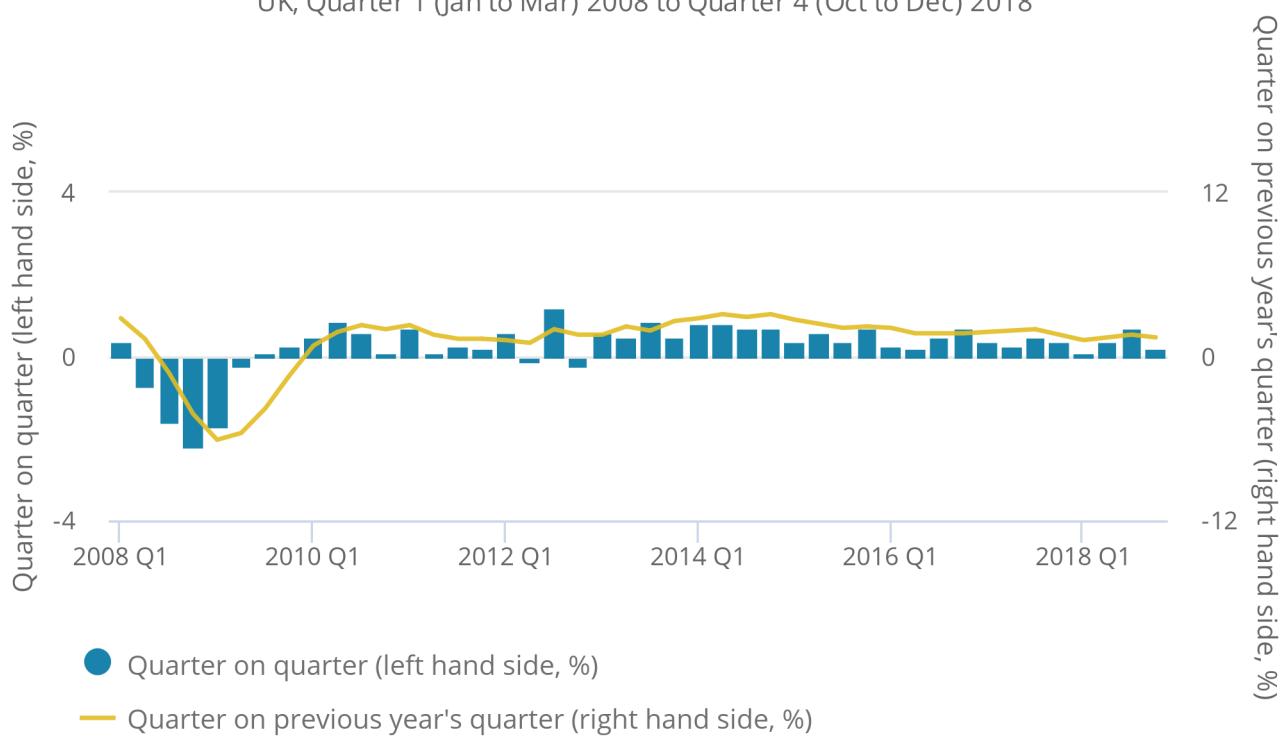
UK gross domestic product (GDP) is estimated to have slowed to 0.2% in Quarter 4 (Oct to Dec) 2018, unrevised from the first estimate of GDP, following comparatively strong growth in Quarter 3 (July to Sept) 2018. Growth in Quarter 3 2018 has been revised up slightly to 0.7%, where some of this activity is likely to have reflected one-off effects of the warm weather and the World Cup. In comparison with the same quarter a year ago, UK GDP increased by a revised 1.4%, continuing the relatively subdued performance of late (Figure 1).

**Figure 1: Real GDP increased by an unrevised 0.2% in Quarter 4 (October to December) 2018**

UK, Quarter 1 (Jan to Mar) 2008 to Quarter 4 (Oct to Dec) 2018

## Figure 1: Real GDP increased by an unrevised 0.2% in Quarter 4 (October to December) 2018

UK, Quarter 1 (Jan to Mar) 2008 to Quarter 4 (Oct to Dec) 2018



Source: Office for National Statistics – UK National Accounts

**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).

In line with the [National Accounts Revisions Policy](#), the dataset is open to revisions back to Quarter 1 (Jan to Mar) 2018. The latest estimates include revisions due to new survey returns, the incorporation of Value Added Tax (VAT) administrative data up to Quarter 3 2018 as well as updated seasonal factors reflecting the latest data. The only revision to quarterly real GDP growth is in Quarter 3 2018, which has been revised up slightly to 0.7%.

The latest estimates show that UK GDP increased by an unrevised 1.4% in 2018, compared with 1.8% in 2017. UK GDP last increased by 1.4% in 2012 and has not been weaker since 2009.

There are also signs that global momentum has weakened recently. Figure 2 shows how the UK economy has performed compared with other G7 countries in the last few years. In 2017, the UK was the only advanced economy not to experience a pick-up in the rate of growth, as the global economy recorded its strongest uptick in activity since 2011. As such, the UK was only the sixth-fastest growing G7 economy that year, slipping down these international rankings. This loss in momentum became more global in 2018 with the majority of G7 countries – except the United States – experiencing a slowdown in the rate of growth.

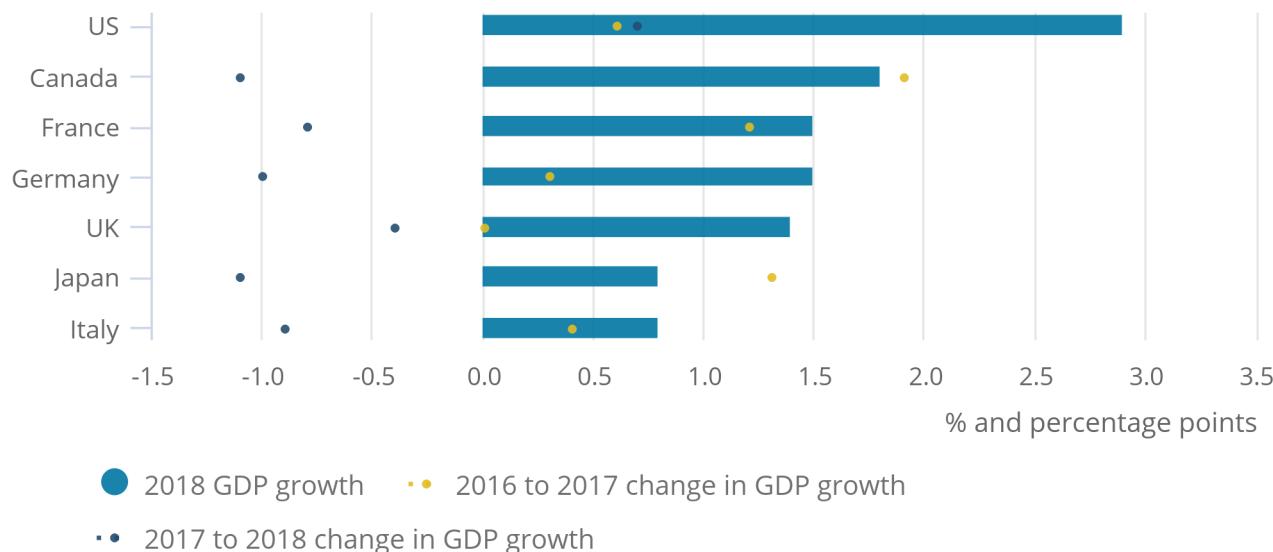
That said, the latest estimates show that the UK was only the fifth-fastest growing advanced economy in 2018, ahead of Japan and Italy – the latter entering a technical recession in the second half of the year. The latest [Interim Economic Outlook \(PDF, 532KB\)](#) produced by the Organisation for Economic Co-operation and Development (OECD) attributes the global slowdown to “high policy uncertainty, ongoing trade tensions and a further erosion of business and consumer confidence”. This chimes with the latest [World Economic Outlook](#) produced by the International Monetary Fund (IMF), which highlights trade tensions and financial market sentiment as risks to the outlook.

**Figure 2: The UK economy was the fifth-fastest growing G7 economy in 2018 with signs of a loss of momentum in the wider global economy**

G7 countries, real GDP growth, 2016 to 2018

Figure 2: The UK economy was the fifth-fastest growing G7 economy in 2018 with signs of a loss of momentum in the wider global economy

G7 countries, real GDP growth, 2016 to 2018



Source: Office for National Statistics and Organisation for Economic Co-operation and Development (OECD)

**Notes:**

1. Change in growth calculated from rounded estimates.
2. Data are calculated from quarterly estimates taken from OECD and are correct at point of compilation.

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.

In the year to Quarter 4 2018, the implied GDP deflator increased by a revised 1.8%, up from the previous estimate of 1.6%. Revisions to exports prices in particular have meant that there have been upward revisions in the implied GDP deflator in all quarters of 2018. The upward revisions to trade prices have occurred due to a variety of factors, and data are consistent with the [latest UK Trade release](#). Overall in 2018, the implied GDP deflator eased to 1.9%, revised up from the previous estimate of 1.7%. Nominal GDP growth slowed from 4.1% in 2017 to a slightly revised 3.3% in 2018, reflecting a slowing in real GDP growth and lower price inflation.

## 4 . Quarter 4 2018 sees steady growth in services output and declines in production and construction output

The output measure of gross domestic product (GDP) increased by an unrevised 0.2% in Quarter 4 (Oct to Dec) 2018, as the latest estimates reaffirm that there was a slowing in activity in the final quarter of 2018, compared with the previous quarter.

Services output increased by 0.5% in Quarter 4 2018, revised up from 0.4%. However, annual growth for 2018 remains unchanged at 1.7% – the weakest it has been since 2011.

Production output declined by 0.8% in the final three months of the year, with a fall in output recorded across all four main areas of production.

There have been some small revisions to the quarterly path of construction output through 2018. The overall impact shows a weaker picture in 2018, with construction output now estimated to have slowed to 0.3%.

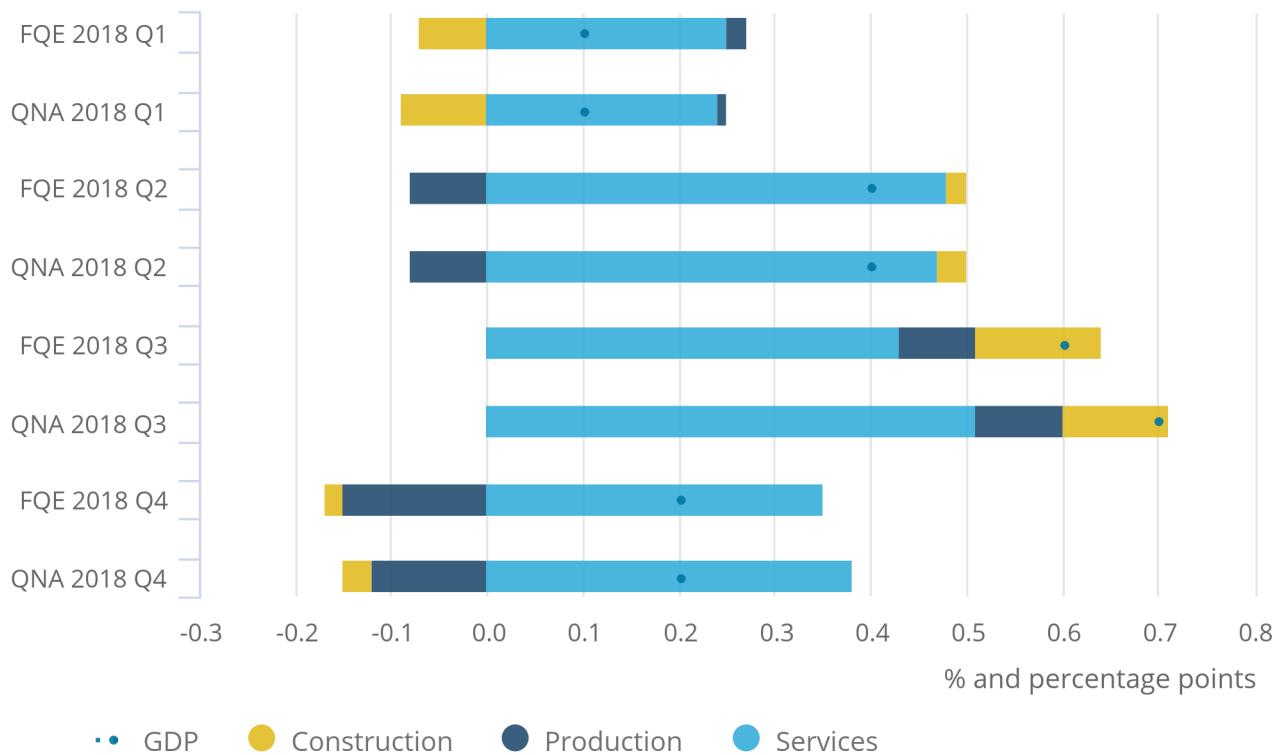
That said, Figure 3 shows that the narrative for 2018 remains largely unchanged – the most notable development is the upward revision to GDP growth in the third quarter, principally reflecting revisions to government and other services.

**Figure 3: There have been minor revisions to the quarterly contributions of output components throughout 2018**

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

**Figure 3: There have been minor revisions to the quarterly contributions of output components throughout 2018**

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



Source: Office for National Statistics – UK National Accounts

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. FQE refers to the GDP First Quarterly Estimate and QNA refers to the GDP Quarterly National Accounts.
3. Components contributions may not sum to total due to rounding.

Growth in services output has been relatively stable over 2018. It has been revised up slightly in the second half of 2018, with the latest estimate showing an increase of 0.5% in Quarter 4, slowing from the previous quarter (Figure 4). This easing was evident in the December 2018 [UK Services Purchasing Managers Index \(PDF, 158KB\)](#), which noted that survey respondents commented that “Brexit-related concerns were a key factor weighing on business-to-business spending at the end of 2018”, as business activity rose at one of its slowest rates over the previous two and a half years.

Business and finance services increased by 0.4% in the fourth quarter, driven primarily by growth in professional services. This is weaker than our previous estimate of 0.6% in Quarter 4 2018. The latest [Bank of England Agents' Summary of Business Conditions \(PDF, 1.4MB\)](#) reports that demand for business and financial services continued to grow at a "modest pace".

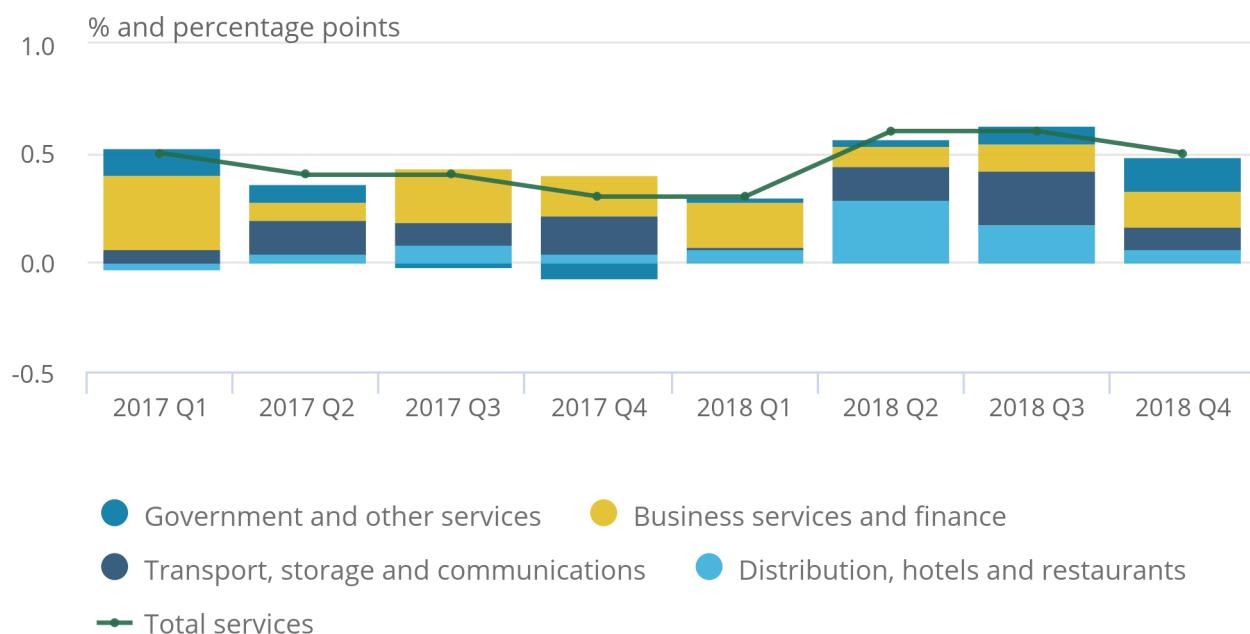
There have also been upward revisions to government and other services, specifically relating to estimates of health output. These volume estimates are based on a measure of output activity in the NHS, such as inpatient and outpatient attendances, where we have received updated estimates of such activity. There have also been revisions to transport, storage and communications throughout 2018, which reflect updated survey and administrative information.

**Figure 4: Easing in service sector growth in Quarter 4 (October to December) 2018**

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 4 (Oct to Dec) 2018

**Figure 4: Easing in service sector growth in Quarter 4 (October to December) 2018**

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 4 (Oct to Dec) 2018



**Source:** Office for National Statistics – UK National Accounts

**Notes:**

1. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept), and Q4 refers to Quarter 4 (Oct to Dec).
2. Components contributions may not sum to total due to rounding.

In the production industries, output is now estimated to have fallen by 0.8% in Quarter 4 2018. This has been revised up from the 1.1% fall in the previous estimate, although it still shows that there have been declines across all four main areas of production (Figure 5). This is the first time all four main components have fallen since Quarter 1 2009.

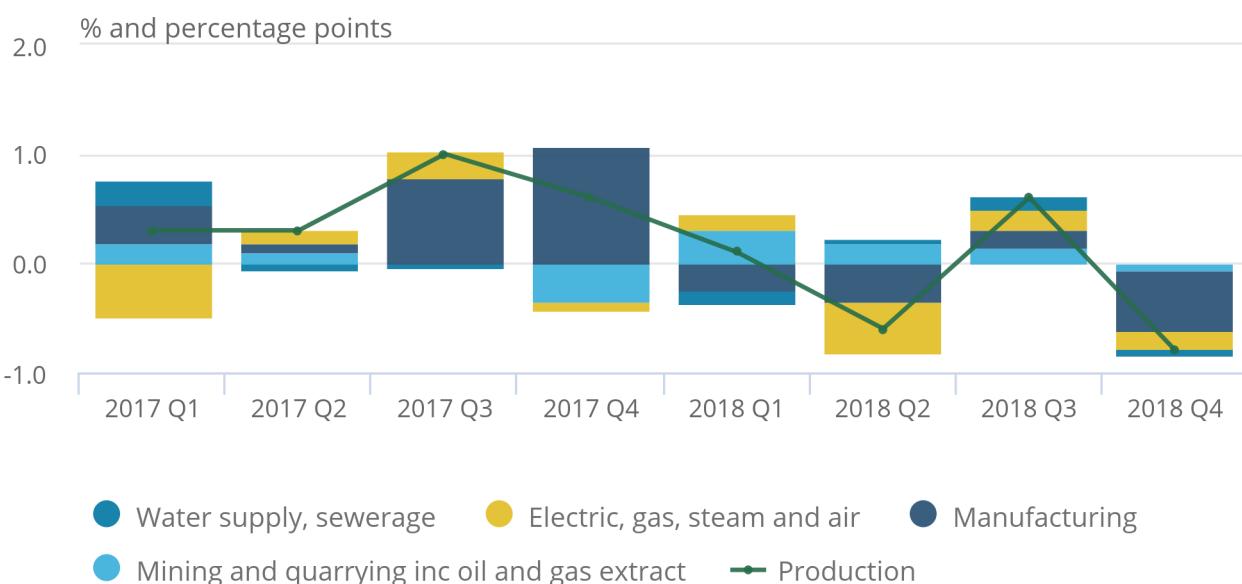
There has been a weak picture in manufacturing throughout 2018 with falls in three of its four quarters. In particular, manufacturing output of transport equipment fell during 2018. This is also echoed in the recent [Society of Motor Manufacturers and Traders](#) survey, which reports that UK car production fell 18.2% in the year to January 2019, reflecting a decline in domestic and foreign demand. Manufacturing output fell by a revised 0.7% in Quarter 4 2018, with 9 out of the 13 manufacturing sectors experiencing a contraction in activity.

**Figure 5: Production output falls in Quarter 4 (October to December) 2018 with output falling across all main production areas**

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 4 (Oct to Dec) 2018

### Figure 5: Production output falls in Quarter 4 (October to December) 2018 with output falling across all main production areas

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 4 (Oct to Dec) 2018



Source: Office for National Statistics – UK National Accounts

**Notes:**

1. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept), and Q4 refers to Quarter 4 (Oct to Dec).
2. Components contributions may not sum to total due to rounding.

There have also been revisions to mining and quarrying output as well as smaller revisions to electric, gas, steam and air production output throughout 2018. The upward revisions to oil production throughout the year reflects under-reporting of new oil fields from the Department for Business, Energy and Industrial Strategy (BEIS) in previous estimates. Water supply and sewerage output fell by 0.9% in Quarter 4 2018, a downward revision of 0.5 percentage points. Upward revisions have been made to water supply and sewerage in all other quarters in 2018, reflecting the incorporation of VAT turnover data and new monthly business survey data.

Some revisions have been made to the quarterly path of construction output in 2018, which paint a slightly weaker picture for the year. Construction output fell 1.5% in the first quarter of the year, weaker than the initial estimated fall of 1.2%, when activity was likely to have been affected by adverse weather. Following two consecutive quarters of growth, output of the construction industry fell by 0.5% in Quarter 4 2018. The latest [Bank of England Agents' Summary of Business Conditions \(PDF, 1.4MB\)](#) highlights that activity in the construction industry remains modest, while the [UK Construction Purchasing Managers' Index](#) slowed in December 2018, with signs of heightened uncertainty weighing on new orders.

## 5 . Business investment falls for the fourth consecutive quarter

The expenditure measure of gross domestic product (GDP) increased by 0.2% in Quarter 4 (Oct to Dec) 2018. Private and government consumption contributed positively to GDP growth, partially offset by the negative contributions of gross capital formation and net trade.

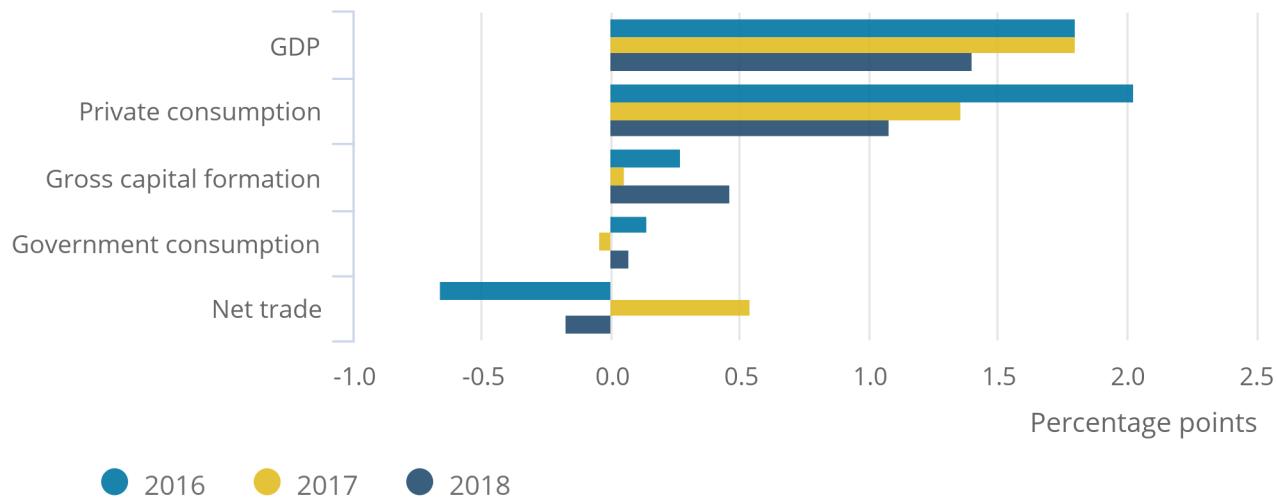
Figure 6 shows how the economy has evolved in recent years, with 2018 largely unrevised from previous estimates. There has been a notable slowdown in the contribution of private consumption in the last couple of years. This in part reflects the effect of a squeeze in purchasing power from higher import inflation following the fall in the exchange rate after the EU referendum. It also shows the positive contribution of gross capital formation in 2018, although gross fixed capital formation was broadly flat in 2018, which reflects a marked slowing from previous years. Having provided a boost to GDP growth in 2017, net trade fell in 2018 – a possible reflection of the waning effects of sterling's depreciation and a slowing momentum in the global economy.

**Figure 6: The contribution of private consumption to annual GDP growth has eased in recent years**

UK, 2016 to 2018

## Figure 6: The contribution of private consumption to annual GDP growth has eased in recent years

UK, 2016 to 2018



Source: Office for National Statistics – UK National Accounts

Household consumption increased by 1.8% in 2018, slowing markedly over the last couple of years. This easing in consumer spending primarily reflects a slowing in how much households have spent on recreation and culture, and transport (Figure 7), though it should be noted that spending on recreation and culture in 2016 was at its highest point since 2009.

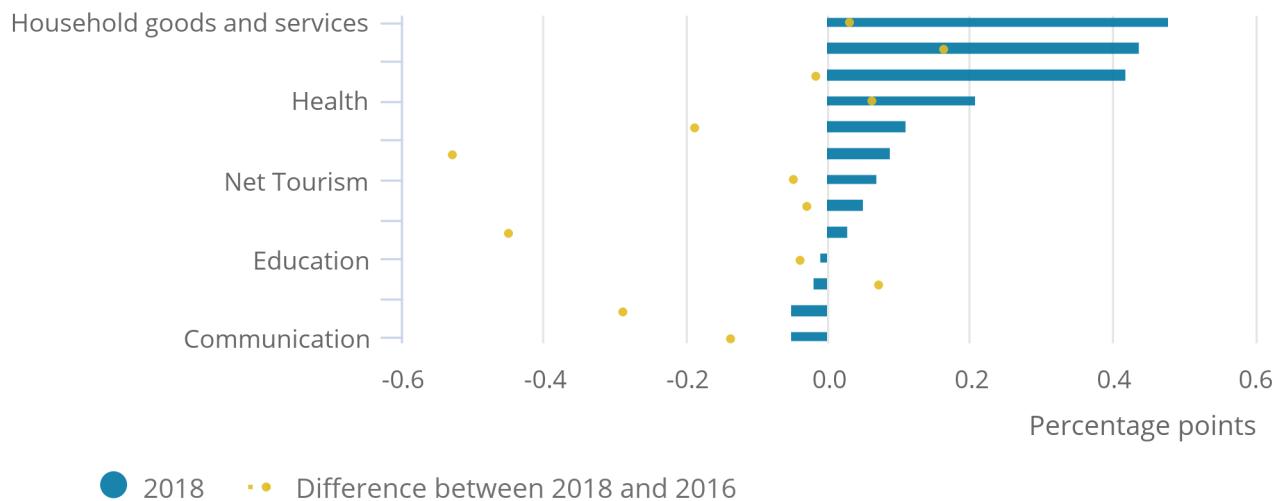
In Quarter 4 2018, household consumption slowed slightly to 0.3%. Spending on housing and household goods and services were the main drivers in the latest quarter. The latest [GfK Consumer Confidence](#) figures highlight that confidence continues to be somewhat subdued, as views on the general economy over the past 12 months and the economic outlook for the year ahead continue to weigh heavily on consumer confidence.

## Figure 7: Private consumption growth slowed in 2018

UK, contributions to growth, 2016 to 2018

Figure 7: Private consumption growth slowed in 2018

UK, contributions to growth, 2016 to 2018



Source: Office for National Statistics – UK National Accounts

Government consumption increased by 1.3% in the final three months of 2018, with a significant contribution from increased defence spending. Expenditure in these areas has been lower across this financial year compared with previous years. However, the latest estimates show that there has been a pick-up in such spend.

Business investment has now fallen for four consecutive quarters – the first such instance since 2009 –driven mainly by declines in transport equipment as well as IT equipment and other machinery. The latest estimates show that there have been some upward revisions in the second half of 2018, with business investment now estimated to have fallen by 0.9% in Quarter 4.

These revisions to the quarterly path have resulted in an upward revision to the annual figure with business investment falling 0.4% in 2018. The [Bank of England Inflation Report \(PDF, 4.2MB\)](#) states that this weakness appears to “primarily reflect Brexit and associated uncertainty”, also echoed in the Quarter 4 [Decision Makers’ Panel](#), which highlights EU exit as one of the top sources of uncertainty. The latest [Deloitte CFO Survey \(PDF, 899KB\)](#) reports that perceptions of economic and financial uncertainty continued to rise in the final quarter of 2018 while the outlook for capital expenditure has deteriorated. [Recent analysis \(PDF, 609KB\)](#) finds that “almost 70% of the slowdown” in business investment could be accounted for by EU exit. The [Decision Makers’ Panel](#) latest findings that the proportion of businesses for which EU exit was considered one of the main sources of uncertainty increased further in the three months to January 2019.

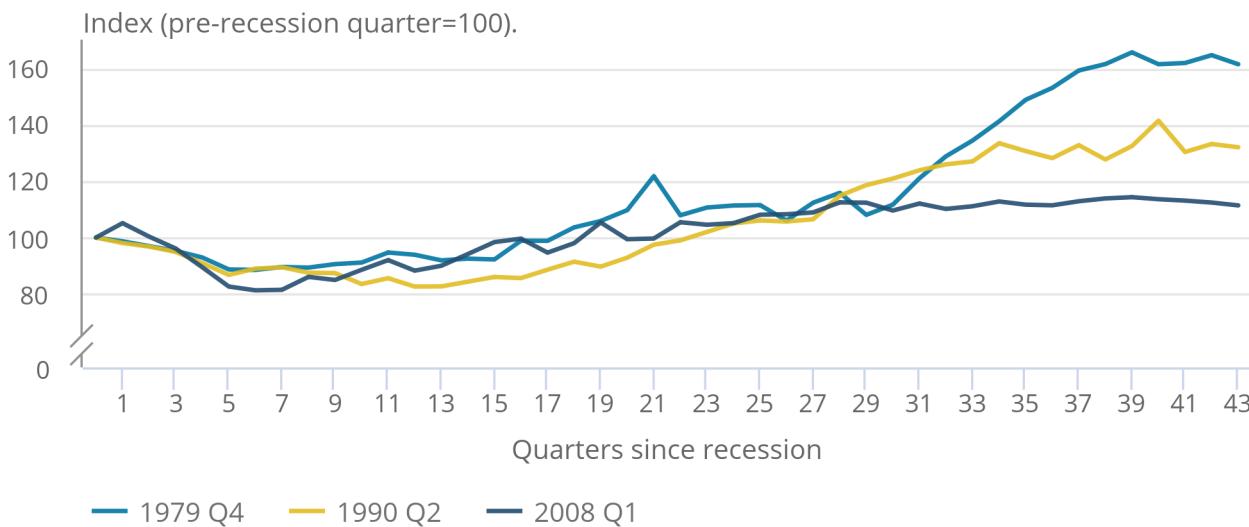
Figure 8 provides some historical context for the recent weakness in business investment, showing its path following each of the last three UK recessions. In contrast to previous episodes, it appears that businesses have held back on capital spending at a point in the cycle where previous historical episodes would point to a pick-up.

## Figure 8: Business investment in previous UK recessions and recoveries

UK, Quarter 4 (Oct to Dec) 1979, Quarter 2 (Apr to June) 1990 and Quarter 1 (Jan to Mar) 2008 onwards

### Figure 8: Business investment in previous UK recessions and recoveries

UK, Quarter 4 (Oct to Dec) 1979, Quarter 2 (Apr to June) 1990 and Quarter 1 (Jan to Mar) 2008 onwards



Source: Office for National Statistics – UK National Accounts

#### Notes:

1. [Estimates of business investment prior to 1997](#) are indicative only due to the basic method of calculation and other limitations in the methods used for compiling this dataset.

Government investment increased by 0.5% in Quarter 4 2018, revised down due to updates from central government. There were also revisions to the quarterly path in 2018, partly reflecting revisions from local government due to updated data for Crossrail. Overall, this has led to an upward revision in general government investment growth figure of 1.5% in 2018.

Alignment adjustments and balancing adjustments are typically applied to the inventories component to help balance the different approaches to GDP. The adjustments to inventories in Quarter 4 2018 were larger than usual, reflecting weakness in the expenditure approach to measuring GDP – more information on these can be found in the Quality and Methodology section.

There was a £4.2 billion increase in inventories in Quarter 4 2018, including alignment adjustments and balancing adjustments. However, excluding these adjustments the estimates show a slight decrease of £1.2 billion in stocks being held by UK companies. This is in contrast to a range of business surveys, which have recently reported a marked increase in building up inventories in preparation for any potential disruptions to supply chains. For instance, the latest [Agents' Update on Business Conditions \(PDF, 4.2MB\)](#) finds evidence that UK businesses are stockpiling in preparing for EU exit. Around half of those businesses that were preparing for EU exit were reported to be building up their stocks of inventories, while some were taking additional warehouse space.

There have also been revisions to the latest estimates of non-monetary gold (NMG), which is recorded within the national accounts as a change to valuables and in trade in goods. [Movements in NMG](#) do not affect headline GDP as these are recorded as equivalent offsetting impacts, but this is reflected in contributions to GDP growth. There was a sizeable export of NMG in Quarter 4 2018, reflected in an offsetting fall in the acquisition less disposal of valuables component, which helps explain the size of the contribution of gross capital formation. Despite this NMG movement, net trade made a negative contribution to GDP growth in the last three months of 2018.

There have been notable revisions to the volume estimates of export and import flows through 2018, which in part reflect revisions to the International Passenger Survey (IPS) estimates on personal travel, though these are consistent with the [latest UK trade release](#).

The estimates in the first quarter of the year have been revised down, although there have been offsetting revisions throughout the rest of the year. This is reflected in the latest net trade contributions (Figure 9). The overall impact is that the narrative on external rebalancing is largely unrevised for 2018. In its latest [Economic and Fiscal Outlook \(PDF, 3.7MB\)](#), the Office for Budget Responsibility cite the softening in world trade growth. There has also been a downward revision to its outlook for UK export market growth, as the weaker world trade picture has been concentrated in advanced economies, which comprise a higher share of UK exports.

**Figure 9: Net trade contribution to GDP revised down in Quarter 4 (Oct to Dec) 2018**

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 4 (Oct to Dec) 2018

### Figure 9: Net trade contribution to GDP revised down in Quarter 4 (Oct to Dec) 2018

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 4 (Oct to Dec) 2018



Source: Office for National Statistics – UK National Accounts

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. FQE refers to the GDP first quarterly estimate and QNA refers to the GDP quarterly national accounts.

## 6 . Nominal GDP rises by a slightly revised 0.7% in Quarter 4 2018

Nominal gross domestic product (GDP) grew by 0.7% in Quarter 4 (Oct to Dec) 2018, revised up from 0.6% in the first quarterly estimate. There have been some revisions throughout 2018, which have resulted in an upward revision to nominal GDP growth in 2018. The latest estimates now show that nominal GDP increased by 3.3% in 2018 – revised up slightly from 3.2% in the first quarterly estimate – still reflecting a slowing from the previous year. Figure 10 shows the contributions of income components to nominal GDP.

Growth in compensation of employees (CoE) slowed to 0.8% in Quarter 4 2018. This reflects a slowdown in the growth of wages and salaries compared with the previous quarter and a fall in employers' contributions to private pensions schemes following increases in employers' social contributions in the previous two quarters.

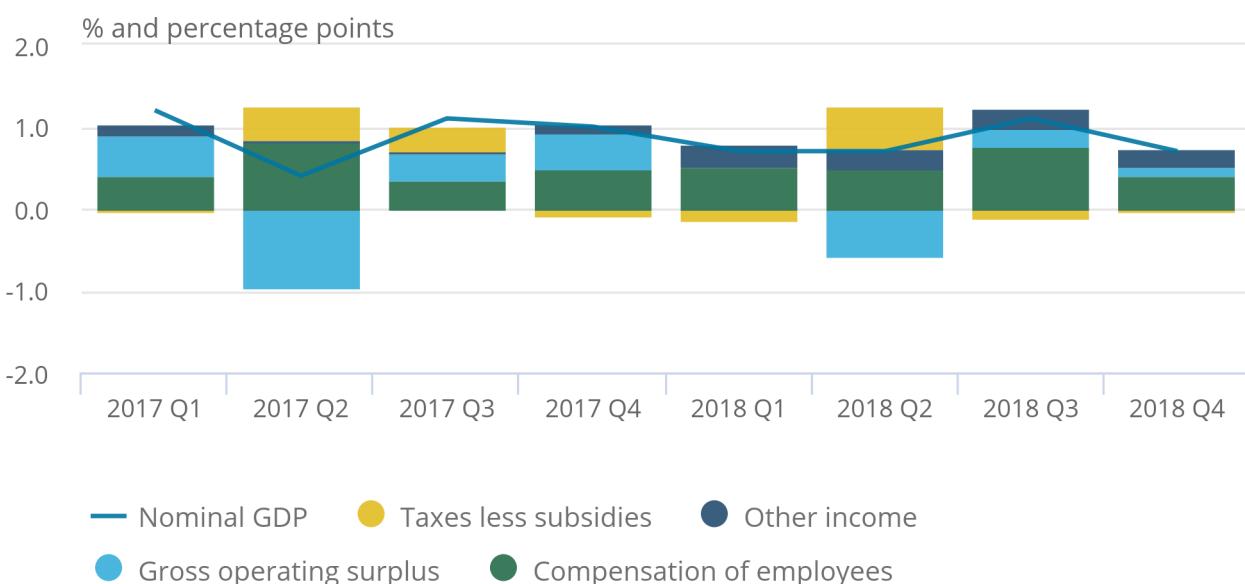
Gross operating surplus (GOS) has been revised in 2018 with the latest estimates showing a slowdown to 0.1% – a weaker picture for the year. There have been revisions to the quarterly path throughout 2018 reflecting improved data on financial services and updated survey estimates, with today's (29 March 2019) estimates showing an increase of 0.4% in Quarter 4. This is a marked upward revision from the previous estimate of a 0.8% fall. Other income increased by 1.4% in Quarter 4, in line with the quarterly profile of 2018.

**Figure 10: Nominal GDP rose by 0.7% in Quarter 4 (Oct to Dec) 2018, as growth in compensation of employees slows**

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 3 (July to Sept) 2018

Figure 10: Nominal GDP rose by 0.7% in Quarter 4 (Oct to Dec) 2018, as growth in compensation of employees slows

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 3 (July to Sept) 2018



Source: Office for National Statistics – UK National Accounts

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).

## 7 . Links to related statistics

### Release content

All data in this bulletin are seasonally adjusted estimates. Non-seasonally adjusted data are available within the UK Economic Accounts (UKEA). These data can be downloaded directly from the [UKEA dataset](#) and on the [UKEA main aggregates](#) dataset table. Data published in the UKEA reflect data as published on 29 March 2019 and are consistent with the data in this release.

A number of other economic indicators were published on 29 March 2019, these include:

- [Business investment](#)
- [Quarterly sector accounts](#)
- [Balance of payments](#)
- [Consumer trends](#)

## Monthly GDP

On 10 March 2019, estimates of [Monthly GDP](#) were published for January 2019. The [Index of Services](#), [Index of Production](#) and [Construction output in Great Britain](#) publications covering the period up to January 2019 are also available.

## 8 . Are there any upcoming changes?

### Compensation of Employees (CoE) breakdown

We have decided to add a breakdown of CoE into the GDP first quarterly estimate and GDP quarterly national accounts datasets. This will provide users with estimates of the two components of CoE; wages and salaries, and employers' social contributions. We will incorporate these additional series in Table D from the May 2019 publication.

### Contributions summary of records

Currently we publish a summary of records allowing quick comparison of the most recently published growth rates with historic data. From May 2019 we plan to publish an additional dataset providing a summary of records for contributions to GDP growth.

### Gross value added (GVA) at factor cost

Within the UK Economic Accounts (UKEA) we publish four series presenting GVA at factor cost (identifiers KGN7, KGN6, KGN5 and YBHH). We are considering withdrawing these series from publication because GVA at factor cost is not recognised within the UN System of National Accounts 2008 (SNA08) framework, therefore we have concerns over the methodology used to calculate these estimates. We propose removing these series from the UKEA publication from September 2019 and ahead of this we welcome user feedback around the use of these series.

### International Financial Reporting Standards (IFRS)

As of 1 January 2019 a new reporting standard has taken effect for those businesses using accountancy framework IFRS. [IFRS 16 Leases](#) brings the reporting of operating leases onto balance sheets. This is expected to impact how businesses report on their fixed assets mainly via our Quarterly Acquisition and Disposal of Capital Assets Survey (QCAS), used in the compilation of gross fixed capital formation and business investment.

This change is contrary to how we treat operating leases within the national accounts so to prepare we are gathering data already freely available and speaking to survey respondents and international businesses to assess the potential impact of IFRS 16's introduction. This will help us make a decision on how we treat any potential change in the levels of gross fixed capital formation in our Quarter 1 2019 dataset to ensure that there is no impact on the UK National Accounts as a whole.

## 9 . Quality and methodology

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

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

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

### Important quality issues

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

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

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

Many different approaches can be used to summarise revisions; the "Accuracy and reliability" section in the [Quality and Methodology Information report](#) analyses the mean average revision and the mean absolute revision for GDP estimates over data publication iterations.

### Reaching the GDP balance

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

Information on the methods we use for [Balancing the output, income and expenditure approaches to measuring GDP](#) is available. The size and direction of the quarterly alignment adjustments, when considered alongside the statistical discrepancy, in Quarter 4 2018 indicate that in this quarter the levels of expenditure and income are lower than the level of output.

Alignment adjustments, found in Table M of the [quarterly national accounts datasets](#) 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. This has been the case for the expenditure approach in Quarter 4 2018. To achieve a balanced GDP dataset through alignment, balancing adjustments are applied to the components of GDP where required. They are applied to the individual components where data content is particularly weak in a given quarter due to a higher level of forecast content. The balancing adjustments applied in this quarter are shown in Table 1, the resulting series should be considered accordingly.

Table 1: Balancing adjustments applied to the quarterly national accounts dataset for Quarter 1 2018 (Jan to Mar) to Quarter 4 (Oct to Dec) 2018

GDP measurement approach and component adjustment applied to	Q1 2018	Q2 2018	Q3 2018	Q4 2018
<b>Expenditure</b>				
Trade in Services	Current prices	-300	-500	-500
	Chained volume measure	300	500	750
Change in inventories	Current prices and Chained volume measure			3000
Household final consumption expenditure	Current prices and Chained volume measure			200

Source: Office for National Statistics – UK National Accounts

# 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	Gross national disposable income at market prices	Market sector gross value added	Gross national expenditure	Gross domestic product at market prices	Gross value added at basic prices
2015	YBEU 96.3	YBEX 96.4	YBEZ 98.2	CGCE 98.1	YBFP 97.9	L48H 97.6	YBFV 98.4	YBGB 98.0	CGBV 98.2
2016	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2017	104.1	104.0	101.8	102.1	103.3	103.4	102.4	102.2	101.9
2018	107.5	107.5	103.2	103.5	104.3	105.1	104.5	104.1	103.9
<b>Seasonally adjusted</b>									
2015 Q3	96.6	96.6	98.4	98.3	98.6	97.8	98.6	98.1	98.2
Q4	97.0	97.1	99.1	98.8	96.2	98.3	98.1	97.9	98.2
2016 Q1	98.6	98.6	99.5	99.1	98.8	98.8	99.3	99.1	99.4
Q2	99.4	99.4	99.6	99.6	98.9	99.5	100.0	99.8	99.9
Q3	100.3	100.4	100.1	100.2	100.3	100.3	100.1	100.2	100.2
Q4	101.7	101.7	100.8	101.1	102.1	101.5	100.6	100.9	100.5
2017 Q1	103.0	102.9	101.3	101.5	103.3	102.7	101.7	101.7	101.4
Q2	103.3	103.3	101.5	101.8	102.4	103.0	101.9	101.8	101.5
Q3	104.4	104.2	102.0	102.3	103.5	103.7	102.5	102.3	101.9
Q4	105.5	105.4	102.5	102.7	103.8	104.2	103.3	103.0	102.7
2018 Q1	106.2	106.3	102.5	102.8	103.7	104.3	103.7	103.6	103.4
Q2	106.9	106.6	102.9	103.2	104.7	104.8	104.0	103.9	103.3
Q3	108.1	108.1	103.6	103.9	104.3	105.7	104.8	104.3	104.0
Q4	108.9	108.9	103.9	104.1	104.6	105.9	105.2	104.8	104.6
<b>Percentage change, latest year on previous year</b>									
2015	IHYM 2.8	KGL6 2.8	IHYP 2.3	KGM7 2.5	KH6X 2.6	L489 2.8	KH7D -0.1	IHYS 0.4	KGM4 0.2
2016	3.9	3.8	1.8	1.9	2.1	2.4	1.6	2.1	1.9
2017	4.1	4.0	1.8	2.1	3.3	3.4	2.4	2.2	1.9
2018	3.3	3.4	1.4	1.4	1.0	1.7	2.0	1.9	1.9
<b>Percentage change, latest quarter on previous quarter</b>									
2015 Q3	IHYN 0.1	KGL8 -0.1	IHYQ 0.4	KGM9 0.3	KH6Z -0.4	0.3	KH7E -0.4	IHYT -0.4	KGM5 -0.4
Q4	0.5	0.5	0.7	0.5	-2.4	0.5	-0.5	-0.3	-
2016 Q1	1.6	1.5	0.3	0.3	2.7	0.4	1.2	1.3	1.2
Q2	0.9	0.9	0.2	0.4	0.1	0.7	0.7	0.7	0.4
Q3	0.9	0.9	0.5	0.6	1.4	0.8	0.2	0.4	0.3
Q4	1.5	1.3	0.7	0.9	1.8	1.2	0.5	0.7	0.4
2017 Q1	1.2	1.3	0.4	0.4	1.2	1.2	1.1	0.8	0.9
Q2	0.4	0.4	0.3	0.3	-0.9	0.3	0.2	0.1	0.1
Q3	1.1	0.9	0.5	0.5	1.1	0.6	0.6	0.5	0.3
Q4	1.0	1.2	0.4	0.4	0.3	0.5	0.7	0.6	0.8
2018 Q1	0.7	0.8	0.1	—	-0.1	0.1	0.4	0.6	0.8
Q2	0.7	0.3	0.4	0.4	0.9	0.5	0.3	0.3	-0.1
Q3	1.1	1.4	0.7	0.7	-0.4	0.8	0.7	0.5	0.7
Q4	0.7	0.8	0.2	0.2	0.3	0.2	0.4	0.4	0.6
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>									
2015 Q3	IHYO 2.3	KGM2 2.0	IHYR 2.1	KGN3 2.2	KH73 2.7	L48D 2.4	KH7F -0.2	IHYU 0.2	KGM6 -0.2
Q4	2.8	2.8	2.2	1.8	0.4	2.0	-0.1	0.5	0.9
2016 Q1	3.9	3.6	2.1	1.8	0.9	1.9	1.3	1.7	1.8
Q2	3.0	2.8	1.7	1.6	—	2.0	0.9	1.3	1.3
Q3	3.8	3.9	1.7	1.9	1.7	2.5	1.5	2.1	2.0
Q4	4.9	4.7	1.7	2.3	6.1	3.2	2.5	3.1	2.4
2017 Q1	4.5	4.5	1.8	2.4	4.6	4.0	2.4	2.6	2.0
Q2	4.0	3.9	1.9	2.2	3.5	3.6	2.0	2.0	1.7
Q3	4.2	3.8	2.0	2.1	3.3	3.4	2.4	2.2	1.7
Q4	3.7	3.7	1.6	1.6	1.7	2.7	2.7	2.0	2.1
2018 Q1	3.1	3.2	1.2	1.2	0.4	1.5	2.0	1.9	2.0
Q2	3.4	3.2	1.4	1.4	2.3	1.7	2.1	2.0	1.8
Q3	3.5	3.7	1.6	1.6	0.8	1.9	2.2	1.9	2.1
Q4	3.2	3.3	1.4	1.4	0.7	1.6	1.9	1.8	1.9

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

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

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

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

£ million

	Current prices					Chained Volume Measures (Reference year 2016)			
	Gross national income at market prices	Net income from abroad <sup>2</sup>	Gross domestic product at market prices	less Basic price adjustment <sup>3</sup>	Gross value added at basic prices	Gross domestic product at market prices	less Basic price adjustment <sup>3</sup>	Gross value added at basic prices	Gross value added excluding oil & gas <sup>4</sup>
2015	ABMZ 1 852 845	CAES -42 994	YBHA 1 895 839	NTAP 203 800	ABML 1 692 039	ABMI 1 934 903	NTAO 211 411	ABMM 1 723 523	KLS2 1 711 310
2016	1 920 116	-49 408	1 969 524	213 479	1 756 045	1 969 524	213 479	1 756 045	1 743 298
2017	2 026 058	-23 571	2 049 629	223 756	1 825 873	2 005 427	213 165	1 792 262	1 779 831
2018	2 091 074	-26 650	2 117 724	230 599	1 887 125	2 033 455	216 350	1 817 105	1 803 884
<b>Seasonally adjusted</b>									
2015 Q3	466 800	-8 742	475 541	51 621	423 920	484 552	52 849	431 718	428 558
Q4	459 605	-18 169	477 774	51 676	426 098	488 153	54 358	433 845	430 760
2016 Q1	470 818	-14 512	485 326	52 667	432 659	489 736	54 606	435 169	432 081
Q2	475 548	-13 944	489 494	52 981	436 513	490 502	53 391	437 116	433 934
Q3	482 658	-11 072	493 730	53 153	440 577	492 816	52 908	439 892	436 496
Q4	491 092	-9 880	500 974	54 678	446 296	496 470	52 574	443 868	440 787
2017 Q1	502 823	-4 206	507 028	55 076	451 952	498 582	52 979	445 603	442 478
Q2	501 504	-7 364	508 869	55 297	453 572	499 885	53 144	446 741	443 583
Q3	508 916	-5 342	514 258	56 810	457 448	502 473	53 425	449 048	445 876
Q4	512 815	-6 659	519 474	56 573	462 901	504 487	53 617	450 870	447 894
2018 Q1	516 217	-6 675	522 891	56 262	466 629	504 785	53 697	451 088	447 868
Q2	522 181	-4 212	526 394	58 439	467 955	506 842	53 924	452 918	449 619
Q3	525 092	-7 352	532 444	58 049	474 395	510 346	54 296	456 050	452 682
Q4	527 584	-8 411	535 995	57 849	478 146	511 482	54 433	457 049	453 715
<b>Percentage change, latest year on previous year</b>									
	KH74		IHYM		KGL6	IHP		KGM7	KLH8
2015	2.6		2.8		2.8	2.3		2.5	2.5
2016	3.6		3.9		3.8	1.8		1.9	1.9
2017	5.5		4.1		4.0	1.8		2.1	2.1
2018	3.2		3.3		3.4	1.4		1.4	1.4
<b>Percentage change, latest quarter on previous quarter</b>									
	KH75		IHYN		KGL8	IHYQ		KGM9	KLH8
2015 Q3	-0.5		0.1		-0.1	0.4		0.3	0.3
Q4	-1.5		0.5		0.5	0.7		0.5	0.5
2016 Q1	2.4		1.6		1.5	0.3		0.3	0.3
Q2	1.0		0.9		0.9	0.2		0.4	0.4
Q3	1.5		0.9		0.9	0.5		0.6	0.6
Q4	1.7		1.5		1.3	0.7		0.9	1.0
2017 Q1	2.4		1.2		1.3	0.4		0.4	0.4
Q2	-0.3		0.4		0.4	0.3		0.3	0.2
Q3	1.5		1.1		0.9	0.5		0.5	0.5
Q4	0.8		1.0		1.2	0.4		0.4	0.5
2018 Q1	0.7		0.7		0.8	0.1		—	—
Q2	1.2		0.7		0.3	0.4		0.4	0.4
Q3	0.6		1.1		1.4	0.7		0.7	0.7
Q4	0.5		0.7		0.8	0.2		0.2	0.2
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>									
	KH76		IHYO		KGM2	IHYR		KGN3	KLH9
2015 Q3	2.8		2.3		2.0	2.1		2.2	2.1
Q4	1.4		2.8		2.8	2.2		1.8	1.7
2016 Q1	3.0		3.9		3.6	2.1		1.8	1.7
Q2	1.3		3.0		2.8	1.7		1.6	1.6
Q3	3.4		3.8		3.9	1.7		1.9	1.9
Q4	6.9		4.9		4.7	1.7		2.3	2.3
2017 Q1	6.8		4.5		4.5	1.8		2.4	2.4
Q2	5.5		4.0		3.9	1.9		2.2	2.2
Q3	5.4		4.2		3.8	2.0		2.1	2.1
Q4	4.4		3.7		3.7	1.6		1.6	1.6
2018 Q1	2.7		3.1		3.2	1.2		1.2	1.2
Q2	4.1		3.4		3.2	1.4		1.4	1.4
Q3	3.2		3.5		3.7	1.6		1.6	1.5
Q4	2.9		3.2		3.3	1.4		1.4	1.3

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

2 Includes employment, entrepreneurial and property income.

3 Taxes on products less subsidies.

4 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						Gross value added excluding oil & gas
	Agriculture, forestry, and fishing	Mining & quarrying inc oil & gas extract	Electric, gas, steam & air				Water supply, sewerage	Total	Construction	Distribution, hotels & restaurants	Transport storage and communications	Business services and finance	Government and other services	Total	Gross value added <sup>4</sup>		
			Manufacturing	100	17	10											
<b>2016 Weights<sup>3</sup></b>	7	10	100	17	10	138	60	134	106	335	221	796	1000	993			
2015	L2KL	L2KR	L2KX	L2MW	L2N2	L2KQ	L2N8	L2PZ	KI8M	KI8O	KI8Q	L2NC	CGCE	KLH7			
2015	106.0	99.7	99.6	97.9	94.7	99.0	96.1	96.3	96.7	98.0	100.0	98.1	98.1	98.2			
2016	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			
2017	103.0	99.4	102.5	98.4	103.4	101.8	107.1	102.2	104.9	102.2	100.6	102.1	102.1	102.1			
2018	100.6	103.7	103.4	97.9	101.9	102.6	107.4	105.1	108.9	103.8	100.9	103.9	103.5	103.5			
<b>Seasonally adjusted</b>																	
2015 Q3	106.3	101.8	99.3	98.5	95.7	99.2	95.7	96.6	97.1	98.2	100.2	98.3	98.3	98.3			
Q4	104.6	99.7	99.2	96.1	96.0	98.6	97.2	97.6	97.7	98.9	100.5	98.9	98.8	98.8			
2016 Q1	100.7	97.9	99.0	98.1	97.8	98.7	97.5	98.7	98.0	99.3	100.3	99.3	99.1	99.1			
Q2	99.7	100.1	100.2	102.5	100.5	100.5	99.2	99.2	98.2	99.6	99.9	99.4	99.6	99.6			
Q3	99.5	105.1	99.7	98.5	100.6	100.1	100.2	100.1	101.0	100.3	99.8	100.2	100.2	100.2			
Q4	100.1	97.0	101.0	100.9	101.2	100.7	103.1	101.9	102.8	100.8	100.0	101.0	101.1	101.1			
2017 Q1	102.2	99.4	101.5	96.9	104.3	101.0	106.5	101.7	103.3	101.6	100.5	101.5	101.5	101.5			
Q2	102.8	100.9	101.6	97.8	103.4	101.2	106.7	102.0	104.5	101.8	100.7	101.9	101.8	101.8			
Q3	103.5	101.0	102.7	99.9	102.9	102.2	107.4	102.5	105.2	102.4	100.7	102.3	102.3	102.3			
Q4	103.3	96.4	104.2	99.2	102.9	102.9	107.7	102.7	106.6	102.8	100.4	102.6	102.7	102.8			
2018 Q1	101.1	100.8	103.9	100.3	100.9	103.0	106.1	103.1	106.8	103.3	100.5	103.0	102.8	102.8			
Q2	100.2	103.4	103.4	96.5	101.5	102.4	106.7	104.9	108.1	103.6	100.6	103.6	103.2	103.2			
Q3	100.1	105.7	103.6	98.1	103.1	103.0	108.6	106.0	110.0	103.9	100.9	104.2	103.9	103.9			
Q4	100.8	104.8	102.8	96.6	102.2	102.2	108.0	106.3	110.8	104.3	101.5	104.7	104.1	104.1			
<b>Percentage change, latest year on previous year</b>																	
2015	L3BB	L3BH	L3BN	L3DM	L3DQ	L3BG	L3DW	L3GP	KI8L	KI8N	KI8P	L3E2	KGM7	KLH8			
2015	1.1	8.0	—	1.0	3.4	1.2	4.4	4.5	4.1	2.6	0.9	2.7	2.5	2.5			
2016	-5.6	0.3	0.4	2.1	5.6	1.0	4.1	3.8	3.4	2.1	—	1.9	1.9	1.9			
2017	3.0	-0.6	2.5	-1.6	3.4	1.8	7.1	2.2	4.9	2.2	0.6	2.1	2.1	2.1			
2018	-2.3	4.3	0.9	-0.6	-1.4	0.8	0.3	2.8	3.8	1.6	0.3	1.7	1.4	1.4			
<b>Percentage change, latest quarter on previous quarter</b>																	
2015 Q3	-0.6	-0.9	-0.4	0.8	0.4	-0.3	-0.6	0.5	0.6	0.6	0.2	0.5	0.3	0.3	0.3		
Q4	-1.7	-2.0	-0.2	-2.4	0.3	-0.6	1.5	1.0	0.6	0.7	0.3	0.6	0.6	0.5	0.5		
2016 Q1	-3.7	-1.9	-0.1	2.1	1.8	0.1	0.3	1.1	0.4	0.5	-0.2	0.4	0.3	0.3	0.3		
Q2	-1.1	2.2	1.2	4.6	2.8	1.8	1.7	0.5	0.2	0.3	-0.4	0.1	0.4	0.4	0.4		
Q3	-0.2	5.1	-0.5	-3.9	0.1	-0.4	1.1	0.9	2.9	0.7	-0.1	0.8	0.6	0.6	0.6		
Q4	0.6	-7.8	1.3	2.4	0.6	0.6	2.9	1.7	0.5	0.1	0.8	0.9	1.0	1.0			
2017 Q1	2.1	2.6	0.5	-3.9	3.1	0.3	3.2	-0.2	0.4	0.8	0.5	0.5	0.4	0.4	0.4		
Q2	0.6	1.5	0.1	0.9	-0.8	0.3	0.2	0.3	1.2	0.2	0.3	0.4	0.3	0.2	0.2		
Q3	0.6	0.1	1.1	2.2	-0.5	1.0	0.7	0.5	0.7	0.6	-0.1	0.4	0.5	0.5	0.5		
Q4	-0.1	-4.5	1.5	-0.8	-	0.6	0.3	0.2	1.3	0.4	-0.3	0.3	0.4	0.4	0.5		
2018 Q1	-2.1	4.6	-0.3	1.1	-1.9	0.1	-1.5	0.3	0.2	0.5	0.1	0.3	—	—	—		
Q2	-0.9	2.5	-0.5	-3.7	0.6	-0.6	0.5	1.7	1.2	0.2	0.1	0.6	0.4	0.4	0.4		
Q3	-0.1	2.2	0.2	1.6	1.6	0.6	1.8	1.0	1.8	0.3	0.3	0.6	0.7	0.7	0.7		
Q4	0.6	-0.8	-0.7	-1.5	-0.9	-0.8	-0.5	0.3	0.8	0.4	0.6	0.5	0.2	0.2	0.2		
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>																	
2015 Q3	L3ZZ	L427	L42D	L44C	L44G	L426	L44M	L47F	KI12	KI19	KI18	L44Q	KGN3	KLH9			
2015 Q4	0.7	12.5	-0.7	-0.9	5.7	1.2	2.1	4.4	3.8	2.4	0.8	2.5	2.2	2.1			
2016 Q1	-2.6	7.6	-1.1	-1.0	5.1	0.3	3.3	3.9	2.8	2.0	0.5	2.0	1.8	1.7			
2016 Q2	-5.0	3.3	-1.1	-1.4	6.8	-0.1	2.5	3.9	2.6	2.1	0.8	2.1	1.8	1.7			
Q3	-6.8	-2.5	0.5	5.0	5.4	1.0	3.0	3.2	1.8	2.0	-0.1	1.6	1.6	1.6			
Q4	-6.5	3.3	0.4	0.1	5.1	0.9	4.7	3.7	4.0	2.1	-0.3	1.9	1.9	1.9			
2017 Q1	-4.3	-2.8	1.9	5.0	5.3	2.1	6.1	4.4	5.3	1.9	-0.5	2.1	2.3	2.3			
Q2	1.5	1.6	2.5	-1.2	6.7	2.3	9.2	3.0	5.4	2.3	0.2	2.2	2.4	2.4			
Q3	3.2	0.9	1.4	-4.6	2.9	0.7	7.6	2.7	6.4	2.2	0.8	2.5	2.2	2.2			
Q4	4.0	-4.0	3.0	1.4	2.3	2.2	7.1	2.4	4.2	2.1	0.8	2.1	2.1	2.1			
2018 Q1	3.2	-0.5	3.2	-1.7	1.7	2.2	4.5	0.8	3.7	2.0	0.4	1.6	1.6	1.6			
Q2	-1.0	1.4	2.3	3.5	-3.2	2.0	-0.3	1.4	3.4	1.7	—	1.4	1.2	1.2	1.2		
Q3	-2.5	2.5	1.7	-1.3	-1.8	1.1	—	2.9	3.4	1.7	-0.1	1.6	1.4	1.4	1.4		
Q4	-3.2	4.6	0.9	-1.9	0.2	0.8	1.2	3.4	4.5	1.4	0.3	1.9	1.6	1.5			
2018 Q2	-2.5	8.7	-1.3	-2.5	-0.7	-0.7	0.3	3.5	3.9	1.4	1.1	2.0	1.4	1.4	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 This is a balanced index of UK GVA taking into account data from the Income and Expenditure approaches. Thus it will not necessarily be the weighted sum of the industrial indices.

# B2 Gross value added at chained volume measures basic prices, by category of output<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
	2016 Weights <sup>3</sup>	104	106	30	73	138	123	47	59	75	40
2015	L2NE	KI8M	L2NQ	L2O6	L2OC	L2OH	L2P8	L2PA	L2PC	L2Q5	L2NC
2015	95.8	96.7	98.5	96.6	99.4	97.2	101.8	100.6	98.4	100.2	98.1
2016	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2017	102.1	104.9	102.8	100.2	101.0	104.6	100.2	100.6	99.7	102.6	102.1
2018	105.0	108.9	105.4	98.5	102.0	108.8	101.2	100.9	100.2	101.6	103.9
<b>Seasonally adjusted</b>											
2015 Q3	96.1	97.1	98.4	95.2	100.1	97.9	101.2	100.8	98.9	100.3	98.3
2015 Q4	96.9	97.7	100.4	97.1	100.3	98.3	101.1	101.0	99.4	101.2	98.9
2016 Q1	98.6	98.0	99.2	98.7	100.5	98.4	100.5	100.5	100.1	99.9	99.3
2016 Q2	99.2	98.2	99.3	99.4	99.9	99.4	99.8	99.8	100.1	99.7	99.4
2016 Q3	100.2	101.0	100.1	101.2	99.7	100.4	99.8	99.7	100.0	99.7	100.2
2016 Q4	102.0	102.8	101.5	100.7	99.9	101.8	99.8	100.0	99.7	100.6	101.0
2017 Q1	101.4	103.3	102.7	101.2	100.5	103.1	99.8	100.9	99.7	102.0	101.5
2017 Q2	101.8	104.5	102.6	100.5	101.0	103.4	100.3	100.5	100.0	103.1	101.9
2017 Q3	102.4	105.2	102.9	99.9	101.3	105.1	100.1	100.5	99.7	103.4	102.3
2017 Q4	102.7	106.6	102.8	99.3	101.3	106.6	100.5	100.4	99.6	101.8	102.6
2018 Q1	102.9	106.8	103.5	99.2	101.7	107.6	100.6	100.4	99.9	101.6	103.0
2018 Q2	104.7	108.1	105.4	98.8	101.8	108.3	101.1	101.0	99.6	101.5	103.6
2018 Q3	105.9	110.0	106.1	98.4	102.0	109.2	101.6	100.9	100.1	101.7	104.2
2018 Q4	106.3	110.8	106.5	97.4	102.7	110.1	101.6	101.5	101.3	101.7	104.7
<b>Percentage change, latest year on previous year</b>											
2015	L3E4	KI8L	L3EG	L3EU	L3F2	L3F7	L3FW	L3FY	L3G2	L3GT	L3E2
2015	4.5	4.1	4.8	-2.9	3.5	5.1	-1.9	1.7	1.5	2.0	2.7
2016	4.4	3.4	1.5	3.5	0.6	2.9	-1.8	-0.6	1.6	-0.2	1.9
2017	2.1	4.9	2.8	0.2	1.0	4.6	0.2	0.6	-0.3	2.6	2.1
2018	2.8	3.8	2.5	-1.8	1.0	4.1	1.0	0.4	0.5	-0.9	1.7
<b>Percentage change, latest quarter on previous quarter</b>											
2015 Q3	0.5	0.6	0.6	-0.6	0.9	1.0	-0.9	0.5	0.5	0.5	0.5
2015 Q4	0.8	0.6	2.0	2.0	0.2	0.4	-0.2	0.2	0.4	0.9	0.6
2016 Q1	1.8	0.4	-1.2	1.7	0.1	0.1	-0.6	-0.5	0.8	-1.2	0.4
2016 Q2	0.6	0.2	0.1	0.8	-0.5	0.9	-0.6	-0.7	-	-0.2	0.1
2016 Q3	0.9	2.9	0.8	1.8	-0.2	1.0	-	-0.1	-0.1	-	0.8
2016 Q4	1.8	1.8	1.4	-0.4	0.1	1.5	-	0.3	-0.3	0.9	0.8
2017 Q1	-0.6	0.4	1.2	0.5	0.6	1.3	-	0.9	-	1.4	0.5
2017 Q2	0.4	1.2	-0.1	-0.7	0.6	0.3	0.4	-0.4	0.2	1.1	0.4
2017 Q3	0.6	0.7	0.2	-0.6	0.3	1.6	-0.2	-	-0.3	0.3	0.4
2017 Q4	0.3	1.3	-	-0.6	0.1	1.4	0.4	-0.1	-0.1	-1.5	0.3
2018 Q1	0.2	0.2	0.7	-	0.3	0.9	0.1	-	0.3	-0.2	0.3
2018 Q2	1.7	1.2	1.8	-0.5	0.1	0.7	0.5	0.5	-0.3	-0.1	0.6
2018 Q3	1.2	1.8	0.6	-0.4	0.2	0.8	0.6	-0.1	0.5	0.2	0.6
2018 Q4	0.3	0.8	0.4	-1.0	0.7	0.8	-	0.6	1.3	-	0.5
<b>Percentage change, latest quarter on corresponding quarter of the previous year</b>											
2015 Q3	L44S	KI2	L456	L45K	L45Q	L45V	L46M	L46O	L46Q	L47J	L44Q
2015 Q4	4.4	3.8	4.4	-4.0	3.8	4.9	-2.4	1.7	1.7	1.6	2.5
2016 Q1	4.5	2.6	1.9	0.2	2.5	3.0	-2.2	0.3	3.2	0.5	2.1
2016 Q2	3.7	1.8	1.5	3.8	0.8	2.5	-2.3	-0.4	1.7	-0.1	1.6
2016 Q3	4.2	4.0	1.7	6.3	-0.4	2.5	-1.4	-1.1	1.1	-0.6	1.9
2016 Q4	5.3	5.3	1.1	3.8	-0.5	3.6	-1.2	-1.1	0.4	-0.6	2.1
2017 Q1	2.8	5.4	3.6	2.6	-	4.7	-0.6	0.4	-0.4	2.0	2.2
2017 Q2	2.6	6.4	3.4	1.1	1.1	4.1	0.5	0.7	-0.1	3.4	2.5
2017 Q3	2.3	4.2	2.8	-1.3	1.6	4.7	0.3	0.8	-0.4	3.7	2.1
2017 Q4	0.7	3.7	1.4	-1.5	1.5	4.7	0.7	0.5	-0.2	1.2	1.6
2018 Q1	1.5	3.4	0.8	-1.9	1.2	4.4	0.8	-0.5	0.2	-0.4	1.4
2018 Q2	2.9	3.4	2.7	-1.8	0.8	4.8	0.8	0.5	-0.4	-1.6	1.6
2018 Q3	3.4	4.5	3.1	-1.5	0.7	3.9	1.5	0.4	0.4	-1.7	1.9
2018 Q4	3.5	3.9	3.5	-1.8	1.3	3.2	1.1	1.0	1.8	-0.1	2.0

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

2 Components of output are valued at basic prices, which excludes taxes and includes subsidies on 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										Statisti- cal discre- pancy		Gross domestic product at market prices
	Households	Non-pro- fit institu- tions <sup>2</sup>	General governme- nt formation	Gross fixed capital investment <sup>3</sup>	Of which business invest- ment <sup>4</sup>	Of which Changes in invent- ories <sup>4</sup>	Of which adjust- ment valuables <sup>5</sup>	Acquisi- tions less disposals of valuables <sup>5</sup>	Total	Total exports	Gross final expen- iture	less Total Trade (expen- iture)	Imports balance <sup>6</sup>	Total balance <sup>6</sup>			
2015	1 178 915	56 566	361 028	319 432	184 620	7 046	—	NPJQ	YBIL	IKBH	ABMF	IKBI	IKBJ	GIXM	YBHA	1 895 839	
2016	1 235 247	57 343	367 974	331 442	187 032	8 556	—	—164	1 922 823	519 610	2 442 433	546 594	—26 984	—	—30 887	1 969 524	
2017	1 288 984	57 986	375 219	351 293	194 886	1 604	—	—151	2 000 411	556 961	2 557 372	587 848	—23 933	—1 883	2 049 629	2 117 724	
2018	1 341 849	58 234	386 091	359 272	197 237	4 790	—	1 202 2	151 438	634 062	2 785	500 665	031	—30 969	—2 745	2 117 724	
<b>Seasonally adjusted</b>																	
2015 Q3	296 059	14 133	91 090	79 035	45 461	2 164	-1 721	-671	481 810	127 895	609 705	134 164	-6 269	—	475 541		
Q4	299 266	14 166	90 443	80 509	46 409	1 359	-334	-1 676	484 067	130 438	614 505	136 731	-6 293	—	477 774		
2016 Q1	303 176	14 217	91 626	80 667	45 850	2 046	-84	295	492 027	131 401	623 428	138 102	-6 701	—	485 326		
Q2	306 925	14 287	91 550	82 434	46 690	1 712	-900	-1 196	495 712	136 044	631 756	142 262	-6 218	—	489 494		
Q3	310 953	14 371	92 032	83 994	47 583	3 500	1 981	2 620	507 470	138 462	645 932	152 202	-13 740	—	493 730		
Q4	314 193	14 468	92 766	84 347	46 909	1 298	-997	-1 870	505 202	151 054	656 256	155 282	-4 228	—	500 974		
2017 Q1	318 968	14 476	93 048	85 579	47 313	2 217	1 089	-588	513 700	151 463	665 163	158 146	-6 683	11	507 028		
Q2	320 806	14 510	93 403	87 658	48 614	-550	-1 609	210	516 037	153 044	669 081	160 009	-6 965	-203	508 869		
Q3	322 838	14 495	93 895	88 394	49 174	563	639	97	520 282	156 229	676 511	161 594	-5 365	-659	514 258		
Q4	326 372	14 505	94 873	89 662	49 785	-626	-119	640	525 426	156 803	682 229	161 723	-4 920	-1 032	519 474		
2018 Q1	330 889	14 545	95 596	89 481	49 497	-1 949	-1 622	319	528 881	155 345	684 226	160 568	-5 223	-767	522 891		
Q2	333 979	14 555	95 981	89 306	49 592	-381	-348	1 178	534 618	156 632	691 250	164 080	-7 448	-776	526 394		
Q3	336 985	14 552	96 736	90 295	49 147	2 672	-570	758	541 998	159 541	701 539	168 401	-8 860	-694	532 444		
Q4	339 996	14 582	97 778	90 190	49 001	4 448	2 540	-1 053	545 941	162 544	708 485	171 982	-9 438	-508	535 995		
<b>Percentage change, latest year on previous year</b>																	
	KGY7	KGZ8	KH2C	KG6O	KG6N				KGX3	KH2O	KGV7	KH3H			IHYM		
2015	3.2	0.5	1.1	4.5	5.1				2.6	-0.1	2.0	-0.6			2.8		
2016	4.8	1.4	1.9	3.8	1.3				4.0	7.2	4.7	7.5			3.9		
2017	4.4	1.1	2.0	6.0	4.2				3.8	10.9	5.3	9.1			4.1		
2018	4.1	0.4	2.9	2.3	1.2				3.7	2.7	3.4	3.7			3.3		
<b>Percentage change, latest quarter on previous quarter</b>																	
	KGY8	KGZ9	KH2D	KG6W	KG6V				KGX4	KH2P	KGV8	KH3I			IHYN		
2015 Q3	0.9	—	1.9	-1.5	-1.9				0.3	-2.4	-0.3	-1.4			0.1		
Q4	1.1	0.2	-0.7	1.9	2.1				0.5	2.0	0.8	1.9			0.5		
2016 Q1	1.3	0.4	1.3	0.2	-1.2				1.6	0.7	1.5	1.0			1.6		
Q2	1.2	0.5	-0.1	2.2	1.8				0.7	3.5	1.3	3.0			0.9		
Q3	1.3	0.6	0.5	1.9	1.9				2.4	1.8	2.2	7.0			0.9		
Q4	1.0	0.7	0.8	0.4	-1.4				-0.4	9.1	1.6	2.0			1.5		
2017 Q1	1.5	0.1	0.3	1.5	0.9				1.7	0.3	1.4	1.8			1.2		
Q2	0.6	0.2	0.4	2.4	2.7				0.5	1.0	0.6	1.2			0.4		
Q3	0.6	-0.1	0.5	0.8	1.2				0.8	2.1	1.1	1.0			1.1		
Q4	1.1	0.1	1.0	1.4	1.2				1.0	0.4	0.8	0.1			1.0		
2018 Q1	1.4	0.3	0.8	-0.2	-0.6				0.7	-0.9	0.3	-0.7			0.7		
Q2	0.9	0.1	0.4	-0.2	0.2				1.1	0.8	1.0	2.2			0.7		
Q3	0.9	—	0.8	1.1	-0.9				1.4	1.9	1.5	2.6			1.1		
Q4	0.9	0.2	1.1	-0.1	-0.3				0.7	1.9	1.0	2.1			0.7		
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>																	
	KGY9	KH22	KH2E	KG76	KG75				KGX5	KH2Q	KGV9	KH3J			IHYO		
2015 Q3	3.0	0.1	1.1	2.8	3.2				2.0	-0.6	1.4	-1.7			2.3		
Q4	3.6	0.2	0.7	3.4	4.0				2.1	-1.0	1.4	-3.0			2.8		
2016 Q1	4.5	0.6	1.7	1.3	-1.2				3.2	0.9	2.7	-1.1			3.9		
Q2	4.6	1.1	2.4	2.7	0.8				3.2	3.8	3.4	4.6			3.0		
Q3	5.0	1.7	1.0	6.3	4.7				5.3	8.3	5.9	13.4			3.8		
Q4	5.0	2.1	2.6	4.8	1.1				4.4	15.8	6.8	13.6			4.9		
2017 Q1	5.2	1.8	1.6	6.1	3.2				4.4	15.3	6.7	14.5			4.5		
Q2	4.5	1.6	2.0	6.3	4.1				4.1	12.5	5.9	12.5			4.0		
Q3	3.8	0.9	2.0	5.2	3.3				2.5	12.8	4.7	6.2			4.2		
Q4	3.9	0.3	2.3	6.3	6.1				4.0	3.8	4.0	4.1			3.7		
2018 Q1	3.7	0.5	2.7	4.6	4.6				3.0	2.6	2.9	1.5			3.1		
Q2	4.1	0.3	2.8	1.9	2.0				3.6	2.3	3.3	2.5			3.4		
Q3	4.4	0.4	3.0	2.2	-0.1				4.2	2.1	3.7	4.2			3.5		
Q4	4.2	0.5	3.1	0.6	-1.6				3.9	3.7	3.8	6.3			3.2		

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>3</sup>	Gross fixed capital formation		Of which business investment <sup>3</sup>	Changes in inventories <sup>4</sup>	Of which alignment adjustment <sup>5</sup>	Acquisitions less disposals of valuables <sup>5</sup>	Total	Exports	Gross final expenditure		Total imports	Trade balance <sup>6</sup>	(expenditure)	
	Total	Exports		Total	Exports							Total	Less exports	Total	Trade (expenditure)	(expenditure)	
2015	ABJR	HAYO	NMRY	NPQT	NPEL	CAFU	DMUM	NPJR	YBIM	IKBK	ABMG	IKBL	IKBM	GIXS	ABMI	1 196 525	
2016	1 235 247	56 874	365 223	324 016	187 355	11 146	-1	-360 1 953 172 551 228 2 504 151 569 120	-17 892	-	-	1 934 903	-	-	-	57 343	
2017	1 262 271	57 162	367 267	342 917	189 877	8 556	-	-151 2 000 411 556 961 2 557 372 587 848	-30 887	-	-	1 969 524	-	-	-	331 442	
2018	1 284 838	56 392	368 587	343 498	189 047	5 353	-	291 2 027 531 588 217 2 615 748 608 487	-20 270	-1 834	-	2 005 427	-	-	-	2 059 693 588 900 2 648 593 612 501	
								1 025 2 059 693 588 900 2 648 593 612 501	-23 601	-2 637	-	2 033 455	-	-	-		
<b>Seasonally adjusted</b>																	
2015 Q3	301 636	14 166	91 806	80 017	45 985	4 199	-1 757	-748	488 607 136 744	625 287 140 793	-4 049	-	484 552	-	-	-	301 804
Q4	14 195	91 665	81 427	47 023	2 782	-345	-1 803	493 287 139 491	632 757 144 591	-5 100	-	488 153	-	-	-		
2016 Q1	305 101	14 251	92 044	81 415	46 221	1 881	-86	284	495 416 138 252	633 733 143 976	-5 724	-	489 736	-	-	-	307 595
Q2	14 345	91 959	82 695	46 622	347	-903	-1 264	495 847 139 554	635 416 144 900	-5 346	-	490 502	-	-	-	311 268	
Q3	14 338	91 968	83 909	47 330	1 173	1 977	2 626	506 847 135 108	642 147 149 364	-14 256	-	492 816	-	-	-	311 283	
Q4	14 409	92 003	83 423	46 858	5 155	-988	-1 797	502 301 144 047	646 076 149 608	-5 561	-	496 470	-	-	-		
2017 Q1	313 584	14 351	91 427	84 265	46 762	2 121	1 070	-561	505 187 144 273	649 460 150 889	-6 616	11	498 582	-	-	-	314 804
Q2	14 334	91 876	85 868	47 365	784	-1 580	175	506 273 146 067	652 340 152 256	-6 189	-199	499 885	-	-	-	316 397	
Q3	14 248	91 969	86 111	47 779	-1 464	625	96	507 357 148 859	656 216 153 099	-4 240	-644	502 473	-	-	-	317 486	
Q4	14 229	91 995	86 673	47 971	-2 250	-115	581	508 714 149 018	657 732 152 243	-3 225	-1 002	504 487	-	-	-		
2018 Q1	319 051	14 203	92 152	85 998	47 668	-1 878	-1 561	267	509 793 147 073	656 866 151 341	-4 268	-740	504 785	-	-	-	320 805
Q2	14 121	91 790	85 521	47 459	580	-329	1 058	513 875 145 654	659 529 151 940	-6 286	-747	506 842	-	-	-	322 015	
Q3	14 045	91 726	86 267	47 171	2 410	-540	663	517 126 146 903	664 029 153 018	-6 115	-665	510 346	-	-	-	322 967	
Q4	14 023	92 919	85 712	46 749	4 241	2 430	-963	518 899 149 270	668 169 156 202	-6 932	-485	511 482	-	-	-		
<b>Percentage change, latest year on previous year</b>																	
2015	KGZ5	KH26	KH2I	KG7N	KG7M				KGX9	KH2U	KGW5	KH3N				IHYP	
	2.7	-0.3	1.4	3.4	3.7				2.7	4.4	3.1	5.5				2.3	
2016	3.2	0.8	0.8	2.3	-0.2				2.4	1.0	2.1	3.3				1.8	
2017	2.2	-0.3	-0.2	3.5	1.5				1.4	5.6	2.3	3.5				1.8	
2018	1.8	-1.3	0.4	0.2	-0.4				1.6	0.1	1.3	0.7				1.4	
<b>Percentage change, latest quarter on previous quarter</b>																	
2015 Q3	KGZ6	KH27	KH2J	KG7Q	KG7P				KGY2	KH2V	KGW6	KH3O				IHYQ	
Q4	1.3	-0.9	0.6	-2.1	-2.5				0.8	-1.0	0.4	0.3				0.4	
	0.1	0.2	-0.2	1.8	2.3				1.0	2.0	1.2	2.7				0.7	
2016 Q1	1.1	0.4	0.4	-	-1.7				0.4	-0.9	0.2	-0.4				0.3	
Q2	0.8	0.7	-0.1	1.6	0.9				0.1	0.9	0.3	0.6				0.2	
Q3	1.2	-	-	1.5	1.5				2.2	-3.2	1.1	3.1				0.5	
Q4	-	0.5	-	-0.6	-1.0				-0.9	6.6	0.6	0.2				0.7	
2017 Q1	0.7	-0.4	-0.6	1.0	-0.2				0.6	0.2	0.5	0.9				0.4	
Q2	0.4	-0.1	0.5	1.9	1.3				0.2	1.2	0.4	0.9				0.3	
Q3	0.5	-0.6	0.1	0.3	0.9				0.2	1.9	0.6	0.6				0.5	
Q4	0.3	-0.1	-	0.7	0.4				0.3	0.1	0.2	-0.6				0.4	
2018 Q1	0.5	-0.2	0.2	-0.8	-0.6				0.2	-1.3	-0.1	-0.6				0.1	
Q2	0.5	-0.6	-0.4	-0.6	-0.4				0.8	-1.0	0.4	0.4				0.4	
Q3	0.4	-0.5	-0.1	0.9	-0.6				0.6	0.9	0.7	0.7				0.7	
Q4	0.3	-0.2	1.3	-0.6	-0.9				0.3	1.6	0.6	2.1				0.2	
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>																	
2015 Q3	KGZ7	KH28	KH2K	KG7T	KG7S				KGY3	KH2W	KGW7	KH3P				IHYR	
Q4	3.0	-0.6	1.6	1.3	1.2				2.2	4.8	2.8	4.9				2.1	
	2.8	-0.1	1.8	2.5	2.9				2.2	3.1	2.4	3.0				2.2	
2016 Q1	3.3	0.2	1.7	0.8	-2.1				1.9	1.0	1.7	0.4				2.1	
Q2	3.3	0.4	0.7	1.1	-1.1				2.3	1.1	2.0	3.2				1.7	
Q3	3.2	1.2	0.2	4.9	2.9				3.7	-1.2	2.7	6.1				1.7	
Q4	3.1	1.5	0.4	2.5	-0.4				1.8	3.3	2.1	3.5				1.7	
2017 Q1	2.8	0.7	-0.7	3.5	1.2				2.0	4.4	2.5	4.8				1.8	
Q2	2.3	-0.1	-0.1	3.8	1.6				2.1	4.7	2.7	5.1				1.9	
Q3	1.6	-0.6	-	2.6	0.9				0.1	10.2	2.2	2.5				2.0	
Q4	2.0	-1.2	-	3.9	2.4				1.3	3.5	1.8	1.8				1.6	
2018 Q1	1.7	-1.0	0.8	2.1	1.9				0.9	1.9	1.1	0.3				1.2	
Q2	1.9	-1.5	-0.1	-0.4	0.2				1.5	-0.3	1.1	-0.2				1.4	
Q3	1.8	-1.4	-0.3	0.2	-1.3				1.9	-1.3	1.2	-0.1				1.6	
Q4	1.7	-1.4	1.0	-1.1	-2.5				2.0	0.2	1.6	2.6				1.4	

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

2 Non-profit institutions serving households.

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

4 Quarterly alignment adjustment included in this series.

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

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

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

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

£ million

	Gross operating surplus of corporations										Gross domestic product at market prices	
	Compensation of employees	Private non-financial corporations <sup>2</sup>	Of which alignment adjustment	Financial corporations			Public corporations	Total <sup>3</sup>	Other income <sup>4</sup>	Gross value added at factor cost	Taxes on products & production less subsidies	
				CAEQ	CGBZ	CGBX				CGCB	CMVL	GIXQ
2015	DTWM	CAER	DMUQ	NHCZ	50 341	17 280	413 869	322 906	1 665 234	230 605	—	YBHA
2016	928 459	346 248	—	56 980	17 625	432 307	333 887	1 729 600	239 924	251 970	7 191	1 895 839
2017	963 406	357 702	—	61 705	16 660	448 236	338 295	1 790 468	259 129	259 129	10 110	1 969 524
2018	1 003 937	369 871	—	56 597	10 853	448 822	353 296	1 848 485	—	—	—	2 049 629
	1 046 367	381 372	—	—	—	—	—	—	—	—	—	2 117 724
<b>Seasonally adjusted</b>												
2015 Q3	234 183	86 323	-1 054	10 294	4 400	101 016	81 855	417 054	58 487	—	475 541	
Q4	235 184	83 783	-867	13 693	4 199	101 675	82 382	419 241	58 533	—	477 774	
2016 Q1	233 322	92 810	1 912	13 640	3 929	110 376	82 608	426 306	59 020	—	485 326	
Q2	240 398	86 104	-1 681	14 358	4 943	105 406	83 888	429 692	59 802	—	489 494	
Q3	245 066	84 982	-1 987	15 582	4 428	104 992	83 782	433 840	59 890	—	493 730	
Q4	244 620	93 806	1 756	13 400	4 325	111 533	83 609	439 762	61 212	—	500 974	
2017 Q1	246 675	94 621	2 574	15 450	3 971	114 042	84 194	444 911	61 030	1 087	507 028	
Q2	250 400	89 558	-2 507	15 252	4 752	109 562	84 423	444 385	62 825	1 659	508 869	
Q3	252 155	91 917	-689	14 876	4 365	111 158	84 587	447 900	64 252	2 106	514 258	
Q4	254 707	93 775	622	16 127	3 572	113 474	85 091	453 272	63 863	2 339	519 474	
2018 Q1	257 187	96 448	1 886	14 412	2 703	113 563	86 433	457 183	63 170	2 538	522 891	
Q2	259 569	93 613	-1 637	14 293	2 813	110 719	87 745	458 033	65 786	2 575	526 394	
Q3	263 733	95 347	-703	14 015	2 670	112 032	88 941	464 706	65 192	2 546	532 444	
Q4	265 878	95 964	454	13 877	2 667	112 508	90 177	468 563	64 981	2 451	535 995	
<b>Percentage change, latest year on previous year</b>												
	KGI3	KH59		KH5L	KH53	KH4V	KH6T	KH6N	KH65		IHYM	
2015	3.2	2.4		-15.2	4.4	-0.1	5.6	2.8	2.8		2.8	
2016	3.8	3.3		13.2	2.0	4.5	3.4	3.9	4.0		3.9	
2017	4.2	3.4		8.3	-5.5	3.7	1.3	3.5	5.0		4.1	
2018	4.2	3.1		-8.3	-34.9	0.1	4.4	3.2	2.8		3.3	
<b>Percentage change, latest quarter on previous quarter</b>												
	KGI4	KH5A		KH5M	KH54	KH4W	KH6U	KH6O	KH66		IHYN	
2015 Q3	1.5	-3.7		-15.8	-9.8	-5.3	2.1	-0.1	1.6		0.1	
Q4	0.4	-2.9		33.0	-4.6	0.7	0.6	0.5	0.1		0.5	
2016 Q1	-0.8	10.8		-0.4	-6.4	8.6	0.3	1.7	0.8		1.6	
Q2	3.0	-7.2		5.3	25.8	-4.5	1.5	0.8	1.3		0.9	
Q3	1.9	-1.3		8.5	-10.4	-0.4	-0.1	1.0	0.1		0.9	
Q4	-0.2	10.4		-14.0	-2.3	6.2	-0.2	1.4	2.2		1.5	
2017 Q1	0.8	0.9		15.3	-8.2	2.2	0.7	1.2	-0.3		1.2	
Q2	1.5	-5.4		-1.3	19.7	-3.9	0.3	-0.1	2.9		0.4	
Q3	0.7	2.6		-2.5	-8.1	1.5	0.2	0.8	2.3		1.1	
Q4	1.0	2.0		8.4	-18.2	2.1	0.6	1.2	-0.6		1.0	
2018 Q1	1.0	2.9		-10.6	-24.3	0.1	1.6	0.9	-1.1		0.7	
Q2	0.9	-2.9		-0.8	4.1	-2.5	1.5	0.2	4.1		0.7	
Q3	1.6	1.9		-1.9	-5.1	1.2	1.4	1.5	-0.9		1.1	
Q4	0.8	0.6		-1.0	-0.1	0.4	1.4	0.8	-0.3		0.7	
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>												
	KGI5	KH5B		KH5N	KH55	KH4X	KH6V	KH6P	KH67		IHYO	
2015 Q3	3.5	-1.8		-24.7	5.0	-4.5	6.6	2.0	4.5		2.3	
Q4	3.4	0.3		-10.8	2.9	-1.2	6.1	2.7	2.9		2.8	
2016 Q1	2.2	7.3		-3.5	3.3	5.7	5.2	3.7	5.4		3.9	
Q2	4.2	-3.9		17.5	1.4	-1.2	4.6	2.9	3.9		3.0	
Q3	4.6	-1.6		51.4	0.6	3.9	2.4	4.0	2.4		3.8	
Q4	4.0	12.0		-2.1	3.0	9.7	1.5	4.9	4.6		4.9	
2017 Q1	5.7	2.0		13.3	1.1	3.3	1.9	4.4	3.4		4.5	
Q2	4.2	4.0		6.2	-3.9	3.9	0.6	3.4	5.1		4.0	
Q3	2.9	8.2		-4.5	-1.4	5.9	1.0	3.2	7.3		4.2	
Q4	4.1	-		20.4	-17.4	1.7	1.8	3.1	4.3		3.7	
2018 Q1	4.3	1.9		-6.7	-31.9	-0.4	2.7	2.8	3.5		3.1	
Q2	3.7	4.5		-6.3	-40.8	1.1	3.9	3.1	4.7		3.4	
Q3	4.6	3.7		-5.8	-38.8	0.8	5.1	3.8	1.5		3.5	
Q4	4.4	2.3		-14.0	-25.3	-0.9	6.0	3.4	1.8		3.2	

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

COICOP <sup>1</sup>	UK NATIONAL <sup>2</sup>																						
	Net tourism		Food & drink				Alcohol & tobacco		Clothing & footwear		Housing		Household goods & services			Communication		Recreation & culture		Education		Resta urants & hotels	Miscell aneous
	Total	01	02	03	04	05	06	07	08	09	10	11	12										
ABJQ	ABTF	ZAKV	ZWUM	ZAKX	ZAKZ	ZAVN	ZAVF	ZAWB	ZAWL	ZAWV	ZAWZ	ZWUS	ZAXR	ZAYF									
2015	1 178 915	8 142	1 170 773	97 457	41 154	65 039	319 910	54 439	20 161	157 707	22 339	111 116	21 233	110 760	149 458								
2016	1 235 247	13 435	1 221 812	98 813	41 594	66 139	330 257	59 877	22 096	164 073	23 995	119 124	22 543	116 361	156 940								
2017	1 288 984	13 428	1 275 556	104 018	42 633	70 237	340 631	66 300	24 782	168 592	24 804	125 005	22 902	122 683	162 969								
2018	1 341 849	13 545	1 328 304	107 588	44 858	71 001	352 484	73 668	28 026	176 524	24 385	128 755	23 368	125 098	172 549								
<b>Seasonally adjusted</b>																							
2015 Q3	296 059	1 987	294 072	24 396	10 241	16 506	80 938	13 577	5 065	39 913	5 585	27 963	5 277	27 903	36 708								
Q4	299 266	2 158	297 108	24 560	10 318	16 547	79 978	14 082	5 398	40 328	5 754	28 461	5 555	28 253	37 874								
2016 Q1	303 176	2 748	300 428	24 606	10 309	16 463	81 826	14 454	5 500	40 529	5 877	29 020	5 610	28 330	37 904								
Q2	306 925	3 293	303 632	24 477	10 463	16 218	82 552	14 737	5 458	40 817	5 929	29 647	5 616	28 973	38 745								
Q3	310 953	3 807	307 146	24 864	10 467	16 551	82 394	15 024	5 524	41 230	6 100	30 190	5 665	29 289	39 848								
Q4	314 193	3 587	310 606	24 866	10 355	16 907	83 485	16 662	5 614	41 497	6 089	30 267	5 652	29 769	40 443								
2017 Q1	318 968	3 477	315 491	25 415	10 463	17 212	83 834	15 911	5 896	42 905	6 098	31 045	5 681	30 260	40 771								
Q2	320 806	3 237	317 569	25 861	10 722	17 557	84 850	16 468	6 207	41 190	6 186	31 169	5 710	30 593	41 056								
Q3	322 838	3 250	319 588	26 192	10 691	17 762	85 693	16 892	6 273	41 878	6 269	31 258	5 741	30 895	40 044								
Q4	326 372	3 464	322 908	26 550	10 757	17 706	86 254	17 029	6 406	42 619	6 251	31 533	5 770	30 935	41 098								
2018 Q1	330 889	3 467	327 422	26 742	10 903	17 564	87 237	17 856	6 730	43 561	6 136	31 609	5 799	30 973	42 312								
Q2	333 979	3 314	330 665	26 825	11 210	17 696	87 301	18 297	7 006	44 511	6 051	31 961	5 828	31 155	42 824								
Q3	336 985	3 469	333 516	26 976	11 298	17 840	88 433	18 575	7 124	44 066	6 065	32 504	5 856	31 280	43 499								
Q4	339 996	3 295	336 701	27 045	11 447	17 901	89 513	18 940	7 166	44 386	6 133	32 681	5 885	31 690	43 914								
<b>Percentage change, latest year on previous year</b>																							
KGY7	KG6U	KG9N	KGF3	KGF9	KGG7	KGH5	KGI6	KGJ4	KGK2	KGK8	KGB2	KGC6	KGE2										
2015	3.2	3.1	-0.1	-2.2	5.5	3.9	6.2	6.1	0.9	6.5	4.4	7.5	3.7	2.3									
2016	4.8	4.4	1.4	1.1	1.7	3.2	10.0	9.6	4.0	7.4	7.2	6.2	5.1	5.0									
2017	4.4	4.4	5.3	2.5	6.2	3.1	10.7	12.2	2.8	3.4	4.9	1.6	5.4	3.8									
2018	4.1	4.1	3.4	5.2	1.1	3.5	11.1	13.1	4.7	-1.7	3.0	2.0		5.9									
<b>Percentage change, quarter on previous quarter</b>																							
KGY8	KG74	KG9R	KGF4	KGG2	KGG8	KGH6	KGI7	KGJ5	KGK3	KGK9	KGB3	KGC7	KGE3										
2015 Q3	0.9	0.9	0.2	0.4	1.4	1.3	1.5	2.2	1.6	0.7	1.1	1.7	-2.0										
Q4	1.1	1.0	0.7	0.8	0.2	-1.2	3.7	6.6	1.0	3.0	1.8	5.3	1.3	3.2									
2016 Q1	1.3	1.1	0.2	-0.1	-0.5	2.3	2.6	1.9	0.5	2.1	2.0	1.0	0.3	0.1									
Q2	1.2	1.1	-0.5	1.5	-1.5	0.9	2.0	-0.8	0.7	0.9	2.2	0.1	2.3	2.2									
Q3	1.3	1.2	1.6	-	2.1	-0.2	1.9	1.2	1.0	2.9	1.8	0.9	1.1	2.8									
Q4	1.0	1.1	-	-1.1	2.2	1.3	4.2	1.6	0.6	-0.2	0.3	-0.2	1.6	1.5									
2017 Q1	1.5	1.6	2.2	1.0	1.8	0.4	1.6	5.0	3.4	0.1	2.6	0.5	1.6	0.8									
Q2	0.6	0.7	1.8	2.5	2.0	1.2	3.5	5.3	-4.0	1.4	0.4	0.5	1.1	0.7									
Q3	0.6	0.6	1.3	-0.3	1.2	1.0	2.6	1.1	1.7	1.3	0.3	0.5	1.0	-2.5									
Q4	1.1	1.0	1.4	0.6	-0.3	0.7	0.8	2.1	1.8	-0.3	0.9	0.5	0.1	2.6									
2018 Q1	1.4	1.4	0.7	1.4	-0.8	1.1	4.9	5.1	2.2	-1.8	0.2	0.5	0.1	3.0									
Q2	0.9	1.0	0.3	2.8	0.8	0.1	2.5	4.1	2.2	-1.4	1.1	0.5	0.6	1.2									
Q3	0.9	0.9	0.6	0.8	0.8	1.3	1.5	1.7	-1.0	0.2	1.7	0.5	0.4	1.6									
Q4	0.9	1.0	0.3	1.3	0.3	1.2	2.0	0.6	0.7	1.1	0.5	0.5	1.3	1.0									
<b>Percentage change, quarter on corresponding quarter of previous year</b>																							
KGY9	KG7C	KG9V	KGF5	KGG3	KGG9	KGH7	KGI8	KGJ6	KGK4	KGL2	KGB4	KGC8	KGE4										
2015 Q3	3.0	2.7	-0.4	-2.6	6.2	4.5	4.5	8.1	0.9	6.3	3.4	6.0	4.4	-1.1									
Q4	3.6	3.5	0.7	-1.3	5.7	3.2	7.5	14.3	2.8	7.8	5.8	9.1	5.2	0.5									
2016 Q1	4.5	4.3	1.8	-0.8	4.8	3.4	7.8	16.0	6.2	7.7	7.1	8.3	4.3	1.3									
Q2	4.6	4.1	0.6	2.5	-0.3	3.4	10.2	10.2	3.9	6.9	7.5	7.5	5.6	3.4									
Q3	5.0	4.4	1.9	2.2	0.3	1.8	10.7	9.1	3.3	9.2	8.0	7.4	5.0	8.6									
Q4	5.0	4.5	1.2	0.4	2.2	4.4	11.2	4.0	2.9	5.8	6.3	1.7	5.4	6.8									
2017 Q1	5.2	5.0	3.3	1.5	4.5	2.5	10.1	7.2	5.9	3.8	7.0	1.3	6.8	7.6									
Q2	4.5	4.6	5.7	2.5	8.3	2.8	11.7	13.7	0.9	4.3	5.1	1.7	5.6	6.0									
Q3	3.8	4.1	5.3	2.1	7.3	4.0	12.4	13.6	1.6	2.8	3.5	1.3	5.5	0.5									
Q4	3.9	4.0	6.8	3.9	4.7	3.3	8.7	14.1	2.7	2.7	4.2	2.1	3.9	1.6									
2018 Q1	3.7	3.8	5.2	4.2	2.0	4.1	12.2	14.1	1.5	0.6	1.8	2.1	2.4	3.8									
Q2	4.1	4.1	3.7	4.6	0.8	2.9	11.1	12.9	8.1	-2.2	2.5	2.1	1.8	4.3									
Q3	4.4	4.4	3.0	5.7	0.4	3.2	10.0	13.6	5.2	-3.3	4.0	2.0	1.2	8.6									
Q4	4.2	4.3	1.9	6.4	1.1	3.8	11.2	11.9	4.1	-1.9	3.6	2.0	2.4	6.9									

1 ESA 10 Classification of Individual Consumption by Purpose.

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

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

# E2 Household final consumption expenditure (goods and services)

## Current prices

£ million

COICOP <sup>1</sup>	UK NATIONAL <sup>2</sup>								
	UK DOMESTIC <sup>3</sup>								
	Total		Net tourism		Total		Durable goods	Semi-durable goods	Non-durable goods
Total	ABJQ	ABTF	ZAKV	UTIF	UTIB	UTIR	UTIJ	UTIN	
2015	1 178 915	8 142	1 170 773	485 138	112 074	120 697	252 367	685 635	
2016	1 235 247	13 435	1 221 812	502 840	124 912	123 496	254 432	718 972	
2017	1 288 984	13 428	1 275 556	533 793	134 020	132 597	267 176	741 763	
2018	1 341 849	13 545	1 328 304	558 707	140 399	136 824	281 484	769 597	
<b>Seasonally adjusted</b>									
2015 Q3	296 059	1 987	294 072	122 391	28 402	30 463	63 526	171 681	
Q4	299 266	2 158	297 108	122 172	29 152	31 033	61 987	174 936	
2016 Q1	303 176	2 748	300 428	124 328	30 621	30 717	62 990	176 100	
Q2	306 925	3 293	303 632	124 933	31 070	30 614	63 249	178 699	
Q3	310 953	3 807	307 146	125 853	31 442	30 881	63 530	181 293	
Q4	314 193	3 587	310 606	127 726	31 779	31 284	64 663	182 880	
2017 Q1	318 968	3 477	315 491	131 417	33 500	32 409	65 508	184 074	
Q2	320 806	3 237	317 569	132 023	32 663	32 987	66 373	185 546	
Q3	322 838	3 250	319 588	134 225	33 817	33 394	67 014	185 363	
Q4	326 372	3 464	322 908	136 128	34 040	33 807	68 281	186 780	
2018 Q1	330 889	3 467	327 422	137 824	34 810	33 658	69 356	189 598	
Q2	333 979	3 314	330 665	139 042	35 229	33 955	69 858	191 623	
Q3	336 985	3 469	333 516	140 057	34 712	34 515	70 830	193 459	
Q4	339 996	3 295	336 701	141 784	35 648	34 696	71 440	194 917	
<b>Percentage change, latest year on previous year</b>									
	KGY7		KG6U	KHC9	KHB5	KHH5	KHE5	KHF9	
2015	3.2		3.1	1.6	6.5	4.9	-1.8	4.1	
2016	4.8		4.4	3.6	11.5	2.3	0.8	4.9	
2017	4.4		4.4	6.2	7.3	7.4	5.0	3.2	
2018	4.1		4.1	4.7	4.8	3.2	5.4	3.8	
<b>Percentage change, quarter on previous quarter</b>									
	KGY8		KG74	KHD2	KHB6	KHH6	KHE6	KHG2	
2015 Q3	0.9		0.9	1.1	2.6	1.8	0.1	0.7	
Q4	1.1		1.0	-0.2	2.6	1.9	-2.4	1.9	
2016 Q1	1.3		1.1	1.8	5.0	-1.0	1.6	0.7	
Q2	1.2		1.1	0.5	1.5	-0.3	0.4	1.5	
Q3	1.3		1.2	0.7	1.2	0.9	0.4	1.5	
Q4	1.0		1.1	1.5	1.1	1.3	1.8	0.9	
2017 Q1	1.5		1.6	2.9	5.4	3.6	1.3	0.7	
Q2	0.6		0.7	0.5	-2.5	1.8	1.3	0.8	
Q3	0.6		0.6	1.7	3.5	1.2	1.0	-0.1	
Q4	1.1		1.0	1.4	0.7	1.2	1.9	0.8	
2018 Q1	1.4		1.4	1.2	2.3	-0.4	1.6	1.5	
Q2	0.9		1.0	0.9	1.2	0.9	0.7	1.1	
Q3	0.9		0.9	0.7	-1.5	1.6	1.4	1.0	
Q4	0.9		1.0	1.2	2.7	0.5	0.9	0.8	
<b>Percentage change, quarter on corresponding quarter of previous year</b>									
	KGY9		KG7C	KHD3	KHB7	KHH7	KHE7	KHG3	
2015 Q3	3.0		2.7	1.9	7.8	4.4	-1.7	3.3	
Q4	3.6		3.5	2.0	8.0	6.8	-2.7	4.7	
2016 Q1	4.5		4.3	4.0	14.0	5.0	-0.7	4.5	
Q2	4.6		4.1	3.2	12.3	2.3	-0.3	4.8	
Q3	5.0		4.4	2.8	10.7	1.4	-	5.6	
Q4	5.0		4.5	4.5	9.0	0.8	4.3	4.5	
2017 Q1	5.2		5.0	5.7	9.4	5.5	4.0	4.5	
Q2	4.5		4.6	5.7	5.1	7.8	4.9	3.8	
Q3	3.8		4.1	6.7	7.6	8.1	5.5	2.2	
Q4	3.9		4.0	6.6	7.1	8.1	5.6	2.1	
2018 Q1	3.7		3.8	4.9	3.9	3.9	5.9	3.0	
Q2	4.1		4.1	5.3	7.9	2.9	5.3	3.3	
Q3	4.4		4.4	4.3	2.6	3.4	5.7	4.4	
Q4	4.2		4.3	4.2	4.7	2.6	4.6	4.4	

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

COICOP <sup>1</sup>	UK NATIONAL <sup>2</sup>															UK DOMESTIC <sup>3</sup>															
	Net tourism		Food & drink				Alcohol & tobacco		Clothing & footwear		Housing		Household goods & services			Communication		Recreation & culture		Education		Restaurants & hotels		Miscellaneous							
	Total	01	02	03	04	05	06	07	08	09	10	11	12																		
ABJR	1 196 525	11 989	1 184 499	95 127	42 670	65 136	326 862	54 448	20 217	158 270	22 948	111 773	22 238	113 453	151 587	ZAKW	ZWUN	ZAKY	ZALA	ZAVO	ZAWV	ZAWC	ZAWM	ZAWW	ZAXA	ZWUT	ZAXS	ZAYG			
2015	1 235 247	13 435	1 221 812	98 813	41 594	66 139	330 257	59 877	22 096	164 073	23 995	119 124	22 543	116 361	156 940																
2016	1 262 271	11 416	1 250 855	101 624	40 872	68 273	334 671	64 344	24 236	164 619	24 376	122 723	22 053	119 092	163 972																
2017	1 284 838	12 360	1 272 478	103 068	40 669	68 911	340 219	70 421	26 921	165 036	23 712	123 809	21 866	118 512	169 334																
<b>Seasonally adjusted</b>																															
2015 Q3	301 636	3 643	298 001	23 859	10 630	16 520	82 330	13 555	5 059	40 037	5 754	28 167	5 575	28 512	38 059	Q4	301 804	2 889	298 897	24 151	10 599	16 555	80 968	14 124	5 397	40 331	5 848	28 653	5 627	28 688	37 953
2016 Q1	305 101	3 191	301 900	24 491	10 425	16 397	82 354	14 412	5 507	40 857	5 956	29 155	5 680	28 603	38 067	Q2	307 595	3 527	304 074	24 488	10 554	16 277	82 738	14 782	5 473	40 841	5 954	29 637	5 689	29 047	38 618
2017 Q3	311 268	3 919	307 367	24 930	10 406	16 597	82 078	15 110	5 569	41 383	6 049	30 070	5 691	29 191	40 286	Q4	311 283	2 798	308 471	24 904	10 209	16 868	83 087	15 573	5 547	40 992	6 036	30 262	5 483	29 520	39 969
2017 Q1	313 584	2 778	310 806	25 178	10 205	16 952	82 905	15 632	5 822	41 860	6 033	30 648	5 512	29 482	40 577	Q2	314 804	2 789	312 015	25 343	10 306	17 071	83 549	16 067	6 073	40 354	6 114	30 648	5 539	29 809	41 142
2017 Q3	316 397	2 830	313 567	25 531	10 193	17 121	83 972	16 228	6 128	41 181	6 122	30 645	5 556	29 944	40 946	Q4	317 486	3 019	314 467	25 572	10 168	17 129	84 245	16 417	6 213	41 224	6 107	30 782	5 446	29 857	41 307
2018 Q1	319 051	3 178	315 873	25 682	10 063	16 955	84 876	17 045	6 519	41 207	6 056	30 646	5 473	29 530	41 821	Q2	320 805	3 019	317 786	25 733	10 243	17 127	84 615	17 434	6 714	41 827	5 932	30 830	5 500	29 653	42 178
2018 Q3	322 015	3 259	318 756	25 789	10 201	17 350	85 109	17 746	6 826	40 881	5 859	31 122	5 508	29 475	42 890	Q4	322 967	2 904	320 063	25 864	10 162	17 479	85 619	18 196	6 862	41 121	5 865	31 211	5 385	29 854	42 445
<b>Percentage change, latest year on previous year</b>																															
KGZ5	2.7		KG7O	2.3	2.5	KGF6	-3.1	KGG4	5.2	KGH2	1.4	KGH8	6.2	KGI9	4.2	KGJ7	2.8	KGK5	5.1	KGL3	5.1	KGB8	-1.1	KGD4	1.2	KGE8					
2015	3.2			3.2	3.9	-2.5	1.5	1.0	1.0	10.0	9.3	3.7	4.6	4.2	6.6	5.1	5.1	5.1	5.1	5.1	5.1	5.1	1.2	2.6	3.5						
2016	2.2			2.4	2.8	-1.7	3.2	1.3	7.5	9.7	0.3	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.3	4.5							
2017	1.8			1.7	1.4	-0.5	0.9	1.7	9.4	11.1	0.3	-2.7	0.9	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.5	3.3							
<b>Percentage change, quarter on previous quarter</b>																															
KGZ6	1.3		KG7R	1.0	0.8	KGF7	-0.2	KGG5	1.6	KGH3	0.5	KGH9	1.0	KGJ2	1.6	KGJ8	1.6	KGK6	0.6	KGL4	1.3	KGB9	0.6	KGD5	1.2	KGE9					
2015 Q3	0.1			0.3	1.2	-0.3	0.2	-1.7	4.2	6.7	0.7	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.9	0.6	-0.3						
2016 Q1	1.1			0.7	1.4	-1.6	-1.0	1.7	2.0	2.0	1.3	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	0.2	0.5	0.3	0.3					
2016 Q2	0.8			1.2	1.8	-1.2	-0.7	0.5	2.6	-0.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	4.3							
2016 Q3	1.2			1.1	1.8	-1.4	2.0	-0.8	2.2	1.8	1.3	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	-0.2	0.6	-3.7	1.1					
2016 Q4	-			0.4	-0.1	-1.9	1.6	-1.2	3.1	-0.4	-0.9	-0.2	-0.9	-0.2	-0.9	-0.2	-0.9	-0.2	-0.9	-0.2	-0.9	-0.2	-0.9	-0.2	-0.8	-0.8					
2017 Q1	0.7			0.8	1.1	-	0.5	-0.2	0.4	5.0	2.1	-	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.5	-0.1	1.5						
2017 Q2	0.4			0.4	0.7	1.0	0.7	0.8	2.8	4.3	-3.6	1.3	-	0.5	-	0.5	-	0.5	-	0.5	-	0.5	1.1	1.4							
2017 Q3	0.5			0.5	0.7	-1.1	0.3	0.5	1.0	0.9	2.0	0.1	-	0.3	-	0.3	-	0.3	-	0.3	-	0.3	-	0.5	-0.5						
2017 Q4	0.3			0.3	0.2	-0.2	-	0.3	1.2	1.4	0.1	-0.2	0.4	-0.2	0.4	-0.2	0.4	-0.2	0.4	-0.2	0.4	-0.2	-0.3	0.9							
2018 Q1	0.5			0.4	0.4	-1.0	-1.0	0.7	3.8	4.9	-	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	0.5	-1.1	1.2						
2018 Q2	0.5			0.6	0.2	1.8	1.0	-0.3	2.3	3.0	1.5	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	0.6	0.5	0.4	0.9					
2018 Q3	0.4			0.3	0.2	-0.4	1.3	0.6	1.8	1.7	-2.3	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	0.9	0.1	-0.6	1.7					
2018 Q4	0.3			0.4	0.3	-0.4	0.7	0.6	2.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.3	-2.2	1.3	-1.0					
<b>Percentage change, quarter on corresponding quarter of previous year</b>																															
KGZ7	3.0		KG7U	2.2	2.2	KGA6	-3.5	KGF8	5.6	KGG6	2.0	KGH4	4.8	KGJ3	5.9	KGJ9	3.4	KGK7	4.9	KGL5	4.7	KGC2	-3.4	KGD6	2.1	KGF2					
2015 Q3	2.8			2.6	3.4	-2.1	5.4	0.5	7.1	12.8	3.2	5.1	6.4	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	2.9	-0.5						
2016 Q1	3.3			3.2	4.4	-3.4	3.8	0.8	8.0	15.2	6.2	5.8	7.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	1.9	0.5						
2016 Q2	3.3			3.0	3.5	-0.9	0.1	1.0	10.1	9.9	3.6	4.1	6.6	2.7	3.1	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.1	2.5						
2016 Q3	3.2			3.1	4.5	-2.1	0.5	-0.3	11.5	10.1	3.4	5.1	6.8	2.1	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	5.9							
2016 Q4	3.1			3.2	3.1	-3.7	1.9	2.6	10.3	2.8	1.6	3.2	5.6	-2.6	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	5.3						
2017 Q1	2.8			2.9	2.8	-2.1	3.4	0.7	8.5	5.7	2.5	1.3	5.1	-3.0	3.1	6.6															
2017 Q2	2.3			2.6	3.5	-2.3	4.9	1.0	8.7	11.0	-1.2	2.7	3.4	-2.6	2.6	6.5															
2017 Q3	1.6			2.0	2.4	-2.0	3.2	2.3	7.4	10.0	-0																				

# E4 Household final consumption expenditure (goods and services)

## Chained volume measures

Reference year 2016, £ million

COICOP <sup>1</sup>	UK NATIONAL <sup>2</sup>							
	UK DOMESTIC <sup>3</sup>							
	Total		Net tourism		Total		Durable goods	Semi-durable goods
Total	ABJR	ABTH	ZAKW	UTIH	UTID	UTIT	UTIL	UTIP
2015	1 196 525	11 989	1 184 499	482 224	112 256	120 349	249 537	702 436
2016	1 235 247	13 435	1 221 812	502 840	124 912	123 496	254 432	718 972
2017	1 262 271	11 416	1 250 855	519 488	130 334	129 739	259 415	731 367
2018	1 284 838	12 360	1 272 478	531 694	135 014	132 361	264 319	740 784
<b>Seasonally adjusted</b>								
2015 Q3	301 636	3 643	298 001	121 689	28 450	30 388	62 833	176 325
Q4	301 804	2 889	298 897	121 955	29 087	30 881	61 990	176 974
2016 Q1	305 101	3 191	301 900	124 271	30 355	30 579	63 334	177 633
Q2	307 595	3 527	304 074	125 108	31 045	30 638	63 420	178 972
Q3	311 268	3 919	307 367	126 036	31 612	30 982	63 444	181 345
Q4	311 283	2 798	308 471	127 425	31 900	31 297	64 234	181 022
2017 Q1	313 584	2 778	310 806	128 978	32 958	31 957	64 063	181 828
Q2	314 804	2 789	312 015	128 931	31 748	32 410	64 773	183 084
Q3	316 397	2 830	313 567	130 217	32 646	32 541	65 030	183 350
Q4	317 486	3 019	314 467	131 362	32 982	32 831	65 549	183 105
2018 Q1	319 051	3 178	315 873	131 870	33 354	32 641	65 875	184 003
Q2	320 805	3 019	317 786	132 779	33 850	32 939	65 990	185 007
Q3	322 015	3 259	318 756	132 811	33 354	33 336	66 121	185 945
Q4	322 967	2 904	320 063	134 234	34 456	33 445	66 333	185 829
<b>Percentage change, year on previous year</b>								
	KGZ5		KG7O	KHD7	KHC3	KHI3	KHF3	KHG7
2015	2.7		2.3	3.7	8.2	5.1	1.2	1.2
2016	3.2		3.2	4.3	11.3	2.6	2.0	2.4
2017	2.2		2.4	3.3	4.3	5.1	2.0	1.7
2018	1.8		1.7	2.3	3.6	2.0	1.9	1.3
<b>Percentage change, quarter on previous quarter</b>								
	KGZ6		KG7R	KHD8	KHC4	KHI4	KHF4	KHG8
2015 Q3	1.3		1.0	1.3	2.2	1.7	0.7	0.7
Q4	0.1		0.3	0.2	2.2	1.6	-1.3	0.4
2016 Q1	1.1		1.0	1.9	4.4	-1.0	2.2	0.4
Q2	0.8		0.7	0.7	2.3	0.2	0.1	0.8
Q3	1.2		1.1	0.7	1.8	1.1	-	1.3
Q4	-		0.4	1.1	0.9	1.0	1.2	-0.2
2017 Q1	0.7		0.8	1.2	3.3	2.1	-0.3	0.4
Q2	0.4		0.4	-	-3.7	1.4	1.1	0.7
Q3	0.5		0.5	1.0	2.8	0.4	0.4	0.1
Q4	0.3		0.3	0.9	1.0	0.9	0.8	-0.1
2018 Q1	0.5		0.4	0.4	1.1	-0.6	0.5	0.5
Q2	0.5		0.6	0.7	1.5	0.9	0.2	0.5
Q3	0.4		0.3	-	-1.5	1.2	0.2	0.5
Q4	0.3		0.4	1.1	3.3	0.3	0.3	-0.1
<b>Percentage change, quarter on corresponding quarter of previous year</b>								
	KGZ7		KG7U	KHD9	KHC5	KHI5	KHF5	KHG9
2015 Q3	3.0		2.2	4.0	9.2	4.9	1.5	0.8
Q4	2.8		2.6	3.7	8.4	6.8	0.3	1.8
2016 Q1	3.3		3.2	4.9	12.9	4.7	1.6	2.0
Q2	3.3		3.0	4.2	11.6	2.5	1.7	2.2
Q3	3.2		3.1	3.6	11.1	2.0	1.0	2.8
Q4	3.1		3.2	4.5	9.7	1.3	3.6	2.3
2017 Q1	2.8		2.9	3.8	8.6	4.5	1.2	2.4
Q2	2.3		2.6	3.1	2.3	5.8	2.1	2.3
Q3	1.6		2.0	3.3	3.3	5.0	2.5	1.1
Q4	2.0		1.9	3.1	3.4	4.9	2.0	1.2
2018 Q1	1.7		1.6	2.2	1.2	2.1	2.8	1.2
Q2	1.9		1.8	3.0	6.6	1.6	1.9	1.1
Q3	1.8		1.7	2.0	2.2	2.4	1.7	1.4
Q4	1.7		1.8	2.2	4.5	1.9	1.2	1.5

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>		non-produced assets		Dwellings <sup>4</sup>	non-produced assets	Transport		Other machinery and equipment <sup>3</sup>		Other buildings and structures <sup>5</sup>		Intellectual Property Products	
			Costs of transfer of ownership of non-produced assets	Costs of transfer of ownership of dwellings <sup>4</sup>	Total	Equipment	Dwellings <sup>4</sup>	Total	Transport equipment	Other machinery and equipment <sup>3</sup>	Dwellings <sup>4</sup>	Other buildings and structures <sup>5</sup>	Dwellings <sup>4</sup>	Other buildings and structures <sup>5</sup>	Total	Total
2015	NPEK	RPZG	L62R	L62S	L62T	L62U	NPQS	TPX	TLPW	GGAE	EQED	TLPK	NPQS			
2015	184 620	50 998	8 128	687	59 817	15 181	319 432	22 382	62 290	67 946	107 618	59 195	319 432			
2016	187 032	52 100	8 403	726	66 169	17 013	331 442	25 856	61 628	74 573	108 718	60 669	331 442			
2017	194 886	55 093	8 412	773	73 987	18 142	351 293	22 768	66 065	82 400	117 206	62 854	351 293			
2018	197 237	57 252	4 525	762	81 640	17 856	359 272	20 427	65 243	86 164	121 653	65 785	359 272			
<b>Seasonally adjusted</b>																
2015 Q3	45 461	12 360	2 055	177	15 047	3 934	79 035	4 866	15 397	17 103	26 769	14 901	79 035			
Q4	46 409	12 294	1 989	176	15 533	4 109	80 509	5 351	15 870	17 521	26 897	14 868	80 509			
2016 Q1	45 850	12 128	2 046	150	15 969	4 525	80 667	6 286	14 902	18 015	26 514	14 950	80 667			
Q2	46 690	13 111	2 104	229	16 209	4 091	82 434	6 347	15 804	18 313	26 820	15 150	82 434			
Q3	47 583	13 460	2 115	168	16 623	4 045	83 994	7 169	15 346	18 738	27 534	15 208	83 994			
Q4	46 909	13 401	2 138	179	17 368	4 352	84 347	6 054	15 576	19 507	27 850	15 361	84 347			
2017 Q1	47 313	13 404	2 169	165	18 017	4 511	85 579	5 862	15 446	20 203	28 938	15 130	85 579			
Q2	48 614	13 995	2 317	223	18 050	4 459	87 658	6 119	16 666	20 346	29 009	15 518	87 658			
Q3	49 174	13 793	2 164	195	18 453	4 615	88 394	5 650	16 658	20 591	29 594	15 901	88 394			
Q4	49 785	13 901	1 762	190	19 467	4 557	89 662	5 137	17 295	21 260	29 665	16 305	89 662			
2018 Q1	49 497	14 033	1 397	172	19 873	4 509	89 481	5 716	16 565	21 269	29 526	16 405	89 481			
Q2	49 592	13 698	1 012	211	20 440	4 353	89 306	5 248	16 300	21 452	29 779	16 527	89 306			
Q3	49 147	14 667	1 077	191	20 735	4 478	90 295	4 703	16 423	21 812	30 901	16 456	90 295			
Q4	49 001	14 854	1 039	188	20 592	4 516	90 190	4 760	15 955	21 631	31 447	16 397	90 190			
<b>Percentage change, latest year on previous year</b>																
2015	KG6N	KH7N	L64E	L64H	L64K	L64N	KG6O	KG6T	KG6S	KH7X	KH7W	KG6R	KG6O			
	5.1	0.4	-2.0	4.7	8.1	0.8	4.5	36.1	-0.3	6.8	4.9	-2.3	4.5			
2016	1.3	2.2	3.4	5.7	10.6	12.1	3.8	15.5	-1.1	9.8	1.0	2.5	3.8			
2017	4.2	5.7	0.1	6.5	11.8	6.6	6.0	-11.9	7.2	10.5	7.8	3.6	6.0			
2018	1.2	3.9	-46.2	-1.4	10.3	-1.6	2.3	-10.3	-1.2	4.6	3.8	4.7	2.3			
<b>Percentage change, latest quarter on previous quarter</b>																
2015 Q3	KG6V	KH7P	L64F	L64I	L64L	L64O	KG6W	KG73	KG72	KH83	KH82	KG6Z	KG6W			
Q4	-1.9	-4.9	9.3	14.2	-0.7	4.6	-1.5	-11.3	-1.7	0.4	-1.1	-0.9	-0.2	1.9		
2016 Q1	-1.2	-1.4	2.9	-14.8	2.8	10.1	0.2	17.5	-6.1	2.8	-1.4	0.6	0.2			
Q2	1.8	8.1	2.8	52.7	1.5	-9.6	2.2	1.0	6.1	1.7	1.2	1.3	2.2			
Q3	1.9	2.7	0.5	-26.6	2.6	-1.1	1.9	13.0	-2.9	2.3	2.7	0.4	1.9			
Q4	-1.4	-0.4	1.1	6.5	4.5	7.6	4.0	-15.6	1.5	4.1	1.1	0.4	0.4			
2017 Q1	0.9	-	1.4	-7.8	3.7	3.7	1.5	-3.2	-0.8	3.6	3.9	-1.5	1.5			
Q2	2.7	4.4	6.8	35.2	0.2	-1.2	2.4	4.4	7.9	0.7	0.2	2.6	2.4			
Q3	1.2	-1.4	-6.6	-12.6	2.2	3.5	0.8	-7.7	-	1.2	2.0	2.5	0.8			
Q4	1.2	0.8	-18.6	-2.6	5.5	-1.3	1.4	-9.1	3.8	3.2	0.2	2.5	1.4			
2018 Q1	-0.6	0.9	-20.7	-9.5	2.1	-1.1	-0.2	11.3	-4.2	-	-0.5	0.6	-0.2			
Q2	0.2	-2.4	-27.6	22.7	2.9	-3.5	-0.2	-8.2	-1.6	0.9	0.9	0.7	-0.2			
Q3	-0.9	7.1	6.4	-9.5	1.4	2.9	1.1	-10.4	0.8	1.7	3.8	-0.4	1.1			
Q4	-0.3	1.3	-3.5	-1.6	-0.7	0.8	-0.1	1.2	-2.8	-0.8	1.8	-0.4	-0.1			
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>																
2015 Q3	KG75	KH7R	L64G	L64J	L64M	L64P	KG76	KG7B	KG7A	KH87	KH86	KG79	KG76			
Q4	3.2	-0.8	-5.4	4.1	6.6	0.5	2.8	11.6	-2.8	5.0	5.2	-0.3	2.8			
2016 Q1	-1.2	-9.1	-7.2	-16.2	13.4	34.0	1.3	-5.8	-3.0	10.6	-1.4	3.8	1.3			
Q2	0.8	0.8	11.9	47.7	7.0	8.8	2.7	15.6	0.9	7.5	-0.9	0.8	2.7			
Q3	4.7	8.9	2.9	-5.1	10.5	2.8	6.3	47.3	-0.3	9.6	2.9	2.1	6.3			
Q4	1.1	9.0	7.5	1.7	11.8	5.9	4.8	13.1	-1.9	11.3	3.5	3.3	4.8			
2017 Q1	3.2	10.5	6.0	10.0	12.8	-0.3	6.1	-6.7	3.7	12.1	9.1	1.2	6.1			
Q2	4.1	6.7	10.1	-2.6	11.4	9.0	6.3	-3.6	5.5	11.1	8.2	2.4	6.3			
Q3	3.3	2.5	2.3	16.1	11.0	14.1	5.2	-21.2	8.5	9.9	7.5	4.6	5.2			
Q4	6.1	3.7	-17.6	6.1	12.1	4.7	6.3	-15.1	11.0	9.0	6.5	6.1	6.3			
2018 Q1	4.6	4.7	-35.6	4.2	10.3	-	4.6	-2.5	7.2	5.3	2.0	8.4	4.6			
Q2	2.0	-2.1	-56.3	-5.4	13.2	-2.4	1.9	-14.2	-2.2	5.4	2.7	6.5	1.9			
Q3	-0.1	6.3	-50.2	-2.1	12.4	-3.0	2.2	-16.8	-1.4	5.9	4.4	3.5	2.2			
Q4	-1.6	6.9	-41.0	-1.1	5.8	-0.9	0.6	-7.3	-7.7	1.7	6.0	0.6	0.6			

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									
	Business investment <sup>1</sup>	General government	Dwellings <sup>4</sup>		non-produced assets		Dwellings <sup>4</sup>	non-produced assets		Transport Total equipment	Other machinery and equipment <sup>3</sup>	Dwellings <sup>4</sup>	Other buildings and structures <sup>5</sup>	Intellectual Property Products	Total	
			NPEL	DLWF	L634	L635	L636	L637	NPQT	DLWL	DLWO	DFEG	DLWT	EQDO	NPQT	
2015	187 355	51 660	8 241	694	60 677	15 347	324 016	21 785	64 208	68 917	109 223	60 130	324 016			
2016	187 031	52 100	8 404	726	66 170	17 013	331 442	25 854	61 628	74 572	108 718	60 669	331 442			
2017	189 877	54 029	8 202	767	72 053	17 990	342 917	23 250	61 854	80 255	115 143	62 415	342 917			
2018	189 047	54 861	4 279	738	77 262	17 311	343 498	19 790	61 445	81 542	116 329	64 392	343 498			
<b>Seasonally adjusted</b>																
2015 Q3	45 985	12 562	2 080	178	15 235	3 966	80 017	4 770	15 768	17 315	27 144	15 112	80 017			
Q4	47 023	12 390	2 008	177	15 687	4 140	81 427	5 185	16 444	17 694	27 135	15 063	81 427			
2016 Q1	46 221	12 243	2 062	150	16 191	4 543	81 415	6 230	15 135	18 253	26 771	15 042	81 415			
Q2	46 622	13 277	2 110	229	16 369	4 095	82 695	6 272	15 744	18 478	27 040	15 176	82 695			
Q3	47 330	13 605	2 109	168	16 674	4 024	83 909	7 151	15 167	18 783	27 600	15 174	83 909			
Q4	46 858	12 975	2 123	179	16 936	4 351	83 423	6 201	15 582	19 058	27 307	15 277	83 423			
2017 Q1	46 762	12 921	2 161	165	17 733	4 524	84 265	6 171	14 807	19 774	28 415	15 098	84 265			
Q2	47 365	13 892	2 267	222	17 673	4 449	85 868	6 280	15 616	19 890	28 675	15 407	85 868			
Q3	47 779	13 631	2 078	193	17 889	4 541	86 111	5 719	15 535	20 057	29 038	15 762	86 111			
Q4	47 971	13 585	1 696	187	18 758	4 476	86 673	5 080	15 896	20 534	29 015	16 148	86 673			
2018 Q1	47 668	13 369	1 335	167	19 039	4 420	85 998	5 555	15 406	20 374	28 544	16 119	85 998			
Q2	47 459	13 248	960	204	19 427	4 223	85 521	5 078	15 390	20 388	28 598	16 067	85 521			
Q3	47 171	14 084	1 011	185	19 496	4 320	86 267	4 582	15 533	20 507	29 523	16 122	86 267			
Q4	46 749	14 160	973	182	19 300	4 348	85 712	4 575	15 116	20 273	29 664	16 084	85 712			
<b>Percentage change, latest year on previous year</b>																
	KG7M	KH92	L64T	L64W	L654	L64Z	KG7N	KH95	KH96	KH8Y	KH97	KH98	KG7N			
2015	3.7	-0.7	-2.2	3.4	7.8	-0.4	3.4	37.1	-3.8	6.5	4.2	-3.1	3.4			
2016	-0.2	0.9	2.0	4.6	9.1	10.9	2.3	18.7	-4.0	8.2	-0.5	0.9	2.3			
2017	1.5	3.7	-2.4	5.6	8.9	5.7	3.5	-10.1	0.4	7.6	5.9	2.9	3.5			
2018	-0.4	1.5	-47.8	-3.8	7.2	-3.8	0.2	-14.9	-0.7	1.6	1.0	3.2	0.2			
<b>Percentage change, latest quarter on previous quarter</b>																
2015 Q3	KG7P	KH9C	L64U	L64X	L655	L652	KG7Q	KH9F	KH9G	KH9A	KH9H	KH9I	KG7Q			
Q4	-2.5	-5.5	8.8	13.4	-1.2	4.0	-2.1	-12.9	-1.9	-0.1	-1.9	-1.1	-2.1			
2016 Q1	-1.7	-1.2	2.7	-15.3	3.2	9.7	-	20.2	-8.0	3.2	-1.3	-0.1	-0.1			
Q2	0.9	8.4	2.3	52.7	1.1	-9.9	1.6	0.7	4.0	1.2	1.0	0.9	1.6			
Q3	1.5	2.5	-	-26.6	1.9	-1.7	1.5	14.0	-3.7	1.7	2.1	-	1.5			
Q4	-1.0	-4.6	0.7	6.5	1.6	8.1	-0.6	-13.3	2.7	1.5	-1.1	0.7	-0.6			
2017 Q1	-0.2	-0.4	1.8	-7.8	4.7	4.0	1.0	-0.5	-5.0	3.8	4.1	-1.2	1.0			
Q2	1.3	7.5	4.9	34.5	-0.3	-1.7	1.9	1.8	5.5	0.6	0.9	2.0	1.9			
Q3	0.9	-1.9	-8.3	-13.1	1.2	2.1	0.3	-8.9	-0.5	0.8	1.3	2.3	0.3			
Q4	0.4	-0.3	-18.4	-3.1	4.9	-1.4	0.7	-11.2	2.3	2.4	-0.1	2.4	0.7			
2018 Q1	-0.6	-1.6	-21.3	-10.7	1.5	-1.3	-0.8	9.4	-3.1	-0.8	-1.6	-0.2	-0.8			
Q2	-0.4	-0.9	-28.1	22.2	2.0	-4.5	-0.6	-8.6	-0.1	0.1	0.2	-0.3	-0.6			
Q3	-0.6	6.3	5.3	-9.3	0.4	2.3	0.9	-9.8	0.9	0.6	3.2	0.3	0.9			
Q4	-0.9	0.5	-3.8	-1.6	-1.0	0.6	-0.6	-0.2	-2.7	-1.1	0.5	-0.2	-0.6			
<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			
2015 Q3	1.2	-1.8	-5.8	2.9	6.2	-0.9	1.3	12.3	-7.2	4.6	4.3	-1.4	1.3			
Q4	2.9	-6.2	-10.6	3.5	10.0	8.3	2.5	22.8	-1.1	7.1	2.3	-4.0	2.5			
2016 Q1	-2.1	-8.7	-8.0	-17.6	13.0	32.5	0.8	-2.0	-4.9	10.1	-1.8	2.5	0.8			
Q2	-1.1	-0.2	10.4	45.9	6.1	7.4	1.1	14.6	-2.1	6.6	-2.3	-0.6	1.1			
Q3	2.9	8.3	1.4	-5.6	9.4	1.5	4.9	49.9	-3.8	8.5	1.7	0.4	4.9			
Q4	-0.4	4.7	5.7	1.1	8.0	5.1	2.5	19.6	-5.2	7.7	0.6	1.4	2.5			
2017 Q1	1.2	5.5	4.8	10.0	9.5	-0.4	3.5	-0.9	-2.2	8.3	6.1	0.4	3.5			
Q2	1.6	4.6	7.4	-3.1	8.0	8.6	3.8	0.1	-0.8	7.6	6.0	1.5	3.8			
Q3	0.9	0.2	-1.5	14.9	7.3	12.8	2.6	-20.0	2.4	6.8	5.2	3.9	2.6			
Q4	2.4	4.7	-20.1	4.5	10.8	2.9	3.9	-18.1	2.0	7.7	6.3	5.7	3.9			
2018 Q1	1.9	3.5	-38.2	1.2	7.4	-2.3	2.1	-10.0	4.0	3.0	0.5	6.8	2.1			
Q2	0.2	-4.6	-57.7	-8.1	9.9	-5.1	-0.4	-19.1	-1.4	2.5	-0.3	4.3	-0.4			
Q3	-1.3	3.3	-51.3	-4.1	9.0	-4.9	0.2	-19.9	-	2.2	1.7	2.3	0.2			
Q4	-2.5	4.2	-42.6	-2.7	2.9	-2.9	-1.1	-9.9	-4.9	-1.3	2.2	-0.4	-1.1			

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.

# G Changes in inventories

## Chained volume measures<sup>1</sup>

Reference year 2016, £ million

	Mining and quarrying	Manufacturing industries				Elect- ricity, gas and water supply	Distributive trades			Changes in inventories <sup>3</sup>
		Materials and fuel	Work in progress	Finished goods	Total		Wholesale <sup>2</sup>	Retail <sup>2</sup>	Other industries <sup>3</sup>	
<b>Level of inventories held at end-December<sup>4</sup> 2016</b>										
	2 407	19 622	18 556	19 987	58 165	4 132	40 109	40 091	83 397	228 301
2015	FAEA 1 510	FBNF 1 581	FBNG 705	FBNH 815	DHBM 3 101	FAEB -446	FAJX 3 496	FBYN 2 556	DLWX 1 317	CAFU 11 146
2016	-68	-1 071	732	-75	-414	109	483	-915	9 361	8 556
2017	-591	89	1 441	1 425	2 955	-59	-1 275	-1 435	-1 972	-2 377
2018	150	-859	294	-770	-1 335	488	4 702	-1 243	2 591	5 353
<b>Seasonally adjusted</b>										
2015 Q3	884	-13	544	-62	468	-144	1 957	673	487	4 199
Q4	491	8	48	-572	-516	225	914	-935	2 715	2 782
2016 Q1	277	-189	86	82	-22	66	1 015	-765	1 373	1 881
Q2	-149	-528	-237	-418	-1 182	-103	71	87	1 479	347
Q3	272	-52	-22	137	62	-206	-489	-1 103	2 805	1 173
Q4	-468	-302	905	124	728	352	-114	866	3 704	5 155
2017 Q1	345	926	565	-382	1 109	452	-258	-758	1 231	2 121
Q2	701	-520	638	557	675	-462	113	-206	-1 605	-784
Q3	-828	-207	545	614	952	-8	-1 674	134	-40	-1 464
Q4	-809	-110	-307	636	219	-41	544	-605	-1 558	-2 250
2018 Q1	-178	190	261	217	668	-263	3 003	387	-5 495	-1 878
Q2	-560	-743	-395	-189	-1 327	-76	-534	-662	3 739	580
Q3	-157	158	134	-293	-1	-98	1 847	-447	1 266	2 410
Q4	1 045	-464	294	-505	-675	925	386	-521	3 081	4 241

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>
2015	BOKG 286 752	IKBB 232 858	519 610	BOKH 404 562	IKBC 142 032	546 594	BOKI -117 810	IKBD 90 826	-26 984
2016	299 073	257 888	556 961	431 725	156 123	587 848	-132 652	101 765	-30 887
2017	338 739	278 800	617 539	475 774	165 698	641 472	-137 035	113 102	-23 933
2018	350 651	283 411	634 062	488 744	176 287	665 031	-138 093	107 124	-30 969
<b>Seasonally adjusted</b>									
2015 Q3	70 559	57 336	127 895	98 591	35 573	134 164	-28 032	21 763	-6 269
Q4	70 804	59 634	130 438	100 274	36 457	136 731	-29 470	23 177	-6 293
2016 Q1	70 403	60 998	131 401	101 443	36 659	138 102	-31 040	24 339	-6 701
Q2	73 778	62 266	136 044	104 321	37 941	142 262	-30 543	24 325	-6 218
Q3	74 148	64 314	138 462	112 681	39 521	152 202	-38 533	24 793	-13 740
Q4	80 744	70 310	151 054	113 280	42 002	155 282	-32 536	28 308	-4 228
2017 Q1	83 015	68 448	151 463	117 141	41 005	158 146	-34 126	27 443	-6 683
Q2	84 136	68 908	153 044	118 563	41 446	160 009	-34 427	27 462	-6 965
Q3	86 140	70 089	156 229	120 002	41 592	161 594	-33 862	28 497	-5 365
Q4	85 448	71 355	156 803	120 068	41 655	161 723	-34 620	29 700	-4 920
2018 Q1	85 966	69 379	155 345	118 075	42 493	160 568	-32 109	26 886	-5 223
Q2	86 371	70 261	156 632	120 619	43 461	164 080	-34 248	26 800	-7 448
Q3	89 366	70 175	159 541	124 183	44 218	168 401	-34 817	25 957	-8 860
Q4	88 948	73 596	162 544	125 867	46 115	171 982	-36 919	27 481	-9 438
<b>Percentage change, latest year on previous year</b>									
2015	KG9K -2.2	KH35 2.5	KH2O -0.1	KG9L -2.6	KH3W 5.4	KH3H -0.6			
2016	4.3	10.7	7.2	6.7	9.9	7.5			
2017	13.3	8.1	10.9	10.2	6.1	9.1			
2018	3.5	1.7	2.7	2.7	6.4	3.7			
<b>Percentage change, latest quarter on previous quarter</b>									
2015 Q3	KG9O -4.2	KH36 0.3	KH2P -2.4	KG9P -1.9	KH3X 0.1	KH3I -1.4			
Q4	0.3	4.0	2.0	1.7	2.5	1.9			
2016 Q1	-0.6	2.3	0.7	1.2	0.6	1.0			
Q2	4.8	2.1	3.5	2.8	3.5	3.0			
Q3	0.5	3.3	1.8	8.0	4.2	7.0			
Q4	8.9	9.3	9.1	0.5	6.3	2.0			
2017 Q1	2.8	-2.6	0.3	3.4	-2.4	1.8			
Q2	1.4	0.7	1.0	1.2	1.1	1.2			
Q3	2.4	1.7	2.1	1.2	0.4	1.0			
Q4	-0.8	1.8	0.4	0.1	0.2	0.1			
2018 Q1	0.6	-2.8	-0.9	-1.7	2.0	-0.7			
Q2	0.5	1.3	0.8	2.2	2.3	2.2			
Q3	3.5	-0.1	1.9	3.0	1.7	2.6			
Q4	-0.5	4.9	1.9	1.4	4.3	2.1			
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>									
2015 Q3	KG9S -2.5	KH37 1.9	KH2Q -0.6	KG9T -4.2	KH3Y 6.3	KH3J -1.7			
Q4	-3.7	2.3	-1.0	-6.6	8.6	-3.0			
2016 Q1	-1.8	4.2	0.9	-3.6	6.3	-1.1			
Q2	0.1	8.6	3.8	3.8	6.8	4.6			
Q3	5.1	12.2	8.3	14.3	11.1	13.4			
Q4	14.0	17.9	15.8	13.0	15.2	13.6			
2017 Q1	17.9	12.2	15.3	15.5	11.9	14.5			
Q2	14.0	10.7	12.5	13.7	9.2	12.5			
Q3	16.2	9.0	12.8	6.5	5.2	6.2			
Q4	5.8	1.5	3.8	6.0	-0.8	4.1			
2018 Q1	3.6	1.4	2.6	0.8	3.6	1.5			
Q2	2.7	2.0	2.3	1.7	4.9	2.5			
Q3	3.7	0.1	2.1	3.5	6.3	4.2			
Q4	4.1	3.1	3.7	4.8	10.7	6.3			

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

# H2 Exports and imports of goods and services

## Chained volume measures

Reference year 2016, £ million

	Exports			Imports			Balance
	Goods	Services	Total	Goods	Services	Total	Total <sup>1</sup>
2015	BQKQ 302 991	IKBE 248 177	IKBK 551 228	BQKO 415 878	IKBF 153 347	IKBL 569 120	IKBM -17 892
2016	299 073	257 888	556 961	431 725	156 123	587 848	-30 887
2017	319 033	269 184	588 217	450 747	157 740	608 487	-20 270
2018	318 700	270 200	588 900	448 265	164 236	612 501	-23 601
<b>Seasonally adjusted</b>							
2015 Q3	75 641	61 062	136 744	102 319	38 547	140 793	-4 049
Q4	76 519	63 059	139 491	105 107	39 554	144 591	-5 100
2016 Q1 <sup>2</sup>	74 823	63 507	138 252	105 537	38 438	143 976	-5 724
Q2 <sup>2</sup>	75 463	64 171	139 554	106 066	38 837	144 900	-5 346
Q3 <sup>2</sup>	72 300	62 781	135 108	110 687	38 673	149 364	-14 256
Q4 <sup>2</sup>	76 487	67 429	144 047	109 435	40 175	149 608	-5 561
2017 Q1	77 953	66 320	144 273	111 703	39 186	150 889	-6 616
Q2	79 606	66 461	146 067	112 805	39 451	152 256	-6 189
Q3	81 852	67 007	148 859	113 601	39 498	153 099	-4 240
Q4	79 622	69 396	149 018	112 638	39 605	152 243	-3 225
2018 Q1	80 149	66 924	147 073	111 273	40 068	151 341	-4 268
Q2	78 616	67 038	145 654	111 271	40 669	151 940	-6 286
Q3	80 560	66 343	146 903	111 970	41 048	153 018	-6 115
Q4	79 375	69 895	149 270	113 751	42 451	156 202	-6 932
<b>Percentage change, latest year on previous year</b>							
2015	KG9X 6.7	KH3B 1.6	KH2U 4.4	KG9W 4.4	KH44 8.9	KH3N 5.5	
2016	-1.3	3.9	1.0	3.8	1.8	3.3	
2017	6.7	4.4	5.6	4.4	1.0	3.5	
2018	-0.1	0.4	0.1	-0.6	4.1	0.7	
<b>Percentage change, latest quarter on previous quarter</b>							
2015 Q3	KGA2 -1.3	KH3C -0.3	KH2V -1.0	KG9Z 0.3	KH45 0.3	KH3O 0.3	
Q4	1.2	3.3	2.0	2.7	2.6	2.7	
2016 Q1	-2.2	0.7	-0.9	0.4	-2.8	-0.4	
Q2	0.9	1.0	0.9	0.5	1.0	0.6	
Q3	-4.2	-2.2	-3.2	4.4	-0.4	3.1	
Q4	5.8	7.4	6.6	-1.1	3.9	0.2	
2017 Q1	1.9	-1.6	0.2	2.1	-2.5	0.9	
Q2	2.1	0.2	1.2	1.0	0.7	0.9	
Q3	2.8	0.8	1.9	0.7	0.1	0.6	
Q4	-2.7	3.6	0.1	-0.8	0.3	-0.6	
2018 Q1	0.7	-3.6	-1.3	-1.2	1.2	-0.6	
Q2	-1.9	0.2	-1.0	-	1.5	0.4	
Q3	2.5	-1.0	0.9	0.6	0.9	0.7	
Q4	-1.5	5.4	1.6	1.6	3.4	2.1	
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>							
2015 Q3	KGA5 7.6	KH3D 1.4	KH2W 4.8	KGA4 3.4	KH46 9.5	KH3P 4.9	
Q4	5.0	0.8	3.1	0.4	11.5	3.0	
2016 Q1	0.9	1.1	1.0	-0.8	4.4	0.4	
Q2	-1.6	4.8	1.1	4.0	1.1	3.2	
Q3	-4.4	2.8	-1.2	8.2	0.3	6.1	
Q4	-	6.9	3.3	4.1	1.6	3.5	
2017 Q1	4.2	4.4	4.4	5.8	1.9	4.8	
Q2	5.5	3.6	4.7	6.4	1.6	5.1	
Q3	13.2	6.7	10.2	2.6	2.1	2.5	
Q4	4.1	2.9	3.5	2.9	-1.4	1.8	
2018 Q1	2.8	0.9	1.9	-0.4	2.3	0.3	
Q2	-1.2	0.9	-0.3	-1.4	3.1	-0.2	
Q3	-1.6	-1.0	-1.3	-1.4	3.9	-0.1	
Q4	-0.3	0.7	0.2	1.0	7.2	2.6	

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

# L 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
2015	CAGR 1 723 523	CAGQ 1 692 039	CAGS 1 692 039	DJDS —	IHYA 96.4	IHYB 96.4	IHYC 98.1	IHYD 98.1	YBFR 98.1
2016	1 756 045	1 756 045	1 756 045	—	100.0	100.0	100.0	100.0	100.0
2017	1 794 096	1 827 756	1 818 682	9 074	104.1	103.6	102.2	101.7	102.4
2018	1 819 742	1 889 870	1 877 015	12 855	107.6	106.9	103.6	102.9	103.9
<b>Seasonally adjusted</b>									
2015 Q3	431 718	423 920	423 920	—	96.6	96.6	98.3	98.3	98.3
Q4	433 845	426 098	426 098	—	97.1	97.1	98.8	98.8	98.8
2016 Q1	435 169	432 659	432 659	—	98.6	98.6	99.1	99.1	99.1
Q2	437 116	436 513	436 513	—	99.4	99.4	99.6	99.6	99.6
Q3	439 892	440 577	440 577	—	100.4	100.4	100.2	100.2	100.2
Q4	443 868	446 296	446 296	—	101.7	101.7	101.1	101.1	101.1
2017 Q1	445 592	451 941	450 865	1 076	102.9	102.7	101.5	101.3	101.7
Q2	446 940	453 775	451 913	1 862	103.4	102.9	101.8	101.4	102.1
Q3	449 692	458 107	455 342	2 765	104.3	103.7	102.4	101.8	102.6
Q4	451 872	463 933	460 562	3 371	105.7	104.9	102.9	102.2	103.0
2018 Q1	451 828	467 396	464 091	3 305	106.5	105.7	102.9	102.2	103.1
Q2	453 665	468 731	465 380	3 351	106.8	106.0	103.3	102.6	103.6
Q3	456 715	475 089	471 849	3 240	108.2	107.5	104.0	103.3	104.3
Q4	457 534	478 654	475 695	2 959	109.0	108.4	104.2	103.6	104.5
<b>Percentage change, latest year on previous year</b>									
2015	KH4D 2.5	KH47 2.8	KH68 2.8		KH47 2.8	KH68 2.8	KH4D 2.5	KH6E 2.5	GDPQ 2.5
2016	1.9	3.8	3.8		3.8	3.8	1.9	1.9	1.9
2017	2.2	4.1	3.6		4.1	3.6	2.2	1.7	2.4
2018	1.4	3.4	3.2		3.4	3.2	1.4	1.2	1.5
<b>Percentage change, latest quarter on previous quarter</b>									
2015 Q3	KH4F 0.3	KH49 -0.1	KH6A -0.1		KH49 -0.1	KH6A -0.1	KH4F 0.3	KH6G 0.3	GDPQ 0.3
Q4	0.5	0.5	0.5		0.5	0.5	0.5	0.5	0.5
2016 Q1	0.3	1.5	1.5		1.5	1.5	0.3	0.3	0.3
Q2	0.4	0.9	0.9		0.9	0.9	0.4	0.4	0.4
Q3	0.6	0.9	0.9		0.9	0.9	0.6	0.6	0.6
Q4	0.9	1.3	1.3		1.3	1.3	0.9	0.9	0.9
2017 Q1	0.4	1.3	1.0		1.3	1.0	0.4	0.2	0.6
Q2	0.3	0.4	0.2		0.4	0.2	0.3	0.1	0.3
Q3	0.6	1.0	0.8		1.0	0.8	0.6	0.4	0.5
Q4	0.5	1.3	1.1		1.3	1.1	0.5	0.4	0.4
2018 Q1	—	0.7	0.8		0.7	0.8	—	—	0.1
Q2	0.4	0.3	0.3		0.3	0.3	0.4	0.4	0.4
Q3	0.7	1.4	1.4		1.4	1.4	0.7	0.7	0.7
Q4	0.2	0.8	0.8		0.8	0.8	0.2	0.2	0.2
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>									
2015 Q3	KH4H 2.2	KH4B 2.0	KH6C 2.0		KH4B 2.0	KH6C 2.0	KH4H 2.2	KH6I 2.2	GDPQ 2.2
Q4	1.8	2.8	2.8		2.8	2.8	1.8	1.8	1.8
2016 Q1	1.8	3.6	3.6		3.6	3.6	1.8	1.8	1.8
Q2	1.6	2.8	2.8		2.8	2.8	1.6	1.6	1.6
Q3	1.9	3.9	3.9		3.9	3.9	1.9	1.9	1.9
Q4	2.3	4.7	4.7		4.7	4.7	2.3	2.3	2.3
2017 Q1	2.4	4.5	4.2		4.5	4.2	2.4	2.1	2.6
Q2	2.2	4.0	3.5		4.0	3.5	2.2	1.8	2.5
Q3	2.2	4.0	3.4		4.0	3.4	2.2	1.6	2.4
Q4	1.8	4.0	3.2		4.0	3.2	1.8	1.1	1.9
2018 Q1	1.4	3.4	2.9		3.4	2.9	1.4	0.9	1.4
Q2	1.5	3.3	3.0		3.3	3.0	1.5	1.2	1.4
Q3	1.6	3.7	3.6		3.7	3.6	1.6	1.5	1.6
Q4	1.3	3.2	3.3		3.2	3.3	1.3	1.4	1.5

<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)	
		DMUN	
<b>Seasonally adjusted</b>			
2015 Q3	-1 721	-1 757	-1 054
Q4	-334	-345	-867
2016 Q1	-84	-86	1 912
Q2	-900	-903	-1 681
Q3	1 981	1 977	-1 987
Q4	-997	-988	1 756
2017 Q1	1 089	1 070	2 574
Q2	-1 609	-1 580	-2 507
Q3	639	625	-689
Q4	-119	-115	622
2018 Q1	-1 622	-1 561	1 886
Q2	-348	-329	-1 637
Q3	-570	-540	-703
Q4	2 540	2 430	454

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

# N Selected financial year variables <sup>1,2</sup>

£ millions except deflator index which is 2017/18 = 100

	Current prices					Chained Volume Measures (reference year 2016)				
	Gross domestic product at market prices	Gross domestic product 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
2014/15	1 857 707	1 855 049	1 658 747	357 598	50 607	1 902 961	1 694 186	361 079	51 589	95.0798
2015/16	1 913 870	1 912 472	1 707 180	362 579	49 784	1 944 905	1 731 157	366 806	50 492	95.8398
2016/17	1 991 226	1 989 398	1 775 338	369 396	53 376	1 978 370	1 766 479	367 357	52 778	98.0231
2017/18	2 065 492	2 067 387	1 840 550	377 767	55 722	2 011 630	1 797 747	367 992	54 477	100.0000
<b>Seasonally adjusted</b>										
2015 Q3	475 541	472 366	423 920	91 090	12 360	484 552	431 718	91 806	12 562	95.5834
Q4	477 774	485 250	426 098	90 443	12 294	488 153	433 845	91 665	12 390	95.3239
2016 Q1	485 326	485 753	432 659	91 626	12 128	489 736	435 169	92 044	12 243	96.5176
Q2	489 494	486 658	436 513	91 550	13 111	490 502	437 116	91 959	13 277	97.1945
Q3	493 730	490 693	440 577	92 032	13 460	492 816	439 892	91 968	13 605	97.5753
Q4	500 974	506 420	446 296	92 766	13 401	496 470	443 868	92 003	12 975	98.2782
2017 Q1	507 028	505 627	451 952	93 048	13 404	498 582	445 603	91 427	12 921	99.0445
Q2	508 869	506 918	453 572	93 403	13 995	499 885	446 741	91 876	13 892	99.1450
Q3	514 258	510 663	457 448	93 895	13 793	502 473	449 048	91 969	13 631	99.6789
Q4	519 474	526 421	462 901	94 873	13 901	504 487	450 870	91 995	13 585	100.2880
2018 Q1	522 891	523 385	466 629	95 596	14 033	504 785	451 088	92 152	13 369	100.8881
Q2	526 394	523 463	467 955	95 981	13 698	506 842	452 918	91 790	13 248	101.1517
Q3	532 444	529 833	474 395	96 736	14 667	510 346	456 050	91 726	14 084	101.6118
Q4	535 995	541 043	478 146	97 778	14 854	511 482	457 049	92 919	14 160	102.0623
<b>Percentage change, latest financial year on previous financial year</b>										
2014/15	4.2	4.1	4.3	2.2	3.3	2.9	3.5	1.9	1.5	1.3
2015/16	3.0	3.1	2.9	1.4	-1.6	2.2	2.2	1.6	-2.1	0.8
2016/17	4.0	4.0	4.0	1.9	7.2	1.7	2.0	0.2	4.5	2.3
2017/18	3.7	3.9	3.7	2.3	4.4	1.7	1.8	0.2	3.2	2.0
<b>Percentage change, latest quarter on previous quarter</b>										
2015 Q3	IHYN 0.1	A8L9 0.7	KGL8 -0.1	KH2D 1.9	KH7P -4.9	IHYQ 0.4	KGM9 0.3	KH2J 0.6	KH9C -5.5	L8GH -0.4
Q4	0.5	2.7	0.5	-0.7	-0.5	0.7	0.5	-0.2	-1.4	-0.3
2016 Q1	1.6	0.1	1.5	1.3	-1.4	0.3	0.3	0.4	-1.2	1.3
Q2	0.9	0.2	0.9	-0.1	8.1	0.2	0.4	-0.1	8.4	0.7
Q3	0.9	0.8	0.9	0.5	2.7	0.5	0.6	-	2.5	0.4
Q4	1.5	3.2	1.3	0.8	-0.4	0.7	0.9	-	-4.6	0.7
2017 Q1	1.2	-0.2	1.3	0.3	-	0.4	0.4	-0.6	-0.4	0.8
Q2	0.4	0.3	0.4	0.4	4.4	0.3	0.3	0.5	7.5	0.1
Q3	1.1	0.7	0.9	0.5	-1.4	0.5	0.5	0.1	-1.9	0.5
Q4	1.0	3.1	1.2	1.0	0.8	0.4	0.4	-	-0.3	0.6
2018 Q1	0.7	-0.6	0.8	0.8	0.9	0.1	-	0.2	-1.6	0.6
Q2	0.7	-	0.3	0.4	-2.4	0.4	0.4	-0.4	-0.9	0.3
Q3	1.1	1.2	1.4	0.8	7.1	0.7	0.7	-0.1	6.3	0.5
Q4	0.7	2.1	0.8	1.1	1.3	0.2	0.2	1.3	0.5	0.4
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>										
2015 Q3	IHYO 2.3	A8LA 2.7	KGM2 2.0	KH2E 1.1	KH7R -0.8	IHYR 2.1	KGN3 2.2	KH2K 1.6	KH9M -1.8	L8GI 0.2
Q4	2.8	3.1	2.8	0.7	-5.5	2.2	1.8	1.8	-6.2	0.5
2016 Q1	3.9	3.5	3.6	1.7	-9.1	2.1	1.8	1.7	-8.7	1.7
Q2	3.0	3.7	2.8	2.4	0.8	1.7	1.6	0.7	-0.2	1.3
Q3	3.8	3.9	3.9	1.0	8.9	1.7	1.9	0.2	8.3	2.1
Q4	4.9	4.4	4.7	2.6	9.0	1.7	2.3	0.4	4.7	3.1
2017 Q1	4.5	4.1	4.5	1.6	10.5	1.8	2.4	-0.7	5.5	2.6
Q2	4.0	4.2	3.9	2.0	6.7	1.9	2.2	-0.1	4.6	2.0
Q3	4.2	4.1	3.8	2.0	2.5	2.0	2.1	-	0.2	2.2
Q4	3.7	3.9	3.7	2.3	3.7	1.6	1.6	-	4.7	2.0
2018 Q1	3.1	3.5	3.2	2.7	4.7	1.2	1.2	0.8	3.5	1.9
Q2	3.4	3.3	3.2	2.8	-2.1	1.4	1.4	-0.1	-4.6	2.0
Q3	3.5	3.8	3.7	3.0	6.3	1.6	1.6	-0.3	3.3	1.9
Q4	3.2	2.8	3.3	3.1	6.9	1.4	1.4	1.0	4.2	1.8

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 2017/2018 = 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>

2018 = 100

	Implied deflators <sup>2</sup>		
	Gross national expenditure	Gross domestic product at market prices <sup>3</sup>	Gross value added at basic prices
2015	MNE2 94.2529	MNF2 94.0837	MNX5 94.5320
2016	95.7365	96.0197	96.2890
2017	98.0001	98.1373	98.0956
2018	100.0000	100.0000	100.0000
<b>Seasonally adjusted</b>			
2015 Q3	94.4073	94.2373	94.5526
Q4	93.9497	93.9813	94.5724
2016 Q1	95.0842	95.1583	95.7365
Q2	95.7131	95.8256	96.1590
Q3	95.8568	96.2010	96.4418
Q4	96.2921	96.8941	96.8186
2017 Q1	97.3525	97.6496	97.6638
Q2	97.5856	97.7487	97.7642
Q3	98.1781	98.2751	98.0931
Q4	98.8843	98.8756	98.8613
2018 Q1	99.3239	99.4672	99.6093
Q2	99.6037	99.7272	99.4888
Q3	100.3439	100.1808	100.1653
Q4	100.7285	100.6249	100.7366
<b>Percentage change, latest year on previous year</b>			
2015	MNE3 −0.1	MNF3 0.4	MNX6 0.2
2016	1.6	2.1	1.9
2017	2.4	2.2	1.9
2018	2.0	1.9	1.9
<b>Percentage change, latest quarter on previous quarter</b>			
2015 Q3	MNE4 −0.4	MNF4 −0.4	MNX7 −0.4
Q4	−0.5	−0.3	−
2016 Q1	1.2	1.3	1.2
Q2	0.7	0.7	0.4
Q3	0.2	0.4	0.3
Q4	0.5	0.7	0.4
2017 Q1	1.1	0.8	0.9
Q2	0.2	0.1	0.1
Q3	0.6	0.5	0.3
Q4	0.7	0.6	0.8
2018 Q1	0.4	0.6	0.8
Q2	0.3	0.3	−0.1
Q3	0.7	0.5	0.7
Q4	0.4	0.4	0.6
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>			
2015 Q3	MNE5 −0.2	MNF5 0.2	MNX8 −0.2
Q4	−0.1	0.5	0.9
2016 Q1	1.3	1.7	1.8
Q2	0.9	1.3	1.3
Q3	1.5	2.1	2.0
Q4	2.5	3.1	2.4
2017 Q1	2.4	2.6	2.0
Q2	2.0	2.0	1.7
Q3	2.4	2.2	1.7
Q4	2.7	2.0	2.1
2018 Q1	2.0	1.9	2.0
Q2	2.1	2.0	1.8
Q3	2.2	1.9	2.1
Q4	1.9	1.8	1.9

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

2 Data are only considered accurate to 1 decimal place.

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

# P GDP Per 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
2015	EBAQ 65 110	YBHA 1 895 839	IHXT 29 117	ABMI 1 934 903	IHXW 29 717
2016	65 648	1 969 524	30 001	1 969 524	30 001
2017	66 040	2 049 629	31 036	2 005 427	30 367
2018	66 466	2 117 724	31 862	2 033 455	30 594
<b>Seasonally adjusted</b>					
2015 Q3	65 245	475 541	7 289	484 552	7 427
Q4	65 379	477 774	7 308	488 153	7 467
2016 Q1	65 514	485 326	7 408	489 736	7 475
Q2	65 648	489 494	7 456	490 502	7 472
Q3	65 746	493 730	7 510	492 816	7 496
Q4	65 844	500 974	7 608	496 470	7 540
2017 Q1	65 942	507 028	7 689	498 582	7 561
Q2	66 040	508 869	7 705	499 885	7 569
Q3	66 146	514 258	7 775	502 473	7 596
Q4	66 253	519 474	7 841	504 487	7 615
2018 Q1	66 359	522 891	7 880	504 785	7 607
Q2	66 466	526 394	7 920	506 842	7 626
Q3	66 572	532 444	7 998	510 346	7 666
Q4	66 678	535 995	8 039	511 482	7 671
<b>Percentage change, latest year on previous year</b>					
		IHYM	N3Y3	IHYP	N3Y6
2015		2.8	2.0	2.3	1.5
2016		3.9	3.0	1.8	1.0
2017		4.1	3.4	1.8	1.2
2018		3.3	2.7	1.4	0.7
<b>Percentage change, latest quarter on previous quarter</b>					
		IHYN	N3Y4	IHYQ	N3Y7
2015 Q3		0.1	-0.1	0.4	0.2
Q4		0.5	0.3	0.7	0.5
2016 Q1		1.6	1.4	0.3	0.1
Q2		0.9	0.6	0.2	—
Q3		0.9	0.7	0.5	0.3
Q4		1.5	1.3	0.7	0.6
2017 Q1		1.2	1.1	0.4	0.3
Q2		0.4	0.2	0.3	0.1
Q3		1.1	0.9	0.5	0.4
Q4		1.0	0.8	0.4	0.3
2018 Q1		0.7	0.5	0.1	-0.1
Q2		0.7	0.5	0.4	0.2
Q3		1.1	1.0	0.7	0.5
Q4		0.7	0.5	0.2	0.1
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>					
		IHYO	N3Y5	IHYR	N3Y8
2015 Q3		2.3	1.5	2.1	1.3
Q4		2.8	1.9	2.2	1.4
2016 Q1		3.9	3.0	2.1	1.2
Q2		3.0	2.2	1.7	0.8
Q3		3.8	3.0	1.7	0.9
Q4		4.9	4.1	1.7	1.0
2017 Q1		4.5	3.8	1.8	1.2
Q2		4.0	3.3	1.9	1.3
Q3		4.2	3.5	2.0	1.3
Q4		3.7	3.1	1.6	1.0
2018 Q1		3.1	2.5	1.2	0.6
Q2		3.4	2.8	1.4	0.8
Q3		3.5	2.9	1.6	0.9
Q4		3.2	2.5	1.4	0.7

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

2 The UK resident population mid-year estimates used in this publication are those published on 28 June 2018

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

# R Revisions Analysis<sup>1</sup>

## Revisions since previously published estimates

£ million

		2017	2018
<b>Latest less previously published levels of GDP</b>			
at current market prices			
<b>National accounts aggregates</b>			
at current prices (Table A2)			
Gross domestic product at market prices	KB7D	—	3 097
less Basic price adjustment	KB7E	—	-40
Gross value added at basic prices	KB7F	—	3 137
<b>Gross domestic product:</b>			
<b>expenditure at current prices (Table C1)</b>			
National expenditure on goods and services			
at market prices			
Households	KB7K	—	419
Non-profit institutions serving households	KB7L	—	-14
General government	KB7M	—	210
Gross fixed capital formation	KB7N	—	633
Changes in inventories	KB7O	—	3 407
Acquisitions less disposals of valuables	KB7P	—	-515
Total	KB7Q	—	4 140
Total exports	KB7R	—	4 705
Total imports	KB7S	—	3 354
Statistical discrepancy (expenditure)	KB7T	—	-2 394
<b>Gross domestic product:</b>			
<b>income at current prices (Table D)</b>			
Compensation of employees	KB7U	—	1 441
Gross operating surplus of corporations	KB7V	—	-1 426
Other income	KB7W	—	167
Gross value added at factor cost	KB7X	—	182
Taxes on products & production less Subsidies	KB7Y	—	-76
Statistical discrepancy (income)	KB7Z	—	2 991

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

		2017	2018
<b>Latest less previously published growth rates for GDP</b>			
in chained volume terms			
<b>Percentage changes in volume of GDP (Table A2)</b>			
Gross domestic product chained volume measures			
Year on year growth	KB82	—	—
<b>Percentage changes in volume</b>			
<b>of GVA output components (Table B1)</b>			
GVA at basic prices			
Agriculture, forestry and fishing	KB83	—	0.6
Mining and quarrying inc oil & gas extraction	KB84	—	1.6
Manufacturing	KB85	—	—
Electricity, gas, steam and air	KB86	—	-1.2
Water supply, sewerage	KNT7	—	0.9
Total Production	KB87	—	0.1
Construction	KB88	—	-0.4
Distribution, hotels and restaurants	KB89	—	0.1
Transport storage and communications	KB8A	—	0.5
Business services and finance	KB8B	—	-0.2
Government and other services	KB8C	—	0.2
Total services	KB8D	—	—
Total GVA	KB8E	—	—
Total GVA excluding Oil	KB8F	—	—
<b>Percentage changes in volume</b>			
<b>of GDP expenditure components (Table C2)</b>			
National expenditure on goods and services			
at market prices			
Households	KB8G	—	-0.1
Non-profit institutions serving households	KB8H	—	0.1
General government	KB8I	—	0.2
Gross fixed capital formation	KB8J	—	0.2
Total	KB8K	—	0.1
Total exports	KB8L	—	-0.1
Total imports	KB8M	—	-0.1

# R Revisions Analysis<sup>1</sup>

## Revisions since previously published estimates

continued

£ million

	2016 Q2	2016 Q3	2016 Q4	2017 Q1	2017 Q2	2017 Q3	2017 Q4	2018 Q1	2018 Q2	2018 Q3	2018 Q4
<b>Latest less previously published levels of GDP at current market prices</b>											
<b>National accounts aggregates at current prices (Table A2)</b>											
Gross domestic product at market prices											
Gross domestic product at market prices	KB7D	–	–	–	–	–	–	1 129	276	567	1 125
less Basic price adjustment	KB7E	–	–	–	–	–	–	–75	260	154	–379
Gross value added at basic prices	KB7F	–	–	–	–	–	–	1 204	16	413	1 504
<b>Gross domestic product: expenditure at current prices (Table C1)</b>											
National expenditure on goods and services at market prices											
Households	KB7K	–	–	–	–	–	–	209	261	218	–269
Non-profit institutions serving households	KB7L	–	–	–	–	–	–	1	–3	–4	–8
General government	KB7M	–	–	–	–	–	–	12	17	163	18
Gross fixed capital formation	KB7N	–	–	–	–	–	–	–147	347	280	153
Changes in inventories	KB7O	–	–	–	–	–	–	2 070	–26	–41	1 404
Acquisitions less disposals of valuables	KB7P	–	–	–	–	–	–	5	6	1	–527
Total	KB7Q	–	–	–	–	–	–	2 150	602	617	771
Total exports	KB7R	–	–	–	–	–	–	–824	444	1 520	3 565
Total imports	KB7S	–	–	–	–	–	–	–284	113	877	2 648
Statistical discrepancy (expenditure)	KB7T	–	–	–	–	–	–	–481	–657	–693	–563
<b>Gross domestic product: income at current prices (Table D)</b>											
Compensation of employees	KB7U	–	–	–	–	–	–	–96	427	720	390
Gross operating surplus of corporations	KB7V	–	–	–	–	–	–	781	–1 270	–1 154	217
Other income	KB7W	–	–	–	–	–	–	–76	57	13	173
Gross value added at factor cost	KB7X	–	–	–	–	–	–	609	–786	–421	780
Taxes on products & production less Subsidies	KB7Y	–	–	–	–	–	–	–84	240	127	–359
Statistical discrepancy (income)	KB7Z	–	–	–	–	–	–	604	822	861	704

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

	2016 Q2	2016 Q3	2016 Q4	2017 Q1	2017 Q2	2017 Q3	2017 Q4	2018 Q1	2018 Q2	2018 Q3	2018 Q4
<b>Latest less previously published growth rates for GDP in chained volume terms</b>											
<b>Percentage changes in volume of GDP (Table A2)</b>											
Gross domestic product chained volume measures											
Quarter on quarter growth	KB82	–	–	–	–	–	–	–	–	0.1	–
Quarter on same quarter a year earlier	KB94	–	–	–	–	–	–	–0.1	–	–	0.1
<b>Percentage changes in volume of GVA output components (Table B1)</b>											
GVA at basic prices quarter on quarter growth											
Agriculture, forestry and fishing	KB83	–	–	–	–	–	–	1.0	–0.7	0.4	–0.5
Mining and quarrying inc oil & gas extraction	KB84	–	–	–	–	–	–	–	1.5	0.5	0.6
Manufacturing	KB85	–	–	–	–	–	–	0.1	–0.1	–	0.2
Electricity, gas, steam and air	KB86	–	–	–	–	–	–	–1.1	–0.2	–0.1	0.5
Water supply, sewerage	KNT7	–	–	–	–	–	–	0.5	0.2	0.8	–0.5
Total Production	KB87	–	–	–	–	–	–	–	–	–	0.3
Construction	KB88	–	–	–	–	–	–	–0.3	0.2	–0.3	–0.2
Distribution, hotels and restaurants	KB89	–	–	–	–	–	–	–0.1	0.1	–	–
Transport storage and communications	KB8A	–	–	–	–	–	–	0.3	–	0.3	0.4
Business services and finance	KB8B	–	–	–	–	–	–	–	–0.1	–	–0.2
Government and other services	KB8C	–	–	–	–	–	–	–	–	0.2	0.3
Total services	KB8D	–	–	–	–	–	–	–	–	0.1	0.1
Total GVA	KB8E	–	–	–	–	–	–	–0.1	–	0.1	–
Total GVA excluding Oil	KB8F	–	–	–	–	–	–	–	–	0.1	–
<b>Percentage changes in volume of GDP expenditure components (Table C2)</b>											
National expenditure on goods and services at market prices quarter on quarter growth											
Households	KB8G	–	–	–	–	–	–	0.1	–0.2	–	–0.1
Non-profit institutions serving households	KB8H	–	–	–	–	–	–	–	–	–	–0.2
General government	KB8I	–	–	–	–	–	–	0.1	–	0.2	–0.1
Gross fixed capital formation	KB8J	–	–	–	–	–	–	–0.2	0.3	0.3	–0.1
Total	KB8K	–	–	–	–	–	–	0.1	–0.2	0.1	–
Total exports	KB8L	–	–	–	–	–	–	–1.3	1.0	0.7	0.7
Total imports	KB8M	–	–	–	–	–	–	–0.9	0.3	0.7	0.8

# AA

## Annex A - Growth and contributions to growth - output components of GDP<sup>1,2</sup> Chained Volume Measures

Seasonally adjusted data

Reference year 2016

	Agriculture, forestry, and fishing	Total Production	Mining & quarrying inc oil & gas extract	Manufacturing	Electric, gas, steam & air	Water supply, sewerage	Construction	Total Services	Distribution, hotels & restaurants	Transport storage and communications	Business services and finance	Government and other services
<b>Percentage change, latest year on previous year</b>												
<b>Growth</b>												
2016	L3BB	L3BG	L3BH	L3BN	L3DM	L3DQ	L3DW	L3E2	L3GP	KI8L	KI8N	KI8P
2016	-5.6	1.0	0.3	0.4	2.1	5.6	4.1	1.9	3.8	3.4	2.1	-0.1
2017	3.0	1.8	-0.6	2.5	-1.6	3.4	7.1	2.1	2.2	4.9	2.2	0.6
2018	-2.3	0.8	4.3	0.9	-0.6	-1.4	0.3	1.7	2.8	3.8	1.6	0.3
<b>Contributions to growth</b>												
2016	ZZ3V	ZZ3W	ZZ3Y	ZZ3X	ZZ3Z	ZZ42	ZZ43	ZZ44	ZZ45	ZZ46	ZZ47	ZZ48
2016	-0.04	0.13	-	0.04	0.04	0.06	0.25	1.54	0.51	0.37	0.68	-0.01
2017	0.02	0.25	-0.01	0.25	-0.03	0.03	0.42	1.66	0.30	0.52	0.72	0.13
2018	-0.02	0.11	0.05	0.09	-0.01	-0.01	0.02	1.39	0.38	0.41	0.52	0.07
<b>Percentage change, latest quarter on previous quarter</b>												
<b>Growth</b>												
2016 Q2	L3BB	L3BG	L3BH	L3BN	L3DM	L3DQ	L3DW	L3E2	L3GP	KI8L	KI8N	KI8P
2016 Q2	-1.1	1.8	2.2	1.2	4.6	2.8	1.7	0.1	0.5	0.2	0.3	-0.4
Q3	-0.2	-0.4	5.1	-0.5	-3.9	0.1	1.1	0.8	0.9	2.9	0.7	-0.1
Q4	0.6	0.6	-7.8	1.3	2.4	0.6	2.9	0.8	1.7	1.8	0.5	0.1
2017 Q1	2.1	0.3	2.6	0.5	-3.9	3.1	3.2	0.5	-0.2	0.4	0.8	0.5
Q2	0.6	0.3	1.5	0.1	0.9	-0.8	0.2	0.4	0.3	1.2	0.2	0.3
Q3	0.6	1.0	0.1	1.1	2.2	-0.5	0.7	0.4	0.5	0.7	0.6	-0.1
Q4	-0.1	0.6	-4.5	1.5	-0.8	-	0.3	0.3	0.2	1.3	0.4	-0.3
2018 Q1	-2.1	0.1	4.6	-0.3	1.1	-1.9	-1.5	0.3	0.3	0.2	0.5	0.1
Q2	-0.9	-0.6	2.5	-0.5	-3.7	0.6	0.5	0.6	1.7	1.2	0.2	0.1
Q3	-0.1	0.6	2.2	0.2	1.6	1.6	1.8	0.6	1.0	1.8	0.3	0.3
Q4	0.6	-0.8	-0.8	-0.7	-1.5	-0.9	-0.5	0.5	0.3	0.8	0.4	0.6
<b>Contributions to growth</b>												
2016 Q2	ZZ2F	ZZ2G	ZZ2I	ZZ2H	ZZ2J	ZZ2K	ZZ2L	ZZ2M	ZZ2N	ZZ2O	ZZ2P	ZZ2Q
2016 Q2	-0.01	0.25	0.03	0.12	0.08	0.03	0.10	0.10	0.07	0.02	0.10	-0.08
Q3	-	-0.06	0.06	-0.05	-0.07	-	0.07	0.63	0.12	0.31	0.22	-0.01
Q4	-	0.08	-0.10	0.13	0.04	0.01	0.18	0.63	0.24	0.20	0.17	0.03
2017 Q1	0.01	0.04	0.03	0.05	-0.07	0.03	0.20	0.40	-0.03	0.05	0.27	0.11
Q2	-	0.03	0.02	0.01	0.02	-0.01	0.01	0.28	0.03	0.12	0.06	0.06
Q3	-	0.14	-	0.11	0.04	-0.01	0.04	0.33	0.07	0.08	0.20	-0.02
Q4	-	0.09	-0.05	0.15	-0.01	-	0.02	0.27	0.03	0.15	0.15	-0.06
2018 Q1	-0.01	0.01	0.05	-0.03	0.02	-0.02	-0.09	0.24	0.04	0.02	0.16	0.02
Q2	-0.01	-0.08	0.03	-0.05	-0.06	0.01	0.03	0.47	0.24	0.13	0.07	0.03
Q3	-	0.09	0.03	0.02	0.03	0.02	0.11	0.51	0.14	0.19	0.10	0.07
Q4	-	-0.12	-0.01	-0.07	-0.02	-0.01	-0.03	0.38	0.05	0.09	0.12	0.13
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>												
<b>Growth</b>												
2016 Q2	L3ZZ	L426	L427	L42D	L44C	L44G	L44M	L44Q	L47F	KI2	KI9	KI8
2016 Q2	-6.8	1.0	-2.5	0.5	5.0	5.4	3.0	1.6	3.2	1.8	2.0	-0.1
Q3	-6.5	0.9	3.3	0.4	0.1	5.1	4.7	1.9	3.7	4.0	2.1	-0.3
Q4	-4.3	2.1	-2.8	1.9	5.0	5.3	6.1	2.1	4.4	5.3	1.9	-0.5
2017 Q1	1.5	2.3	1.6	2.5	-1.2	6.7	9.2	2.2	3.0	5.4	2.3	0.2
Q2	3.2	0.7	0.9	1.4	-4.6	2.9	7.6	2.5	2.7	6.4	2.2	0.8
Q3	4.0	2.2	-4.0	3.0	1.4	2.3	7.1	2.1	2.4	4.2	2.1	0.8
Q4	3.2	2.2	-0.5	3.2	-1.7	1.7	4.5	1.6	0.8	3.7	2.0	0.4
2018 Q1	-1.0	2.0	1.4	2.3	3.5	-3.2	-0.3	1.4	1.4	3.4	1.7	-
Q2	-2.5	1.1	2.5	1.7	-1.3	-1.8	-	1.6	2.9	3.4	1.7	-0.1
Q3	-3.2	0.8	4.6	0.9	-1.9	0.2	1.2	1.9	3.4	4.5	1.4	0.3
Q4	-2.5	-0.7	8.7	-1.3	-2.5	-0.7	0.3	2.0	3.5	3.9	1.4	1.1
<b>Contributions to growth</b>												
2016 Q2	ZZ36	ZZ37	ZZ39	ZZ38	ZZ3A	ZZ3B	ZZ3C	ZZ3D	ZZ3E	ZZ3F	ZZ3G	ZZ3H
2016 Q2	-0.05	0.14	-0.03	0.05	0.08	0.05	0.18	1.28	0.43	0.19	0.68	-0.01
Q3	-0.04	0.12	0.04	0.04	-	0.05	0.28	1.54	0.49	0.43	0.69	-0.07
Q4	-0.03	0.28	-0.03	0.19	0.08	0.05	0.37	1.67	0.58	0.57	0.64	-0.11
2017 Q1	0.01	0.31	0.02	0.25	-0.02	0.07	0.54	1.77	0.40	0.56	0.77	0.05
Q2	0.02	0.10	0.01	0.14	-0.08	0.03	0.45	1.96	0.67	0.67	0.73	0.19
Q3	0.03	0.30	-0.04	0.30	0.02	0.02	0.43	1.65	0.32	0.45	0.71	0.18
Q4	0.02	0.30	-0.01	0.32	-0.03	0.02	0.27	1.28	0.11	0.40	0.68	0.09
2018 Q1	-0.01	0.28	0.02	0.24	0.06	-0.03	-0.02	1.13	0.19	0.36	0.57	0.01
Q2	-0.02	0.16	0.03	0.17	-0.02	-0.02	-	1.32	0.39	0.37	0.58	-0.03
Q3	-0.02	0.11	0.06	0.09	-0.03	-	0.07	1.49	0.46	0.49	0.49	0.06
Q4	-0.02	-0.10	0.10	-0.13	-0.04	-0.01	0.02	1.61	0.47	0.43	0.46	0.24

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

# 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									
	House-holds	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>									
2016	KGZ5 3.2	KH26 0.8	KH2I 0.8	ZZ6H 1.6	KG7N 2.3	KG7M -0.2	KH2U 1.0	KH3N 3.3	
2017	2.2	-0.3	-0.2	0.3	3.5	1.5	5.6	3.5	
2018	1.8	-1.3	0.4	2.7	0.2	-0.4	0.1	0.7	
<b>Contributions to growth</b>									
2016	ZZ6M 2.01	ZZ6N 0.02	ZZ6O 0.14	ZZ6P 0.27	ZZ6Q 0.39	ZZ6R -0.02	ZZ6S 0.29	ZZ6T 0.95	ZZ6U -0.66
2017	1.37	-0.01	-0.04	0.05	0.58	0.14	1.59	1.05	0.54
2018	1.12	-0.04	0.07	0.46	0.03	-0.04	0.04	0.21	-0.17
<b>Percentage change, latest quarter on previous quarter</b>									
<b>Growth</b>									
2016 Q2	KGZ6 0.8	KH27 0.7	KH2J -0.1	ZZ5H -2.5	KG7Q 1.6	KG7P 0.9	KH2V 0.9	KH3O 0.6	
Q3	1.2	-	-	9.0	1.5	1.5	-3.2	3.1	
Q4	-	0.5	-	-5.3	-0.6	-1.0	6.6	0.2	
2017 Q1	0.7	-0.4	-0.6	1.4	1.0	-0.2	0.2	0.9	
Q2	0.4	-0.1	0.5	-0.7	1.9	1.3	1.2	0.9	
Q3	0.5	-0.6	0.1	-0.6	0.3	0.9	1.9	0.6	
Q4	0.3	-0.1	-	0.3	0.7	0.4	0.1	-0.6	
2018 Q1	0.5	-0.2	0.2	-0.7	-0.8	-0.6	-1.3	-0.6	
Q2	0.5	-0.6	-0.4	3.3	-0.6	-0.4	-1.0	0.4	
Q3	0.4	-0.5	-0.1	2.5	0.9	-0.6	0.9	0.7	
Q4	0.3	-0.2	1.3	-0.4	-0.6	-0.9	1.6	2.1	
<b>Contributions to growth</b>									
2016 Q2	ZZ5M 0.51	ZZ5N 0.02	ZZ5O -0.02	ZZ5P -0.43	ZZ5Q 0.26	ZZ5R 0.08	ZZ5S 0.26	ZZ5T 0.18	ZZ5U 0.07
Q3	0.75	-	-	1.50	0.25	0.15	-0.87	0.89	-1.76
Q4	-	0.01	0.01	-0.95	-0.10	-0.10	1.75	0.05	1.70
2017 Q1	0.46	-0.01	-0.12	0.25	0.17	-0.02	0.05	0.26	-0.21
Q2	0.24	-	0.09	-0.11	0.32	0.12	0.36	0.27	0.09
Q3	0.32	-0.02	0.02	-0.10	0.05	0.08	0.56	0.17	0.39
Q4	0.22	-	0.01	0.05	0.11	0.04	0.03	-0.17	0.20
2018 Q1	0.31	-0.01	0.03	-0.12	-0.13	-0.06	-0.40	-0.18	-0.21
Q2	0.35	-0.02	-0.07	0.56	-0.09	-0.04	-0.29	0.12	-0.41
Q3	0.24	-0.01	-0.01	0.44	0.15	-0.06	0.25	0.22	0.03
Q4	0.19	-	0.23	-0.07	-0.11	-0.08	0.48	0.64	-0.17
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>									
<b>Growth</b>									
2016 Q2	KGZ7 3.3	KH28 0.4	KH2K 0.7	ZZ5Y 0.5	KG7T 1.1	KG7S -1.1	KH2W 1.1	KH3P 3.2	
Q3	3.2	1.2	0.2	10.2	4.9	2.9	-1.2	6.1	
Q4	3.1	1.5	0.4	-1.2	2.5	-0.4	3.3	3.5	
2017 Q1	2.8	0.7	-0.7	2.2	3.5	1.2	4.4	4.8	
Q2	2.3	-0.1	-0.1	4.1	3.8	1.6	4.7	5.1	
Q3	1.6	-0.6	-	-5.1	2.6	0.9	10.2	2.5	
Q4	2.0	-1.2	-	0.5	3.9	2.4	3.5	1.8	
2018 Q1	1.7	-1.0	0.8	-1.7	2.1	1.9	1.9	0.3	
Q2	1.9	-1.5	-0.1	2.2	-0.4	0.2	-0.3	-0.2	
Q3	1.8	-1.4	-0.3	5.4	0.2	-1.3	-1.3	-0.1	
Q4	1.7	-1.4	1.0	4.7	-1.1	-2.5	0.2	2.6	
<b>Contributions to growth</b>									
2016 Q2	ZZ65 2.04	ZZ66 0.01	ZZ67 0.14	ZZ68 0.09	ZZ69 0.19	ZZ6A -0.11	ZZ6B 0.30	ZZ6C 0.92	ZZ6D -0.62
Q3	2.00	0.04	0.03	1.70	0.81	0.28	-0.32	1.73	-2.06
Q4	1.95	0.04	0.07	-0.21	0.41	-0.03	0.90	1.01	-0.11
2017 Q1	1.73	0.02	-0.13	0.37	0.58	0.11	1.23	1.41	-0.18
Q2	1.47	-	-0.02	0.68	0.65	0.15	1.33	1.50	-0.17
Q3	1.04	-0.02	-	-0.92	0.45	0.09	2.79	0.76	2.03
Q4	1.25	-0.04	-	0.08	0.65	0.22	1.00	0.53	0.47
2018 Q1	1.10	-0.03	0.15	-0.29	0.35	0.18	0.58	0.09	0.48
Q2	1.20	-0.04	-0.02	0.39	-0.07	0.02	-0.08	-0.07	-0.02
Q3	1.12	-0.04	-0.05	0.93	0.03	-0.12	-0.40	-0.02	-0.38
Q4	1.09	-0.04	0.18	0.80	-0.19	-0.24	0.05	0.81	-0.76

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

for this component are available in table C2

3 Non-profit institutions serving households

4 Please refer to footnote 7 on 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

# AC

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

### Current Prices

#### Seasonally adjusted data

	Compensation 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>				
2016	KGI3 3.8	KH4V 4.5	KH6T 3.4	KH65 4.0
2017	4.2	3.7	1.3	5.0
2018	4.2	0.1	4.4	2.8
<b>Contributions to growth</b>				
2016	ZZ7H 1.85	ZZ7I 0.98	ZZ7J 0.58	ZZ7K 0.49
2017	2.07	0.82	0.23	0.62
2018	2.06	0.03	0.73	0.35
<b>Percentage change, latest quarter on previous quarter</b>				
<b>Growth</b>				
2016 Q2	KGI4 3.0	KH4W -4.5	KH6U 1.5	KH66 1.3
Q3	1.9	-0.4	-0.1	0.1
Q4	-0.2	6.2	-0.2	2.2
2017 Q1	0.8	2.2	0.7	-0.3
Q2	1.5	-3.9	0.3	2.9
Q3	0.7	1.5	0.2	2.3
Q4	1.0	2.1	0.6	-0.6
2018 Q1	1.0	0.1	1.6	-1.1
Q2	0.9	-2.5	1.5	4.1
Q3	1.6	1.2	1.4	-0.9
Q4	0.8	0.4	1.4	-0.3
<b>Contributions to growth</b>				
2016 Q2	ZZ6Z 1.53	ZZ72 -1.07	ZZ73 0.28	ZZ74 0.17
Q3	0.99	-0.09	-0.02	0.02
Q4	-0.09	1.35	-0.04	0.27
2017 Q1	0.41	0.50	0.12	-0.04
Q2	0.81	-0.97	0.05	0.39
Q3	0.36	0.33	0.03	0.29
Q4	0.49	0.44	0.10	-0.07
2018 Q1	0.51	0.02	0.27	-0.14
Q2	0.48	-0.57	0.26	0.52
Q3	0.76	0.24	0.22	-0.11
Q4	0.42	0.09	0.24	-0.04
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>				
<b>Growth</b>				
2016 Q2	KGI5 4.2	KH4X -1.2	KH6V 4.6	KH67 3.9
Q3	4.6	3.9	2.4	2.4
Q4	4.0	9.7	1.5	4.6
2017 Q1	5.7	3.3	1.9	3.4
Q2	4.2	3.9	0.6	5.1
Q3	2.9	5.9	1.0	7.3
Q4	4.1	1.7	1.8	4.3
2018 Q1	4.3	-0.4	2.7	3.5
Q2	3.7	1.1	3.9	4.7
Q3	4.6	0.8	5.1	1.5
Q4	4.4	-0.9	6.0	1.8
<b>Contributions to growth</b>				
2016 Q2	ZZ79 2.02	ZZ7A -0.28	ZZ7B 0.78	ZZ7C 0.47
Q3	2.27	0.83	0.40	0.29
Q4	1.99	2.08	0.26	0.57
2017 Q1	2.77	0.76	0.33	0.42
Q2	2.06	0.86	0.11	0.62
Q3	1.45	1.26	0.16	0.89
Q4	2.02	0.39	0.30	0.53
2018 Q1	2.05	-0.09	0.44	0.42
Q2	1.78	0.22	0.64	0.57
Q3	2.23	0.17	0.84	0.18
Q4	2.16	-0.19	0.99	0.22

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						
	Households	Non-profit institutions <sup>2</sup>	General government	Gross capital formation	Gross fixed capital formation	Total exports	less Total imports
<b>Percentage change, latest year on previous year</b>							
2016	ZZ93 1.5	ZZ94 0.5	ZZ95 1.2	ZZ96 2.5	ZZ97 1.4	ZZ98 6.1	ZZ99 4.1
2017	2.1	1.4	2.2	3.6	2.4	5.0	5.4
2018	2.3	1.8	2.5	0.7	2.1	2.6	3.0
<b>Percentage change, latest quarter on previous quarter</b>							
2016 Q2	ZZ8N 0.4	ZZ8O -0.2	ZZ8P —	ZZ8Q 2.5	ZZ8R 0.6	ZZ8S 2.6	ZZ8T 2.4
Q3	0.1	0.6	0.5	-0.3	0.4	5.1	3.8
Q4	1.0	0.2	0.8	-1.9	1.0	2.3	1.9
2017 Q1	0.8	0.5	0.9	2.6	0.4	0.1	1.0
Q2	0.2	0.4	-0.1	0.8	0.5	-0.2	0.3
Q3	0.1	0.5	0.4	2.6	0.6	0.2	0.4
Q4	0.7	0.2	1.0	0.4	0.8	0.3	0.6
2018 Q1	0.9	0.5	0.6	-1.3	0.6	0.4	-0.1
Q2	0.4	0.6	0.8	-0.7	0.4	1.8	1.8
Q3	0.5	0.5	0.9	1.5	0.2	1.0	1.9
Q4	0.6	0.4	-0.2	0.2	0.5	0.3	—
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>							
2016 Q2	ZZ8U 1.3	ZZ8V 0.8	ZZ8W 1.6	ZZ8X -0.9	ZZ8Y 1.5	ZZ8Z 2.7	ZZ92 1.3
Q3	1.8	0.5	0.9	1.6	1.3	9.6	6.9
Q4	1.8	0.6	2.2	5.7	2.3	12.1	9.8
2017 Q1	2.4	1.1	2.2	2.8	2.5	10.5	9.3
Q2	2.1	1.6	2.1	1.2	2.4	7.5	7.0
Q3	2.1	1.5	2.0	4.1	2.5	2.4	3.6
Q4	1.8	1.5	2.3	6.5	2.3	0.3	2.3
2018 Q1	2.0	1.5	1.9	2.5	2.5	0.6	1.2
Q2	2.2	1.8	2.9	0.9	2.3	2.6	2.8
Q3	2.6	1.8	3.3	-0.2	2.0	3.5	4.3
Q4	2.4	2.0	2.0	-0.3	1.7	3.5	3.6

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

	Agriculture, forestry, and fishing	Total Production	Mining & quarrying inc oil & gas extract	Manufacturing	Electric, gas, steam & air	Water supply, sewerage	Construction	Total Services	Distribu- tion, hotels & restaurants	Transport, storage and communi- cations	Business services and finance	Govern- ment & other services
<b>Percentage change, latest year on previous year</b>												
<b>Current estimates<sup>3</sup></b>												
2016	L3BB	L3BG	L3BH	L3BN	L3DM	L3DQ	L3DW	L3E2	L3GP	KI8L	KI8N	KI8P
2016	-5.6	1.0	0.3	0.4	2.1	5.6	4.1	1.9	3.8	3.4	2.1	-
2017	3.0	1.8	-0.6	2.5	-1.6	3.4	7.1	2.1	2.2	4.9	2.2	0.6
2018	-2.3	0.8	4.3	0.9	-0.6	-1.4	0.3	1.7	2.8	3.8	1.6	0.3
<b>Previous estimates<sup>2</sup></b>												
2016	A2EQ	A2ER	A2ET	A2ES	A2EU	A2EV	A2EW	A2EY	A2F2	A2F3	A2F4	A2F5
2016	-5.6	1.0	0.3	0.4	2.1	5.6	4.1	1.9	3.8	3.4	2.1	-
2017	3.0	1.8	-0.6	2.5	-1.6	3.4	7.1	2.1	2.2	4.9	2.2	0.6
2018	-2.9	0.7	2.7	0.9	0.6	-2.3	0.7	1.7	2.7	3.3	1.8	0.1
<b>Revisions</b>												
2016	ZZ52	ZZ53	ZZ55	ZZ54	ZZ56	ZZ57	ZZ58	ZZ59	ZZ5A	ZZ5B	ZZ5C	ZZ5D
2016	-	-	-	-	-	-	-	-	-	-	-	-
2017	-	-	-	-	-	-	-	-	-	-	-	-
2018	0.6	0.1	1.6	-	-1.2	0.9	-0.4	-	0.1	0.5	-0.2	0.2
<b>Percentage change, latest quarter on previous quarter</b>												
<b>Current estimates<sup>3</sup></b>												
2016 Q2	L3BB	L3BG	L3BH	L3BN	L3DM	L3DQ	L3DW	L3E2	L3GP	KI8L	KI8N	KI8P
2016 Q2	-1.1	1.8	2.2	1.2	4.6	2.8	1.7	0.1	0.5	0.2	0.3	-0.4
Q3	-0.2	-0.4	5.1	-0.5	-3.9	0.1	1.1	0.8	0.9	2.9	0.7	-0.1
Q4	0.6	0.6	-7.8	1.3	2.4	0.6	2.9	0.8	1.7	1.8	0.5	0.1
2017 Q1	2.1	0.3	2.6	0.5	-3.9	3.1	3.2	0.5	-0.2	0.4	0.8	0.5
Q2	0.6	0.3	1.5	0.1	0.9	-0.8	0.2	0.4	0.3	1.2	0.2	0.3
Q3	0.6	1.0	0.1	1.1	2.2	-0.5	0.7	0.4	0.5	0.7	0.6	-0.1
Q4	-0.1	0.6	-4.5	1.5	-0.8	-	0.3	0.3	0.2	1.3	0.4	-0.3
2018 Q1	-2.1	0.1	4.6	-0.3	1.1	-1.9	-1.5	0.3	0.3	0.2	0.5	0.1
Q2	-0.9	-0.6	2.5	-0.5	-3.7	0.6	0.5	0.6	1.7	1.2	0.2	0.1
Q3	-0.1	0.6	2.2	0.2	1.6	1.6	1.8	0.6	1.0	1.8	0.3	0.3
Q4	0.6	-0.8	-0.8	-0.7	-1.5	-0.9	-0.5	0.5	0.3	0.8	0.4	0.6
<b>Previous estimates<sup>2</sup></b>												
2016 Q2	A2CX	A2CY	A2DO	A2DL	A2DR	A2DS	A2DT	A2DU	A2DV	A2DW	A2DX	A2DY
2016 Q2	-1.1	1.8	2.2	1.2	4.6	2.8	1.7	0.1	0.5	0.2	0.3	-0.4
Q3	-0.2	-0.4	5.1	-0.5	-3.9	0.1	1.1	0.8	0.9	2.9	0.7	-0.1
Q4	0.6	0.6	-7.8	1.3	2.4	0.6	2.9	0.8	1.7	1.8	0.5	0.1
2017 Q1	2.1	0.3	2.6	0.5	-3.9	3.1	3.2	0.5	-0.2	0.4	0.8	0.5
Q2	0.6	0.3	1.5	0.1	0.9	-0.8	0.2	0.4	0.3	1.2	0.2	0.3
Q3	0.6	1.0	0.1	1.1	2.2	-0.5	0.7	0.4	0.5	0.7	0.6	-0.1
Q4	-0.1	0.6	-4.5	1.5	-0.8	-	0.3	0.3	0.2	1.3	0.4	-0.3
2018 Q1	-3.1	0.1	4.6	-0.4	2.2	-2.4	-1.2	0.3	0.4	-0.1	0.5	0.1
Q2	-0.2	-0.6	1.0	-0.4	-3.5	0.4	0.3	0.6	1.6	1.2	0.3	0.1
Q3	-0.5	0.6	1.7	0.2	1.7	0.8	2.1	0.5	1.0	1.5	0.3	0.1
Q4	1.1	-1.1	-1.4	-0.9	-2.0	-0.4	-0.3	0.4	0.3	0.4	0.6	0.3
<b>Revisions</b>												
2016 Q2	ZZ4A	ZZ4B	ZZ4D	ZZ4C	ZZ4E	ZZ4F	ZZ4G	ZZ4H	ZZ4I	ZZ4J	ZZ4K	ZZ4L
2016 Q2	-	-	-	-	-	-	-	-	-	-	-	-
Q3	-	-	-	-	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-	-	-	-	-
2017 Q1	-	-	-	-	-	-	-	-	-	-	-	-
Q2	-	-	-	-	-	-	-	-	-	-	-	-
Q3	-	-	-	-	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-	-	-	-	-
2018 Q1	1.0	-	-	0.1	-1.1	0.5	-0.3	-	-0.1	0.3	-	-
Q2	-0.7	-	1.5	-0.1	-0.2	0.2	0.2	-	0.1	-	-0.1	-
Q3	0.4	-	0.5	-	-0.1	0.8	-0.3	0.1	-	0.3	-	0.2
Q4	-0.5	0.3	0.6	0.2	0.5	-0.5	-0.2	0.1	-	0.4	-0.2	0.3

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

**A E**
**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

	Agriculture, forestry, and fishing	Total Production	Mining & quarrying inc oil & gas extract	Manufacturing	Electric, gas, steam & air	Water supply, sewerage	Construction	Total Services	Distribu- tion, hotels & restaurants	Transport, storage and communi- cations	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>												
2016 Q2	L3ZZ	L426	L427	L42D	L44C	L44G	L44M	L44Q	L47F	KI2	KIH9	KIH8
Q2	-6.8	1.0	-2.5	0.5	5.0	5.4	3.0	1.6	3.2	1.8	2.0	-0.1
Q3	-6.5	0.9	3.3	0.4	0.1	5.1	4.7	1.9	3.7	4.0	2.1	-0.3
Q4	-4.3	2.1	-2.8	1.9	5.0	5.3	6.1	2.1	4.4	5.3	1.9	-0.5
2017 Q1	1.5	2.3	1.6	2.5	-1.2	6.7	9.2	2.2	3.0	5.4	2.3	0.2
Q2	3.2	0.7	0.9	1.4	-4.6	2.9	7.6	2.5	2.7	6.4	2.2	0.8
Q3	4.0	2.2	-4.0	3.0	1.4	2.3	7.1	2.1	2.4	4.2	2.1	0.8
Q4	3.2	2.2	-0.5	3.2	-1.7	1.7	4.5	1.6	0.8	3.7	2.0	0.4
2018 Q1	-1.0	2.0	1.4	2.3	3.5	-3.2	-0.3	1.4	1.4	3.4	1.7	-
Q2	-2.5	1.1	2.5	1.7	-1.3	-1.8	-	1.6	2.9	3.4	1.7	-0.1
Q3	-3.2	0.8	4.6	0.9	-1.9	0.2	1.2	1.9	3.4	4.5	1.4	0.3
Q4	-2.5	-0.7	8.7	-1.3	-2.5	-0.7	0.3	2.0	3.5	3.9	1.4	1.1
<b>Previous estimates<sup>2</sup></b>												
2016 Q2	A2DZ	A2E2	A2E4	A2E3	A2E5	A2EE	A2EK	A2EL	A2EM	A2EN	A2EO	A2EP
Q2	-6.8	1.0	-2.5	0.5	5.0	5.4	3.0	1.6	3.2	1.8	2.0	-0.1
Q3	-6.5	0.9	3.3	0.4	0.1	5.1	4.7	1.9	3.7	4.0	2.1	-0.3
Q4	-4.3	2.1	-2.8	1.9	5.0	5.3	6.1	2.1	4.4	5.3	1.9	-0.5
2017 Q1	1.5	2.3	1.6	2.5	-1.2	6.7	9.2	2.2	3.0	5.4	2.3	0.2
Q2	3.2	0.7	0.9	1.4	-4.6	2.9	7.6	2.5	2.7	6.4	2.2	0.8
Q3	4.0	2.2	-4.0	3.0	1.4	2.3	7.1	2.1	2.4	4.2	2.1	0.8
Q4	3.2	2.2	-0.5	3.2	-1.7	1.7	4.5	1.6	0.8	3.7	2.0	0.4
2018 Q1	-2.1	2.0	1.5	2.3	4.6	-3.7	-	1.4	1.4	3.1	1.8	0.1
Q2	-2.9	1.2	1.0	1.8	-	-2.5	0.2	1.7	2.8	3.2	1.9	-0.1
Q3	-3.9	0.7	2.6	0.9	-0.5	-1.2	1.5	1.8	3.3	4.0	1.7	-
Q4	-2.8	-1.0	5.9	-1.5	-1.7	-1.6	0.9	1.9	3.4	3.0	1.8	0.6
<b>Revisions</b>												
2016 Q2	ZZ4N	ZZ4O	ZZ4Q	ZZ4P	ZZ4R	ZZ4S	ZZ4T	ZZ4U	ZZ4V	ZZ4W	ZZ4X	ZZ4Y
Q2	-	-	-	-	-	-	-	-	-	-	-	-
Q3	-	-	-	-	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-	-	-	-	-
2017 Q1	-	-	-	-	-	-	-	-	-	-	-	-
Q2	-	-	-	-	-	-	-	-	-	-	-	-
Q3	-	-	-	-	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-	-	-	-	-
2018 Q1	1.1	-	-0.1	-	-1.1	0.5	-0.3	-	-	0.3	-0.1	-0.1
Q2	0.4	-0.1	1.5	-0.1	-1.3	0.7	-0.2	-0.1	0.1	0.2	-0.2	-
Q3	0.7	0.1	2.0	-	-1.4	1.4	-0.3	0.1	0.1	0.5	-0.3	0.3
Q4	0.3	0.3	2.8	0.2	-0.8	0.9	-0.6	0.1	0.1	0.9	-0.4	0.5

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 GDP first quarterly estimate

3 Current estimate refers to the estimates released within this publication (Quarterly National Accounts)

# 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-profit institutions <sup>3</sup>	General government <sup>5</sup>	Gross Capital Formation	Gross Fixed Capital Formation	Business investment	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	
2016	3.2	0.8	0.8	1.6	2.3	-0.2	1.0	3.3	
2017	2.2	-0.3	-0.2	0.3	3.5	1.5	5.6	3.5	
2018	1.8	-1.3	0.4	2.7	0.2	-0.4	0.1	0.7	
<b>Previous estimates<sup>2</sup></b>									
	A275	A276	A289	A28J	A28L	A29D	A29F	A2CK	
2016	3.2	0.8	0.8	1.6	2.3	-0.2	1.0	3.3	
2017	2.2	-0.3	-0.2	0.3	3.5	1.5	5.6	3.5	
2018	1.9	-1.4	0.2	2.1	-	-0.9	0.2	0.8	
<b>Revisions</b>									
	ZZ83	ZZ84	ZZ85	ZZ86	ZZ87	ZZ88	ZZ89	ZZ8A	
2016	-	-	-	-	-	-	-	-	
2017	-	-	-	-	-	-	-	-	
2018	-0.1	0.1	0.2	0.6	0.2	0.5	-0.1	-0.1	
<b>Percentage change, latest quarter on previous quarter</b>									
<b>Current estimates<sup>4</sup></b>									
	KGZ6	KH27	KH2J	ZZ5H	KG7Q	KG7P	KH2V	KH3O	
2016 Q2	0.8	0.7	-0.1	-2.5	1.6	0.9	0.9	0.6	
Q3	1.2	-	-	9.0	1.5	1.5	-3.2	3.1	
Q4	-	0.5	-	-5.3	-0.6	-1.0	6.6	0.2	
2017 Q1	0.7	-0.4	-0.6	1.4	1.0	-0.2	0.2	0.9	
Q2	0.4	-0.1	0.5	-0.7	1.9	1.3	1.2	0.9	
Q3	0.5	-0.6	0.1	-0.6	0.3	0.9	1.9	0.6	
Q4	0.3	-0.1	-	0.3	0.7	0.4	0.1	-0.6	
2018 Q1	0.5	-0.2	0.2	-0.7	-0.8	-0.6	-1.3	-0.6	
Q2	0.5	-0.6	-0.4	3.3	-0.6	-0.4	-1.0	0.4	
Q3	0.4	-0.5	-0.1	2.5	0.9	-0.6	0.9	0.7	
Q4	0.3	-0.2	1.3	-0.4	-0.6	-0.9	1.6	2.1	
<b>Previous estimates<sup>2</sup></b>									
	A24M	A24X	A24Y	A25I	A25J	A25M	A264	A268	
2016 Q2	0.8	0.7	-0.1	-2.5	1.6	0.9	0.9	0.6	
Q3	1.2	-	-	9.0	1.5	1.5	-3.2	3.1	
Q4	-	0.5	-	-5.3	-0.6	-1.0	6.6	0.2	
2017 Q1	0.7	-0.4	-0.6	1.4	1.0	-0.2	0.2	0.9	
Q2	0.4	-0.1	0.5	-0.7	1.9	1.3	1.2	0.9	
Q3	0.5	-0.6	0.1	-0.6	0.3	0.9	1.9	0.6	
Q4	0.3	-0.1	-	0.3	0.7	0.4	0.1	-0.6	
2018 Q1	0.4	-0.2	0.1	-1.4	-0.6	-0.6	-	0.3	
Q2	0.7	-0.6	-0.4	4.1	-0.9	-0.5	-2.0	0.1	
Q3	0.4	-0.5	-0.3	2.1	0.6	-1.2	0.2	-	
Q4	0.4	-	1.4	-1.4	-0.5	-1.4	0.9	1.3	
<b>Revisions</b>									
	ZZ7L	ZZ7M	ZZ7N	ZZ7O	ZZ7P	ZZ7Q	ZZ7R	ZZ7S	
2016 Q2	-	-	-	-	-	-	-	-	
Q3	-	-	-	-	-	-	-	-	
Q4	-	-	-	-	-	-	-	-	
2017 Q1	-	-	-	-	-	-	-	-	
Q2	-	-	-	-	-	-	-	-	
Q3	-	-	-	-	-	-	-	-	
Q4	-	-	-	-	-	-	-	-	
2018 Q1	0.1	-	0.1	0.7	-0.2	-	-1.3	-0.9	
Q2	-0.2	-	-	-0.8	0.3	0.1	1.0	0.3	
Q3	-	-	0.2	0.4	0.3	0.6	0.7	0.7	
Q4	-0.1	-0.2	-0.1	1.0	-0.1	0.5	0.7	0.8	

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 estimate refers to estimates from the GDP first quarterly estimate

3 Non-profit institutions serving households

4 Current estimates refer to the estimates within this publication (Quarterly National Accounts)

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

	Final consumption expenditure							
	Households	Non-profit institutions <sup>3</sup>	General government <sup>5</sup>	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>								
2016 Q2	KGZ7 3.3	KH28 0.4	KH2K 0.7	ZZ5Y 0.5	KG7T 1.1	KG7S -1.1	KH2W 1.1	KH3P 3.2
Q3	3.2	1.2	0.2	10.2	4.9	2.9	-1.2	6.1
Q4	3.1	1.5	0.4	-1.2	2.5	-0.4	3.3	3.5
2017 Q1	2.8	0.7	-0.7	2.2	3.5	1.2	4.4	4.8
Q2	2.3	-0.1	-0.1	4.1	3.8	1.6	4.7	5.1
Q3	1.6	-0.6	-	-5.1	2.6	0.9	10.2	2.5
Q4	2.0	-1.2	-	0.5	3.9	2.4	3.5	1.8
2018 Q1	1.7	-1.0	0.8	-1.7	2.1	1.9	1.9	0.3
Q2	1.9	-1.5	-0.1	2.2	-0.4	0.2	-0.3	-0.2
Q3	1.8	-1.4	-0.3	5.4	0.2	-1.3	-1.3	-0.1
Q4	1.7	-1.4	1.0	4.7	-1.1	-2.5	0.2	2.6
<b>Previous estimates<sup>2</sup></b>								
2016 Q2	A26C 3.3	A26H 0.4	A26I 0.7	A26J 0.5	A26K 1.1	A26L -1.1	A26M 1.1	A26N 3.2
Q3	3.2	1.2	0.2	10.2	4.9	2.9	-1.2	6.1
Q4	3.1	1.5	0.4	-1.2	2.5	-0.4	3.3	3.5
2017 Q1	2.8	0.7	-0.7	2.2	3.5	1.2	4.4	4.8
Q2	2.3	-0.1	-0.1	4.1	3.8	1.6	4.7	5.1
Q3	1.6	-0.6	-	-5.1	2.6	0.9	10.2	2.5
Q4	2.0	-1.2	-	0.5	3.9	2.4	3.5	1.8
2018 Q1	1.7	-1.1	0.8	-2.3	2.2	1.9	3.3	1.2
Q2	2.0	-1.6	-0.1	2.3	-0.5	0.2	-	0.4
Q3	1.8	-1.5	-0.5	5.1	-0.3	-1.9	-1.7	-0.1
Q4	1.9	-1.4	0.8	3.3	-1.4	-3.7	-0.9	1.7
<b>Revisions</b>								
2016 Q2	ZZ7T -	ZZ7U -	ZZ7V -	ZZ7W -	ZZ7X -	ZZ7Y -	ZZ7Z -	ZZ82 -
Q3	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-
2017 Q1	-	-	-	-	-	-	-	-
Q2	-	-	-	-	-	-	-	-
Q3	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-
2018 Q1	-	0.1	-	0.6	-0.1	-	-1.4	-0.9
Q2	-0.1	0.1	-	-0.1	0.1	-	-0.3	-0.6
Q3	-	0.1	0.2	0.3	0.5	0.6	0.4	-
Q4	-0.2	-	0.2	1.4	0.3	1.2	1.1	0.9

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 estimate refers to estimates from the GDP first quarterly estimate

3 Non-profit institutions serving households

4 Current estimates refer to the estimates within this publication (Quarterly National Accounts)

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

# AG

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

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>				
2016	KGI3 3.8	KH4V 4.5	KH6T 3.4	KH65 4.0
2017	4.2	3.7	1.3	5.0
2018	4.2	0.1	4.4	2.8
<b>Previous estimates<sup>2</sup></b>				
2016	A2CT 3.8	A2CU 4.5	A2CV 3.4	A2CW 4.0
2017	4.2	3.7	1.3	5.0
2018	4.1	0.4	4.4	2.9
<b>Revisions</b>				
2016	ZZ8J –	ZZ8K –	ZZ8L –	ZZ8M –
2017	–	–	–	–
2018	0.1	-0.3	–	-0.1
<b>Percentage change, latest quarter on previous quarter</b>				
<b>Current estimates<sup>3</sup></b>				
2016 Q2	KGI4 3.0	KH4W -4.5	KH6U 1.5	KH66 1.3
Q3	1.9	-0.4	-0.1	0.1
Q4	-0.2	6.2	-0.2	2.2
2017 Q1	0.8	2.2	0.7	-0.3
Q2	1.5	-3.9	0.3	2.9
Q3	0.7	1.5	0.2	2.3
Q4	1.0	2.1	0.6	-0.6
2018 Q1	1.0	0.1	1.6	-1.1
Q2	0.9	-2.5	1.5	4.1
Q3	1.6	1.2	1.4	-0.9
Q4	0.8	0.4	1.4	-0.3
<b>Previous estimates<sup>2</sup></b>				
2016 Q2	A2CL 3.0	A2CM -4.5	A2CN 1.5	A2CO 1.3
Q3	1.9	-0.4	-0.1	0.1
Q4	-0.2	6.2	-0.2	2.2
2017 Q1	0.8	2.2	0.7	-0.3
Q2	1.5	-3.9	0.3	2.9
Q3	0.7	1.5	0.2	2.3
Q4	1.0	2.1	0.6	-0.6
2018 Q1	1.0	-0.6	1.7	-1.0
Q2	0.7	-0.7	1.4	3.6
Q3	1.5	1.1	1.4	-0.7
Q4	0.9	-0.8	1.2	0.4
<b>Revisions</b>				
2016 Q2	ZZ8B –	ZZ8C –	ZZ8D –	ZZ8E –
Q3	–	–	–	–
Q4	–	–	–	–
2017 Q1	–	–	–	–
Q2	–	–	–	–
Q3	–	–	–	–
Q4	–	–	–	–
2018 Q1	–	0.7	-0.1	-0.1
Q2	0.2	-1.8	0.1	0.5
Q3	0.1	0.1	–	-0.2
Q4	-0.1	1.2	0.2	-0.7

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 estimate refers to estimates from the GDP first quarterly estimate

3 Current estimates refer to estimates within this publication (Quarterly National Accounts)

	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>				
2016 Q2	KGI5 4.2	KH4X -1.2	KH6V 4.6	KH67 3.9
Q3	4.6	3.9	2.4	2.4
Q4	4.0	9.7	1.5	4.6
2017 Q1	5.7	3.3	1.9	3.4
Q2	4.2	3.9	0.6	5.1
Q3	2.9	5.9	1.0	7.3
Q4	4.1	1.7	1.8	4.3
2018 Q1	4.3	-0.4	2.7	3.5
Q2	3.7	1.1	3.9	4.7
Q3	4.6	0.8	5.1	1.5
Q4	4.4	-0.9	6.0	1.8
<b>Previous estimates<sup>2</sup></b>				
2016 Q2	A2CP 4.2	A2CQ -1.2	A2CR 4.6	A2CS 3.9
Q3	4.6	3.9	2.4	2.4
Q4	4.0	9.7	1.5	4.6
2017 Q1	5.7	3.3	1.9	3.4
Q2	4.2	3.9	0.6	5.1
Q3	2.9	5.9	1.0	7.3
Q4	4.1	1.7	1.8	4.3
2018 Q1	4.3	-1.1	2.7	3.6
Q2	3.5	2.2	3.9	4.3
Q3	4.3	1.8	5.1	1.3
Q4	4.2	-1.0	5.8	2.3
<b>Revisions</b>				
2016 Q2	ZZ8F -	ZZ8G -	ZZ8H -	ZZ8I -
Q3	-	-	-	-
Q4	-	-	-	-
2017 Q1	-	-	-	-
Q2	-	-	-	-
Q3	-	-	-	-
Q4	-	-	-	-
2018 Q1	-	0.7	-	-0.1
Q2	0.2	-1.1	-	0.4
Q3	0.3	-1.0	-	0.2
Q4	0.2	0.1	0.2	-0.5

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 estimate refers to estimates from the GDP first quarterly estimate

3 Current estimates refer to estimates within this publication (Quarterly National Accounts)