

Statistical bulletin

## Second estimate of GDP: April to June 2017

The second quarterly estimate of GDP based on additional data but produced later than the preliminary estimate, providing a more precise indication of economic growth.



Contact:  
Robert Kent-Smith  
gdp@ons.gov.uk  
+44(0)1633 651618

Release date:  
24 August 2017

Next release:  
29 September 2017

### Notice

#### 24 August 2017

We informed users on 25th November that, following a quality review, a processing error had been identified in the compilation of the estimates for the rail transport industry (49.1-2), which affects the period Quarter 1 1997 to Quarter 2 2016. In line with the National Accounts revision policy, this error has been corrected in the Index of Services and Quarterly National Accounts published on 23rd December 2016 for data from Quarter 1 2015. Data prior to 2015 will be corrected when next open for revision with Blue Book 2017 consistent releases due for publication on the 29th September 2017. The average impact over this period on quarter-on-quarter Index of Services and GDP growth is 0.00%

We informed users on 30 September 2016 that following a quality review it has been identified that the methodology used to estimate elements of purchased software within gross fixed capital formation (GFCF) has led to some double counting from 1997 onwards. When this issue is amended in The Blue Book 2017 it will reduce the level of GFCF across the period by around 1.1% per year. The average impact on quarter-on-quarter GFCF growth is negative 0.02% and the average impact on quarter-on-quarter GDP growth is 0.00%.

# Table of contents

1. [Main points](#)
2. [Things you need to know about this release](#)
3. [UK GDP growth is unrevised in Quarter 2 \(Apr to June\) 2017](#)
4. [Services continue to dominate growth in the output measure of GDP](#)
5. [Expenditure approach sees a slowdown in household spending growth](#)
6. [Compensation of employees leads growth in the income measure of GDP](#)
7. [How is the UK economy performing compared with other European and non-European countries?](#)
8. [Links to related statistics](#)
9. [Are there any upcoming changes?](#)
10. [Quality and methodology](#)

# 1 . Main points

- UK gross domestic product (GDP) in volume terms was estimated to have increased by 0.3% between Quarter 1 (Jan to Mar) and Quarter 2 (Apr to June) 2017, unrevised from the preliminary estimate.
- In the output measure of GDP, growth was driven by services, which grew by 0.5% between Quarter 1 and Quarter 2.
- In the expenditure measure of GDP there was relatively strong growth in government spending and investment; there was, however, a slowdown in growth in both household spending and business investment, to 0.1% and 0.0% respectively in Quarter 2.
- UK GDP growth in volume terms increased by 1.7% between Quarter 2 2016 and Quarter 2 2017.
- UK GDP in current prices increased by 0.8% between Quarter 1 and Quarter 2 2017.

## 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.

This second estimate of GDP is produced around 7 and a half weeks after the end of the quarter. At this stage the data content of this estimate from the output measure of GDP has risen since the [preliminary estimate](#) to around 90% of the total required for the final output-based estimate. There is also around 70% data content available to produce estimates of GDP from the expenditure approach and 60% data content for the income approach.

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

We launched a consultation on proposed changes to the GDP release schedule on 13 July 2017, including the introduction of monthly GDP estimates. [Further details on the proposal](#), including a survey to respond to the consultation are available on our Consultation Hub.

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.

In line with [National Accounts Revisions Policy](#), the only period open for revision in this release is Quarter 2 (Apr to June) 2017.

Estimates for the most recent quarters are provisional and are subject to revision in the light of updated source information. Revisions to data provide one indication of the reliability of main indicators and we therefore provide an analysis of past revisions in the GDP and other statistical bulletins that present time series. Our [revisions to economic statistics](#) page brings together our work on revisions analysis, linking to articles and revisions policies. Revisions triangles are published on our website for [UK GDP](#), [UK gross value added](#), the [GDP implied deflator](#) and the [expenditure](#) and [income](#) components of GDP.

On 15 June 2017, the National Statistician announced that [pre-release access to Office for National Statistics publications would stop with effect from 1 July 2017](#). This release is therefore the first Second estimate GDP release where ministers and other officials did not receive access to the information prior to publication.

### **3 . UK GDP growth is unrevised in Quarter 2 (Apr to June) 2017**

UK gross domestic product (GDP) increased by 0.3% between Quarter 1 (Jan to Mar) 2017 and Quarter 2 (Apr to June) 2017 and was unrevised from the [preliminary estimate of GDP](#) published on 26 July 2017. Table 1 shows GDP and the headline economic indicators from 2015 onwards, note that in this release only Quarter 2 was open for revision so all periods prior to this are unchanged.

**Table 1: Headline economic indicators and GDP per head for the UK, Quarter 1 (Jan to Mar) 2015 to Quarter 2 (Apr to June) 2017**

	% growth <sup>1</sup>					
	Chained volume measures				Current market prices	
	GDP	Household expenditure	Gross fixed capital formation	GDP per head	GDP	Compensation of employees
	Seasonally adjusted					
2015	2.2	2.5	3.4	1.4	2.8	3.2
2016	1.8	2.8	0.5	1.1	3.6	3.7
Q1 2015	0.3	0.7	1.5	0.0	0.3	0.5
Q2 2015	0.5	0.5	1.2	0.3	1.5	0.8
Q3 2015	0.3	1.1	0.8	0.1	-0.1	0.9
Q4 2015	0.7	0.4	-0.9	0.5	0.4	0.5
Q1 2016	0.2	0.7	0.0	0.0	1.1	0.4
Q2 2016	0.6	0.8	0.2	0.4	1.5	2.1
Q3 2016	0.5	0.8	0.6	0.3	0.6	1.1
Q4 2016	0.7	0.7	0.1	0.5	1.5	0.4
Q1 2017	0.2	0.4	1.0	0.0	0.7	0.6
Q2 2017	0.3	0.1	0.7	0.1	0.8	1.2

Source: Office for National Statistics

Notes:

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

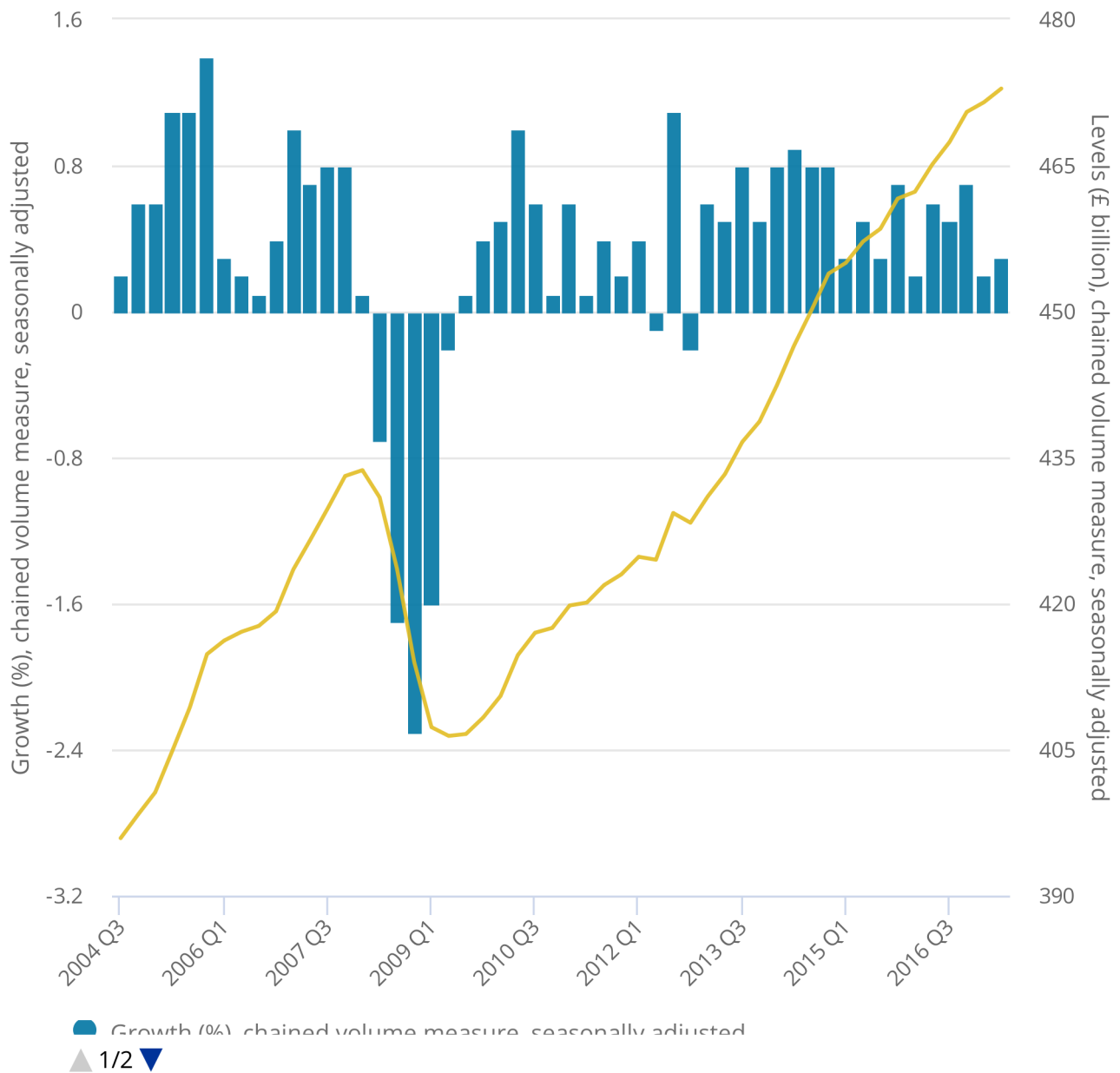
Figure 1 shows the seasonally adjusted level of GDP along with quarterly growths. The growth between Quarter 1 (Jan to Mar) 2017 and Quarter 2 (Apr to June) 2017 is the 18th consecutive quarterly increase and continues the UK's period of growth since Quarter 1 2013.

**Figure 1: Quarterly growth and levels of GDP for the UK, Table A2, chained volume measures, seasonally adjusted**

Quarter 3 (July to Sept) 2004 to Quarter 2 (Apr to June) 2017

Figure 1: Quarterly growth and levels of GDP for the UK, Table A2, chained volume measures, seasonally adjusted

Quarter 3 (July to Sept) 2004 to Quarter 2 (Apr to June) 2017



Source: Office for National Statistics

Source: Office for National Statistics

Notes:

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

UK GDP growth in volume terms increased by 1.7% between Quarter 2 2016 and Quarter 2 2017, a slowing down when compared with the 2.0% growth seen between Quarter 1 2016 and Quarter 1 2017.

## **GDP per head**

GDP per head is calculated by dividing GDP in chained volume measures by the latest population estimates and projections. It is not a measure of productivity or well-being, but is a useful statistic as it removes the impact of the changing size of the population from headline GDP figures.

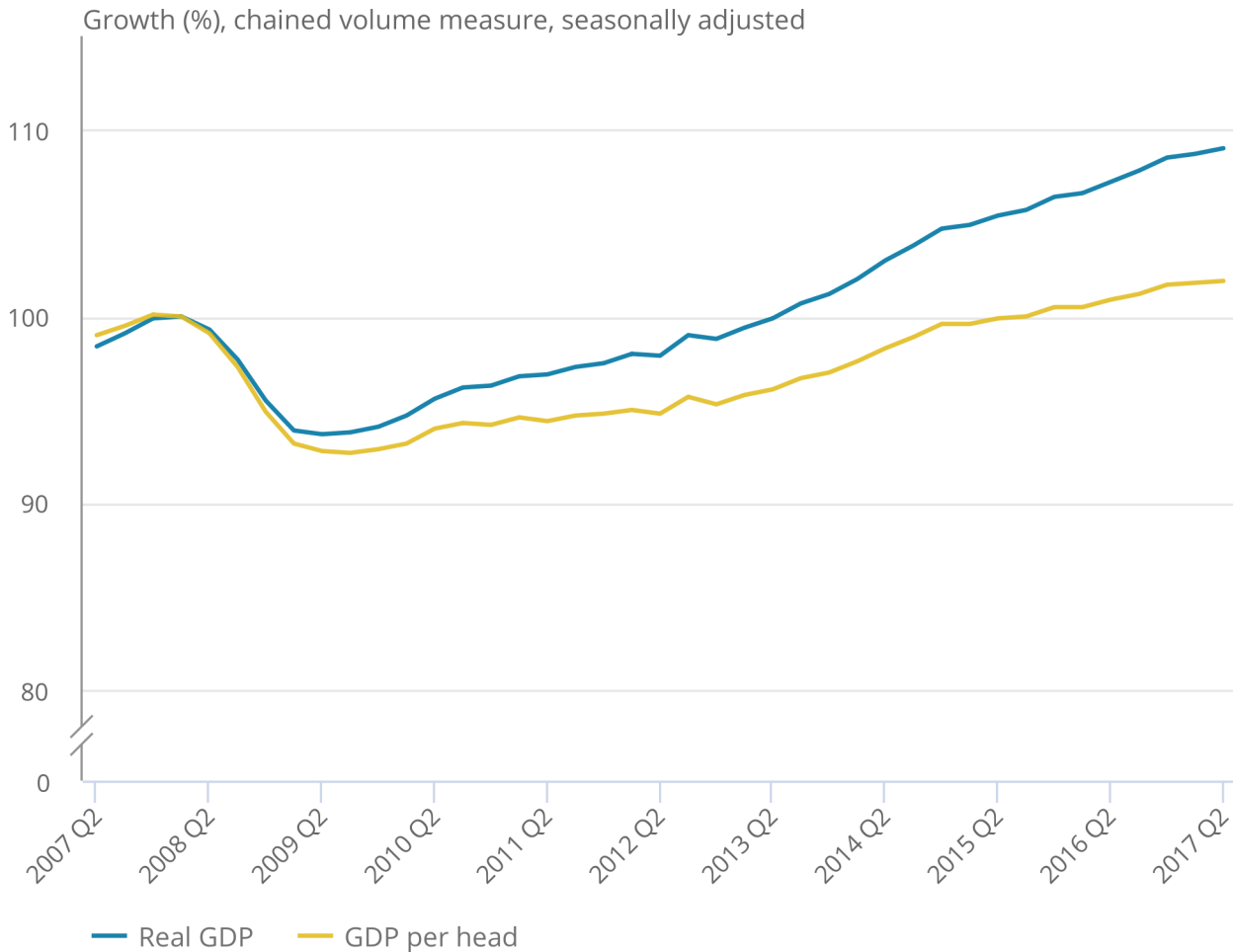
In Quarter 2 (Apr to June) 2017, GDP per head grew by 0.1% compared with Quarter 1 (Jan to Mar) 2017. GDP per head is now 1.9% above the GDP pre-economic downturn peak in Quarter 1 2008, having surpassed it in Quarter 4 (Oct to Dec) 2015 (Figure 2).

**Figure 2: Quarterly growth of UK GDP and GDP per head for the UK, indexed to Quarter 1 (Jan to Mar) 2008 = 100**

Quarter 2 (Apr to June) 2007 to Quarter 2 2017

Figure 2: Quarterly growth of UK GDP and GDP per head for the UK, indexed to Quarter 1 (Jan to Mar) 2008 &#x3D; 100

Quarter 2 (Apr to June) 2007 to Quarter 2 2017



Source: Office for National Statistics

**Source: Office for National Statistics**

**Notes:**

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

The [population estimates](#) used in this release are those published on 23 June 2016 and the [population projections](#) used are those published on 29 October 2015. The latest population estimates published on 22 June 2017 will be included in the quarterly national accounts release on 29 September 2017.



## 4 . Services continue to dominate growth in the output measure of GDP

The output approach to measuring GDP involves estimating production activity within the UK economy. It increased by 0.3% between Quarter 1 (Jan to Mar) 2017 and Quarter 2 (Apr to June) 2017 and was unrevised from the [preliminary estimate of GDP](#) published on 26 July 2017.

In Quarter 2 2017, two of the four sectors showed positive growth, while two decreased:

- agriculture increased by 0.4%
- total production decreased by 0.3%
- construction decreased by 1.3%
- total services increased by 0.5%

The largest component within the output approach of GDP is the services industries, which drove the growth in the output measure of GDP. Growth was broad-based with all four sub-sectors of the services industries increasing between Quarter 1 2017 and Quarter 2 2017. The next largest contribution came from distribution, hotels and restaurants, which grew by 0.9%; with retail trade except of motor vehicles and motor cycles providing most of this increase.

Within production, two of the four components decreased between Quarter 1 2017 and Quarter 2 2017, resulting in a decline in total production output. The greatest decrease was in manufacturing (the largest component of production) at 0.6%. Electricity, gas, steam and air conditioning supply decreased by 0.2%. These decreases were moderated by an increase in mining and quarrying, at 0.4% and water supply and sewerage, at 0.1%.

Construction output was estimated to have decreased by 1.3% in the second quarter of 2017, this compares with an increase of 1.1% in the first quarter of 2017. This contraction was driven by falls in both new work, and repair and maintenance. Further information can be found in the [Construction output in Great Britain statistical bulletin](#).

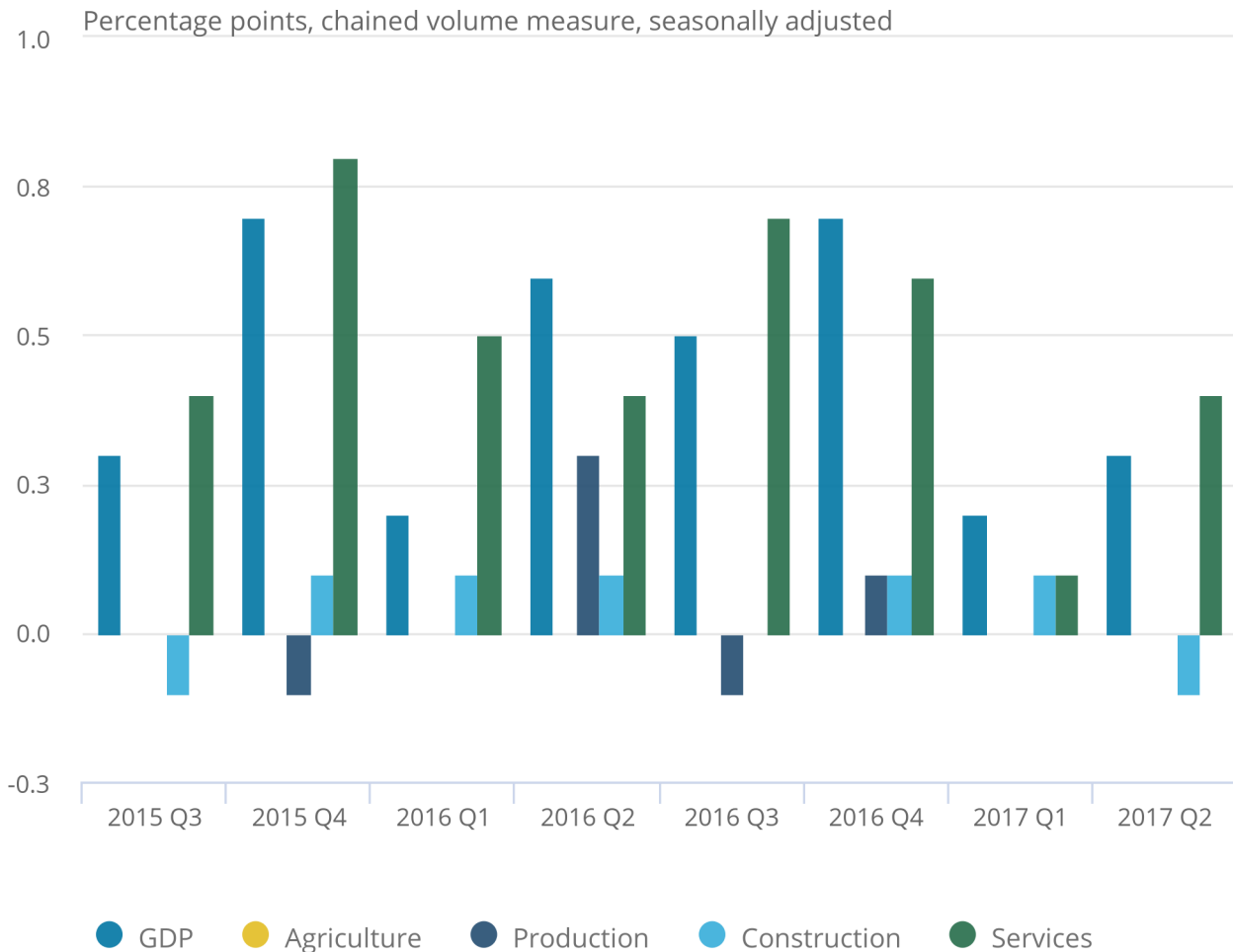
Figure 3 shows the contributions to growth from the sectors of output. The services industries are the only positive contributor to output GDP growth in Quarter 2 2017, at 0.4 percentage points, while production and construction both fell and together detracted around 0.1 percentage points from the 0.3% UK GDP quarterly growth.

**Figure 3: Output components percentage contribution to UK GDP growth, quarter-on-quarter**

Quarter 3 (July to Sept) 2015 to Quarter 2 (Apr to June) 2017

Figure 3: Output components percentage contribution to UK GDP growth, quarter-on-quarter

Quarter 3 (July to Sept) 2015 to Quarter 2 (Apr to June) 2017



Source: Office for National Statistics

Source: Office for National Statistics

**Notes:**

1. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept) and Q4 refers to Quarter 4 (Oct to Dec)
2. Contributions are to output gross value added and therefore may not sum to the percentage change in average GDP

Further detail on the services industries' lower-level components can be found in the [Index of Services statistical bulletin](#).

## 5 . Expenditure approach sees a slowdown in household spending growth

The expenditure approach to measuring GDP involves estimating all final expenditures within the UK economy. This measure increased by 0.3% between Quarter 1 (Jan to Mar) 2017 and Quarter 2 (Apr to June) 2017.

Household final consumption expenditure (HHFCE) or household spending grew by 0.1% between Quarter 1 2017 and Quarter 2 2017. This was the lowest HHFCE quarterly growth figure since Quarter 4 (Oct to Dec) 2014 and is in line with a [wider narrative of a deterioration of the economic position of consumers in the start of 2017](#).

The slowdown in growth in household spending in Quarter 2, compared with 0.4% growth in Quarter 1, was driven by a decline in growth in household expenditure on transport (including motor cars). Household expenditure on transport declined by 2.2% in Quarter 2 compared with a relatively strong Quarter 1 performance, where transport grew by 1.4%. This corresponds with reports from the society of motor manufacturers and traders (SMMT) that sales of new cars increased in Quarter 1, followed by a decline in the new car market in Quarter 2, as a result of changes to Vehicle Excise Duty (VED). The increased VED on high-polluting vehicles (which came into force in April 2017) led to consumers bringing forward planned new car purchases into Quarter 1 leading to a subsequent fall-off in purchases in the latest quarter.

As part of our quality assurance process to ensure coherence across the different measures of GDP we compared the spending data on the motor trades in the expenditure measure and the sales of vehicles in the output approach, which concluded in a review of the seasonal adjustment. This review indicated that the sales of motor vehicles in the output approach for Quarter 1 figure should be a little higher (and would not impact on headline GDP growth). As Quarter 1 is not open for revision in this release we have ensured the correct growth between Quarter 1 and Quarter 2, should the first quarter have been open for revision. Quarter 1 will be updated in the September quarterly national accounts when both quarters are open for revision. Note that increased data content available in the quarterly national accounts publication may lead to further revision in either the output or expenditure approach.

General Government final consumption expenditure (GGFCE) showed growth of 0.6% in Quarter 2 2017, the largest contributor to this was healthcare which was partially offset by a fall in public administration expenditure.

In Quarter 2 2017, gross fixed capital formation (GFCF) increased by 0.7% compared with Quarter 1 2017. Within GFCF, growth in business investment between Quarter 1 and Quarter 2 2017 was flat. The sectors contributing to GFCF growth between Quarter 1 and Quarter 2 were general government, public sector dwellings and private sector transfer costs. Further details can be found within the [Business investment release](#).

Imports of goods and services have increased, by 0.4% and 1.8% respectively, between Quarter 1 and Quarter 2. Exports of goods also increased, by 1.5%, but exports of services decreased by 0.4%. As discussed in the [UK trade release \(10 August 2017\)](#) although the depreciation of sterling has caused a rise in trade prices, there have also been increases in volumes of imports and exports. Overall this has led to a slight widening of the trade balance in volume terms from negative £13.7 billion in Quarter 1 2017 to negative £13.8 billion in Quarter 2.

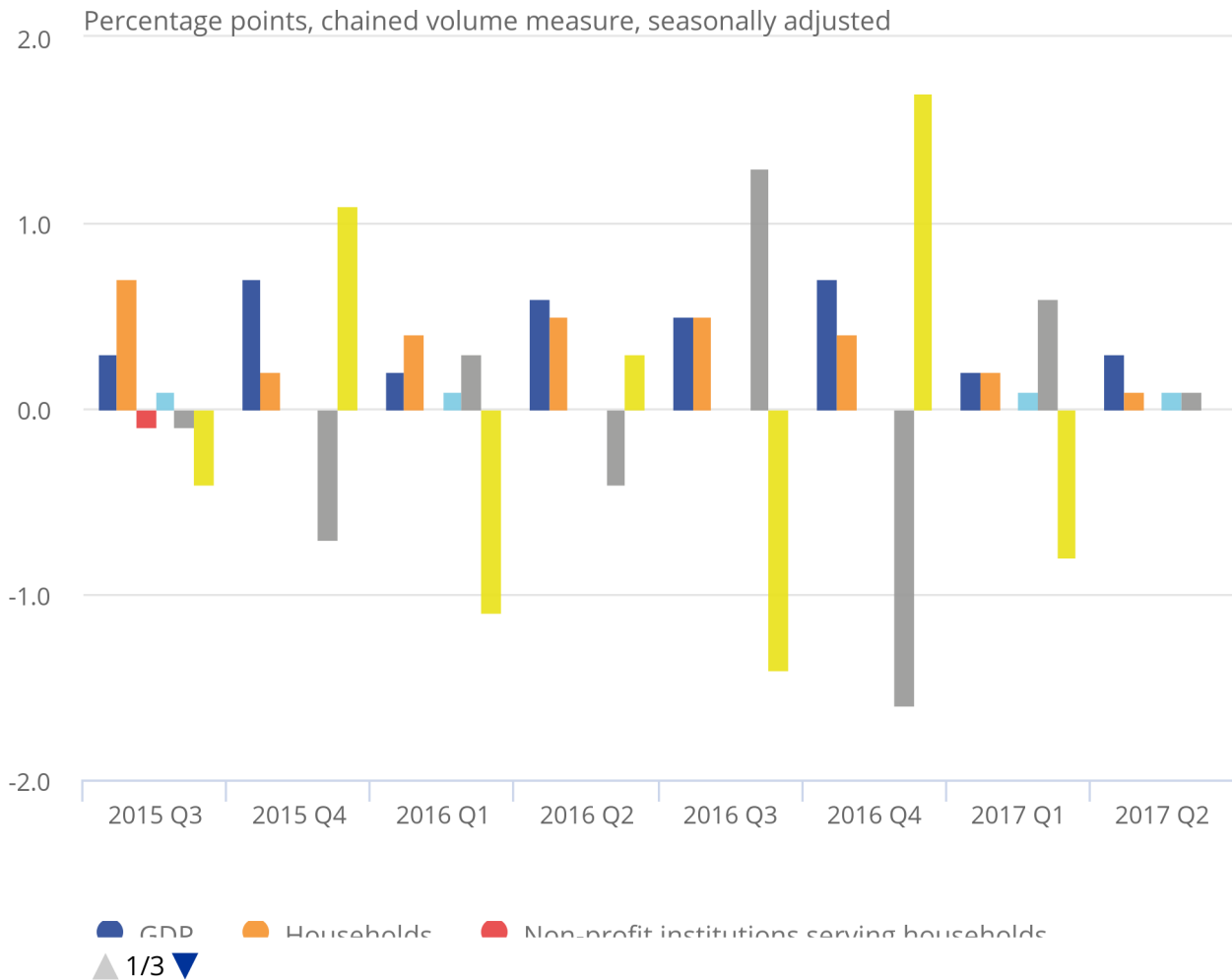
Figure 4 shows the quarterly contribution of the expenditure components to the growth of GDP in chained volume measures.

**Figure 4: Expenditure components percentage contribution to UK GDP growth, quarter-on-quarter**

Quarter 3 (July to Sept) 2015 to Quarter 2 (Apr to June) 2017

Figure 4: Expenditure components percentage contribution to UK GDP growth, quarter-on-quarter

Quarter 3 (July to Sept) 2015 to Quarter 2 (Apr to June) 2017



Source: Office for National Statistics

Source: Office for National Statistics

**Notes:**

1. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept) and Q4 refers to Quarter 4 (Oct to Dec).
2. This chart does not include the statistical discrepancy and components may not sum to the percentage change in average GDP.

## 6 . Compensation of employees leads growth in the income measure of GDP

The income approach to measuring GDP involves estimating all income generated through production within the UK economy. It increased by 0.3% in chained volume measures (0.8% in current prices seasonally adjusted) between Quarter 1 (Jan to Mar) 2017 and Quarter 2 (Apr to June) 2017.

All data quoted in the rest of this section are in current prices seasonally adjusted.

Within the income measure of GDP, three out of four components increased between Quarter 1 2017 and Quarter 2 2017.

Compensation of employees (CoE), which includes wages and salaries, and employers' social contributions, showed positive growth of 1.2% (seasonally adjusted) in Quarter 2 2017. Growth was chiefly driven by wages and salaries. CoE was the largest contributor to the income measure of GDP, contributing 0.6 percentage points to growth in the income measure of GDP.

Taxes on products and production less subsidies showed an increase of 1.7% in Quarter 2 2017 that contrasts with a decline of 4.6% seen in Quarter 1 2017.

There was a small increase in other income, of 0.4%. This category includes mixed income and the operating surplus of the non-corporate sector.

Gross operating surplus of corporations was the only component showing a decline, at negative 0.1% representing a small decline in the profits of companies. Please note that balancing adjustments have been applied to the gross operating surplus of corporations component in order to achieve a balanced dataset (see section 10). We advise that the growth rates of this component are taken in the context of the adjustments that have been applied.

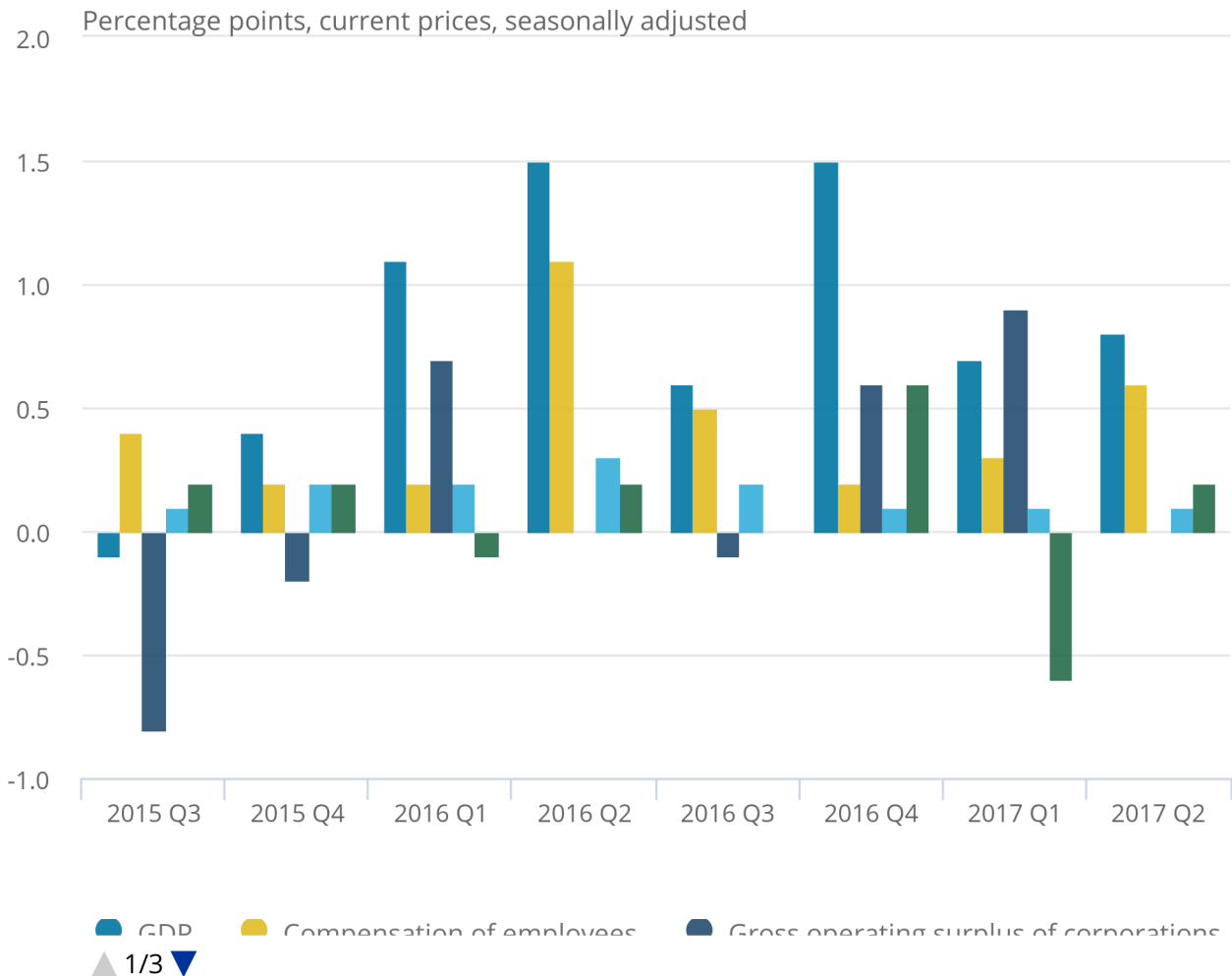
Figure 5 shows the contribution made by income components to current price GDP, as noted earlier the largest contribution was from CoE.

**Figure 5: Income components percentage contribution to UK GDP growth, quarter-on-quarter**

Quarter 3 (July to Sept) 2015 to Quarter 2 (Apr to June) 2017

Figure 5: Income components percentage contribution to UK GDP growth, quarter-on-quarter

Quarter 3 (July to Sept) 2015 to Quarter 2 (Apr to June) 2017



Source: Office for National Statistics

Source: Office for National Statistics

**Notes:**

1. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept) and Q4 refers to Quarter 4 (Oct to Dec).
2. This chart does not include the statistical discrepancy and components may not sum to the percentage change in average GDP.

## 7 . How is the UK economy performing compared with other European and non-European countries?

The estimates quoted in this international comparison section are the latest available estimates published by the [Organisation for Economic Co-operation and Development \(OECD\)](#) at the time of preparation of this statistical bulletin (22 August 2017) and may subsequently have been revised. UK data are compiled within the Office for National Statistics. At the time of preparation, data for Canada were unavailable; therefore are not included in the following analysis.

During Quarter 2 (Apr to June) 2017, the UK experienced the slowest growth of 0.3% among European and G7 countries with data available at the time of preparation. This was just below that of Italy, which grew at 0.4%. This is the second consecutive quarter in which the UK had the weakest economic growth of these countries. In Quarter 2 2017, Japan experienced the highest growth at 1.0%.

All of the areas included within our international comparisons saw positive growth in Quarter 2 2017. Both Germany and the USA experienced growth of 0.6%, whilst France experienced growth of 0.5% (Table 2). The European Union (EU28) grew by 0.6%, marking 17 consecutive quarters of positive growth, and in the same period, the group of Euro Area countries (EA19) grew by 0.6% also.

**Table 2: International GDP growth rate comparisons, chained volume measure, seasonally adjusted Quarter on previous quarter percentage growth rates**

	% growth <sup>1</sup>									
	EU28 <sup>2</sup>	EA19 <sup>3</sup>	G7 <sup>4</sup>	France	Germany	Italy	UK	Canada	Japan	USA
Q1 2015	0.7	0.8	0.5	0.4	0.2	0.3	0.3	-0.2	1.1	0.5
Q2 2015	0.5	0.4	0.4	0.0	0.5	0.4	0.5	-0.1	-0.1	0.6
Q3 2015	0.4	0.3	0.4	0.4	0.2	0.1	0.3	0.6	0.2	0.5
Q4 2015	0.5	0.4	0.2	0.2	0.4	0.2	0.7	0.1	-0.2	0.2
Q1 2016	0.5	0.5	0.4	0.6	0.7	0.4	0.2	0.7	0.6	0.2
Q2 2016	0.4	0.3	0.3	-0.1	0.5	0.1	0.6	-0.3	0.4	0.4
Q3 2016	0.5	0.4	0.6	0.2	0.2	0.3	0.5	1.0	0.3	0.9
Q4 2016	0.6	0.5	0.5	0.5	0.4	0.3	0.7	0.7	0.3	0.5
Q1 2017	0.6	0.6	0.4	0.4	0.6	0.4	0.2	0.9	0.3	0.3
Q2 2017	0.6	0.6	..	0.5	0.6	0.4	0.3	..	1.0	0.6

Sources: Office for National Statistics and Organisation for Economic Co-operation and Development

Notes:

1. Percentage change on previous period
2. EU28 is the European Union.
3. EA19 is the eurozone.
4. G7 is the Group of Seven countries.
5. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept) and Q4 refers to Quarter 4 (Oct to Dec).
6. Non UK countries and groupings may show revisions in the back series due to NSI revisions
7. ".." denotes data are unavailable at the time of production

## 8 . Links to related statistics

### Release policy

This release includes data available up to 15 August 2017. Data are consistent with that within the [Index of Production statistical bulletin](#), the [Construction output in Great Britain](#) and the [UK trade statistical bulletin](#) (trade in goods data only), which were published on 10 August 2017 and the [Retail Sales Index](#) which was published on 17 August 2017.



## Release content

Data included within this release are seasonally adjusted, however, 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 30 June 2017 and will be next updated on 29 September 2017 when the Quarter 2 (Apr to June) 2017 Quarterly National Accounts release and UKEA will become consistent.

## Economic context

A [monthly economic commentary](#) has been published alongside this release, presenting new analysis on the latest economic data.

## VAT project

The [latest VAT turnover research article](#) was published on 1 June 2017 and shared the latest information on our plans for implementation of this new data source within the national accounts. This article provides a summary of the decisions taken regarding the use of VAT turnover data and provides our users with an overview of the proposed changes to the National Accounts Revisions Policy. We are currently reviewing the methodology employed and evaluating the overall impact of using VAT turnover data in the national accounts and will be publishing our findings following this review and testing period. Please contact us with your views or questions: [vatdev@ons.gsi.gov.uk](mailto:vatdev@ons.gsi.gov.uk).

## Business investment

Further details on business investment along with revision triangles and a real time database are available within the datasets of the [Business investment release](#), published on 24 August 2017.

## Index of Services

The Index of Services publication was published on 24 August 2017 and includes data for June 2017.

# 9 . Are there any upcoming changes?

## Blue Book 2017

The third estimate of GDP as published in the quarterly national accounts (29 September 2017) will be consistent with the UK National Accounts Blue Book, which will be published on 31 October 2017. The annual Blue Book includes a number of improvements to data sources and methods; we have published a number of articles detailing these changes and their impact on the national accounts:

- an article discussing the [impact on GDP current price and chained volume measure annual and quarterly estimates: 1997 to 2015](#) was published on 6 July 2017; it provided estimates of the total impact of all the improvements to current price and chained volume measure (CVM or “real”) gross domestic product (GDP) up to 2015
- on 6 July 2017 we published an article discussing [changes to the presentation of the tables within Blue Book 2017 and Pink Book 2017](#); it detailed changes to the table presentation along with a detailed change matrix for both the Blue Book 2017 and the United Kingdom Economic Accounts (UKEA)
- on 21 August 2017 we published articles providing a [Detailed assessment of changes to sector and financial accounts: 1997 to 2015](#) and a [Detailed assessment of changes to balance of payment annual estimates: 1997 to 2015](#)

A list of all [National Accounts articles](#) is available.

## Methodological changes on gross domestic product

In the [Impact of methodological changes to chain-linking on gross domestic product](#) article we informed you that in Blue Book 2017, the reference year and last base year will move forward 2 years to 2015 and, pending the outcome of further analysis, we would investigate the feasibility of further moving the last base year on when the data for the most recent year are formed.

We have now completed this feasibility analysis and have concluded that we will not move the last base year beyond 2015 in Blue Book 2017. Therefore, the reference year and last base year for Blue Book 2017 and the Blue Book-consistent quarterly national accounts due for publication on 29 September 2017 will be 2015. Further methodological work will continue to develop an approach to further moving on the last base year.

## Corrections to be aware of

We informed you on 25 November 2016 that, following a quality review, a processing error had been identified in the compilation of the estimates for the rail transport industry (49.1-2), which affects the period Quarter 1 (Jan to Mar) 1997 to Quarter 2 (Apr to June) 2016. In line with the National Accounts Revisions Policy, this error has been corrected in the Index of Services and Quarterly National Accounts published on 23 December 2016 for data from Quarter 1 2015. Data prior to 2015 will be corrected when next open for revision with Blue Book 2017-consistent releases due for publication on 29 September 2017. The average impact over this period on quarter-on-quarter Index of Services and GDP growth is 0.00%.

Following a quality review it has been identified that the methodology used to estimate elements of purchased software within gross fixed capital formation (GFCF) has led to some double-counting from 1997 onwards. When this issue is resolved in Blue Book 2017 it will reduce the level of GFCF across the period by around 1.1% per year. The average impact on quarter-on-quarter GFCF growth is negative 0.02% and the average impact on quarter-on-quarter GDP growth is 0.00%.

## 10 . Quality and methodology

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

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

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

## Important quality issues

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

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

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

Many different approaches can be used to summarise revisions; the “Validation and quality assurance” section in the [Quality and Methodology Information report](#) analyses the mean average revision and the mean absolute revision for GDP estimates over data publication iterations. In addition to this analysis, section 11 of the [Revisions to gross domestic product in Blue Book 2016 article](#) updates the metrics used to test revisions performance to answer the question “Is GDP biased?”

## Reaching the GDP balance

The different data content 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 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 quarter 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.

Alignment adjustments, found in [Table M of the second estimate of GDP data tables](#) in this release, have a target limit of plus or minus £2,000 million on any quarter. To achieve the balance through alignment, balancing adjustments are applied to the expenditure and income components of GDP as required. They are applied to those individual components where data content is particularly weak in a given quarter due to a high level of forecast content.

The size and direction of the quarterly alignment adjustments in Quarter 2 2017 indicate that in this quarter the level of expenditure and income are lower than the level of output.

Table 3 shows the balancing adjustments applied to the GDP estimates in this publication.

**Table 3: Balancing adjustments applied to the second estimate of GDP for Quarter 2 (Apr to June) 2017**

	£ million
GDP measurement approach and component adjustment applied to	Q2 2017
Income	
Gross operating surplus of corporations <sup>3</sup>	
Current prices	+1800

Source: Office for National Statistics

Notes:

1. Adjustments are in £ million
2. Q2 refers to Quarter 2 (Apr to June)
3. Including financial corporations and public corporations.

## Further information

We are committed to ensuring all information provided is kept strictly confidential and will only be used for statistical purposes. Further details regarding confidentiality can be found in the respondent charters for [businesses](#) and [households](#).

# A1 Gross domestic product and gross value added<sup>1</sup>

2013 = 100

	Value indices at current prices		Chained volume indices			Implied deflators <sup>2</sup>		
	Gross domestic product at market prices	Gross value added at basic prices	Gross domestic product at market prices	Gross value added at basic prices	Market sector gross value added	Gross domestic expenditure	Gross domestic product at market prices	Gross value added at basic prices
	YBEU	YBEX	YBEZ	CGCE	L48H	YBFV	YBGB	CGBV
2013	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2014	104.8	104.7	103.1	103.4	103.8	101.1	101.6	101.3
2015	107.7	107.6	105.3	105.9	107.0	101.3	102.2	101.6
2016	111.5	111.2	107.2	107.8	110.2	103.1	104.0	103.2
<b>Seasonally adjusted</b>								
2014 Q1	102.7	102.6	101.7	101.8	102.0	101.1	101.0	100.8
Q2	104.6	104.5	102.7	102.9	103.3	101.2	101.9	101.5
Q3	105.7	105.9	103.5	104.0	104.4	101.2	102.1	101.8
Q4	106.1	105.8	104.4	104.9	105.6	100.9	101.6	100.9
2015 Q1	106.4	106.6	104.6	105.1	106.2	100.7	101.7	101.4
Q2	108.0	108.0	105.1	105.7	106.7	101.6	102.7	102.3
Q3	107.9	107.7	105.4	106.0	107.2	101.4	102.4	101.7
Q4	108.3	107.9	106.1	106.7	108.1	101.6	102.1	101.1
2016 Q1	109.5	109.3	106.3	106.9	108.7	102.2	103.0	102.3
Q2	111.2	111.0	106.9	107.5	109.7	103.1	103.9	103.3
Q3	111.9	111.8	107.5	108.0	110.6	103.2	104.1	103.5
Q4	113.5	112.8	108.2	108.7	111.7	103.7	104.9	103.8
2017 Q1	114.3	114.3	108.4	108.9	111.8	104.2	105.4	105.0
Q2	115.2	115.3	108.7	109.3	112.1	104.8	106.0	105.5
<b>Percentage change, latest year on previous year</b>								
	IHYM	KGL6	IHYP	KGM7	L489	KH7D	IHYS	KGM4
2013	3.9	3.7	1.9	1.4	1.5	1.2	1.9	2.3
2014	4.8	4.7	3.1	3.4	3.8	1.1	1.6	1.3
2015	2.8	2.8	2.2	2.4	3.1	0.2	0.6	0.3
2016	3.6	3.4	1.8	1.8	2.9	1.7	1.7	1.6
<b>Percentage change, latest quarter on previous quarter</b>								
	IHYN	KGL8	IHYQ	KGM9		KH7E	IHYT	KGM5
2014 Q1	1.4	1.6	0.8	1.0	1.2	0.6	0.6	0.5
Q2	1.8	1.9	0.9	1.1	1.2	0.1	0.9	0.7
Q3	1.1	1.3	0.8	1.0	1.1	0.1	0.2	0.3
Q4	0.4	-0.1	0.8	0.9	1.1	-0.3	-0.5	-0.9
2015 Q1	0.3	0.8	0.3	0.2	0.5	-0.2	0.1	0.5
Q2	1.5	1.4	0.5	0.5	0.5	0.8	1.0	0.9
Q3	-0.1	-0.3	0.3	0.3	0.4	-0.2	-0.3	-0.6
Q4	0.4	0.2	0.7	0.7	0.9	0.2	-0.3	-0.5
2016 Q1	1.1	1.3	0.2	0.1	0.5	0.6	0.9	1.2
Q2	1.5	1.6	0.6	0.6	1.0	0.9	0.9	1.0
Q3	0.6	0.6	0.5	0.5	0.8	0.1	0.1	0.2
Q4	1.5	0.9	0.7	0.6	1.0	0.5	0.8	0.3
2017 Q1	0.7	1.4	0.2	0.2	0.1	0.5	0.5	1.1
Q2	0.8	0.8	0.3	0.3	0.3	0.5	0.5	0.5
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>								
	IHYO	KGM2	IHYR	KGN3	L48D	KH7F	IHYU	KGM6
2014 Q1	4.1	3.7	2.6	2.4	2.8	1.7	1.4	1.3
Q2	5.3	5.1	3.1	3.3	3.6	1.4	2.2	1.8
Q3	4.9	5.1	3.1	3.7	4.2	0.9	1.7	1.3
Q4	4.8	4.7	3.5	4.1	4.7	0.4	1.3	0.6
2015 Q1	3.6	3.9	2.8	3.3	4.0	-0.3	0.7	0.6
Q2	3.2	3.4	2.4	2.6	3.3	0.4	0.8	0.7
Q3	2.1	1.8	1.8	2.0	2.6	0.2	0.2	-0.2
Q4	2.1	2.0	1.7	1.8	2.3	0.7	0.4	0.2
2016 Q1	2.9	2.6	1.6	1.7	2.4	1.5	1.3	0.9
Q2	3.0	2.8	1.7	1.7	2.8	1.5	1.2	1.0
Q3	3.7	3.7	2.0	1.9	3.2	1.8	1.7	1.8
Q4	4.8	4.5	1.9	1.8	3.3	2.1	2.8	2.6
2017 Q1	4.4	4.6	2.0	1.9	2.9	1.9	2.3	2.6
Q2	3.6	3.8	1.7	1.6	2.2	1.6	1.9	2.1

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

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

# A2 Gross domestic product and gross value added<sup>1</sup>

£ million

	At current prices			Chained volume measures (Reference year 2013)			
	Gross domestic product at market prices	less Basic price adjustment <sup>2</sup>	Gross value added at basic prices	Gross domestic product at market prices	less Basic price adjustment <sup>2</sup>	Gross value added at basic prices	Gross value added excluding oil & gas <sup>3</sup>
	YBHA	NTAP	ABML	ABMI	NTAO	ABMM	KLS2
2013	1 739 563	188 010	1 551 553	1 739 563	188 010	1 551 553	1 529 692
2014	1 822 480	198 204	1 624 276	1 792 976	188 807	1 604 169	1 582 544
2015	1 872 714	203 522	1 669 192	1 832 318	189 516	1 642 802	1 618 868
2016	1 939 637	213 677	1 725 960	1 865 410	193 326	1 672 084	1 647 311
<b>Seasonally adjusted</b>							
2014 Q1	446 657	48 756	397 901	442 425	47 610	394 815	389 313
Q2	454 849	49 491	405 358	446 519	47 221	399 298	393 850
Q3	459 678	49 058	410 620	450 141	46 875	403 266	397 954
Q4	461 296	50 899	410 397	453 891	47 101	406 790	401 427
2015 Q1	462 745	49 254	413 491	455 026	47 238	407 788	402 323
Q2	469 585	50 495	419 090	457 214	47 408	409 806	403 684
Q3	469 289	51 354	417 935	458 456	47 316	411 140	404 894
Q4	471 095	52 419	418 676	461 622	47 554	414 068	407 967
2016 Q1	476 126	51 975	424 151	462 333	47 785	414 548	408 508
Q2	483 464	52 731	430 733	465 113	48 166	416 947	410 749
Q3	486 478	52 960	433 518	467 437	48 499	418 938	412 405
Q4	493 569	56 011	437 558	470 527	48 876	421 651	415 649
2017 Q1	496 875	53 343	443 532	471 524	48 968	422 556	416 437
Q2	501 096	53 994	447 102	472 929	49 121	423 808	417 682
<b>Percentage change, latest year on previous year</b>							
	IHYM		KGL6	IHYP		KGM7	KLH8
2013	3.9		3.7	1.9		1.4	1.5
2014	4.8		4.7	3.1		3.4	3.5
2015	2.8		2.8	2.2		2.4	2.3
2016	3.6		3.4	1.8		1.8	1.8
<b>Percentage change, latest quarter on previous quarter</b>							
	IHYN		KGL8	IHYQ		KGM9	
2014 Q1	1.4		1.6	0.8		1.0	1.1
Q2	1.8		1.9	0.9		1.1	1.2
Q3	1.1		1.3	0.8		1.0	1.0
Q4	0.4		-0.1	0.8		0.9	0.9
2015 Q1	0.3		0.8	0.3		0.2	0.2
Q2	1.5		1.4	0.5		0.5	0.3
Q3	-0.1		-0.3	0.3		0.3	0.3
Q4	0.4		0.2	0.7		0.7	0.8
2016 Q1	1.1		1.3	0.2		0.1	0.1
Q2	1.5		1.6	0.6		0.6	0.5
Q3	0.6		0.6	0.5		0.5	0.4
Q4	1.5		0.9	0.7		0.6	0.8
2017 Q1	0.7		1.4	0.2		0.2	0.2
Q2	0.8		0.8	0.3		0.3	0.3
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>							
	IHYO		KGM2	IHYR		KGK3	KLH9
2014 Q1	4.1		3.7	2.6		2.4	2.4
Q2	5.3		5.1	3.1		3.3	3.3
Q3	4.9		5.1	3.1		3.7	3.9
Q4	4.8		4.7	3.5		4.1	4.2
2015 Q1	3.6		3.9	2.8		3.3	3.3
Q2	3.2		3.4	2.4		2.6	2.5
Q3	2.1		1.8	1.8		2.0	1.7
Q4	2.1		2.0	1.7		1.8	1.6
2016 Q1	2.9		2.6	1.6		1.7	1.5
Q2	3.0		2.8	1.7		1.7	1.8
Q3	3.7		3.7	2.0		1.9	1.9
Q4	4.8		4.5	1.9		1.8	1.9
2017 Q1	4.4		4.6	2.0		1.9	1.9
Q2	3.6		3.8	1.7		1.6	1.7

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

2 Taxes on products less subsidies.

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

# B1 Gross value added at chained volume measures basic prices, by category of output<sup>1,2</sup>

2013 = 100

	Production							Service industries							Gross value added <sup>4</sup>	Gross value added excluding oil & gas
	Agri-culture, forestry, and fishing	Mining & quarrying inc oil & gas extract	Manu-facturing	Electric, gas, steam & air	Water supply, sewerage	Total	Constr-uction	Distri-bution, hotels & restaura-nts	Transport storage and commu-nications	Business services and finance	Govern-ment and other services	Total				
<b>2013 Weights<sup>3</sup></b>	7	18	103	15	11	146	59	136	106	317	229	788	1000	986		
	L2KL	L2KR	L2KX	L2MW	L2N2	L2KQ	L2N8	L2PZ	KI8M	KI8O	KI8Q	L2NC	CGCE	KLH7		
2013	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		
2014	113.9	100.6	102.9	94.0	100.7	101.5	108.0	104.8	103.0	103.9	101.7	103.3	103.4	103.5		
2015	115.3	109.1	102.7	94.4	104.1	102.7	113.4	109.5	106.8	106.9	102.2	106.0	105.9	105.8		
2016	111.4	109.7	103.5	96.0	109.9	103.9	116.1	115.1	110.8	109.5	103.8	109.0	107.8	107.7		
<b>Seasonally adjusted</b>																
2014 Q1	110.6	100.9	102.2	92.5	103.0	101.1	105.1	102.6	100.5	101.9	101.0	101.6	101.8	101.8		
Q2	112.6	101.3	102.8	93.1	99.9	101.4	107.1	104.2	102.3	103.2	101.7	102.8	102.9	103.0		
Q3	114.8	99.4	103.1	96.1	99.2	101.7	109.8	105.4	103.9	104.5	102.1	103.9	104.0	104.1		
Q4	117.8	100.8	103.4	94.1	100.5	101.9	110.1	107.0	105.2	106.0	102.1	104.9	104.9	105.0		
2015 Q1	114.1	102.6	103.3	96.0	101.0	102.3	113.1	108.0	105.5	106.2	101.6	105.1	105.1	105.2		
Q2	115.2	110.8	102.8	93.7	105.0	102.9	113.8	109.0	106.4	106.4	102.0	105.6	105.7	105.6		
Q3	115.7	112.7	102.3	94.9	105.0	103.0	112.8	109.8	107.0	107.0	102.3	106.1	106.0	105.9		
Q4	116.1	110.2	102.5	92.9	105.5	102.6	113.8	111.1	108.3	108.0	103.0	107.1	106.7	106.7		
2016 Q1	112.2	107.3	102.2	93.2	108.1	102.3	115.2	113.1	108.7	108.4	103.5	107.8	106.9	106.8		
Q2	110.8	109.8	104.0	98.4	110.3	104.6	116.2	114.1	109.3	109.2	103.6	108.5	107.5	107.4		
Q3	110.8	114.8	103.2	94.2	110.1	104.2	115.8	115.4	112.1	109.9	103.9	109.4	108.0	107.8		
Q4	111.8	106.8	104.5	97.9	111.1	104.6	117.0	117.8	113.1	110.4	104.2	110.2	108.7	108.7		
2017 Q1	111.9	108.5	104.8	93.9	112.3	104.7	118.3	117.1	112.2	111.0	104.7	110.4	108.9	108.9		
Q2	112.3	108.9	104.2	93.7	112.4	104.3	116.7	118.1	113.6	111.3	105.1	111.0	109.3	109.2		
<b>Percentage change, latest year on previous year</b>																
	L3BB	L3BH	L3BN	L3DM	L3DQ	L3BG	L3DW	L3GP	KI8L	KI8N	KI8P	L3E2	KGM7	KLH8		
2013	0.7	-2.7	-1.0	-0.2	4.3	-0.7	1.5	3.5	1.8	2.1	0.3	1.8	1.4	1.5		
2014	13.9	0.6	2.9	-6.0	0.7	1.5	8.0	4.8	3.0	3.9	1.7	3.3	3.4	3.5		
2015	1.2	8.4	-0.2	0.5	3.4	1.2	4.9	4.5	3.7	2.9	0.5	2.6	2.4	2.3		
2016	-3.4	0.6	0.7	1.7	5.6	1.2	2.4	5.1	3.7	2.4	1.6	2.9	1.8	1.8		
<b>Percentage change, latest quarter on previous quarter</b>																
													KGM9			
2014 Q1	8.2	-0.2	1.6	-5.4	-0.1	0.5	2.3	1.4	0.8	0.9	0.9	1.0	1.0	1.1		
Q2	1.8	0.4	0.6	0.6	-3.0	0.3	1.9	1.6	1.8	1.3	0.7	1.2	1.1	1.2		
Q3	2.0	-2.0	0.3	3.3	-0.7	0.2	2.5	1.1	1.6	1.2	0.4	1.0	1.0	1.0		
Q4	2.6	1.4	0.3	-2.1	1.3	0.3	0.3	1.6	1.2	1.5	-0.1	1.0	0.9	0.9		
2015 Q1	-3.1	1.8	-0.1	2.1	0.5	0.4	2.7	0.9	0.3	0.2	-0.5	0.1	0.2	0.2		
Q2	1.0	8.1	-0.5	-2.5	4.0	0.6	0.6	0.9	0.9	0.2	0.5	0.5	0.5	0.3		
Q3	0.5	1.7	-0.4	1.4	-	0.1	-0.9	0.8	0.5	0.5	0.2	0.5	0.3	0.3		
Q4	0.3	-2.3	0.1	-2.2	0.5	-0.4	1.0	1.2	1.2	0.9	0.7	1.0	0.7	0.8		
2016 Q1	-3.4	-2.6	-0.3	0.4	2.5	-0.3	1.2	1.8	0.4	0.4	0.5	0.7	0.1	0.1		
Q2	-1.2	2.3	1.8	5.6	2.0	2.2	0.9	0.9	0.6	0.7	0.1	0.6	0.6	0.5		
Q3	-	4.5	-0.7	-4.3	-0.1	-0.4	-0.3	1.1	2.6	0.7	0.3	0.9	0.5	0.4		
Q4	1.0	-6.9	1.2	4.0	0.9	0.4	1.0	2.0	0.8	0.5	0.3	0.8	0.6	0.8		
2017 Q1	0.1	1.5	0.3	-4.2	1.0	0.1	1.1	-0.6	-0.8	0.5	0.4	0.1	0.2	0.2		
Q2	0.4	0.4	-0.6	-0.2	0.1	-0.3	-1.3	0.9	1.2	0.3	0.4	0.5	0.3	0.3		
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>																
	L3ZZ	L427	L42D	L44C	L44G	L426	L44M	L47F	KI12	KIH9	KIH8	L44Q	KGN3	KLH9		
2014 Q1	12.6	3.1	3.0	-10.8	7.1	1.9	8.4	4.2	-0.2	2.7	0.7	2.0	2.4	2.4		
Q2	13.9	2.1	2.9	-8.8	1.9	1.5	8.5	4.5	2.3	3.8	1.9	3.1	3.3	3.3		
Q3	13.9	-2.4	2.9	-0.2	-3.3	1.4	8.2	4.6	4.4	4.2	2.4	3.7	3.7	3.9		
Q4	15.3	-0.3	2.8	-3.8	-2.5	1.3	7.1	5.9	5.5	4.9	1.9	4.3	4.1	4.2		
2015 Q1	3.2	1.6	1.1	3.8	-1.9	1.2	7.5	5.3	5.0	4.2	0.6	3.4	3.3	3.3		
Q2	2.4	9.3	-0.1	0.6	5.1	1.5	6.2	4.5	4.1	3.1	0.3	2.7	2.6	2.5		
Q3	0.8	13.4	-0.8	-1.2	5.8	1.3	2.7	4.2	2.9	2.4	0.1	2.1	2.0	1.7		
Q4	-1.5	9.3	-0.9	-1.3	4.9	0.7	3.4	3.8	2.9	1.9	0.9	2.1	1.8	1.6		
2016 Q1	-1.7	4.6	-1.1	-2.9	7.1	-	1.8	4.8	3.0	2.1	1.9	2.6	1.7	1.5		
Q2	-3.8	-0.9	1.2	5.1	5.0	1.6	2.1	4.7	2.7	2.6	1.5	2.7	1.7	1.8		
Q3	-4.3	1.8	0.9	-0.8	4.9	1.2	2.7	5.1	4.8	2.8	1.6	3.1	1.9	1.9		
Q4	-3.7	-3.0	2.0	5.4	5.3	1.9	2.8	6.0	4.4	2.3	1.2	2.9	1.8	1.9		
2017 Q1	-0.2	1.1	2.5	0.7	3.8	2.3	2.8	3.5	3.2	2.4	1.1	2.3	1.9	1.9		
Q2	1.4	-0.9	0.2	-4.8	2.0	-0.3	0.4	3.5	3.9	1.9	1.4	2.3	1.6	1.7		

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>

2013 = 100

	Service industries										
	Wholesale and retail trade	Transport, storage information comms	Accommodation & food services	Financial and insurance activities	Real estate	Professional scientific admin & support	Public admin, defence, social security	Education	Health and social work	Other services <sup>4</sup>	Total services
<b>2013 Weights<sup>3</sup></b>	107	106	29	76	122	119	52	63	74	40	788
	L2NE	KI8M	L2NQ	L2O6	L2OC	L2OH	L2P8	L2PA	L2PC	L2Q5	L2NC
2013	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2014	105.2	103.0	103.1	98.2	103.6	107.9	98.4	101.2	102.0	106.3	103.3
2015	110.0	106.8	107.5	99.9	105.2	113.1	96.0	102.0	103.6	108.1	106.0
2016	115.6	110.8	113.3	102.2	106.1	117.7	94.3	102.0	107.0	113.4	109.0
<b>Seasonally adjusted</b>											
2014 Q1	103.0	100.5	101.1	97.3	102.4	104.4	98.7	100.4	101.2	104.6	101.6
Q2	104.6	102.3	102.8	97.0	103.4	107.1	98.5	101.3	101.7	106.6	102.8
Q3	105.8	103.9	103.7	97.7	104.2	109.0	98.4	101.7	102.5	106.9	103.9
Q4	107.6	105.2	105.0	100.6	104.3	111.1	98.1	101.4	102.7	107.0	104.9
2015 Q1	108.4	105.5	106.5	101.1	104.6	111.2	97.2	101.7	101.7	106.8	105.1
Q2	109.6	106.4	106.7	99.2	105.1	112.3	96.2	101.9	103.4	107.3	105.6
Q3	110.5	107.0	107.2	98.4	105.6	113.9	95.3	102.3	104.2	107.7	106.1
Q4	111.5	108.3	109.6	101.0	105.6	114.8	95.2	102.2	105.1	110.6	107.1
2016 Q1	113.8	108.7	110.6	101.8	106.2	115.0	94.8	102.2	106.2	111.8	107.8
Q2	114.7	109.3	112.2	101.8	106.1	117.1	94.3	101.7	106.6	113.2	108.5
Q3	115.8	112.1	113.8	103.0	105.9	118.4	94.1	101.7	107.1	114.4	109.4
Q4	118.0	113.1	116.7	102.1	106.2	120.1	93.9	102.2	107.8	114.2	110.2
2017 Q1	116.9	112.2	117.5	102.8	106.6	120.8	93.9	102.8	108.3	115.0	110.4
Q2	117.8	113.6	119.3	102.4	107.1	121.4	93.8	103.3	108.9	115.5	111.0
<b>Percentage change, latest year on previous year</b>											
	L3E4	KI8L	L3EG	L3EU	L3F2	L3F7	L3FW	L3FY	L3G2	L3GT	L3E2
2013	5.0	1.8	-2.6	-3.3	1.9	5.8	-2.2	0.4	2.5	-0.8	1.8
2014	5.2	3.0	3.1	-1.8	3.6	7.9	-1.6	1.2	2.0	6.3	3.3
2015	4.5	3.7	4.2	1.8	1.6	4.8	-2.5	0.8	1.6	1.7	2.6
2016	5.1	3.7	5.4	2.3	0.8	4.1	-1.8	-0.1	3.2	4.9	2.9
<b>Percentage change, latest quarter on previous quarter</b>											
2014 Q1	1.5	0.8	1.4	-1.5	1.4	1.9	-0.3	0.4	0.7	3.2	1.0
Q2	1.6	1.8	1.7	-0.3	0.9	2.6	-0.2	0.9	0.5	1.8	1.2
Q3	1.1	1.6	0.9	0.8	0.8	1.8	-0.1	0.4	0.9	0.3	1.0
Q4	1.7	1.2	1.3	3.0	0.1	1.9	-0.3	-0.3	0.2	0.1	1.0
2015 Q1	0.7	0.3	1.4	0.5	0.2	-	-1.0	0.3	-1.0	-0.2	0.1
Q2	1.1	0.9	0.2	-1.9	0.5	1.0	-1.0	0.2	1.7	0.5	0.5
Q3	0.8	0.5	0.4	-0.8	0.4	1.4	-0.9	0.4	0.8	0.3	0.5
Q4	0.9	1.2	2.3	2.7	-	0.8	-0.2	-0.1	0.8	2.8	1.0
2016 Q1	2.0	0.4	0.9	0.7	0.6	0.1	-0.4	0.1	1.1	1.1	0.7
Q2	0.8	0.6	1.5	-	-0.1	1.9	-0.5	-0.5	0.4	1.3	0.6
Q3	1.0	2.6	1.4	1.2	-0.1	1.1	-0.2	-	0.5	1.1	0.9
Q4	1.9	0.8	2.6	-0.9	0.2	1.4	-0.2	0.6	0.6	-0.2	0.8
2017 Q1	-0.9	-0.8	0.7	0.6	0.4	0.6	-	0.6	0.5	0.7	0.1
Q2	0.7	1.2	1.5	-0.4	0.5	0.5	-0.1	0.5	0.6	0.4	0.5
<b>Percentage change, latest quarter on corresponding quarter of the previous year</b>											
	L44S	KI12	L456	L45K	L45Q	L45V	L46M	L46O	L46Q	L47J	L44Q
2014 Q1	5.1	-0.2	1.1	-5.2	3.2	7.4	-2.2	0.1	1.1	4.7	2.0
Q2	5.1	2.3	2.4	-3.0	3.8	8.0	-1.7	1.3	2.0	7.4	3.1
Q3	4.8	4.4	3.6	-0.9	4.0	7.6	-1.5	2.1	2.7	7.4	3.7
Q4	6.0	5.5	5.4	1.9	3.3	8.5	-0.8	1.4	2.3	5.6	4.3
2015 Q1	5.2	5.0	5.4	3.9	2.1	6.5	-1.5	1.3	0.5	2.0	3.4
Q2	4.7	4.1	3.8	2.3	1.7	4.9	-2.3	0.6	1.7	0.7	2.7
Q3	4.4	2.9	3.4	0.6	1.3	4.5	-3.1	0.5	1.7	0.7	2.1
Q4	3.6	2.9	4.4	0.4	1.2	3.3	-3.0	0.7	2.3	3.4	2.1
2016 Q1	5.0	3.0	3.8	0.7	1.6	3.4	-2.4	0.5	4.4	4.7	2.6
Q2	4.6	2.7	5.1	2.6	0.9	4.3	-2.0	-0.2	3.1	5.5	2.7
Q3	4.8	4.8	6.2	4.7	0.3	4.0	-1.3	-0.6	2.8	6.3	3.1
Q4	5.8	4.4	6.5	1.1	0.6	4.6	-1.4	0.1	2.6	3.2	2.9
2017 Q1	2.8	3.2	6.3	1.0	0.3	5.1	-1.0	0.6	1.9	2.9	2.3
Q2	2.7	3.9	6.3	0.6	1.0	3.6	-0.6	1.6	2.2	2.0	2.3

- 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 production.
- 3 Weights may not sum to the total due to rounding.
- 4 Comprising sections R, S and T of SIC(2007).



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

£ million

National expenditure on goods and services at market prices															
Final consumption expenditure					Gross capital formation										
	Households	Non-profit institutions <sup>2</sup>	General government	Gross fixed capital formation	Of which business investment <sup>3</sup>	Change in inventories <sup>4</sup>	Of which alignment adjustment	Acquisitions less disposals of valuables <sup>5</sup>	Total	Total exports	Gross final expenditure	less imports	Trade balance <sup>6</sup>	Statistical discrepancy (expenditure)	Gross domestic product at market prices
	ABJQ	HAYE	NMRP	NPQS	NPEK	CAEX	DMUN	NPJQ	YBIL	IKBH	ABMF	IKBI	IKBJ	GIXM	YBHA
2013	1 084 011	54 535	349 615	280 224	162 326	5 074	-	5 342	1 778 801	517 642	2 296 443	556 880	-39 238	-	1 739 563
2014	1 126 230	56 672	358 529	302 495	169 254	13 073	-	1 704	1 858 703	511 654	2 370 357	547 877	-36 223	-	1 822 480
2015	1 156 561	58 126	362 839	317 056	180 163	5 737	-	-1 064	1 899 255	517 446	2 416 701	547 234	-29 788	3 247	1 872 714
2016	1 202 758	59 448	368 639	323 227	180 258	6 378	-	667	1 961 117	547 590	2 508 707	584 616	-37 026	15 546	1 939 637
<b>Seasonally adjusted</b>															
2014 Q1	277 150	14 000	89 016	76 308	40 185	2 611	-2 005	-685	458 400	126 083	584 483	137 826	-11 743	-	446 657
Q2	279 459	14 119	89 072	74 741	43 020	4 506	550	-412	461 485	128 579	590 064	135 215	-6 636	-	454 849
Q3	284 929	14 227	90 924	75 408	42 542	2 813	-413	554	468 855	126 698	595 553	135 875	-9 177	-	459 678
Q4	284 692	14 326	89 517	76 038	43 507	3 143	1 868	2 247	469 963	130 294	600 257	138 961	-8 667	-	461 296
2015 Q1	286 127	14 405	89 785	77 864	44 663	936	1 115	2 501	471 618	130 942	602 560	140 314	-9 372	499	462 745
Q2	287 241	14 498	90 882	80 009	45 270	2 725	453	-419	474 936	129 937	604 873	136 012	-6 075	724	469 585
Q3	290 343	14 563	91 924	79 944	45 762	1 221	-2 047	-708	476 939	126 160	603 099	134 638	-8 478	828	469 289
Q4	292 850	14 660	90 596	79 239	44 468	855	479	-2 438	475 762	130 407	606 169	136 270	-5 863	1 196	471 095
2016 Q1	295 487	14 774	91 585	79 357	44 218	1 064	-1 079	646	482 913	129 035	611 948	138 575	-9 540	2 753	476 126
Q2	298 753	14 847	92 407	80 556	45 230	2 193	-882	-1 121	487 635	135 094	622 729	142 938	-7 844	3 673	483 464
Q3	302 218	14 879	92 045	81 344	45 608	2 781	1 988	3 661	496 928	136 512	633 440	151 309	-14 797	4 347	486 478
Q4	306 300	14 948	92 602	81 970	45 202	340	-27	-2 519	493 641	146 949	640 590	151 794	-4 845	4 773	493 569
2017 Q1	308 947	15 065	93 098	82 818	45 807	1 557	16	-397	501 088	147 844	648 932	156 683	-8 839	4 626	496 875
Q2	310 793	15 190	94 221	84 096	46 160	2 148	284	-927	505 521	148 394	653 915	157 338	-8 944	4 519	501 096
<b>Percentage change, latest year on previous year</b>															
	KG Y7	KG Z8	KH 2C	KG 6O	KG 6N			KG X3	KH 2O	KG V7	KH 3H				IH YM
2013	3.9	3.2	0.7	5.0	3.9			3.9	3.7	3.8	3.8				3.9
2014	3.9	3.9	2.5	7.9	4.3			4.5	-1.2	3.2	-1.6				4.8
2015	2.7	2.6	1.2	4.8	6.4			2.2	1.1	2.0	-0.1				2.8
2016	4.0	2.3	1.6	1.9	0.1			3.3	5.8	3.8	6.8				3.6
<b>Percentage change, latest quarter on previous quarter</b>															
	KG Y8	KG Z9	KH 2D	KG 6W	KG 6V			KG X4	KH 2P	KG V8	KH 3I				IH YN
2014 Q1	0.7	1.0	0.2	4.4	-4.5			0.7	-0.2	0.5	-2.6				1.4
Q2	0.8	0.8	0.1	-2.1	7.1			0.7	2.0	1.0	-1.9				1.8
Q3	2.0	0.8	2.1	0.9	-1.1			1.6	-1.5	0.9	0.5				1.1
Q4	-0.1	0.7	-1.5	0.8	2.3			0.2	2.8	0.8	2.3				0.4
2015 Q1	0.5	0.6	0.3	2.4	2.7			0.4	0.5	0.4	1.0				0.3
Q2	0.4	0.6	1.2	2.8	1.4			0.7	-0.8	0.4	-3.1				1.5
Q3	1.1	0.4	0.8	-0.1	1.1			0.4	-2.9	-0.3	-1.0				-0.1
Q4	0.9	0.7	-1.1	-0.9	-2.8			-0.2	3.4	0.5	1.2				0.4
2016 Q1	0.9	0.8	1.1	0.1	-0.6			1.5	-1.1	1.0	1.7				1.1
Q2	1.1	0.5	0.9	1.5	2.3			1.0	4.7	1.8	3.1				1.5
Q3	1.2	0.2	-0.4	1.0	0.8			1.9	1.0	1.7	5.9				0.6
Q4	1.4	0.5	0.6	0.8	-0.9			-0.7	7.6	1.1	0.3				1.5
2017 Q1	0.9	0.8	0.5	1.0	1.3			1.5	0.6	1.3	3.2				0.7
Q2	0.6	0.8	1.2	1.5	0.8			0.9	0.4	0.8	0.4				0.8
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>															
	KG Y9	KH 22	KH 2E	KG 76	KG 75			KG X5	KH 2Q	KG V9	KH 3J				IH YO
2014 Q1	3.8	4.5	3.9	13.7	2.6			5.3	-1.9	3.7	2.2				4.1
Q2	3.9	4.1	1.1	8.6	8.2			5.0	-3.0	3.1	-3.5				5.3
Q3	4.5	3.7	4.5	6.0	3.0			4.5	-2.7	2.9	-3.2				4.9
Q4	3.4	3.3	0.8	4.0	3.4			3.2	3.1	3.2	-1.8				4.8
2015 Q1	3.2	2.9	0.9	2.0	11.1			2.9	3.9	3.1	1.8				3.6
Q2	2.8	2.7	2.0	7.0	5.2			2.9	1.1	2.5	0.6				3.2
Q3	1.9	2.4	0.7	6.0	7.6			1.7	-0.4	1.3	-0.9				2.1
Q4	2.9	2.3	1.2	4.2	2.2			1.2	0.1	1.0	-1.9				2.1
2016 Q1	3.3	2.6	2.0	1.9	-1.0			2.4	-1.5	1.6	-1.2				2.9
Q2	4.0	2.4	1.7	0.7	-0.1			2.7	4.0	3.0	5.1				3.0
Q3	4.1	2.2	0.5	1.8	-0.3			4.2	8.2	5.0	12.4				3.7
Q4	4.6	2.0	2.2	3.4	1.7			3.8	12.7	5.7	11.4				4.8
2017 Q1	4.6	2.0	1.7	4.4	3.6			3.8	14.6	6.0	13.1				4.4
Q2	4.0	2.3	2.0	4.4	2.1			3.7	9.8	5.0	10.1				3.6

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 2013, £ million

National expenditure on goods and services at market prices																
Final consumption expenditure					Gross capital formation											
	House-holds	Non-prof- it instit- utions <sup>2</sup>	General government	Gross fixed capital formation	Of which business invest- ment <sup>3</sup>	Change in inven- tories <sup>4</sup>	Of which alignment adjust- ment	Acquisi- tions less disposals of valuables <sup>5</sup>	Total	Total exports	Gross final expendi- ture	less imports	Total balance <sup>6</sup>	Trade (expen- diture)	Statisti- cal discre- pancy (expen- diture)	Gross domestic product at market prices
	ABJR	HAYO	NMRY	NPQT	NPEL	CAFU	DMUM	NPJR	YBIM	IKBK	ABMG	IKBL	IKBM	GIXS	ABMI	
2013	1 084 011	54 535	349 615	280 224	162 326	5 074	-	5 342	1 778 801	517 642	2 296 443	556 880	-39 238	-	1 739 563	
2014	1 107 154	55 982	357 590	298 872	168 627	16 630	-	2 561	1 838 789	525 176	2 363 965	570 989	-45 813	-	1 792 976	
2015	1 134 372	56 417	362 262	309 144	177 233	12 371	-	-28	1 874 538	557 023	2 431 561	602 420	-45 397	3 177	1 832 318	
2016	1 166 394	57 233	365 281	310 816	174 548	2 567	-	479	1 902 770	567 238	2 470 008	619 532	-52 294	14 934	1 865 410	
<b>Seasonally adjusted</b>																
2014 Q1	274 157	13 833	89 221	74 953	40 412	1 804	-1 983	-402	453 566	131 232	584 798	142 373	-11 141	-	442 425	
Q2	275 226	14 126	89 395	73 762	42 832	3 941	543	-217	456 233	130 782	587 015	140 496	-9 714	-	446 519	
Q3	279 074	14 051	89 598	74 821	42 294	4 867	-401	790	463 201	129 030	592 231	142 090	-13 060	-	450 141	
Q4	278 697	13 972	89 376	75 336	43 089	6 018	1 841	2 390	465 789	134 132	599 921	146 030	-11 898	-	453 891	
2015 Q1	280 745	14 130	89 752	76 447	44 234	4 319	1 096	2 773	468 166	138 399	606 565	152 030	-13 631	491	455 026	
Q2	282 061	14 243	90 551	77 394	44 119	3 600	439	-210	467 639	137 418	605 057	148 548	-11 130	705	457 214	
Q3	285 218	13 974	91 058	78 003	44 977	2 638	-2 002	-449	470 442	136 575	607 017	149 370	-12 795	809	458 456	
Q4	286 348	14 070	90 901	77 300	43 903	1 814	467	-2 142	468 291	144 631	612 922	152 472	-7 841	1 172	461 622	
2016 Q1	288 325	14 287	91 239	77 320	43 415	673	-1 046	584	472 428	140 382	612 810	153 150	-12 768	2 673	462 333	
Q2	290 533	14 299	91 441	77 501	43 741	434	-845	-1 184	473 024	142 175	615 199	153 620	-11 445	3 534	465 113	
Q3	292 747	14 267	91 307	77 941	43 897	1 448	1 914	3 627	481 337	139 129	620 466	157 206	-18 077	4 177	467 437	
Q4	294 789	14 380	91 294	78 054	43 495	12	-23	-2 548	475 981	145 552	621 533	155 556	-10 004	4 550	470 527	
2017 Q1	295 904	14 453	91 945	78 855	43 735	-538	15	216	480 835	144 501	625 336	158 202	-13 701	4 390	471 524	
Q2	296 202	14 491	92 538	79 434	43 752	756	303	-956	482 465	145 535	628 000	159 336	-13 801	4 265	472 929	
<b>Percentage change, latest year on previous year</b>																
	KGZ5	KH26	KH2I	KG7N	KG7M			KGX9	KH2U	KGW5	KH3N				IHYP	
2013	1.6	-	0.3	3.2	2.6			2.6	1.1	2.3	3.4				1.9	
2014	2.1	2.7	2.3	6.7	3.9			3.4	1.5	2.9	2.5				3.1	
2015	2.5	0.8	1.3	3.4	5.1			1.9	6.1	2.9	5.5				2.2	
2016	2.8	1.4	0.8	0.5	-1.5			1.5	1.8	1.6	2.8				1.8	
<b>Percentage change, latest quarter on previous quarter</b>																
	KGZ6	KH27	KH2J	KG7Q	KG7P			KGY2	KH2V	KGW6	KH3O				IHYQ	
2014 Q1	0.2	1.6	1.5	2.8	-3.4			0.1	2.6	0.6	-0.1				0.8	
Q2	0.4	2.1	0.2	-1.6	6.0			0.6	-0.3	0.4	-1.3				0.9	
Q3	1.4	-0.5	0.2	1.4	-1.3			1.5	-1.3	0.9	1.1				0.8	
Q4	-0.1	-0.6	-0.2	0.7	1.9			0.6	4.0	1.3	2.8				0.8	
2015 Q1	0.7	1.1	0.4	1.5	2.7			0.5	3.2	1.1	4.1				0.3	
Q2	0.5	0.8	0.9	1.2	-0.3			-0.1	-0.7	-0.2	-2.3				0.5	
Q3	1.1	-1.9	0.6	0.8	1.9			0.6	-0.6	0.3	0.6				0.3	
Q4	0.4	0.7	-0.2	-0.9	-2.4			-0.5	5.9	1.0	2.1				0.7	
2016 Q1	0.7	1.5	0.4	-	-1.1			0.9	-2.9	-	0.4				0.2	
Q2	0.8	0.1	0.2	0.2	0.8			0.1	1.3	0.4	0.3				0.6	
Q3	0.8	-0.2	-0.1	0.6	0.4			1.8	-2.1	0.9	2.3				0.5	
Q4	0.7	0.8	-	0.1	-0.9			-1.1	4.6	0.2	-1.0				0.7	
2017 Q1	0.4	0.5	0.7	1.0	0.6			1.0	-0.7	0.6	1.7				0.2	
Q2	0.1	0.3	0.6	0.7	-			0.3	0.7	0.4	0.7				0.3	
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>																
	KGZ7	KH28	KH2K	KG7T	KG7S			KGY3	KH2W	KGW7	KH3P				IHYR	
2014 Q1	1.9	2.0	2.1	11.0	1.7			3.5	3.4	3.5	6.3				2.6	
Q2	2.1	3.6	2.7	7.4	7.9			3.6	-1.7	2.4	0.2				3.1	
Q3	2.7	2.5	2.7	5.3	2.9			3.6	-0.5	2.7	1.4				3.1	
Q4	1.8	2.6	1.7	3.3	3.0			2.8	4.8	3.2	2.4				3.5	
2015 Q1	2.4	2.1	0.6	2.0	9.5			3.2	5.5	3.7	6.8				2.8	
Q2	2.5	0.8	1.3	4.9	3.0			2.5	5.1	3.1	5.7				2.4	
Q3	2.2	-0.5	1.6	4.3	6.3			1.6	5.8	2.5	5.1				1.8	
Q4	2.7	0.7	1.7	2.6	1.9			0.5	7.8	2.2	4.4				1.7	
2016 Q1	2.7	1.1	1.7	1.1	-1.9			0.9	1.4	1.0	0.7				1.6	
Q2	3.0	0.4	1.0	0.1	-0.9			1.2	3.5	1.7	3.4				1.7	
Q3	2.6	2.1	0.3	-0.1	-2.4			2.3	1.9	2.2	5.2				2.0	
Q4	2.9	2.2	0.4	1.0	-0.9			1.6	0.6	1.4	2.0				1.9	
2017 Q1	2.6	1.2	0.8	2.0	0.7			1.8	2.9	2.0	3.3				2.0	
Q2	2.0	1.3	1.2	2.5	-			2.0	2.4	2.1	3.7				1.7	

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

2 Non-profit institutions serving households.

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

4 Quarterly alignment adjustment included in this series.

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

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

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

£ million

	Compen- sation of employees	Gross operating surplus of corporations <sup>2,3</sup>	Of which alignment adjustment	Other income <sup>4</sup>	Gross value added at factor cost	Taxes on products & production less subsidies	Statistical discrepancy (income)	Gross domestic product at market prices
	DTWM	CGBZ	DMUQ	CGBX	CGCB	CMVL	GIXQ	YBHA
2013	879 055	364 980	–	283 924	1 527 959	211 604	–	1 739 563
2014	899 342	394 289	–	306 634	1 600 265	222 215	–	1 822 480
2015	928 147	398 839	–	318 478	1 645 464	228 798	–1 548	1 872 714
2016	962 635	405 816	–	333 965	1 702 416	238 286	–1 065	1 939 637
<b>Seasonally adjusted</b>								
2014 Q1	222 706	94 543	–294	74 643	391 892	54 765	–	446 657
Q2	223 080	99 439	–740	76 857	399 376	55 473	–	454 849
Q3	225 342	102 050	1 455	77 213	404 605	55 073	–	459 678
Q4	228 214	98 257	–421	77 921	404 392	56 904	–	461 296
2015 Q1	229 391	100 003	–517	78 166	407 560	55 422	–237	462 745
Q2	231 222	102 521	1 880	79 377	413 120	56 810	–345	469 585
Q3	233 209	98 692	–34	80 000	411 901	57 782	–394	469 289
Q4	234 325	97 623	–1 329	80 935	412 883	58 784	–572	471 095
2016 Q1	235 343	101 036	–924	81 807	418 186	58 243	–303	476 126
Q2	240 350	101 086	–2	83 300	424 736	58 959	–231	483 464
Q3	242 951	100 472	–458	84 164	427 587	59 114	–223	486 478
Q4	243 991	103 222	1 384	84 694	431 907	61 970	–308	493 569
2017 Q1	245 361	107 429	2 633	85 087	437 877	59 102	–104	496 875
Q2	248 334	107 327	1 990	85 437	441 098	60 078	–80	501 096
<b>Percentage change, latest year on previous year</b>								
	KGI3	KH4V		KH6T	KH6N	KH65		IHYM
2013	3.4	5.6		2.5	3.7	4.7		3.9
2014	2.3	8.0		8.0	4.7	5.0		4.8
2015	3.2	1.2		3.9	2.8	3.0		2.8
2016	3.7	1.7		4.9	3.5	4.1		3.6
<b>Percentage change, latest quarter on previous quarter</b>								
	KGI4	KH4W		KH6U	KH6O	KH66		IHYN
2014 Q1	0.3	3.0		3.6	1.6	0.5		1.4
Q2	0.2	5.2		3.0	1.9	1.3		1.8
Q3	1.0	2.6		0.5	1.3	–0.7		1.1
Q4	1.3	–3.7		0.9	–0.1	3.3		0.4
2015 Q1	0.5	1.8		0.3	0.8	–2.6		0.3
Q2	0.8	2.5		1.5	1.4	2.5		1.5
Q3	0.9	–3.7		0.8	–0.3	1.7		–0.1
Q4	0.5	–1.1		1.2	0.2	1.7		0.4
2016 Q1	0.4	3.5		1.1	1.3	–0.9		1.1
Q2	2.1	–		1.8	1.6	1.2		1.5
Q3	1.1	–0.6		1.0	0.7	0.3		0.6
Q4	0.4	2.7		0.6	1.0	4.8		1.5
2017 Q1	0.6	4.1		0.5	1.4	–4.6		0.7
Q2	1.2	–0.1		0.4	0.7	1.7		0.8
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>								
	KGI5	KH4X		KH6V	KH6P	KH67		IHYO
2014 Q1	3.5	2.6		6.2	3.7	6.8		4.1
Q2	0.9	13.0		8.8	5.2	6.3		5.3
Q3	2.1	9.8		8.9	5.2	2.6		4.9
Q4	2.8	7.0		8.1	4.8	4.5		4.8
2015 Q1	3.0	5.8		4.7	4.0	1.2		3.6
Q2	3.6	3.1		3.3	3.4	2.4		3.2
Q3	3.5	–3.3		3.6	1.8	4.9		2.1
Q4	2.7	–0.6		3.9	2.1	3.3		2.1
2016 Q1	2.6	1.0		4.7	2.6	5.1		2.9
Q2	3.9	–1.4		4.9	2.8	3.8		3.0
Q3	4.2	1.8		5.2	3.8	2.3		3.7
Q4	4.1	5.7		4.6	4.6	5.4		4.8
2017 Q1	4.3	6.3		4.0	4.7	1.5		4.4
Q2	3.3	6.2		2.6	3.9	1.9		3.6

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.

# H1 Exports and imports of goods and services

## Current market prices

£ million

	Exports			Imports			Balance		
	Goods	Services	Total	Goods	Services	Total	Goods	Services	Total <sup>1</sup>
	BOKG	IKBB	IKBH	BOKH	IKBC	IKBI	BOKI	IKBD	IKBJ
2013	303 147	214 495	517 642	423 811	133 069	556 880	-120 664	81 426	-39 238
2014	292 894	218 760	511 654	415 469	132 408	547 877	-122 575	86 352	-36 223
2015	287 584	229 862	517 446	407 304	139 930	547 234	-119 720	89 932	-29 788
2016	301 405	246 185	547 590	435 472	149 144	584 616	-134 067	97 041	-37 026
<b>Seasonally adjusted</b>									
2014 Q1	73 109	52 974	126 083	102 062	35 764	137 826	-28 953	17 210	-11 743
Q2	73 463	55 116	128 579	102 862	32 353	135 215	-29 399	22 763	-6 636
Q3	72 324	54 374	126 698	103 489	32 386	135 875	-31 165	21 988	-9 177
Q4	73 998	56 296	130 294	107 056	31 905	138 961	-33 058	24 391	-8 667
2015 Q1	71 727	59 215	130 942	106 184	34 130	140 314	-34 457	25 085	-9 372
Q2	74 309	55 628	129 937	101 639	34 373	136 012	-27 330	21 255	-6 075
Q3	70 627	55 533	126 160	99 435	35 203	134 638	-28 808	20 330	-8 478
Q4	70 921	59 486	130 407	100 046	36 224	136 270	-29 125	23 262	-5 863
2016 Q1	70 065	58 970	129 035	102 384	36 191	138 575	-32 319	22 779	-9 540
Q2	74 835	60 259	135 094	105 700	37 238	142 938	-30 865	23 021	-7 844
Q3	74 448	62 064	136 512	113 687	37 622	151 309	-39 239	24 442	-14 797
Q4	82 057	64 892	146 949	113 701	38 093	151 794	-31 644	26 799	-4 845
2017 Q1	83 728	64 116	147 844	117 988	38 695	156 683	-34 260	25 421	-8 839
Q2	83 958	64 436	148 394	118 329	39 009	157 338	-34 371	25 427	-8 944
<b>Percentage change, latest year on previous year</b>									
	KG9K	KH35	KH2O	KG9L	KH3W	KH3H			
2013	0.5	8.6	3.7	2.7	7.4	3.8			
2014	-3.4	2.0	-1.2	-2.0	-0.5	-1.6			
2015	-1.8	5.1	1.1	-2.0	5.7	-0.1			
2016	4.8	7.1	5.8	6.9	6.6	6.8			
<b>Percentage change, latest quarter on previous quarter</b>									
	KG9O	KH36	KH2P	KG9P	KH3X	KH3I			
2014 Q1	-0.6	0.2	-0.2	-4.8	4.4	-2.6			
Q2	0.5	4.0	2.0	0.8	-9.5	-1.9			
Q3	-1.6	-1.3	-1.5	0.6	0.1	0.5			
Q4	2.3	3.5	2.8	3.4	-1.5	2.3			
2015 Q1	-3.1	5.2	0.5	-0.8	7.0	1.0			
Q2	3.6	-6.1	-0.8	-4.3	0.7	-3.1			
Q3	-5.0	-0.2	-2.9	-2.2	2.4	-1.0			
Q4	0.4	7.1	3.4	0.6	2.9	1.2			
2016 Q1	-1.2	-0.9	-1.1	2.3	-0.1	1.7			
Q2	6.8	2.2	4.7	3.2	2.9	3.1			
Q3	-0.5	3.0	1.0	7.6	1.0	5.9			
Q4	10.2	4.6	7.6	-	1.3	0.3			
2017 Q1	2.0	-1.2	0.6	3.8	1.6	3.2			
Q2	0.3	0.5	0.4	0.3	0.8	0.4			
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>									
	KG9S	KH37	KH2Q	KG9T	KH3Y	KH3J			
2014 Q1	-2.6	-0.9	-1.9	-1.3	13.6	2.2			
Q2	-5.3	0.4	-3.0	-3.7	-2.9	-3.5			
Q3	-6.0	2.0	-2.7	-2.7	-4.8	-3.2			
Q4	0.6	6.5	3.1	-0.2	-6.8	-1.8			
2015 Q1	-1.9	11.8	3.9	4.0	-4.6	1.8			
Q2	1.2	0.9	1.1	-1.2	6.2	0.6			
Q3	-2.3	2.1	-0.4	-3.9	8.7	-0.9			
Q4	-4.2	5.7	0.1	-6.5	13.5	-1.9			
2016 Q1	-2.3	-0.4	-1.5	-3.6	6.0	-1.2			
Q2	0.7	8.3	4.0	4.0	8.3	5.1			
Q3	5.4	11.8	8.2	14.3	6.9	12.4			
Q4	15.7	9.1	12.7	13.6	5.2	11.4			
2017 Q1	19.5	8.7	14.6	15.2	6.9	13.1			
Q2	12.2	6.9	9.8	11.9	4.8	10.1			

<sup>1</sup> Trade balance is calculated by using exports of goods and services minus imports of goods and services

# H2 Exports and imports of goods and services

## Chained volume measures

Reference year 2013, £ million

	Exports			Imports			Balance
	Goods	Services	Total	Goods	Services	Total	Total <sup>1</sup>
	BQKQ	IKBE	IKBK	BQKO	IKBF	IKBL	IKBM
2013	303 147	214 495	517 642	423 811	133 069	556 880	-39 238
2014	307 435	217 741	525 176	434 438	136 551	570 989	-45 813
2015	329 548	227 475	557 023	458 051	144 369	602 420	-45 397
2016	326 551	240 687	567 238	473 564	145 968	619 532	-52 294
<b>Seasonally adjusted</b>							
2014 Q1	75 542	55 690	131 232	105 704	36 669	142 373	-11 141
Q2	76 328	54 454	130 782	107 321	33 175	140 496	-9 714
Q3	75 968	53 062	129 030	108 550	33 540	142 090	-13 060
Q4	79 597	54 535	134 132	112 863	33 167	146 030	-11 898
2015 Q1	80 011	58 388	138 399	117 061	34 969	152 030	-13 631
Q2	83 889	53 529	137 418	112 757	35 791	148 548	-11 130
Q3	82 157	54 418	136 575	112 865	36 505	149 370	-12 795
Q4	83 491	61 140	144 631	115 368	37 104	152 472	-7 841
2016 Q1	81 523	58 859	140 382	116 276	36 874	153 150	-12 768
Q2	82 513	59 662	142 175	116 724	36 896	153 620	-11 445
Q3	78 633	60 496	139 129	121 261	35 945	157 206	-18 077
Q4	83 882	61 670	145 552	119 303	36 253	155 556	-10 004
2017 Q1	85 379	59 122	144 501	121 797	36 405	158 202	-13 701
Q2	86 657	58 878	145 535	122 267	37 069	159 336	-13 801
<b>Percentage change, latest year on previous year</b>							
	KG9X	KH3B	KH2U	KG9W	KH44	KH3N	
2013	-0.7	3.8	1.1	2.9	5.2	3.4	
2014	1.4	1.5	1.5	2.5	2.6	2.5	
2015	7.2	4.5	6.1	5.4	5.7	5.5	
2016	-0.9	5.8	1.8	3.4	1.1	2.8	
<b>Percentage change, latest quarter on previous quarter</b>							
	KGA2	KH3C	KH2V	KG9Z	KH45	KH3O	
2014 Q1	1.4	4.1	2.6	-2.3	6.8	-0.1	
Q2	1.0	-2.2	-0.3	1.5	-9.5	-1.3	
Q3	-0.5	-2.6	-1.3	1.1	1.1	1.1	
Q4	4.8	2.8	4.0	4.0	-1.1	2.8	
2015 Q1	0.5	7.1	3.2	3.7	5.4	4.1	
Q2	4.8	-8.3	-0.7	-3.7	2.4	-2.3	
Q3	-2.1	1.7	-0.6	0.1	2.0	0.6	
Q4	1.6	12.4	5.9	2.2	1.6	2.1	
2016 Q1	-2.4	-3.7	-2.9	0.8	-0.6	0.4	
Q2	1.2	1.4	1.3	0.4	0.1	0.3	
Q3	-4.7	1.4	-2.1	3.9	-2.6	2.3	
Q4	6.7	1.9	4.6	-1.6	0.9	-1.0	
2017 Q1	1.8	-4.1	-0.7	2.1	0.4	1.7	
Q2	1.5	-0.4	0.7	0.4	1.8	0.7	
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>							
	KGA5	KH3D	KH2W	KGA4	KH46	KH3P	
2014 Q1	1.5	6.0	3.4	3.3	16.0	6.3	
Q2	-2.0	-1.4	-1.7	0.4	-0.4	0.2	
Q3	-0.5	-0.4	-0.5	2.1	-0.8	1.4	
Q4	6.9	2.0	4.8	4.3	-3.4	2.4	
2015 Q1	5.9	4.8	5.5	10.7	-4.6	6.8	
Q2	9.9	-1.7	5.1	5.1	7.9	5.7	
Q3	8.1	2.6	5.8	4.0	8.8	5.1	
Q4	4.9	12.1	7.8	2.2	11.9	4.4	
2016 Q1	1.9	0.8	1.4	-0.7	5.4	0.7	
Q2	-1.6	11.5	3.5	3.5	3.1	3.4	
Q3	-4.3	11.2	1.9	7.4	-1.5	5.2	
Q4	0.5	0.9	0.6	3.4	-2.3	2.0	
2017 Q1	4.7	0.4	2.9	4.7	-1.3	3.3	
Q2	5.0	-1.3	2.4	4.7	0.5	3.7	

<sup>1</sup> Trade balance is calculated by using exports of goods and services minus imports of goods and services

# Gross value added at basic prices: individual measures

	£ million				Index numbers (2013 = 100)				
	Expenditure-based estimate at chained volume measures	At current prices			Value indices at current prices		Chained volume indices		
		Expenditure-based estimate	Income-based estimate	Residual error <sup>1</sup>	Expenditure-based estimate	Income-based estimate	Expenditure-based estimate	Income-based estimate <sup>2</sup>	Output-based estimate
	CAGR	CAGQ	CAGS	DJDS	IHYA	IHYB	IHYC	IHYD	YBFR
2013	1 551 553	1 551 553	1 551 553	–	100.0	100.0	100.0	100.0	100.0
2014	1 604 169	1 624 276	1 624 276	–	104.7	104.7	103.4	103.4	103.4
2015	1 639 625	1 665 945	1 670 740	–4 795	107.4	107.7	105.7	106.0	106.0
2016	1 657 150	1 710 414	1 727 025	–16 611	110.2	111.3	106.8	107.8	108.7
<b>Seasonally adjusted</b>									
2014 Q1	394 815	397 901	397 901	–	102.6	102.6	101.8	101.8	101.8
Q2	399 298	405 358	405 358	–	104.5	104.5	102.9	102.9	102.9
Q3	403 266	410 620	410 620	–	105.9	105.9	104.0	104.0	104.0
Q4	406 790	410 397	410 397	–	105.8	105.8	104.9	104.9	104.9
2015 Q1	407 297	412 992	413 728	–736	106.5	106.7	105.0	105.2	105.2
Q2	409 101	418 366	419 435	–1 069	107.9	108.1	105.5	105.7	105.7
Q3	410 331	417 107	418 329	–1 222	107.5	107.8	105.8	106.1	106.1
Q4	412 896	417 480	419 248	–1 768	107.6	108.1	106.4	106.9	106.9
2016 Q1	411 875	421 398	424 454	–3 056	108.6	109.4	106.2	107.0	107.5
Q2	413 413	427 060	430 964	–3 904	110.1	111.1	106.6	107.6	108.4
Q3	414 761	429 171	433 741	–4 570	110.6	111.8	106.9	108.1	109.0
Q4	417 101	432 785	437 866	–5 081	111.6	112.9	107.5	108.8	109.8
2017 Q1	418 166	438 906	443 636	–4 730	113.2	114.4	107.8	109.0	110.1
Q2	419 543	442 583	447 182	–4 599	114.1	115.3	108.2	109.3	110.4
<b>Percentage change, latest year on previous year</b>									
	KH4D	KH47	KH68		KH47	KH68	KH4D	KH6E	GDPQ
2013	1.4	3.7	3.7		3.7	3.7	1.4	1.4	1.4
2014	3.4	4.7	4.7		4.7	4.7	3.4	3.4	3.4
2015	2.2	2.6	2.9		2.6	2.9	2.2	2.5	2.5
2016	1.1	2.7	3.4		2.7	3.4	1.1	1.8	2.5
<b>Percentage change, latest quarter on previous quarter</b>									
	KH4F	KH49	KH6A		KH49	KH6A	KH4F	KH6G	
2014 Q1	1.0	1.6	1.6		1.6	1.6	1.0	1.0	1.0
Q2	1.1	1.9	1.9		1.9	1.9	1.1	1.1	1.1
Q3	1.0	1.3	1.3		1.3	1.3	1.0	1.0	1.0
Q4	0.9	–0.1	–0.1		–0.1	–0.1	0.9	0.9	0.9
2015 Q1	0.1	0.6	0.8		0.6	0.8	0.1	0.3	0.3
Q2	0.4	1.3	1.4		1.3	1.4	0.4	0.5	0.5
Q3	0.3	–0.3	–0.3		–0.3	–0.3	0.3	0.3	0.3
Q4	0.6	0.1	0.2		0.1	0.2	0.6	0.8	0.8
2016 Q1	–0.2	0.9	1.2		0.9	1.2	–0.2	–	0.5
Q2	0.4	1.3	1.5		1.3	1.5	0.4	0.6	0.8
Q3	0.3	0.5	0.6		0.5	0.6	0.3	0.5	0.6
Q4	0.6	0.8	1.0		0.8	1.0	0.6	0.7	0.7
2017 Q1	0.3	1.4	1.3		1.4	1.3	0.3	0.2	0.2
Q2	0.3	0.8	0.8		0.8	0.8	0.3	0.3	0.3
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>									
	KH4H	KH4B	KH6C		KH4B	KH6C	KH4H	KH6I	GDPR
2014 Q1	2.4	3.7	3.7		3.7	3.7	2.4	2.4	2.4
Q2	3.3	5.1	5.1		5.1	5.1	3.3	3.3	3.3
Q3	3.7	5.1	5.1		5.1	5.1	3.7	3.7	3.7
Q4	4.1	4.7	4.7		4.7	4.7	4.1	4.1	4.1
2015 Q1	3.2	3.8	4.0		3.8	4.0	3.2	3.3	3.4
Q2	2.5	3.2	3.5		3.2	3.5	2.5	2.7	2.7
Q3	1.8	1.6	1.9		1.6	1.9	1.8	2.0	2.1
Q4	1.5	1.7	2.2		1.7	2.2	1.5	1.9	1.9
2016 Q1	1.1	2.0	2.6		2.0	2.6	1.1	1.7	2.2
Q2	1.1	2.1	2.7		2.1	2.7	1.1	1.7	2.5
Q3	1.1	2.9	3.7		2.9	3.7	1.1	1.9	2.8
Q4	1.0	3.7	4.4		3.7	4.4	1.0	1.8	2.7
2017 Q1	1.5	4.2	4.5		4.2	4.5	1.5	1.9	2.4
Q2	1.5	3.6	3.8		3.6	3.8	1.5	1.6	1.8

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

2 Income data deflated by the implied GDP deflator, based on expenditure data.

	Changes in inventories		Gross operating surplus of non-financial corporations at current prices
	At current prices	Chained volume measures (Reference year 2013)	
<b>Seasonally adjusted</b>			
2014 Q1	DMUN -2 005	DMUM -1 983	DMUQ -294
Q2	550	543	-740
Q3	-413	-401	1 455
Q4	1 868	1 841	-421
2015 Q1	1 115	1 096	-517
Q2	453	439	1 880
Q3	-2 047	-2 002	-34
Q4	479	467	-1 329
2016 Q1	-1 079	-1 046	-924
Q2	-882	-845	-2
Q3	1 988	1 914	-458
Q4	-27	-23	1 384
2017 Q1	16	15	2 633
Q2	284	303	1 990

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

£ millions except deflator index which is 2016/2017 = 100

	Current prices					Chained Volume Measures (reference year 2013)				
	Gross domestic product at market prices	Gross domestic product at market prices non seasonally adjusted	Gross value added at basic prices	General government final consumption expenditure	General government gross fixed capital formation	Gross domestic product at market prices	Gross value added at basic prices	General government final consumption expenditure	General government gross fixed capital formation	Implied GDP deflator at market prices <sup>3 4</sup>
	YBHA	BKTL	ABML	NMRP	RPZG	ABMI	ABMM	NMRY	DLWF	L8GG
2013/14	1 757 219	1 759 560	1 565 840	352 959	49 178	1 750 963	1 560 852	351 436	48 495	95.9654
2014/15	1 838 568	1 834 812	1 639 866	359 298	47 051	1 805 577	1 617 142	358 121	46 760	97.3749
2015/16	1 886 095	1 885 846	1 679 852	364 639	49 222	1 839 625	1 649 562	363 749	47 087	98.0424
2016/17	1 960 386	1 955 442	1 745 341	370 152	51 801	1 874 601	1 680 092	365 987	49 292	100.0000
<b>Seasonally adjusted</b>										
2014 Q1	446 657	453 938	397 901	89 016	14 703	442 425	394 815	89 221	13 769	96.5416
Q2	454 849	449 736	405 358	89 072	11 255	446 519	399 298	89 395	10 946	97.4108
Q3	459 678	455 439	410 620	90 924	11 841	450 141	403 266	89 598	11 946	97.6529
Q4	461 296	463 367	410 397	89 517	11 732	453 891	406 790	89 376	11 874	97.1870
2015 Q1	462 745	466 270	413 491	89 785	12 223	455 026	407 788	89 752	11 994	97.2491
Q2	469 585	462 910	419 090	90 882	12 740	457 214	409 806	90 551	11 902	98.2143
Q3	469 289	466 894	417 935	91 576	12 098	458 456	411 140	91 058	11 708	97.8865
Q4	471 095	476 640	418 676	90 596	12 195	461 622	414 068	90 901	11 670	97.5892
2016 Q1	476 126	479 402	424 151	91 585	12 189	462 333	414 548	91 239	11 807	98.4798
Q2	483 464	479 469	430 733	92 407	12 454	465 113	416 947	91 441	11 856	99.3998
Q3	486 478	484 592	433 518	92 045	12 922	467 437	418 938	91 307	12 349	99.5222
Q4	493 569	496 174	437 558	92 602	13 294	470 527	421 651	91 294	12 505	100.3098
2017 Q1	496 875	495 207	443 532	93 098	13 131	471 524	422 556	91 945	12 582	100.7682
Q2	501 096	494 757	447 102	94 221	13 862	472 929	423 808	92 538	13 205	101.3223
<b>Percentage change, latest financial year on previous financial year</b>										
2013/14	3.9	4.1	3.6	2.2	9.7	2.2	1.6	1.0	6.0	1.6
2014/15	4.6	4.3	4.7	1.8	-4.3	3.1	3.6	1.9	-3.6	1.5
2015/16	2.6	2.8	2.4	1.5	4.6	1.9	2.0	1.6	0.7	0.7
2016/17	3.9	3.7	3.9	1.5	5.2	1.9	1.9	0.6	4.7	2.0
<b>Percentage change, latest quarter on previous quarter</b>										
	IHYN	A8L9	KGL8	KH2D	KH7P	IHYQ	KGM9	KH2J	KH9C	L8GH
2014 Q1	1.4	1.9	1.6	0.2	25.5	0.8	1.0	1.5	16.1	0.6
Q2	1.8	-0.9	1.9	0.1	-23.5	0.9	1.1	0.2	-20.5	0.9
Q3	1.1	1.3	1.3	2.1	5.2	0.8	1.0	0.2	9.1	0.2
Q4	0.4	1.7	-0.1	-1.5	-0.9	0.8	0.9	-0.2	-0.6	-0.5
2015 Q1	0.3	0.6	0.8	0.3	4.2	0.3	0.2	0.4	1.0	0.1
Q2	1.5	-0.7	1.4	1.2	4.2	0.5	0.5	0.9	-0.8	1.0
Q3	-0.1	0.9	-0.3	0.8	-5.0	0.3	0.3	0.6	-1.6	-0.3
Q4	0.4	2.1	0.2	-1.1	0.8	0.7	0.7	-0.2	-0.3	-0.3
2016 Q1	1.1	0.6	1.3	1.1	-	0.2	0.1	0.4	1.2	0.9
Q2	1.5	-	1.6	0.9	2.2	0.6	0.6	0.2	0.4	0.9
Q3	0.6	1.1	0.6	-0.4	3.8	0.5	0.5	-0.1	4.2	0.1
Q4	1.5	2.4	0.9	0.6	2.9	0.7	0.6	-	1.3	0.8
2017 Q1	0.7	-0.2	1.4	0.5	-1.2	0.2	0.2	0.7	0.6	0.5
Q2	0.8	-0.1	0.8	1.2	5.6	0.3	0.3	0.6	5.0	0.5
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>										
	IHYO	A8LA	KGM2	KH2E	KH7R	IHYR	KGN3	KH2K	KH9M	L8GI
2014 Q1	4.1	4.6	3.7	3.9	30.4	2.6	2.4	2.1	24.9	1.4
Q2	5.3	5.5	5.1	1.1	-1.2	3.1	3.3	2.7	-3.3	2.2
Q3	4.9	4.9	5.1	4.5	4.1	3.1	3.7	2.7	3.4	1.7
Q4	4.8	4.1	4.7	0.8	0.2	3.5	4.1	1.7	0.1	1.3
2015 Q1	3.6	2.7	3.9	0.9	-16.9	2.8	3.3	0.6	-12.9	0.7
Q2	3.2	2.9	3.4	2.0	13.2	2.4	2.6	1.3	8.7	0.8
Q3	2.1	2.5	1.8	0.7	2.2	1.8	2.0	1.6	-2.0	0.2
Q4	2.1	2.9	2.0	1.2	3.9	1.7	1.8	1.7	-1.7	0.4
2016 Q1	2.9	2.8	2.6	2.0	-0.3	1.6	1.7	1.7	-1.6	1.3
Q2	3.0	3.6	2.8	1.7	-2.2	1.7	1.7	1.0	-0.4	1.2
Q3	3.7	3.8	3.7	0.5	6.8	2.0	1.9	0.3	5.5	1.7
Q4	4.8	4.1	4.5	2.2	9.0	1.9	1.8	0.4	7.2	2.8
2017 Q1	4.4	3.3	4.6	1.7	7.7	2.0	1.9	0.8	6.6	2.3
Q2	3.6	3.2	3.8	2.0	11.3	1.7	1.6	1.2	11.4	1.9

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 2016/2017 = 100 for presentational purposes, whereas in table A1 it is expressed as 2013 = 100.

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



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

2016 = 100

	Implied deflators <sup>2</sup>		
	Gross national expenditure	Gross domestic product at market prices <sup>3</sup>	Gross value added at basic prices
	MNE2	MNF2	MNX5
2013	97.0215	96.1747	96.8798
2014	98.0779	97.7573	98.0948
2015	98.3061	98.2971	98.4387
2016	100.0000	100.0000	100.0000
<b>Seasonally adjusted</b>			
2014 Q1	98.0608	97.0971	97.6387
Q2	98.1437	97.9713	98.3518
Q3	98.2111	98.2148	98.6482
Q4	97.8962	97.7462	97.7405
2015 Q1	97.7421	97.8086	98.2364
Q2	98.5407	98.7794	99.0763
Q3	98.3667	98.4497	98.4826
Q4	98.5747	98.1508	97.9596
2016 Q1	99.1801	99.0464	99.1257
Q2	100.0237	99.9718	100.0848
Q3	100.1695	100.0949	100.2532
Q4	100.6266	100.8870	100.5364
2017 Q1	101.1135	101.3480	101.6907
Q2	101.6634	101.9053	102.2064
<b>Percentage change, latest year on previous year</b>			
	MNE3	MNF3	MNX6
2013	1.2	1.9	2.3
2014	1.1	1.6	1.3
2015	0.2	0.6	0.4
2016	1.7	1.7	1.6
<b>Percentage change, latest quarter on previous quarter</b>			
	MNE4	MNF4	MNX7
2014 Q1	0.6	0.6	0.5
Q2	0.1	0.9	0.7
Q3	0.1	0.2	0.3
Q4	-0.3	-0.5	-0.9
2015 Q1	-0.2	0.1	0.5
Q2	0.8	1.0	0.9
Q3	-0.2	-0.3	-0.6
Q4	0.2	-0.3	-0.5
2016 Q1	0.6	0.9	1.2
Q2	0.9	0.9	1.0
Q3	0.1	0.1	0.2
Q4	0.5	0.8	0.3
2017 Q1	0.5	0.5	1.1
Q2	0.5	0.5	0.5
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>			
	MNE5	MNF5	MNX8
2014 Q1	1.7	1.4	1.3
Q2	1.4	2.2	1.8
Q3	0.9	1.7	1.3
Q4	0.4	1.3	0.6
2015 Q1	-0.3	0.7	0.6
Q2	0.4	0.8	0.7
Q3	0.2	0.2	-0.2
Q4	0.7	0.4	0.2
2016 Q1	1.5	1.3	0.9
Q2	1.5	1.2	1.0
Q3	1.8	1.7	1.8
Q4	2.1	2.8	2.6
2017 Q1	1.9	2.3	2.6
Q2	1.6	1.9	2.1

1 Implied deflator is expressed in terms of 2016 = 100, whereas in table A1 it is expressed as 2013 = 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.

	UK resident population mid-year estimates (persons thousands) <sup>2</sup>	Current Prices		Chained volume measures (Reference year 2013)	
		Gross domestic product at market prices <sup>3</sup>	Gross domestic product per head	Gross domestic product at market prices <sup>3</sup>	Gross domestic product per head
	EBAQ	YBHA	IHXT	ABMI	IHXW
2013	64 106	1 739 563	27 136	1 739 563	27 136
2014	64 597	1 822 480	28 213	1 792 976	27 756
2015	65 110	1 872 714	28 762	1 832 318	28 142
2016	65 572	1 939 637	29 580	1 865 410	28 448
<b>Seasonally adjusted</b>					
2014 Q1	64 474	446 657	6 928	442 425	6 862
Q2	64 597	454 849	7 041	446 519	6 912
Q3	64 725	459 678	7 102	450 141	6 955
Q4	64 854	461 296	7 113	453 891	6 999
2015 Q1	64 982	462 745	7 121	455 026	7 002
Q2	65 110	469 585	7 212	457 214	7 022
Q3	65 226	469 289	7 195	458 456	7 029
Q4	65 341	471 095	7 210	461 622	7 065
2016 Q1	65 457	476 126	7 274	462 333	7 063
Q2	65 572	483 464	7 373	465 113	7 093
Q3	65 686	486 478	7 406	467 437	7 116
Q4	65 801	493 569	7 501	470 527	7 151
2017 Q1	65 915	496 875	7 538	471 524	7 154
Q2	66 030	501 096	7 589	472 929	7 162
<b>Percentage change, latest year on previous year</b>					
		IHYM	N3Y3	IHYP	N3Y6
2013		3.9	3.2	1.9	1.3
2014		4.8	4.0	3.1	2.3
2015		2.8	1.9	2.2	1.4
2016		3.6	2.8	1.8	1.1
<b>Percentage change, latest quarter on previous quarter</b>					
		IHYN	N3Y4	IHYQ	N3Y7
2014 Q1		1.4	1.3	0.8	0.7
Q2		1.8	1.6	0.9	0.7
Q3		1.1	0.9	0.8	0.6
Q4		0.4	0.2	0.8	0.6
2015 Q1		0.3	0.1	0.3	–
Q2		1.5	1.3	0.5	0.3
Q3		–0.1	–0.2	0.3	0.1
Q4		0.4	0.2	0.7	0.5
2016 Q1		1.1	0.9	0.2	–
Q2		1.5	1.4	0.6	0.4
Q3		0.6	0.4	0.5	0.3
Q4		1.5	1.3	0.7	0.5
2017 Q1		0.7	0.5	0.2	–
Q2		0.8	0.7	0.3	0.1
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>					
		IHYO	N3Y5	IHYR	N3Y8
2014 Q1		4.1	3.4	2.6	1.9
Q2		5.3	4.5	3.1	2.3
Q3		4.9	4.1	3.1	2.3
Q4		4.8	4.0	3.5	2.7
2015 Q1		3.6	2.8	2.8	2.0
Q2		3.2	2.4	2.4	1.6
Q3		2.1	1.3	1.8	1.1
Q4		2.1	1.4	1.7	0.9
2016 Q1		2.9	2.1	1.6	0.9
Q2		3.0	2.2	1.7	1.0
Q3		3.7	2.9	2.0	1.2
Q4		4.8	4.0	1.9	1.2
2017 Q1		4.4	3.6	2.0	1.3
Q2		3.6	2.9	1.7	1.0

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

2 This data uses the UK resident population mid-year estimates published 23 June 2016. The latest population estimates published on 22 June 2017 will be included in quarterly national accounts on 29 September 2017.

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

	Agri- culture, forestry, and fishing	Total Production	Mining & quarrying inc oil & gas extract	Manu- facturing	Electric, gas, steam & air	Water supply, sewerage	Constr uction	Total Services	Distri- bution, hotels & restaurants	Transport storage and commu- nications	Business services and finance	Government and other services
<b>Percentage change, latest year on previous year</b>												
<b>Growth</b>												
2014	L3BB 13.9	L3BG 1.5	L3BH 0.6	L3BN 2.9	L3DM -6.0	L3DQ 0.7	L3DW 8.0	L3E2 3.3	L3GP 4.8	KI8L 3.0	KI8N 3.9	KI8P 1.7
2015	1.2	1.2	8.4	-0.2	0.5	3.4	4.9	2.6	4.5	3.7	2.9	0.5
2016	-3.4	1.2	0.6	0.7	1.7	5.6	2.4	2.9	5.1	3.7	2.4	1.6
<b>Contributions to growth</b>												
2014	ZZ3V 0.1	ZZ3W 0.2	ZZ3Y -	ZZ3X 0.3	ZZ3Z -0.1	ZZ42 -	ZZ43 0.5	ZZ44 2.6	ZZ45 0.7	ZZ46 0.3	ZZ47 1.2	ZZ48 0.4
2015	-	0.2	0.1	-	-	-	0.3	2.0	0.6	0.4	0.9	0.1
2016	-	0.2	-	0.1	-	0.1	0.2	2.3	0.7	0.4	0.8	0.3
<b>Percentage change, latest quarter on previous quarter</b>												
<b>Growth</b>												
2014 Q4	L3BB 2.6	L3BG 0.3	L3BH 1.4	L3BN 0.3	L3DM -2.1	L3DQ 1.3	L3DW 0.3	L3E2 1.0	L3GP 1.6	KI8L 1.2	KI8N 1.5	KI8P -0.1
2015 Q1	-3.1	0.4	1.8	-0.1	2.1	0.5	2.7	0.1	0.9	0.3	0.2	-0.5
Q2	1.0	0.6	8.1	-0.5	-2.5	4.0	0.6	0.5	0.9	0.9	0.2	0.5
Q3	0.5	0.1	1.7	-0.4	1.4	-	-0.9	0.5	0.8	0.5	0.5	0.2
Q4	0.3	-0.4	-2.3	0.1	-2.2	0.5	1.0	1.0	1.2	1.2	0.9	0.7
2016 Q1	-3.4	-0.3	-2.6	-0.3	0.4	2.5	1.2	0.7	1.8	0.4	0.4	0.5
Q2	-1.2	2.2	2.3	1.8	5.6	2.0	0.9	0.6	0.9	0.6	0.7	0.1
Q3	-	-0.4	4.5	-0.7	-4.3	-0.1	-0.3	0.9	1.1	2.6	0.7	0.3
Q4	1.0	0.4	-6.9	1.2	4.0	0.9	1.0	0.8	2.0	0.8	0.5	0.3
2017 Q1	0.1	0.1	1.5	0.3	-4.2	1.0	1.1	0.1	-0.6	-0.8	0.5	0.4
Q2	0.4	-0.3	0.4	-0.6	-0.2	0.1	-1.3	0.5	0.9	1.2	0.3	0.4
<b>Contributions to growth</b>												
2014 Q4	ZZ2F -	ZZ2G -	ZZ2I -	ZZ2H -	ZZ2J -	ZZ2K -	ZZ2L -	ZZ2M 0.8	ZZ2N 0.2	ZZ2O 0.1	ZZ2P 0.5	ZZ2Q -
2015 Q1	-	0.1	-	-	-	-	0.2	0.1	0.1	-	0.1	-0.1
Q2	-	0.1	0.1	-0.1	-	-	-	0.4	0.1	0.1	0.1	0.1
Q3	-	-	-	-	-	-	-0.1	0.4	0.1	0.1	0.2	-
Q4	-	-0.1	-	-	-	-	0.1	0.8	0.2	0.1	0.3	0.2
2016 Q1	-	-	-	-	-	-	0.1	0.5	0.3	-	0.1	0.1
Q2	-	0.3	-	0.2	0.1	-	0.1	0.4	0.1	0.1	0.2	-
Q3	-	-0.1	0.1	-0.1	-0.1	-	-	0.7	0.2	0.3	0.2	0.1
Q4	-	0.1	-0.1	0.1	0.1	-	0.1	0.6	0.3	0.1	0.2	0.1
2017 Q1	-	-	-	-	-0.1	-	0.1	0.1	-0.1	-0.1	0.2	0.1
Q2	-	-	-	-0.1	-	-	-0.1	0.4	0.1	0.1	0.1	0.1
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>												
<b>Growth</b>												
2014 Q4	L3ZZ 15.3	L426 1.3	L427 -0.3	L42D 2.8	L44C -3.8	L44G -2.5	L44M 7.1	L44Q 4.3	L47F 5.9	KI12 5.5	KI19 4.9	KI18 1.9
2015 Q1	3.2	1.2	1.6	1.1	3.8	-1.9	7.5	3.4	5.3	5.0	4.2	0.6
Q2	2.4	1.5	9.3	-0.1	0.6	5.1	6.2	2.7	4.5	4.1	3.1	0.3
Q3	0.8	1.3	13.4	-0.8	-1.2	5.8	2.7	2.1	4.2	2.9	2.4	0.1
Q4	-1.5	0.7	9.3	-0.9	-1.3	4.9	3.4	2.1	3.8	2.9	1.9	0.9
2016 Q1	-1.7	-	4.6	-1.1	-2.9	7.1	1.8	2.6	4.8	3.0	2.1	1.9
Q2	-3.8	1.6	-0.9	1.2	5.1	5.0	2.1	2.7	4.7	2.7	2.6	1.5
Q3	-4.3	1.2	1.8	0.9	-0.8	4.9	2.7	3.1	5.1	4.8	2.8	1.6
Q4	-3.7	1.9	-3.0	2.0	5.4	5.3	2.8	2.9	6.0	4.4	2.3	1.2
2017 Q1	-0.2	2.3	1.1	2.5	0.7	3.8	2.8	2.3	3.5	3.2	2.4	1.1
Q2	1.4	-0.3	-0.9	0.2	-4.8	2.0	0.4	2.3	3.5	3.9	1.9	1.4
<b>Contributions to growth</b>												
2014 Q4	ZZ36 0.1	ZZ37 0.2	ZZ39 -	ZZ38 0.3	ZZ3A -0.1	ZZ3B -	ZZ3C 0.4	ZZ3D 3.4	ZZ3E 0.8	ZZ3F 0.6	ZZ3G 1.6	ZZ3H 0.4
2015 Q1	-	0.2	-	0.1	0.1	-	0.5	2.7	0.7	0.5	1.3	0.1
Q2	-	0.2	0.2	-	-	0.1	0.4	2.1	0.6	0.4	1.0	0.1
Q3	-	0.2	0.2	-0.1	-	0.1	0.2	1.7	0.6	0.3	0.8	-
Q4	-	0.1	0.2	-0.1	-	0.1	0.2	1.6	0.5	0.3	0.6	0.2
2016 Q1	-	-	0.1	-0.1	-	0.1	0.1	2.1	0.7	0.3	0.7	0.4
Q2	-	0.2	-	0.1	0.1	0.1	0.1	2.1	0.7	0.3	0.8	0.3
Q3	-	0.2	-	0.1	-	0.1	0.2	2.5	0.7	0.5	0.9	0.4
Q4	-	0.3	-0.1	0.2	0.1	0.1	0.2	2.3	0.8	0.5	0.7	0.3
2017 Q1	-	0.3	-	0.3	-	-	0.2	1.9	0.5	0.4	0.8	0.3
Q2	-	-	-	-	-0.1	-	-	1.9	0.5	0.4	0.6	0.3

1 Estimates are accurate to 1 decimal place

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

# AB Annex B - Growth and contribution components of GDP<sup>1,2</sup>

## Chained Volume Measures

Seasonally adjusted data

Reference year 2013

	Final consumption expenditure								Net trade
	Households	Non-profit institutions <sup>3</sup>	General government	Gross capital formation	Gross fixed capital formation	Business investment	Total exports	less Total imports	
<b>Percentage change, latest year on previous year</b>									
<b>Growth</b>									
	KGZ5	KH26	KH2I	ZZ6H	KG7N	KG7M	KH2U	KH3N	
2014	2.1	2.7	2.3	9.4	6.7	3.9	1.5	2.5	
2015	2.5	0.8	1.3	1.1	3.4	5.1	6.1	5.5	
2016	2.8	1.4	0.8	-2.4	0.5	-1.5	1.8	2.8	
<b>Contributions to growth</b>									
	ZZ6M	ZZ6N	ZZ6O	ZZ6P	ZZ6Q	ZZ6R	ZZ6S	ZZ6T	ZZ6U
2014	1.3	0.1	0.5	1.6	1.1	0.4	0.4	0.8	-0.4
2015	1.5	-	0.3	0.2	0.6	0.5	1.8	1.8	-
2016	1.7	-	0.2	-0.4	0.1	-0.1	0.6	0.9	-0.4
<b>Percentage change, latest quarter on previous quarter</b>									
<b>Growth</b>									
	KGZ6	KH27	KH2J	ZZ5H	KG7Q	KG7P	KH2V	KH3O	
2014 Q4	-0.1	-0.6	-0.2	4.1	0.7	1.9	4.0	2.8	
2015 Q1	0.7	1.1	0.4	-0.2	1.5	2.7	3.2	4.1	
Q2	0.5	0.8	0.9	-3.3	1.2	-0.3	-0.7	-2.3	
Q3	1.1	-1.9	0.6	-0.7	0.8	1.9	-0.6	0.6	
Q4	0.4	0.7	-0.2	-4.0	-0.9	-2.4	5.9	2.1	
2016 Q1	0.7	1.5	0.4	2.1	-	-1.1	-2.9	0.4	
Q2	0.8	0.1	0.2	-2.3	0.2	0.8	1.3	0.3	
Q3	0.8	-0.2	-0.1	8.2	0.6	0.4	-2.1	2.3	
Q4	0.7	0.8	-	-9.0	0.1	-0.9	4.6	-1.0	
2017 Q1	0.4	0.5	0.7	4.0	1.0	0.6	-0.7	1.7	
Q2	0.1	0.3	0.6	0.9	0.7	-	0.7	0.7	
<b>Contributions to growth</b>									
	ZZ5M	ZZ5N	ZZ5O	ZZ5P	ZZ5Q	ZZ5R	ZZ5S	ZZ5T	ZZ5U
2014 Q4	-0.1	-	-	0.7	0.1	0.2	1.1	0.9	0.3
2015 Q1	0.5	-	0.1	-	0.2	0.3	0.9	1.3	-0.4
Q2	0.3	-	0.2	-0.6	0.2	-	-0.2	-0.8	0.5
Q3	0.7	-0.1	0.1	-0.1	0.1	0.2	-0.2	0.2	-0.4
Q4	0.2	-	-	-0.7	-0.2	-0.2	1.8	0.7	1.1
2016 Q1	0.4	-	0.1	0.3	-	-0.1	-0.9	0.1	-1.1
Q2	0.5	-	-	-0.4	-	0.1	0.4	0.1	0.3
Q3	0.5	-	-	1.3	0.1	-	-0.7	0.8	-1.4
Q4	0.4	-	-	-1.6	-	-0.1	1.4	-0.4	1.7
2017 Q1	0.2	-	0.1	0.6	0.2	0.1	-0.2	0.6	-0.8
Q2	0.1	-	0.1	0.1	0.1	-	0.2	0.2	-
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>									
<b>Growth</b>									
	KGZ7	KH28	KH2K	ZZ5Y	KG7T	KG7S	KH2W	KH3P	
2014 Q4	1.8	2.6	1.7	7.5	3.3	3.0	4.8	2.4	
2015 Q1	2.4	2.1	0.6	9.4	2.0	9.5	5.5	6.8	
Q2	2.5	0.8	1.3	4.3	4.9	3.0	5.1	5.7	
Q3	2.2	-0.5	1.6	-0.4	4.3	6.3	5.8	5.1	
Q4	2.7	0.7	1.7	-8.1	2.6	1.9	7.8	4.4	
2016 Q1	2.7	1.1	1.7	-5.9	1.1	-1.9	1.4	0.7	
Q2	3.0	0.4	1.0	-5.0	0.1	-0.9	3.5	3.4	
Q3	2.6	2.1	0.3	3.5	-0.1	-2.4	1.9	5.2	
Q4	2.9	2.2	0.4	-1.9	1.0	-0.9	0.6	2.0	
2017 Q1	2.6	1.2	0.8	-0.1	2.0	0.7	2.9	3.3	
Q2	2.0	1.3	1.2	3.2	2.5	-	2.4	3.7	
<b>Contributions to growth</b>									
	ZZ65	ZZ66	ZZ67	ZZ68	ZZ69	ZZ6A	ZZ6B	ZZ6C	ZZ6D
2014 Q4	1.1	0.1	0.3	1.3	0.5	0.3	1.4	0.8	0.6
2015 Q1	1.5	0.1	0.1	1.6	0.3	0.9	1.6	2.2	-0.6
Q2	1.5	-	0.3	0.7	0.8	0.3	1.5	1.8	-0.3
Q3	1.4	-	0.3	-0.1	0.7	0.6	1.7	1.6	0.1
Q4	1.7	-	0.3	-1.5	0.4	0.2	2.3	1.4	0.9
2016 Q1	1.7	-	0.3	-1.1	0.2	-0.2	0.4	0.2	0.2
Q2	1.9	-	0.2	-0.9	-	-0.1	1.0	1.1	-0.1
Q3	1.6	0.1	0.1	0.6	-	-0.2	0.6	1.7	-1.2
Q4	1.8	0.1	0.1	-0.3	0.2	-0.1	0.2	0.7	-0.5
2017 Q1	1.6	-	0.2	-	0.3	0.1	0.9	1.1	-0.2
Q2	1.2	-	0.2	0.5	0.4	-	0.7	1.2	-0.5

1 Estimates are accurate to 1 decimal place and are available from 2013 annually, Q1 2014 quarterly

2 This table does not include the contribution from the statistical discrepancy and components may not sum to the percentage change in average GDP. Chained volume measure data for this component are available in table C2

3 Non-profit institutions serving households

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

## Current Prices

Seasonally adjusted data

	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>				
	KGI3	KH4V	KH6T	KH65
2014	2.3	8.0	8.0	5.0
2015	3.2	1.2	3.9	3.0
2016	3.7	1.7	4.9	4.1
<b>Contributions to growth</b>				
	ZZ7H	ZZ7I	ZZ7J	ZZ7K
2014	1.2	1.7	1.3	0.6
2015	1.6	0.2	0.6	0.4
2016	1.8	0.4	0.8	0.5
<b>Percentage change, latest quarter on previous quarter</b>				
<b>Growth</b>				
	KGI4	KH4W	KH6U	KH66
2014 Q4	1.3	-3.7	0.9	3.3
2015 Q1	0.5	1.8	0.3	-2.6
Q2	0.8	2.5	1.5	2.5
Q3	0.9	-3.7	0.8	1.7
Q4	0.5	-1.1	1.2	1.7
2016 Q1	0.4	3.5	1.1	-0.9
Q2	2.1	-	1.8	1.2
Q3	1.1	-0.6	1.0	0.3
Q4	0.4	2.7	0.6	4.8
2017 Q1	0.6	4.1	0.5	-4.6
Q2	1.2	-0.1	0.4	1.7
<b>Contributions to growth</b>				
	ZZ6Z	ZZ72	ZZ73	ZZ74
2014 Q4	0.6	-0.8	0.2	0.4
2015 Q1	0.3	0.4	0.1	-0.3
Q2	0.4	0.5	0.3	0.3
Q3	0.4	-0.8	0.1	0.2
Q4	0.2	-0.2	0.2	0.2
2016 Q1	0.2	0.7	0.2	-0.1
Q2	1.1	-	0.3	0.2
Q3	0.5	-0.1	0.2	-
Q4	0.2	0.6	0.1	0.6
2017 Q1	0.3	0.9	0.1	-0.6
Q2	0.6	-	0.1	0.2
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>				
<b>Growth</b>				
	KGI5	KH4X	KH6V	KH67
2014 Q4	2.8	7.0	8.1	4.5
2015 Q1	3.0	5.8	4.7	1.2
Q2	3.6	3.1	3.3	2.4
Q3	3.5	-3.3	3.6	4.9
Q4	2.7	-0.6	3.9	3.3
2016 Q1	2.6	1.0	4.7	5.1
Q2	3.9	-1.4	4.9	3.8
Q3	4.2	1.8	5.2	2.3
Q4	4.1	5.7	4.6	5.4
2017 Q1	4.3	6.3	4.0	1.5
Q2	3.3	6.2	2.6	1.9
<b>Contributions to growth</b>				
	ZZ79	ZZ7A	ZZ7B	ZZ7C
2014 Q4	1.4	1.5	1.3	0.6
2015 Q1	1.5	1.2	0.8	0.1
Q2	1.8	0.7	0.6	0.3
Q3	1.7	-0.7	0.6	0.6
Q4	1.3	-0.1	0.7	0.4
2016 Q1	1.3	0.2	0.8	0.6
Q2	1.9	-0.3	0.8	0.5
Q3	2.1	0.4	0.9	0.3
Q4	2.1	1.2	0.8	0.7
2017 Q1	2.1	1.3	0.7	0.2
Q2	1.7	1.3	0.4	0.2

1 Estimates are accurate to 1 decimal place and are available from 2013 annually, Q1 2014 quarterly

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 2013

	Final consumption expenditure				Gross capital formation	Gross fixed capital formation	Total exports	less Total imports
	House-holds	Non-prof-it institutions <sup>2</sup>	General government					
<b>Percentage change, latest year on previous year</b>								
	ZZ93	ZZ94	ZZ95	ZZ96	ZZ97	ZZ98	ZZ99	
2014	1.7	1.2	0.3	-0.2	1.2	-2.6	-4.0	
2015	0.2	1.8	-0.1	0.3	1.3	-4.7	-5.3	
2016	1.1	0.8	0.8	5.1	1.4	3.9	3.9	
<b>Percentage change, latest quarter on previous quarter</b>								
	ZZ8N	ZZ8O	ZZ8P	ZZ8Q	ZZ8R	ZZ8S	ZZ8T	
2014 Q4	0.1	1.3	-1.3	-0.7	0.1	-1.1	-0.5	
2015 Q1	-0.2	-0.6	-0.1	0.1	0.9	-2.6	-3.0	
Q2	-0.1	-0.2	0.3	4.7	1.5	-0.1	-0.8	
Q3	-	2.4	0.2	-1.5	-0.9	-2.3	-1.6	
Q4	0.5	-	-0.9	0.6	-	-2.4	-0.8	
2016 Q1	0.2	-0.8	0.7	2.3	0.1	1.9	1.2	
Q2	0.3	0.4	0.7	3.1	1.3	3.4	2.8	
Q3	0.4	0.4	-0.2	-0.6	0.4	3.3	3.4	
Q4	0.6	-0.3	0.6	-0.1	0.6	2.9	1.4	
2017 Q1	0.5	0.3	-0.2	1.2	-	1.3	1.5	
Q2	0.5	0.6	0.6	0.7	0.8	-0.3	-0.3	
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>								
	ZZ8U	ZZ8V	ZZ8W	ZZ8X	ZZ8Y	ZZ8Z	ZZ92	
2014 Q4	1.6	0.7	-0.9	-2.2	0.7	-1.7	-4.1	
2015 Q1	0.8	0.7	0.3	-5.0	-	-1.5	-4.7	
Q2	0.3	1.8	0.7	0.2	2.0	-3.8	-4.9	
Q3	-0.3	2.9	-0.9	2.5	1.7	-5.9	-5.7	
Q4	0.1	1.6	-0.5	3.8	1.6	-7.2	-6.1	
2016 Q1	0.6	1.4	0.3	6.0	0.8	-2.8	-2.0	
Q2	1.0	2.0	0.7	4.4	0.5	0.5	1.6	
Q3	1.4	0.1	0.2	5.4	1.8	6.2	6.8	
Q4	1.6	-0.2	1.8	4.7	2.4	12.0	9.2	
2017 Q1	1.9	0.8	0.9	3.6	2.3	11.3	9.5	
Q2	2.0	1.0	0.8	1.2	1.9	7.3	6.1	

1 Estimates accurate to 1 decimal place and are available from 2013 annually, Q1 2014 quarterly

2 Non-profit institutions serving households

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

Seasonally adjusted data

Reference year 2013

	Agri- culture, forestry, and fishing	Total Production	Mining & quarrying inc oil & gas extract	Manu- facturing	Electric, gas, steam & air	Water supply, sewerage	Constr- uction	Total Services	Distri- bution, hotels & restaurants	Transport, storage and commu- nications	Business services and finance	Govern- ment & other services
<b>Percentage change, latest year on previous year</b>												
<b>Current estimates<sup>3</sup></b>												
	L3BB	L3BG	L3BH	L3BN	L3DM	L3DQ	L3DW	L3E2	L3GP	KI8L	KI8N	KI8P
2014	13.9	1.5	0.6	2.9	-6.0	0.7	8.0	3.3	4.8	3.0	3.9	1.7
2015	1.2	1.2	8.4	-0.2	0.5	3.4	4.9	2.6	4.5	3.7	2.9	0.5
2016	-3.4	1.2	0.6	0.7	1.7	5.6	2.4	2.9	5.1	3.7	2.4	1.6
<b>Previous estimates<sup>2</sup></b>												
	A2EQ	A2ER	A2ET	A2ES	A2EU	A2EV	A2EW	A2EY	A2F2	A2F3	A2F4	A2F5
2014	13.9	1.5	0.6	2.9	-6.0	0.7	8.0	3.3	4.8	3.0	3.9	1.7
2015	1.2	1.2	8.4	-0.2	0.5	3.4	4.9	2.6	4.5	3.7	2.9	0.5
2016	-3.4	1.2	0.6	0.7	1.7	5.6	2.4	2.9	5.1	3.7	2.4	1.6
<b>Revisions</b>												
	ZZ52	ZZ53	ZZ55	ZZ54	ZZ56	ZZ57	ZZ58	ZZ59	ZZ5A	ZZ5B	ZZ5C	ZZ5D
2014	-	-	-	-	-	-	-	-	-	-	-	-
2015	-	-	-	-	-	-	-	-	-	-	-	-
2016	-	-	-	-	-	-	-	-	-	-	-	-
<b>Percentage change, latest quarter on previous quarter</b>												
<b>Current estimates<sup>3</sup></b>												
	L3BB	L3BG	L3BH	L3BN	L3DM	L3DQ	L3DW	L3E2	L3GP	KI8L	KI8N	KI8P
2014 Q4	2.6	0.3	1.4	0.3	-2.1	1.3	0.3	1.0	1.6	1.2	1.5	-0.1
2015 Q1	-3.1	0.4	1.8	-0.1	2.1	0.5	2.7	0.1	0.9	0.3	0.2	-0.5
Q2	1.0	0.6	8.1	-0.5	-2.5	4.0	0.6	0.5	0.9	0.9	0.2	0.5
Q3	0.5	0.1	1.7	-0.4	1.4	-	-0.9	0.5	0.8	0.5	0.5	0.2
Q4	0.3	-0.4	-2.3	0.1	-2.2	0.5	1.0	1.0	1.2	1.2	0.9	0.7
2016 Q1	-3.4	-0.3	-2.6	-0.3	0.4	2.5	1.2	0.7	1.8	0.4	0.4	0.5
Q2	-1.2	2.2	2.3	1.8	5.6	2.0	0.9	0.6	0.9	0.6	0.7	0.1
Q3	-	-0.4	4.5	-0.7	-4.3	-0.1	-0.3	0.9	1.1	2.6	0.7	0.3
Q4	1.0	0.4	-6.9	1.2	4.0	0.9	1.0	0.8	2.0	0.8	0.5	0.3
2017 Q1	0.1	0.1	1.5	0.3	-4.2	1.0	1.1	0.1	-0.6	-0.8	0.5	0.4
Q2	0.4	-0.3	0.4	-0.6	-0.2	0.1	-1.3	0.5	0.9	1.2	0.3	0.4
<b>Previous estimates<sup>2</sup></b>												
	A2CX	A2CY	A2DO	A2DL	A2DR	A2DS	A2DT	A2DU	A2DV	A2DW	A2DX	A2DY
2014 Q4	2.6	0.3	1.4	0.3	-2.1	1.3	0.3	1.0	1.6	1.2	1.5	-0.1
2015 Q1	-3.1	0.4	1.8	-0.1	2.1	0.5	2.7	0.1	0.9	0.3	0.2	-0.5
Q2	1.0	0.6	8.1	-0.5	-2.5	4.0	0.6	0.5	0.9	0.9	0.2	0.5
Q3	0.5	0.1	1.7	-0.4	1.4	-	-0.9	0.5	0.8	0.5	0.5	0.2
Q4	0.3	-0.4	-2.3	0.1	-2.2	0.5	1.0	1.0	1.2	1.2	0.9	0.7
2016 Q1	-3.4	-0.3	-2.6	-0.3	0.4	2.5	1.2	0.7	1.8	0.4	0.4	0.5
Q2	-1.2	2.2	2.3	1.8	5.6	2.0	0.9	0.6	0.9	0.6	0.7	0.1
Q3	-	-0.4	4.5	-0.7	-4.3	-0.1	-0.3	0.9	1.1	2.6	0.7	0.3
Q4	1.0	0.4	-6.9	1.2	4.0	0.9	1.0	0.8	2.0	0.8	0.5	0.3
2017 Q1	0.1	0.1	1.5	0.3	-4.2	1.0	1.1	0.1	-0.6	-0.8	0.5	0.4
Q2	0.6	-0.4	-0.9	-0.5	0.3	-0.4	-0.9	0.5	1.1	1.0	0.4	0.2
<b>Revisions</b>												
	ZZ4A	ZZ4B	ZZ4D	ZZ4C	ZZ4E	ZZ4F	ZZ4G	ZZ4H	ZZ4I	ZZ4J	ZZ4K	ZZ4L
2014 Q4	-	-	-	-	-	-	-	-	-	-	-	-
2015 Q1	-	-	-	-	-	-	-	-	-	-	-	-
Q2	-	-	-	-	-	-	-	-	-	-	-	-
Q3	-	-	-	-	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-	-	-	-	-
2016 Q1	-	-	-	-	-	-	-	-	-	-	-	-
Q2	-	-	-	-	-	-	-	-	-	-	-	-
Q3	-	-	-	-	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-	-	-	-	-
2017 Q1	-	-	-	-	-	-	-	-	-	-	-	-
Q2	-0.2	0.1	1.3	-0.1	-0.5	0.5	-0.4	-	-0.2	0.2	-0.1	0.2

1 Estimates are accurate to 1 decimal place

2 Previous estimate refers to estimates from the Preliminary Estimate of GDP

3 Current estimate refers to the estimates released within this publication (Second Estimate of GDP)

# 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 2013

	Agri- culture, forestry, and fishing	Total Production	Mining & quarrying inc oil & gas extract	Manu- facturing	Electric, gas, steam & air	Water supply, sewerage	Constr- uction	Total Services	Distri- bution, hotels & restaurants	Transport, storage and commu- nications	Business services and finance	Govern- ment & other services
<b>Percentage growths, latest quarter on corresponding quarter of previous year</b>												
<b>Current estimates<sup>3</sup></b>												
2014 Q4	L3ZZ 15.3	L426 1.3	L427 -0.3	L42D 2.8	L44C -3.8	L44G -2.5	L44M 7.1	L44Q 4.3	L47F 5.9	KII2 5.5	KIH9 4.9	KIH8 1.9
2015 Q1	3.2	1.2	1.6	1.1	3.8	-1.9	7.5	3.4	5.3	5.0	4.2	0.6
Q2	2.4	1.5	9.3	-0.1	0.6	5.1	6.2	2.7	4.5	4.1	3.1	0.3
Q3	0.8	1.3	13.4	-0.8	-1.2	5.8	2.7	2.1	4.2	2.9	2.4	0.1
Q4	-1.5	0.7	9.3	-0.9	-1.3	4.9	3.4	2.1	3.8	2.9	1.9	0.9
2016 Q1	-1.7	-	4.6	-1.1	-2.9	7.1	1.8	2.6	4.8	3.0	2.1	1.9
Q2	-3.8	1.6	-0.9	1.2	5.1	5.0	2.1	2.7	4.7	2.7	2.6	1.5
Q3	-4.3	1.2	1.8	0.9	-0.8	4.9	2.7	3.1	5.1	4.8	2.8	1.6
Q4	-3.7	1.9	-3.0	2.0	5.4	5.3	2.8	2.9	6.0	4.4	2.3	1.2
2017 Q1	-0.2	2.3	1.1	2.5	0.7	3.8	2.8	2.3	3.5	3.2	2.4	1.1
Q2	1.4	-0.3	-0.9	0.2	-4.8	2.0	0.4	2.3	3.5	3.9	1.9	1.4
<b>Previous estimates<sup>2</sup></b>												
2014 Q4	A2DZ 15.3	A2E2 1.3	A2E4 -0.3	A2E3 2.8	A2E5 -3.8	A2EE -2.5	A2EK 7.1	A2EL 4.3	A2EM 5.9	A2EN 5.5	A2EO 4.9	A2EP 1.9
2015 Q1	3.2	1.2	1.6	1.1	3.8	-1.9	7.5	3.4	5.3	5.0	4.2	0.6
Q2	2.4	1.5	9.3	-0.1	0.6	5.1	6.2	2.7	4.5	4.1	3.1	0.3
Q3	0.8	1.3	13.4	-0.8	-1.2	5.8	2.7	2.1	4.2	2.9	2.4	0.1
Q4	-1.5	0.7	9.3	-0.9	-1.3	4.9	3.4	2.1	3.8	2.9	1.9	0.9
2016 Q1	-1.7	-	4.6	-1.1	-2.9	7.1	1.8	2.6	4.8	3.0	2.1	1.9
Q2	-3.8	1.6	-0.9	1.2	5.1	5.0	2.1	2.7	4.7	2.7	2.6	1.5
Q3	-4.3	1.2	1.8	0.9	-0.8	4.9	2.7	3.1	5.1	4.8	2.8	1.6
Q4	-3.7	1.9	-3.0	2.0	5.4	5.3	2.8	2.9	6.0	4.4	2.3	1.2
2017 Q1	-0.2	2.3	1.1	2.5	0.7	3.8	2.8	2.3	3.5	3.2	2.4	1.1
Q2	1.7	-0.4	-2.1	0.3	-4.4	1.4	0.8	2.3	3.7	3.7	2.0	1.2
<b>Revisions</b>												
2014 Q4	ZZ4N -	ZZ4O -	ZZ4Q -	ZZ4P -	ZZ4R -	ZZ4S -	ZZ4T -	ZZ4U -	ZZ4V -	ZZ4W -	ZZ4X -	ZZ4Y -
2015 Q1	-	-	-	-	-	-	-	-	-	-	-	-
Q2	-	-	-	-	-	-	-	-	-	-	-	-
Q3	-	-	-	-	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-	-	-	-	-
2016 Q1	-	-	-	-	-	-	-	-	-	-	-	-
Q2	-	-	-	-	-	-	-	-	-	-	-	-
Q3	-	-	-	-	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-	-	-	-	-
2017 Q1	-	-	-	-	-	-	-	-	-	-	-	-
Q2	-0.3	0.1	1.2	-0.1	-0.4	0.6	-0.4	-	-0.2	0.2	-0.1	0.2

1 Estimates are accurate to 1 decimal place

2 Previous estimate refers to estimates from the Preliminary Estimate of GDP

3 Current estimate refers to the estimates released within this publication  
(Second Estimate of GDP)