

Statistical bulletin

# Second estimate of GDP: July to September 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.gsi.gov.uk  
+44(0)1633 651618

Release date:  
23 November 2017

Next release:  
22 February 2018

## Table of contents

1. [Main points](#)
2. [Things you need to know about this release](#)
3. [Growth for Quarter 3 \(July to Sept\) 2017 unrevised](#)
4. [Services drive growth in the output measure of GDP in Quarter 3 2017](#)
5. [Household spending strengthens, driving growth in expenditure](#)
6. [Compensation of employees leads growth in nominal 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 0.4% between Quarter 2 (Apr to June) and Quarter 3 (July to Sept) 2017, unrevised from the preliminary estimate of GDP.
- Services remained the strongest contributor to GDP growth in Quarter 3 2017, with the components of the output approach broadly unrevised from the preliminary estimate.
- The rate of growth in household final consumption expenditure strengthened to 0.6% between Quarter 2 and Quarter 3 2017, with car purchases recovering somewhat from a low Quarter 2.
- Business investment growth softened to 0.2% between Quarter 2 and Quarter 3 2017.
- GDP per head was estimated to have increased by 0.3% between Quarter 2 and Quarter 3 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 seven 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](#) (PDF, 317KB).

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

### Revisions

In line with [National Accounts Revisions Policy](#) the only time series open for revision in this release is Quarter 3 (July to Sept) 2017.

## 3 . Growth for Quarter 3 (July to Sept) 2017 unrevised

UK gross domestic product (GDP) increased by 0.4% between Quarter 2 (Apr to June) 2017 and Quarter 3 (July to Sept) 2017, a similar rate of growth to the previous two quarters. This is unrevised from the [preliminary estimate of GDP](#) published on 25 October 2017.

Table 1 shows GDP and the headline economic indicators from 2015 onwards.

**Table 1: Headline economic indicators and GDP per head for the UK, Quarter 1 (Jan to Mar) 2015 to Quarter 3 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	2.3	2.7	2.8	1.5	2.8	3.1
2016	1.8	2.9	1.3	1.0	3.8	4.0
Q1 2015	0.3	1.0	2.8	0.1	0.6	0.5
Q2 2015	0.6	0.7	1.4	0.4	1.6	0.8
Q3 2015	0.4	1.0	-3.1	0.2	0.0	0.7
Q4 2015	0.7	0.4	0.1	0.6	0.4	0.9
Q1 2016	0.2	0.8	0.6	-0.1	1.4	0.1
Q2 2016	0.5	0.9	1.9	0.3	1.3	2.3
Q3 2016	0.4	0.6	0.8	0.2	0.9	1.6
Q4 2016	0.6	0.4	0.4	0.4	1.2	0.6
Q1 2017	0.3	0.4	0.5	0.1	0.8	0.8
Q2 2017	0.3	0.2	0.6	0.1	0.7	1.0
Q3 2017	0.4	0.6	0.2	0.3	0.7	0.7

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 2 2017 and Quarter 3 2017 is the 19th consecutive quarterly increase and continues the UK's period of growth since Quarter 1 (Jan to Mar) 2013.

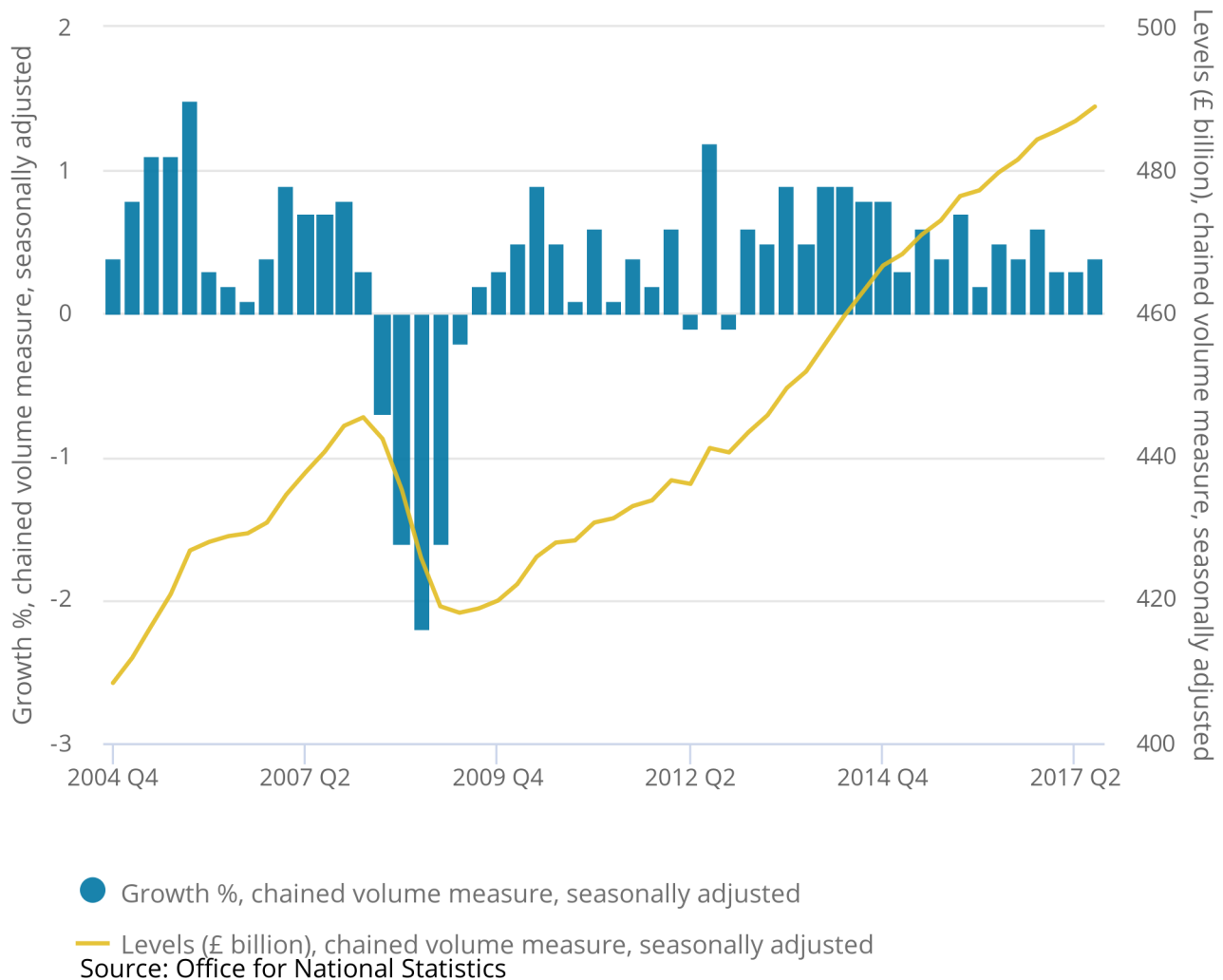
Growth in UK GDP is now 9.7% above the GDP pre-economic downturn peak in Quarter 1 2008, having surpassed it in Quarter 2 2013.

**Figure 1: Quarterly growth and levels of GDP for the UK, Table A2**

Quarter 4 (Oct to Dec) 2004 to Quarter 3 (July to Sept) 2017

Figure 1: Quarterly growth and levels of GDP for the UK, Table A2

Quarter 4 (Oct to Dec) 2004 to Quarter 3 (July to Sept) 2017



**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).

When looking at UK GDP growth in volume terms in the current quarter compared with the same quarter a year ago, GDP increased by 1.5% between Quarter 3 2016 and Quarter 3 2017.

## **Implied deflator**

The GDP implied deflator at market prices for Quarter 3 2017 is 1.9% above the same quarter of 2016. The GDP implied deflator is calculated by dividing current price (nominal) GDP by chained volume (real) GDP and multiplying by 100 to convert to an index. It is not used in the calculation of GDP; the deflators for expenditure components, which are the basis for the implied GDP deflator, are used directly in the compilation of real GDP.

## **GDP per head**

GDP per head is calculated by dividing GDP in chained volume measures by the 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 3 2017, GDP per head grew by 0.3% compared with Quarter 2 2017.

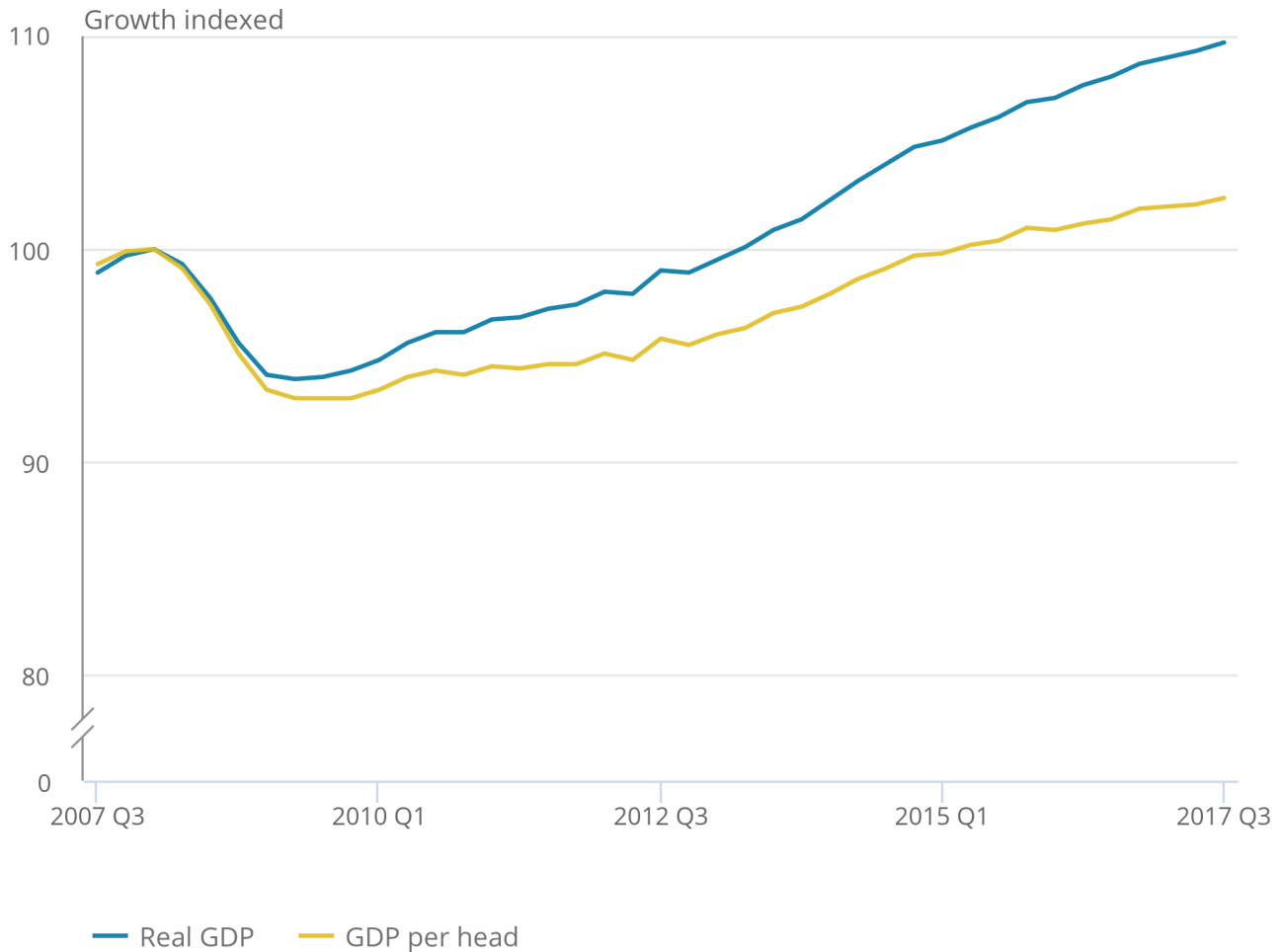
GDP per head is now 2.4% above the GDP pre-economic downturn peak in Quarter 1 2008, having surpassed it in Quarter 2 2015 (Figure 2).

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

Quarter 3 (July to Sept) 2007 to Quarter 3 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 3 (July to Sept) 2007 to Quarter 3 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 22 June 2017 and the [population projections](#) used are those published on 29 October 2015. The [population projections](#) published on 26 October 2017 will be included in the Quarterly National Accounts Quarter 3 2017 release to be published on 22 December 2017.

## 4 . Services drive growth in the output measure of GDP in Quarter 3 2017

The output approach to measuring gross domestic product (GDP) involves estimating production activity within the UK economy. It increased by 0.4% between Quarter 2 (Apr to June) 2017 and Quarter 3 (July to Sept) 2017 and was unrevised from the [preliminary estimate of GDP](#).

In Quarter 3 2017:

- agriculture increased by 0.2%
- production increased by 1.1%
- construction decreased by 0.9%
- services increased by 0.4%

### Services

The largest component within the output approach of GDP is the services industries, which drove the growth in the output measure of GDP in Quarter 3 2017. Services increased by 0.4%, unrevised from the [preliminary estimate of GDP](#). Positive growth was recorded within three out of four sub-sectors of the services industries between Quarter 2 2017 and Quarter 3 2017, with transport, storage and communications remaining flat with zero growth. The largest contribution to quarterly GDP growth was from business services and finance, which contributed 0.2 percentage points; within this industry group the largest contributor to growth was professional, scientific, administration and support, which includes employment activities, and accounting, bookkeeping and auditing activities.

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

### Production

Production output was estimated to have increased by 1.1% between Quarter 2 2017 and Quarter 3 2017, revised up by 0.1 percentage points from the [preliminary estimate of GDP](#). Within production, growth was broad-based with all four sub-sectors of the production industries seeing positive growth into Quarter 3 2017. Mining and quarrying including oil and gas extraction increased by 2.1%, whilst electricity, gas and steam and air conditioning, and manufacturing both increased by 1.1%. The fourth component of production, water supply industries, increased by 0.7%.

### Construction

Construction output was estimated to have decreased by 0.9% in the third quarter of 2017, which has been revised downwards from negative 0.7% in the [preliminary estimate of GDP](#). This is the second consecutive quarter with a decrease in growth after a sustained period of positive growth in all quarters since Quarter 4 (Oct to Dec) 2015. Further information relating to the most recent quarter can be found in the [Construction output in Great Britain statistical bulletin](#).

## Agriculture

Agriculture, the sector that makes up the smallest proportion of total output, increased by 0.2% into Quarter 3 2017, revised down by 0.8 percentage points from the [preliminary estimate of GDP](#). New data received for the period has driven this revision.

Figure 3 shows the contributions to growth from the sectors of output. The services industries contributed the largest to GDP growth, with 0.3 percentage points. Total production contributed 0.2 percentage points to GDP. These positive contributions were offset by a negative 0.1 percentage point contribution from the construction industry. Agriculture provided no contribution to GDP growth to one decimal place.

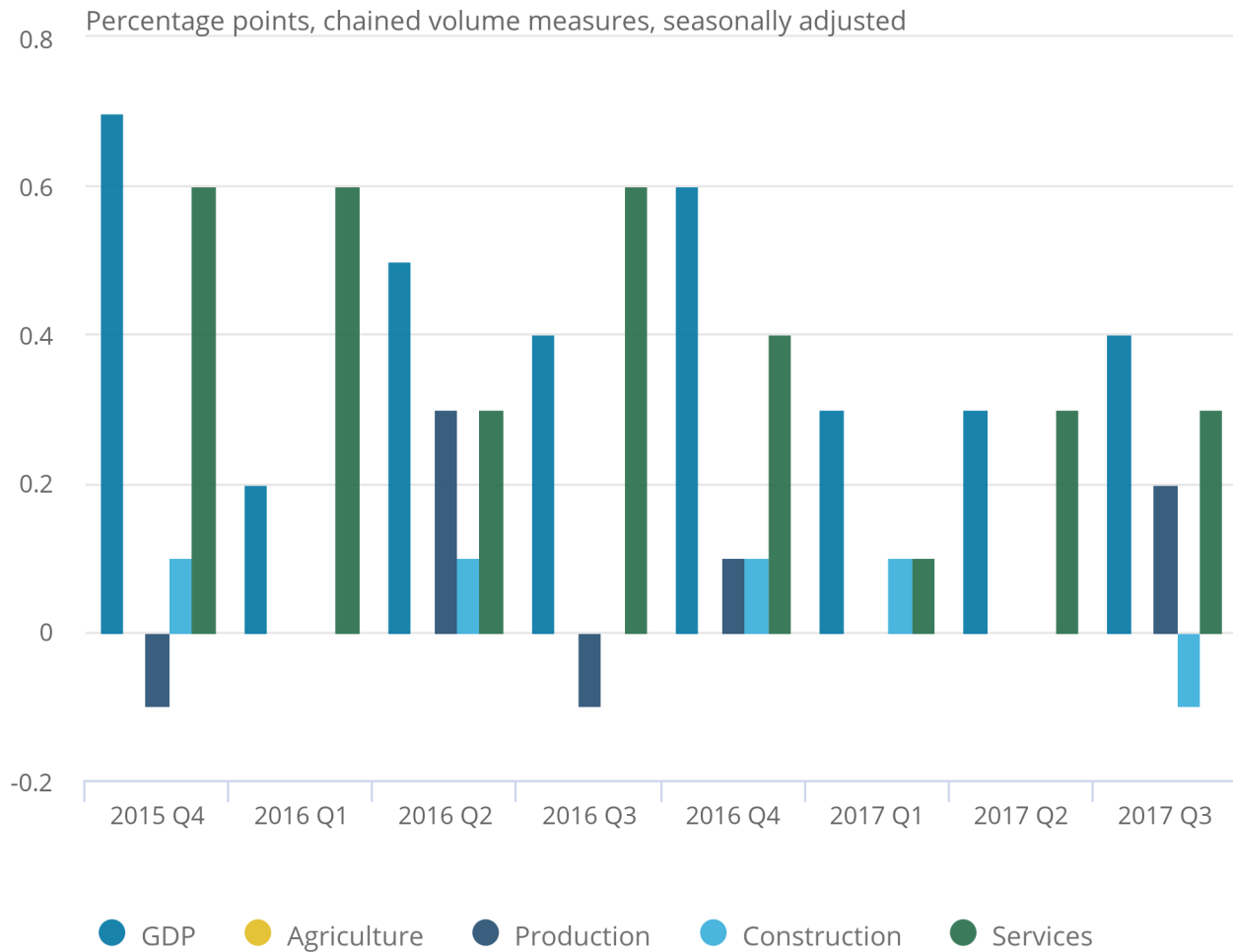


**Figure 3: Output components percentage contribution to UK GDP growth, quarter-on-quarter**

Quarter 4 (Oct to Dec) 2015 to Quarter 3 (July to Sept) 2017

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

Quarter 4 (Oct to Dec) 2015 to Quarter 3 (July to Sept) 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).

## 5 . Household spending strengthens, driving growth in expenditure

The expenditure approach to measuring gross domestic product (GDP) increased by 0.4% between Quarter 2 (Apr to June) 2017 and Quarter 3 (July to Sept) 2017. The expenditure approach is the sum of all final expenditures within the economy, that is, all expenditure on goods and services that are not used up or transformed in the production process.

### Household final consumption expenditure (HHFCE)

HHFCE, or household spending, grew by 0.6% between Quarter 2 2017 and Quarter 3 2017, recovering from a lower growth of 0.2% between Quarter 1 2017 and Quarter 2 2017.

The path of quarterly growth in household spending through the first three quarters of 2017 was in part driven by changes in the timing of car purchases in response to increases in Vehicle Excise Duty on high-polluting vehicles (which came into force in April 2017). These changes led to consumers bringing forward planned new car purchases, leading to a decline in Quarter 2 and since then we have seen a modest recovery to expenditure on transport (including motor cars) into Quarter 3.

### General government final consumption expenditure (GGFCE)

Government expenditure grew by 0.3% in volume terms, while current price expenditure decreased by 0.3% between Quarter 2 and Quarter 3 2017. The largest contributors to volume GDP growth are healthcare services and education services; healthcare also had the largest contribution to the corresponding decline in the current price measure.

### Gross fixed capital formation (GFCF)

In Quarter 3 2017, GFCF increased by 0.2% compared with Quarter 2 2017. Within the sectors of GFCF, business investment growth softened to 0.2% in Quarter 3 2017. When looking at the asset breakdown of GFCF, both dwellings and intellectual property products showed positive growth in Quarter 3 2017. All other assets were flat or decreased in this period.

Further details of the asset and sector breakdown can be found within the [Business investment release](#).

### Trade in goods and services

In Quarter 3 2017, the net trade deficit widened by £2,536 million to negative £11,737 million in volume terms, the largest widening since Quarter 3 2016, contributing negative 0.5 percentage points to GDP growth. Total trade exports decreased by 0.7% whilst total imports increased by 1.1%, between Quarter 2 and Quarter 3 2017.

The decrease in total exports was due to a decrease of 1.8% in goods exported, partially offset by 0.6% positive growth in services exported. The decrease in goods exported was driven by fuels, specifically oils and chemicals. The increase in services exported was driven by other business services.

The increase in total imports was due to an increase of 1.9% in goods imported, partially offset by a fall of 1.5% in services imported. The increase in goods imported was driven by non-monetary gold within the unspecified goods component, fuels, and machinery and transport equipment. The decrease in services imported was driven by other business services.

The trade data used within this release are consistent with the monthly [UK trade release](#) published on 10 November 2017 and are the latest monthly trade figures available.

Figure 4 shows the quarterly contribution of the expenditure components to the growth of GDP in chained volume measures from Quarter 4 (Oct to Dec) 2015 to Quarter 3 2017. In the latest quarter the largest contribution to growth was from gross capital formation (GCF), at 0.5 percentage points. This was driven by acquisitions less disposals of valuables, in particular the trade in non-monetary gold. However, this was offset by the negative contribution from net trade of 0.5 percentage points, which also includes non-monetary gold, therefore making this transaction GDP neutral. You can find out more about the impact of non-monetary gold in the article [A brief explanation of non-monetary gold in national accounts](#).

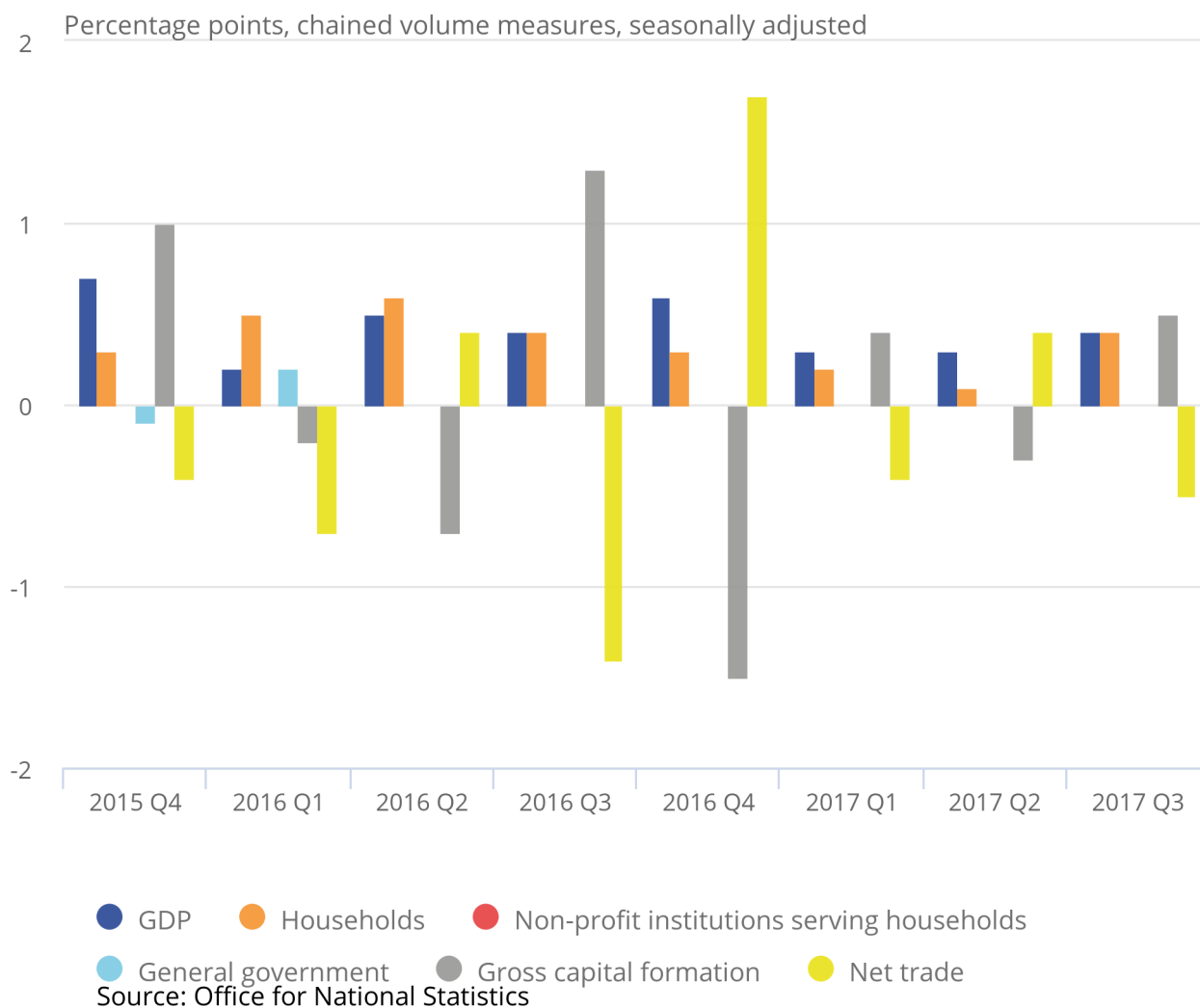
The only other positive contributor to GDP growth was household final consumption expenditure contributing 0.4 percentage points. The contribution of all other components of the expenditure approach was flat to one decimal place.

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

Quarter 4 (Oct to Dec) 2015 to Quarter 3 (July to Sept) 2017

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

Quarter 4 (Oct to Dec) 2015 to Quarter 3 (July to Sept) 2017



Source: Office for National Statistics

Notes:

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

## **6 . Compensation of employees leads growth in nominal measure of GDP**

Nominal gross domestic product (GDP) increased by 0.7% between Quarter 2 (Apr to June) 2017 and Quarter 3 (July to Sept) 2017.

The income approach measures income generated by production in the form of gross operating surplus (profits), compensation of employees (income from employment) and mixed income (self-employment income) for the whole economy.

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

Within the income measure of GDP, all four components increased between Quarter 2 2017 and Quarter 3 2017.

### **Compensation of employees (CoE)**

CoE, which includes wages and salaries, and employers' social contributions, showed positive growth of 0.7% (seasonally adjusted) into Quarter 3 2017. This was due to positive growth in both wages and salaries, and employers' social contributions.

### **Taxes on products and production less subsidies**

Taxes on products and production less subsidies showed an increase of 1.4% in Quarter 3 2017.

### **Other income**

There was also an increase in other income, of 0.2%. This category includes mixed income and the operating surplus of the non-corporate sector.

### **Gross operating surplus of corporations**

Gross operating surplus of corporations saw positive growth in Quarter 3 2017 of 0.6%. This includes the operating surplus of private corporations, private non-financial corporations and public corporations. This is in contrast to the previous quarter where this category of income experienced negative 0.2% growth in Quarter 2 2017.

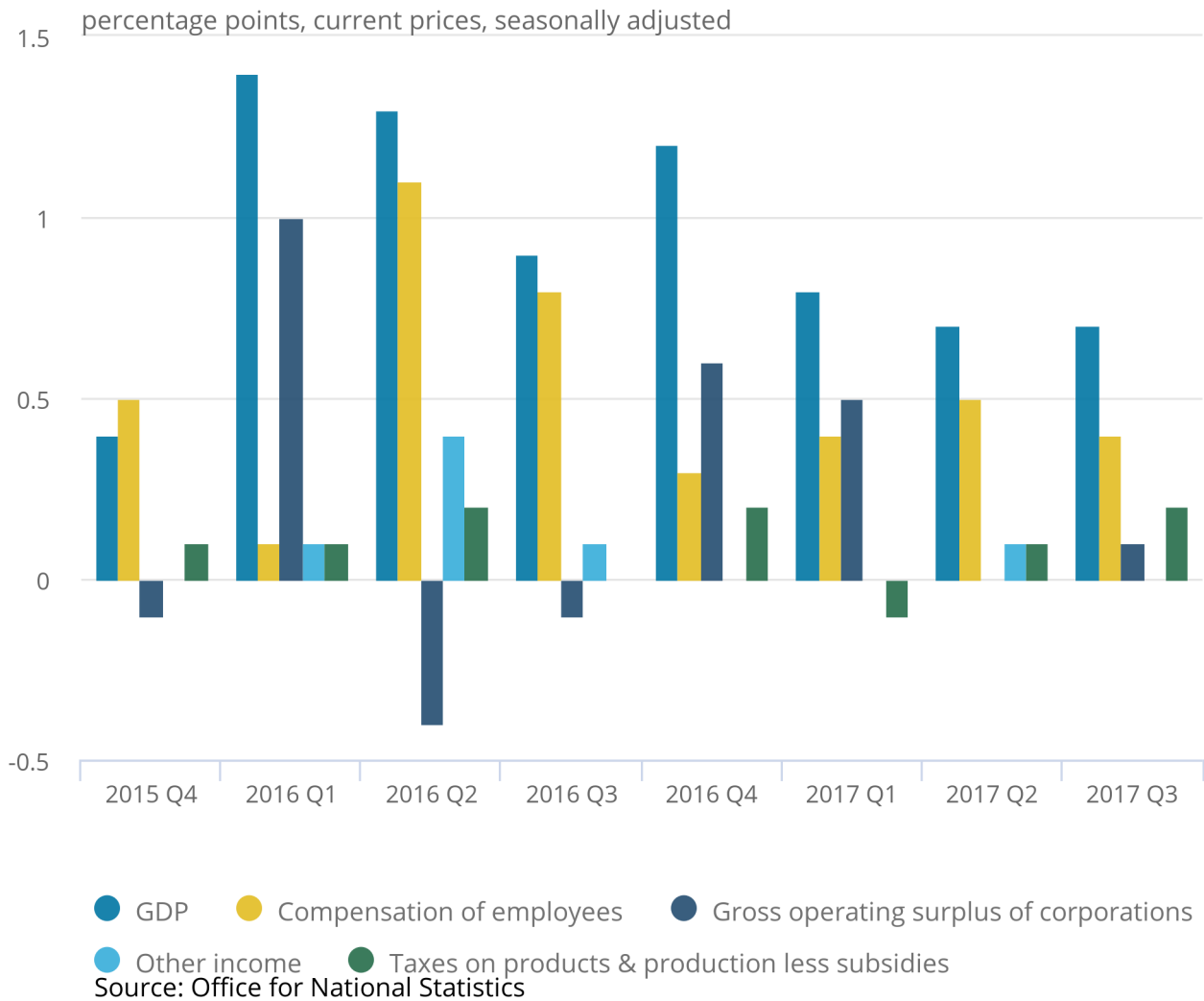
Figure 5 shows the contribution made by income components to current price GDP. CoE was the largest contributor to the income measure of GDP, contributing 0.4 percentage points to growth.

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

Quarter 4 (Oct to Dec) 2015 to Quarter 3 (July to Sept) 2017

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

Quarter 4 (Oct to Dec) 2015 to Quarter 3 (July to Sept) 2017



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).

## 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 at the time of preparation of this statistical bulletin and may subsequently have been revised.

All of the areas included within our international comparisons that have reported gross domestic product (GDP) saw positive growth in Quarter 3 (July to Sept) 2017, with growth rates within 0.5 percentage points of each other.

During Quarter 3 2017, Japan experienced the slowest growth of 0.3% among European and G7 countries, just below that of the UK and USA, whose GDP grew by 0.4% each. Growth in the UK economy was the lowest of these countries in both Quarter 1 (Jan to Mar) and Quarter 2 (Apr to June). In Quarter 3, the UK was the joint-second lowest within this table. In Quarter 3 2017, Germany experienced the highest growth at 0.8%. Both France and Italy experienced growth of 0.5% (Table 2).

The European Union (EU28) grew by 0.6%, marking 18 consecutive quarters of positive growth, and in the same period, the group of Euro Area countries (EA19) grew by 0.7%.

All G7 countries are currently above pre-economic downturn peaks except for Italy whose gross domestic product (GDP) remains 5.9% below the pre-downturn peak (Quarter 1 2008). Canada shows signs of the strongest recovery at 16.8% (based on Quarter 2 2017 figures), while the USA has the second strongest of 15.2%. The UK has the fourth strongest rate at 9.7%.

The data used for these international comparisons are gathered from the [Organisation for Economic Co-operation and Development's website](#) excluding the data from the UK, which is compiled within Office for National Statistics.

**Table 2: International GDP growth rate comparisons, chained volume measure, seasonally adjusted  
Quarter 1 (Jan to Mar) 2016 to Quarter 3 (July to Sept) 2017**

	% growth <sup>1</sup>									
	EU28 <sup>2</sup>	EA19 <sup>3</sup>	G7 <sup>4</sup>	France	Germany	Italy	UK	Canada <sup>7</sup>	Japan	USA
Q1 2016	0.4	0.5	0.3	0.6	0.6	0.3	0.2	0.7	0.5	0.1
Q2 2016	0.4	0.3	0.4	-0.1	0.5	0.1	0.5	-0.3	0.5	0.6
Q3 2016	0.4	0.4	0.5	0.1	0.3	0.2	0.4	1.0	0.2	0.7
Q4 2016	0.7	0.6	0.5	0.6	0.4	0.4	0.6	0.7	0.4	0.4
Q1 2017	0.6	0.6	0.4	0.5	0.9	0.5	0.3	0.9	0.3	0.3
Q2 2017	0.7	0.7	0.7	0.6	0.6	0.3	0.3	1.1	0.6	0.8
Q3 2017	0.6	0.7	0.6	0.5	0.8	0.5	0.4	..	0.3	0.4

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 the data are unavailable.

## 8 . Links to related statistics

### Release content

Data included within this release are seasonally adjusted.

### Economic context

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

### 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 23 November 2017.



## Index of Services

The [Index of Services publication](#) was published on 23 November 2017 and includes data for September 2017.

## 9 . Are there any upcoming changes?

### GDP release schedule consultation

We ran a consultation on proposed changes to the GDP release schedule and the introduction of monthly GDP estimates, which closed on 14 September 2017. We published our [response to the consultation on 19 October 2017](#).

### VAT project

The [latest VAT turnover research article](#) was published on 20 November 2017, which reviewed the methodological improvements and provides further detail on implementation plans for the use of VAT returns data in the compilation of Quarterly National Accounts July to September 2017 and the Index of Services October 2017 bulletins, which are both due for publication on 22 December 2017.

### Annual benchmarks

In the next quarterly national accounts release (22 December 2017) we will take on the 2016 annual benchmarks. These relate mostly to the components of GDP that include data from annual surveys such as the annual International Trade in Services (ITIS) survey and Financial Inquiries surveys. These updates will help to improve the quality of our estimates where we are able to replace forecast and short-term estimates with annual survey data.

## 10 . Quality and methodology

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

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

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

### Important quality issues

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

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

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

Many different approaches can be used to summarise revisions; the “Validation and quality assurance” section in the [Quality and Methodology Information report](#) analyses the mean average revision and the mean absolute revision for GDP estimates over data publication iterations. 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 datasets 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 3 2017 indicate that in this quarter the growth of expenditure and income are higher than the growth of output before the alignment adjustment is taken into account.

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

**Table 3: Balancing adjustments applied to the UK GDP, second estimate of GDP dataset for Quarter 3 (July to Sept) 2017**

GDP measurement approach and component adjustment applied to		Q3 2017
<b>Expenditure</b>		
Household final consumption expenditure	Current prices	-140
	Chained volume measure	-140
Change in inventories	Current price	600
	Chained volume measure	300
Trade in services (exports)	Chained volume measure	-300
<b>Income</b>		
Gross operating surplus	Current prices	-400

Source: Office for National Statistics

Notes:

1. Adjustments are in £ million.

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).

## 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>

2015 = 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	92.8	92.8	94.8	94.2	93.7	98.8	97.9	98.5
2014	97.3	97.3	97.7	97.6	97.3	99.9	99.5	99.7
2015	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2016	103.8	103.7	101.8	101.6	102.7	101.6	102.0	102.1
<b>Seasonally adjusted</b>								
2014 Q2	97.2	97.2	97.4	97.1	96.8	100.2	99.8	100.1
Q3	98.1	98.3	98.1	98.0	97.8	100.3	100.0	100.2
Q4	98.2	98.1	98.8	99.0	99.0	99.7	99.4	99.1
2015 Q1	98.8	98.9	99.2	99.3	99.3	99.6	99.6	99.6
Q2	100.3	100.4	99.8	99.9	99.9	100.7	100.5	100.5
Q3	100.3	100.2	100.2	100.1	100.1	100.3	100.1	100.2
Q4	100.6	100.5	100.9	100.8	100.8	99.4	99.8	99.8
2016 Q1	102.1	101.9	101.1	100.9	101.4	100.5	101.0	101.1
Q2	103.4	103.3	101.6	101.4	102.3	101.3	101.8	102.0
Q3	104.3	104.3	102.0	101.7	103.0	102.1	102.3	102.5
Q4	105.5	105.3	102.6	102.3	104.0	102.4	102.9	103.0
2017 Q1	106.4	106.3	102.8	102.6	104.2	102.9	103.5	103.7
Q2	107.2	107.2	103.1	102.9	104.5	103.3	103.9	104.3
Q3	107.9	107.8	103.5	103.3	104.9	103.6	104.2	104.3
<b>Percentage change, latest year on previous year</b>								
	IHYM	KGL6	IHYP	KGM7	L489	KH7D	IHYS	KGM4
2013	4.0	3.9	2.1	1.5	1.6	1.3	1.9	2.4
2014	4.8	4.7	3.1	3.5	3.9	1.2	1.7	1.2
2015	2.8	2.8	2.3	2.5	2.7	0.1	0.5	0.3
2016	3.8	3.7	1.8	1.6	2.7	1.6	2.0	2.1
<b>Percentage change, latest quarter on previous quarter</b>								
	IHYN	KGL8	IHYQ	KGM9		KH7E	IHYT	KGM5
2014 Q2	1.7	1.8	0.9	1.0	1.1	0.7	0.8	0.7
Q3	0.9	1.1	0.8	1.0	1.0	0.1	0.2	0.2
Q4	0.1	-0.1	0.8	1.0	1.2	-0.6	-0.6	-1.2
2015 Q1	0.6	0.8	0.3	0.3	0.3	-0.1	0.2	0.5
Q2	1.6	1.5	0.6	0.6	0.6	1.1	1.0	0.9
Q3	-	-0.1	0.4	0.2	0.3	-0.4	-0.4	-0.3
Q4	0.4	0.3	0.7	0.7	0.7	-0.8	-0.4	-0.4
2016 Q1	1.4	1.4	0.2	0.1	0.6	1.1	1.3	1.3
Q2	1.3	1.4	0.5	0.5	0.9	0.7	0.8	0.9
Q3	0.9	0.9	0.4	0.4	0.7	0.8	0.5	0.6
Q4	1.2	1.0	0.6	0.6	1.0	0.4	0.6	0.4
2017 Q1	0.8	0.9	0.3	0.3	0.2	0.5	0.6	0.7
Q2	0.7	0.8	0.3	0.3	0.3	0.4	0.4	0.5
Q3	0.7	0.5	0.4	0.4	0.4	0.3	0.3	0.1
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>								
	IHYO	KGM2	IHYR	KGN3	L48D	KH7F	IHYU	KGM6
2014 Q2	5.7	5.5	3.1	3.5	3.7	1.7	2.5	2.0
Q3	4.9	5.1	3.0	3.7	4.1	1.4	1.8	1.3
Q4	4.3	4.3	3.3	4.2	4.7	0.7	1.0	0.1
2015 Q1	3.3	3.6	2.7	3.3	3.7	0.1	0.6	0.3
Q2	3.2	3.3	2.5	2.9	3.1	0.5	0.7	0.4
Q3	2.3	2.0	2.1	2.1	2.3	-	0.1	-0.1
Q4	2.5	2.5	2.1	1.7	1.8	-0.2	0.4	0.7
2016 Q1	3.3	3.0	1.9	1.5	2.1	0.9	1.4	1.5
Q2	3.1	3.0	1.8	1.5	2.5	0.6	1.2	1.5
Q3	4.0	4.1	1.8	1.7	2.9	1.8	2.2	2.4
Q4	4.9	4.8	1.6	1.5	3.2	3.0	3.2	3.2
2017 Q1	4.3	4.3	1.8	1.7	2.7	2.4	2.5	2.6
Q2	3.7	3.8	1.5	1.5	2.1	2.0	2.1	2.3
Q3	3.4	3.3	1.5	1.5	1.8	1.5	1.9	1.8

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 2015)			
	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	1 752 554	188 124	1 564 430	1 790 750	203 243	1 588 004	1 574 151
2014	1 837 062	198 340	1 638 722	1 845 444	201 472	1 644 002	1 630 293
2015	1 888 737	203 800	1 684 937	1 888 737	203 800	1 684 937	1 669 628
2016	1 961 125	213 478	1 747 647	1 922 626	211 496	1 711 130	1 695 328
<b>Seasonally adjusted</b>							
2014 Q2	458 923	49 652	409 271	459 702	50 728	409 007	405 563
Q3	463 142	49 166	413 976	463 201	50 220	412 967	409 632
Q4	463 704	50 336	413 368	466 727	49 485	417 178	413 779
2015 Q1	466 329	49 737	416 592	468 326	49 929	418 359	414 746
Q2	473 601	50 891	422 710	471 018	50 301	420 702	416 784
Q3	473 571	51 445	422 126	472 980	51 520	421 478	417 732
Q4	475 236	51 727	423 509	476 413	52 050	424 398	420 366
2016 Q1	481 941	52 649	429 292	477 152	52 328	424 824	420 955
Q2	488 233	52 975	435 258	479 682	52 754	426 928	422 957
Q3	492 570	53 228	439 342	481 524	53 041	428 483	424 270
Q4	498 381	54 626	443 755	484 268	53 373	430 895	427 146
2017 Q1	502 472	54 560	447 912	485 509	53 511	431 998	428 121
Q2	506 097	54 385	451 712	486 914	53 632	433 282	429 395
Q3	509 449	55 504	453 945	488 907	53 832	435 075	431 075
<b>Percentage change, latest year on previous year</b>							
	IHYM		KGL6	IHYP		KGM7	KLH8
2013	4.0		3.9	2.1		1.5	1.5
2014	4.8		4.7	3.1		3.5	3.6
2015	2.8		2.8	2.3		2.5	2.4
2016	3.8		3.7	1.8		1.6	1.5
<b>Percentage change, latest quarter on previous quarter</b>							
	IHYN		KGL8	IHYQ		KGM9	
2014 Q2	1.7		1.8	0.9		1.0	1.1
Q3	0.9		1.1	0.8		1.0	1.0
Q4	0.1		-0.1	0.8		1.0	1.0
2015 Q1	0.6		0.8	0.3		0.3	0.2
Q2	1.6		1.5	0.6		0.6	0.5
Q3	-		-0.1	0.4		0.2	0.2
Q4	0.4		0.3	0.7		0.7	0.6
2016 Q1	1.4		1.4	0.2		0.1	0.1
Q2	1.3		1.4	0.5		0.5	0.5
Q3	0.9		0.9	0.4		0.4	0.3
Q4	1.2		1.0	0.6		0.6	0.7
2017 Q1	0.8		0.9	0.3		0.3	0.2
Q2	0.7		0.8	0.3		0.3	0.3
Q3	0.7		0.5	0.4		0.4	0.4
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>							
	IHYO		KGM2	IHYR		KGN3	KLH9
2014 Q2	5.7		5.5	3.1		3.5	3.4
Q3	4.9		5.1	3.0		3.7	3.9
Q4	4.3		4.3	3.3		4.2	4.3
2015 Q1	3.3		3.6	2.7		3.3	3.3
Q2	3.2		3.3	2.5		2.9	2.8
Q3	2.3		2.0	2.1		2.1	2.0
Q4	2.5		2.5	2.1		1.7	1.6
2016 Q1	3.3		3.0	1.9		1.5	1.5
Q2	3.1		3.0	1.8		1.5	1.5
Q3	4.0		4.1	1.8		1.7	1.6
Q4	4.9		4.8	1.6		1.5	1.6
2017 Q1	4.3		4.3	1.8		1.7	1.7
Q2	3.7		3.8	1.5		1.5	1.5
Q3	3.4		3.3	1.5		1.5	1.6

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>

2015 = 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	Constru-ction	Distri-bution, hotels & restaura-nts	Transport storage and commu-nications	Business services and finance	Govern-ment and other services	Total		
<b>2015 Weights<sup>3</sup></b>	7	12	101	17	10	140	61	137	104	329	222	793	1000	991
	L2KL	L2KR	L2KX	L2MW	L2N2	L2KQ	L2N8	L2PZ	KI8M	KI8O	KI8Q	L2NC	CGCE	KLH7
2013	88.0	91.9	97.2	105.1	96.1	97.3	87.9	91.2	93.6	94.1	96.7	94.3	94.2	94.3
2014	98.8	92.5	100.0	99.0	96.7	98.8	95.7	95.5	96.2	97.7	99.1	97.5	97.6	97.6
2015	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
2016	94.3	99.0	100.9	102.6	105.3	101.3	103.8	105.1	104.1	101.7	101.3	102.5	101.6	101.5
<b>Seasonally adjusted</b>														
2014 Q2	97.9	92.6	99.8	98.1	96.0	98.5	94.6	95.0	95.3	97.3	98.8	97.0	97.1	97.2
Q3	99.6	91.6	100.3	101.2	95.4	99.0	97.5	95.9	96.8	98.1	99.4	97.9	98.0	98.1
Q4	101.9	92.9	100.7	99.4	96.5	99.3	97.9	97.6	98.5	99.2	100.0	99.1	99.0	99.1
2015 Q1	100.0	93.9	100.6	101.8	97.0	99.7	99.4	98.6	98.6	99.4	99.6	99.2	99.3	99.4
Q2	100.7	102.2	100.0	99.6	100.9	100.3	100.1	99.6	99.7	99.7	100.0	99.8	99.9	99.9
Q3	100.3	103.6	99.6	100.2	100.8	100.2	99.7	100.2	100.6	100.2	99.8	100.1	100.1	100.1
Q4	99.0	100.3	99.8	98.5	101.3	99.8	100.8	101.5	101.1	100.7	100.6	100.9	100.8	100.7
2016 Q1	94.9	97.2	99.7	99.4	102.9	99.7	101.3	103.4	102.4	101.2	101.0	101.7	100.9	100.9
Q2	94.0	99.3	101.3	105.1	105.4	101.9	103.5	104.2	102.8	101.7	101.1	102.1	101.4	101.3
Q3	93.8	104.3	100.6	101.1	105.9	101.4	104.0	105.4	105.2	101.9	101.5	102.8	101.7	101.6
Q4	94.7	95.1	102.0	104.6	106.9	102.1	106.3	107.3	105.9	102.2	101.6	103.4	102.3	102.3
2017 Q1	94.4	97.9	102.6	100.3	109.0	102.3	108.3	106.4	105.0	102.8	102.0	103.5	102.6	102.6
Q2	94.3	98.5	102.3	100.0	107.9	102.1	107.7	107.4	106.3	102.9	102.2	103.9	102.9	102.9
Q3	94.5	100.6	103.4	101.1	108.7	103.2	106.7	107.7	106.2	103.6	102.4	104.3	103.3	103.3
<b>Percentage change, latest year on previous year</b>														
	L3BB	L3BH	L3BN	L3DM	L3DQ	L3BG	L3DW	L3GP	KI8L	KI8N	KI8P	L3E2	KGM7	KLH8
2013	0.5	-2.8	-1.0	-0.2	4.2	-0.7	1.5	3.4	1.7	2.4	0.4	1.9	1.5	1.5
2014	12.2	0.6	2.9	-5.8	0.6	1.5	9.0	4.7	2.7	3.8	2.4	3.4	3.5	3.6
2015	1.2	8.1	-	1.0	3.4	1.2	4.4	4.7	4.0	2.4	0.9	2.6	2.5	2.4
2016	-5.7	-1.0	0.9	2.6	5.3	1.3	3.8	5.1	4.1	1.7	1.3	2.5	1.6	1.5
<b>Percentage change, latest quarter on previous quarter</b>														
													KGM9	
2014 Q2	2.2	-0.1	0.6	0.7	-2.9	0.2	1.9	1.5	1.4	1.2	0.7	1.1	1.0	1.1
Q3	1.7	-1.0	0.5	3.2	-0.6	0.5	3.0	1.0	1.6	0.9	0.6	0.9	1.0	1.0
Q4	2.3	1.4	0.4	-1.8	1.2	0.3	0.4	1.8	1.8	1.1	0.6	1.2	1.0	1.0
2015 Q1	-1.8	1.0	-0.1	2.4	0.5	0.3	1.6	1.0	0.1	0.2	-0.4	0.1	0.3	0.2
Q2	0.6	8.8	-0.6	-2.2	4.0	0.6	0.7	1.0	1.1	0.4	0.4	0.6	0.6	0.5
Q3	-0.3	1.4	-0.4	0.7	-	-	-0.4	0.6	0.9	0.4	-0.1	0.4	0.2	0.2
Q4	-1.3	-3.1	0.1	-1.8	0.5	-0.4	1.2	1.3	0.5	0.6	0.8	0.7	0.7	0.6
2016 Q1	-4.1	-3.1	-	1.0	1.6	-0.1	0.5	1.9	1.3	0.4	0.4	0.8	0.1	0.1
Q2	-1.0	2.2	1.6	5.7	2.4	2.2	2.1	0.8	0.3	0.5	0.1	0.4	0.5	0.5
Q3	-0.2	5.0	-0.7	-3.8	0.5	-0.5	0.5	1.1	2.4	0.2	0.4	0.7	0.4	0.3
Q4	1.0	-8.8	1.3	3.4	1.0	0.7	2.2	1.9	0.7	0.3	0.1	0.6	0.6	0.7
2017 Q1	-0.3	2.9	0.6	-4.1	2.0	0.3	1.9	-0.8	-0.8	0.6	0.4	0.1	0.3	0.2
Q2	-0.1	0.6	-0.3	-0.3	-1.0	-0.3	-0.5	0.9	1.2	0.1	0.3	0.4	0.3	0.3
Q3	0.2	2.1	1.1	1.1	0.7	1.1	-0.9	0.3	-	0.6	0.2	0.4	0.4	0.4
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>														
	L3ZZ	L427	L42D	L44C	L44G	L426	L44M	L47F	KI12	KI19	KI18	L44Q	KGN3	KLH9
2014 Q2	12.3	1.5	2.9	-8.6	1.8	1.5	9.3	4.4	1.8	3.8	2.5	3.3	3.5	3.4
Q3	12.2	-2.2	3.0	-	-3.3	1.4	9.4	4.3	4.0	3.8	3.0	3.7	3.7	3.9
Q4	13.6	-0.4	2.9	-3.4	-2.5	1.3	8.4	5.9	5.5	4.5	2.9	4.4	4.2	4.3
2015 Q1	4.4	1.3	1.4	4.4	-1.9	1.4	7.0	5.4	5.0	3.4	1.4	3.4	3.3	3.3
Q2	2.8	10.4	0.2	1.5	5.1	1.8	5.7	4.9	4.7	2.6	1.2	2.9	2.9	2.8
Q3	0.7	13.1	-0.7	-1.0	5.7	1.2	2.2	4.5	3.9	2.1	0.5	2.3	2.1	2.0
Q4	-2.8	7.9	-0.9	-0.9	5.0	0.5	3.0	4.0	2.6	1.5	0.6	1.8	1.7	1.6
2016 Q1	-5.1	3.6	-0.8	-2.3	6.2	-	2.0	4.8	3.8	1.8	1.5	2.5	1.5	1.5
Q2	-6.7	-2.8	1.3	5.5	4.5	1.6	3.4	4.6	3.1	1.9	1.1	2.3	1.5	1.5
Q3	-6.5	0.7	1.0	0.9	5.0	1.2	4.3	5.1	4.6	1.7	1.7	2.7	1.7	1.6
Q4	-4.4	-5.2	2.2	6.2	5.5	2.3	5.4	5.7	4.8	1.5	1.0	2.5	1.5	1.6
2017 Q1	-0.6	0.7	2.8	0.9	5.9	2.6	6.9	2.9	2.6	1.7	1.0	1.8	1.7	1.7
Q2	0.4	-0.9	0.9	-4.8	2.4	0.2	4.1	3.1	3.4	1.3	1.1	1.8	1.5	1.5
Q3	0.8	-3.6	2.7	-	2.6	1.8	2.6	2.2	1.0	1.6	0.9	1.4	1.5	1.6

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>

2015 = 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>2015 Weights<sup>3</sup></b>	108	104	29	68	139	122	47	61	74	41	793
	L2NE	KI8M	L2NQ	L2O6	L2OC	L2OH	L2P8	L2PA	L2PC	L2Q5	L2NC
2013	90.9	93.6	92.5	104.5	94.4	88.1	103.4	96.5	95.3	92.1	94.3
2014	95.6	96.2	95.2	103.2	97.3	94.9	101.8	98.3	98.7	97.9	97.5
2015	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2016	105.0	104.1	105.2	99.9	100.3	104.3	98.6	100.0	102.9	103.7	102.5
<b>Seasonally adjusted</b>											
2014 Q2	95.0	95.3	94.7	103.6	97.0	93.9	101.8	98.2	98.0	97.9	97.0
Q3	96.0	96.8	95.5	102.9	97.8	95.7	101.8	98.7	99.1	98.0	97.9
Q4	97.8	98.5	97.2	103.4	98.1	98.0	101.8	99.0	100.0	99.2	99.1
2015 Q1	98.6	98.6	98.8	102.5	98.9	98.1	101.0	99.5	98.9	99.2	99.2
Q2	99.7	99.7	99.3	99.7	100.0	99.5	100.4	100.0	100.0	99.5	99.8
Q3	100.3	100.6	99.8	98.4	100.6	100.8	99.4	100.2	100.4	98.7	100.1
Q4	101.4	101.1	102.0	99.4	100.6	101.6	99.2	100.3	100.7	102.6	100.9
2016 Q1	103.5	102.4	102.9	99.7	100.9	102.2	98.9	100.3	102.4	102.1	101.7
Q2	104.2	102.8	104.2	99.6	100.5	104.1	98.4	99.5	102.7	103.7	102.1
Q3	105.3	105.2	105.6	100.6	100.0	104.7	98.5	99.9	103.2	104.7	102.8
Q4	107.1	105.9	108.1	99.9	99.8	106.2	98.5	100.4	103.3	104.1	103.4
2017 Q1	105.8	105.0	108.6	100.9	100.2	106.9	98.5	101.1	103.9	104.0	103.5
Q2	106.7	106.3	109.9	101.1	100.4	106.9	98.4	101.4	104.3	104.3	103.9
Q3	107.3	106.2	109.2	101.3	100.6	108.2	98.4	101.9	104.7	104.0	104.3
<b>Percentage change, latest year on previous year</b>											
	L3E4	KI8L	L3EG	L3EU	L3F2	L3F7	L3FW	L3FY	L3G2	L3GT	L3E2
2013	4.9	1.7	-2.6	-2.2	2.3	5.4	-2.2	0.8	2.5	-1.0	1.9
2014	5.2	2.7	2.9	-1.2	3.1	7.7	-1.6	1.8	3.6	6.3	3.4
2015	4.6	4.0	5.1	-3.1	2.8	5.4	-1.8	1.8	1.3	2.2	2.6
2016	5.0	4.1	5.2	-0.1	0.3	4.3	-1.4	-	2.9	3.7	2.5
<b>Percentage change, latest quarter on previous quarter</b>											
2014 Q2	1.5	1.4	1.4	0.6	0.8	2.0	-0.2	1.1	0.4	1.4	1.1
Q3	1.0	1.6	0.9	-0.7	0.7	2.0	-	0.5	1.2	0.1	0.9
Q4	1.8	1.8	1.8	0.5	0.3	2.3	-	0.3	0.9	1.3	1.2
2015 Q1	0.8	0.1	1.7	-0.9	0.8	0.1	-0.8	0.5	-1.1	-	0.1
Q2	1.1	1.1	0.5	-2.7	1.1	1.5	-0.6	0.5	1.1	0.3	0.6
Q3	0.6	0.9	0.6	-1.4	0.6	1.2	-1.0	0.2	0.5	-0.7	0.4
Q4	1.0	0.5	2.2	1.1	-	0.9	-0.2	0.1	0.2	3.9	0.7
2016 Q1	2.1	1.3	0.9	0.3	0.4	0.6	-0.3	-	1.7	-0.5	0.8
Q2	0.6	0.3	1.2	-0.1	-0.4	1.8	-0.5	-0.7	0.3	1.6	0.4
Q3	1.1	2.4	1.3	1.0	-0.4	0.6	0.1	0.3	0.5	0.9	0.7
Q4	1.7	0.7	2.4	-0.7	-0.2	1.4	-	0.5	0.1	-0.6	0.6
2017 Q1	-1.2	-0.8	0.5	1.0	0.4	0.6	-	0.7	0.5	-	0.1
Q2	0.8	1.2	1.2	0.2	0.1	-	-0.1	0.3	0.4	0.3	0.4
Q3	0.5	-	-0.6	0.2	0.2	1.2	-	0.4	0.4	-0.3	0.4
<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 Q2	5.1	1.8	2.2	-1.1	3.1	7.8	-1.8	1.9	3.4	7.0	3.3
Q3	4.6	4.0	3.3	-0.8	3.0	7.5	-1.3	2.7	4.2	7.1	3.7
Q4	6.1	5.5	5.3	0.3	3.0	8.7	-0.8	2.3	3.9	6.5	4.4
2015 Q1	5.3	5.0	5.9	-0.5	2.7	6.6	-0.9	2.5	1.3	2.8	3.4
Q2	4.9	4.7	4.9	-3.7	3.0	6.0	-1.3	1.9	2.0	1.6	2.9
Q3	4.5	3.9	4.6	-4.4	2.9	5.2	-2.3	1.5	1.3	0.8	2.3
Q4	3.7	2.6	5.0	-3.9	2.6	3.7	-2.6	1.2	0.6	3.4	1.8
2016 Q1	5.0	3.8	4.2	-2.7	2.1	4.2	-2.0	0.8	3.5	3.0	2.5
Q2	4.4	3.1	5.0	-0.1	0.5	4.6	-2.0	-0.5	2.7	4.3	2.3
Q3	5.0	4.6	5.7	2.2	-0.5	3.9	-0.9	-0.3	2.7	6.0	2.7
Q4	5.7	4.8	5.9	0.5	-0.8	4.5	-0.7	0.1	2.6	1.4	2.5
2017 Q1	2.2	2.6	5.5	1.2	-0.7	4.5	-0.4	0.8	1.4	1.9	1.8
Q2	2.4	3.4	5.4	1.5	-0.1	2.7	-0.1	1.9	1.6	0.6	1.8
Q3	1.9	1.0	3.4	0.8	0.5	3.3	-0.1	2.0	1.5	-0.6	1.4

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

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

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

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

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

£ million

## National expenditure on goods and services at market prices

	Final consumption expenditure			Gross capital formation							Total exports	Gross final expenditure	less imports	Trade balance <sup>6</sup>	Statistical discrepancy (expenditure)	Gross domestic product at market prices
	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	less						
	ABJQ	HAYE	NMRP	NPQS	NPEK	CAEX	DMUN	NPJQ	YBIL	IKBH	ABMF	IKBI	IKBJ	GIXM	YBHA	
2013	1 098 735	54 428	348 076	277 209	161 409	4 712	–	4 761	787 921	519 913	2 307 834	555 280	–35 367	–	1 752 554	
2014	1 143 919	56 625	359 014	300 965	170 551	13 268	–	102	873 893	518 925	2 392 818	555 756	–36 831	–	1 837 062	
2015	1 181 868	56 614	362 062	313 189	179 697	7 812	–	–438	921 107	517 161	2 438 268	549 531	–32 370	–	1 888 737	
2016	1 233 323	57 005	369 967	322 430	181 949	7 937	–	2 310	992 972	547 473	2 540 445	590 486	–43 013	11 166	1 961 125	
<b>Seasonally adjusted</b>																
2014 Q2	284 105	14 170	89 194	74 925	43 112	4 036	–934	–1 565	464 865	131 518	596 383	137 460	–5 942	–	458 923	
Q3	289 277	14 226	90 695	75 588	42 673	3 833	970	–638	472 981	128 283	601 264	138 122	–9 839	–	463 142	
Q4	288 777	14 205	89 828	76 013	42 916	2 497	1 844	2 024	473 344	132 103	605 447	141 743	–9 640	–	463 704	
2015 Q1	291 252	14 151	89 873	78 977	45 755	–466	1 461	2 615	476 402	129 619	606 021	139 692	–10 073	–	466 329	
Q2	293 798	14 110	90 743	79 276	45 461	1 775	–955	–281	479 421	130 724	610 145	136 544	–5 820	–	473 601	
Q3	296 915	14 133	91 264	77 229	44 064	2 795	–1 386	–539	481 797	127 267	609 064	135 493	–8 226	–	473 571	
Q4	299 903	14 220	90 182	77 707	44 417	3 708	880	–2 233	483 487	129 551	613 038	137 802	–8 251	–	475 236	
2016 Q1	302 840	14 242	91 733	78 660	44 897	2 579	1 095	778	490 832	128 363	619 195	138 926	–10 563	1 672	481 941	
Q2	306 960	14 288	92 437	80 433	45 214	828	–1 149	–798	494 148	134 856	629 004	143 344	–8 488	2 573	488 233	
Q3	309 674	14 228	92 564	81 611	46 000	4 114	1 161	3 759	505 950	136 762	642 712	153 396	–16 634	3 254	492 570	
Q4	313 849	14 247	93 233	81 726	45 838	416	–1 107	–1 429	502 042	147 492	649 534	154 820	–7 328	3 667	498 381	
2017 Q1	317 305	14 294	93 520	82 557	46 749	507	–1 431	–252	507 931	149 381	657 312	158 285	–8 904	3 445	502 472	
Q2	318 852	14 387	94 057	83 509	47 093	–904	–2 631	–732	509 169	152 641	661 810	159 148	–6 507	3 435	506 097	
Q3	322 208	14 440	93 806	83 794	47 653	466	–1 338	596	515 310	152 542	667 852	161 755	–9 213	3 352	509 449	
<b>Percentage change, latest year on previous year</b>																
	KG7	KGZ8	KH2C	KG6O	KG6N			KGX3	KH2O	KG7	KH3H				IHYM	
2013	4.3	1.4	0.7	5.5	4.6			4.0	3.8	4.0	3.9				4.0	
2014	4.1	4.0	3.1	8.6	5.7			4.8	–0.2	3.7	0.1				4.8	
2015	3.3	–	0.8	4.1	5.4			2.5	–0.3	1.9	–1.1				2.8	
2016	4.4	0.7	2.2	3.0	1.3			3.7	5.9	4.2	7.5				3.8	
<b>Percentage change, latest quarter on previous quarter</b>																
	KG8	KGZ9	KH2D	KG6W	KG6V			KGX4	KH2P	KG8	KH3I				IHYN	
2014 Q2	0.8	1.0	–0.1	0.7	3.0			0.5	3.5	1.1	–0.7				1.7	
Q3	1.8	0.4	1.7	0.9	–1.0			1.7	–2.5	0.8	0.5				0.9	
Q4	–0.2	–0.1	–1.0	0.6	0.6			0.1	3.0	0.7	2.6				0.1	
2015 Q1	0.9	–0.4	0.1	3.9	6.6			0.6	–1.9	0.1	–1.4				0.6	
Q2	0.9	–0.3	1.0	0.4	–0.6			0.6	0.9	0.7	–2.3				1.6	
Q3	1.1	0.2	0.6	–2.6	–3.1			0.5	–2.6	–0.2	–0.8				–	
Q4	1.0	0.6	–1.2	0.6	0.8			0.4	1.8	0.7	1.7				0.4	
2016 Q1	1.0	0.2	1.7	1.2	1.1			1.5	–0.9	1.0	0.8				1.4	
Q2	1.4	0.3	0.8	2.3	0.7			0.7	5.1	1.6	3.2				1.3	
Q3	0.9	–0.4	0.1	1.5	1.7			2.4	1.4	2.2	7.0				0.9	
Q4	1.3	0.1	0.7	0.1	–0.4			–0.8	7.8	1.1	0.9				1.2	
2017 Q1	1.1	0.3	0.3	1.0	2.0			1.2	1.3	1.2	2.2				0.8	
Q2	0.5	0.7	0.6	1.2	0.7			0.2	2.2	0.7	0.5				0.7	
Q3	1.1	0.4	–0.3	0.3	1.2			1.2	–0.1	0.9	1.6				0.7	
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>																
	KG9	KH22	KH2E	KG76	KG75			KGX5	KH2Q	KG9	KH3J				IHYO	
2014 Q2	4.2	4.9	1.7	11.1	11.4			5.1	–0.8	3.8	–2.1				5.7	
Q3	4.6	4.2	5.1	5.8	2.3			4.9	–1.8	3.4	–1.2				4.9	
Q4	3.8	2.6	1.6	5.2	3.3			3.3	4.2	3.5	0.8				4.3	
2015 Q1	3.4	0.9	0.6	6.1	9.3			3.0	2.0	2.8	0.9				3.3	
Q2	3.4	–0.4	1.7	5.8	5.4			3.1	–0.6	2.3	–0.7				3.2	
Q3	2.6	–0.7	0.6	2.2	3.3			1.9	–0.8	1.3	–1.9				2.3	
Q4	3.9	0.1	0.4	2.2	3.5			2.1	–1.9	1.3	–2.8				2.5	
2016 Q1	4.0	0.6	2.1	–0.4	–1.9			3.0	–1.0	2.2	–0.5				3.3	
Q2	4.5	1.3	1.9	1.5	–0.5			3.1	3.2	3.1	5.0				3.1	
Q3	4.3	0.7	1.4	5.7	4.4			5.0	7.5	5.5	13.2				4.0	
Q4	4.7	0.2	3.4	5.2	3.2			3.8	13.8	6.0	12.3				4.9	
2017 Q1	4.8	0.4	1.9	5.0	4.1			3.5	16.4	6.2	13.9				4.3	
Q2	3.9	0.7	1.8	3.8	4.2			3.0	13.2	5.2	11.0				3.7	
Q3	4.0	1.5	1.3	2.7	3.6			1.8	11.5	3.9	5.4				3.4	

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

2 Non-profit institutions serving households.

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

4 Quarterly alignment adjustment included in this series.

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

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



# C2 Gross domestic product by category of expenditure: chained volume measures<sup>1</sup>

Reference year 2015, £ million

## National expenditure on goods and services at market prices

	Final consumption expenditure					Gross capital formation					Gross final expenditure	less imports	Trade balance <sup>6</sup>	Statistical discrepancy (expenditure)	Gross domestic product at market prices	
	Households	Non-profit institutions <sup>2</sup>	General government	Gross fixed capital formation	Of which business investment <sup>3</sup>	Change in inventories <sup>4</sup>	Of which alignment adjustment	Acquisitions less disposals of valuables <sup>5</sup>	Total exports	Total						
	ABJR	HAYO	NMRY	NPQT	NPEL	CAFU	DMUM	NPJR	YBIM	IKBK	ABMG	IKBL	IKBM	GIXS	ABMI	
2013	1 126 255	56 218	351 066	284 562	164 847	2 028	–	960 1	810 045	479 919	2 289 799	500 450	–20 531	–	1 790 750	
2014	1 150 513	57 081	359 884	304 735	173 239	5 548	–	–24 1	875 361	492 660	2 367 507	522 796	–30 136	–	1 845 444	
2015	1 181 868	56 614	362 062	313 189	179 697	7 812	–	–438 1	921 107	517 161	2 438 268	549 531	–32 370	–	1 888 737	
2016	1 216 008	56 970	365 867	317 386	178 951	3 473	–	2 194 1	961 898	522 736	2 484 634	572 935	–50 199	10 927	1 922 626	
<b>Seasonally adjusted</b>																
2014 Q2	286 168	14 258	90 168	76 107	43 943	–437	–933	–310	463 873	123 818	587 716	128 351	–4 533	–	459 702	
Q3	289 930	14 250	90 476	76 974	43 697	3 149	972	–147	471 638	122 146	593 513	130 568	–8 422	–	463 201	
Q4	289 219	14 204	90 046	76 544	43 356	6 987	1 857	358	474 877	127 463	602 390	135 583	–8 120	–	466 727	
2015 Q1	292 140	14 124	90 011	78 709	45 624	9 385	1 465	449	478 308	127 450	605 754	137 349	–9 899	–	468 326	
Q2	294 126	14 217	90 592	79 802	45 685	–4 126	–954	–145	476 053	129 988	606 145	135 244	–5 256	–	471 018	
Q3	297 203	14 047	90 892	77 293	44 175	–1 205	–1 389	–199	480 564	128 669	609 192	136 303	–7 634	–	472 980	
Q4	298 399	14 226	90 567	77 385	44 213	3 758	878	–543	486 182	131 054	617 177	140 635	–9 581	–	476 413	
2016 Q1	300 693	14 255	91 489	77 821	44 151	3 234	1 080	702	488 194	127 861	616 055	140 558	–12 697	1 655	477 152	
Q2	303 532	14 319	91 411	79 315	44 540	77	–1 133	–820	487 834	131 017	618 851	141 697	–10 680	2 528	479 682	
Q3	305 258	14 195	91 396	79 967	45 163	1 215	1 131	3 729	495 760	128 470	624 230	145 887	–17 417	3 181	481 524	
Q4	306 525	14 201	91 571	80 283	45 097	–1 053	–1 078	–1 417	490 110	135 388	625 498	144 793	–9 405	3 563	484 268	
2017 Q1	307 605	14 241	91 780	80 715	45 437	–642	–1 383	–258	493 441	135 033	628 474	146 294	–11 261	3 329	485 509	
Q2	308 283	14 297	91 890	81 183	45 661	–2 110	–2 531	–733	492 810	137 378	630 188	146 579	–9 201	3 305	486 914	
Q3	310 274	14 321	92 127	81 375	45 761	–1 244	–1 284	574	497 427	136 382	633 809	148 119	–11 737	3 217	488 907	
<b>Percentage change, latest year on previous year</b>																
	KGZ5	KH26	KH2I	KG7N	KG7M			KGX9	KH2U	KGW5	KH3N				IHYP	
2013	1.9	–1.5	0.2	3.4	3.0			2.7	0.8	2.3	3.1				2.1	
2014	2.2	1.5	2.5	7.1	5.1			3.6	2.7	3.4	4.5				3.1	
2015	2.7	–0.8	0.6	2.8	3.7			2.4	5.0	3.0	5.1				2.3	
2016	2.9	0.6	1.1	1.3	–0.4			2.1	1.1	1.9	4.3				1.8	
<b>Percentage change, latest quarter on previous quarter</b>																
	KGZ6	KH27	KH2J	KG7Q	KG7P			KGY2	KH2V	KGW6	KH3O				IHYQ	
2014 Q2	0.3	–0.8	1.1	1.3	4.0			–0.2	3.8	0.7	–				0.9	
Q3	1.3	–0.1	0.3	1.1	–0.6			1.7	–1.4	1.0	1.7				0.8	
Q4	–0.2	–0.3	–0.5	–0.6	–0.8			0.7	4.4	1.5	3.8				0.8	
2015 Q1	1.0	–0.6	–	2.8	5.2			–0.7	–	0.6	1.3				0.3	
Q2	0.7	0.7	0.6	1.4	0.1			0.5	2.0	0.1	–1.5				0.6	
Q3	1.0	–1.2	0.3	–3.1	–3.3			0.9	–1.0	0.5	0.8				0.4	
Q4	0.4	1.3	–0.4	0.1	0.1			1.2	1.9	1.3	3.2				0.7	
2016 Q1	0.8	0.2	1.0	0.6	–0.1			0.4	–2.4	–0.2	–0.1				0.2	
Q2	0.9	0.4	–0.1	1.9	0.9			–0.1	2.5	0.5	0.8				0.5	
Q3	0.6	–0.9	–	0.8	1.4			1.6	–1.9	0.9	3.0				0.4	
Q4	0.4	–	0.2	0.4	–0.1			–1.1	5.4	0.2	–0.7				0.6	
2017 Q1	0.4	0.3	0.2	0.5	0.8			0.7	–0.3	0.5	1.0				0.3	
Q2	0.2	0.4	0.1	0.6	0.5			–0.1	1.7	0.3	0.2				0.3	
Q3	0.6	0.2	0.3	0.2	0.2			0.9	–0.7	0.6	1.1				0.4	
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>																
	KGZ7	KH28	KH2K	KG7T	KG7S			KGY3	KH2W	KGW7	KH3P				IHYR	
2014 Q2	2.1	2.5	2.9	8.3	9.7			3.4	0.9	2.8	1.9				3.1	
Q3	2.7	1.2	3.0	5.2	3.0			3.5	2.0	3.1	3.5				3.0	
Q4	2.0	0.1	1.7	4.1	2.8			2.6	7.7	3.7	5.1				3.3	
2015 Q1	2.4	–1.7	0.9	4.8	8.0			2.9	6.9	3.7	7.1				2.7	
Q2	2.8	–0.3	0.5	4.9	4.0			2.6	5.0	3.1	5.4				2.5	
Q3	2.5	–1.4	0.5	0.4	1.1			1.9	5.3	2.6	4.4				2.1	
Q4	3.2	0.2	0.6	1.1	2.0			2.4	2.8	2.5	3.7				2.1	
2016 Q1	2.9	0.9	1.6	–1.1	–3.2			2.1	0.3	1.7	2.3				1.9	
Q2	3.2	0.7	0.9	–0.6	–2.5			2.5	0.8	2.1	4.8				1.8	
Q3	2.7	1.1	0.6	3.5	2.2			3.2	–0.2	2.5	7.0				1.8	
Q4	2.7	–0.2	1.1	3.7	2.0			0.8	3.3	1.3	3.0				1.6	
2017 Q1	2.3	–0.1	0.3	3.7	2.9			1.1	5.6	2.0	4.1				1.8	
Q2	1.6	–0.2	0.5	2.4	2.5			1.0	4.9	1.8	3.4				1.5	
Q3	1.6	0.9	0.8	1.8	1.3			0.3	6.2	1.5	1.5				1.5	

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

2 Non-profit institutions serving households.

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

4 Quarterly alignment adjustment included in this series.

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

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

# 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	883 501	369 903	–	286 062	1 539 466	213 088	–	1 752 554
2014	902 294	405 471	–	305 616	1 613 381	223 681	–	1 837 062
2015	930 206	406 641	–	322 024	1 658 871	229 866	–	1 888 737
2016	967 754	416 781	–	334 608	1 719 143	239 532	2 450	1 961 125
<b>Seasonally adjusted</b>								
2014 Q2	223 823	102 177	–509	76 832	402 832	56 091	–	458 923
Q3	225 825	104 884	962	76 782	407 491	55 651	–	463 142
Q4	228 675	100 844	–354	77 474	406 993	56 711	–	463 704
2015 Q1	229 827	102 153	–751	78 552	410 532	55 797	–	466 329
Q2	231 757	104 191	1 933	80 076	416 024	57 577	–	473 601
Q3	233 301	100 348	801	81 795	415 444	58 127	–	473 571
Q4	235 321	99 949	–1 983	81 601	416 871	58 365	–	475 236
2016 Q1	235 597	104 947	1 733	82 117	422 661	58 912	368	481 941
Q2	240 949	103 192	–1 612	83 825	427 966	59 705	562	488 233
Q3	244 887	102 888	–2 020	84 233	432 008	59 860	702	492 570
Q4	246 321	105 754	1 899	84 433	436 508	61 055	818	498 381
2017 Q1	248 271	108 217	620	84 593	441 081	60 396	995	502 472
Q2	250 858	108 045	–342	85 146	444 049	61 135	913	506 097
Q3	252 605	108 691	–505	85 286	446 582	62 011	856	509 449
<b>Percentage change, latest year on previous year</b>								
	KGI3	KH4V		KH6T	KH6N	KH65		IHYM
2013	4.0	3.9		3.5	3.9	4.9		4.0
2014	2.1	9.6		6.8	4.8	5.0		4.8
2015	3.1	0.3		5.4	2.8	2.8		2.8
2016	4.0	2.5		3.9	3.6	4.2		3.8
<b>Percentage change, latest quarter on previous quarter</b>								
	KGI4	KH4W		KH6U	KH6O	KH66		IHYN
2014 Q2	–0.1	4.7		3.1	1.7	1.6		1.7
Q3	0.9	2.6		–0.1	1.2	–0.8		0.9
Q4	1.3	–3.9		0.9	–0.1	1.9		0.1
2015 Q1	0.5	1.3		1.4	0.9	–1.6		0.6
Q2	0.8	2.0		1.9	1.3	3.2		1.6
Q3	0.7	–3.7		2.1	–0.1	1.0		–
Q4	0.9	–0.4		–0.2	0.3	0.4		0.4
2016 Q1	0.1	5.0		0.6	1.4	0.9		1.4
Q2	2.3	–1.7		2.1	1.3	1.3		1.3
Q3	1.6	–0.3		0.5	0.9	0.3		0.9
Q4	0.6	2.8		0.2	1.0	2.0		1.2
2017 Q1	0.8	2.3		0.2	1.0	–1.1		0.8
Q2	1.0	–0.2		0.7	0.7	1.2		0.7
Q3	0.7	0.6		0.2	0.6	1.4		0.7
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>								
	KGI5	KH4X		KH6V	KH6P	KH67		IHYO
2014 Q2	0.7	16.4		7.3	5.6	6.3		5.7
Q3	1.7	12.1		6.8	5.2	2.6		4.9
Q4	2.2	7.4		6.8	4.3	4.1		4.3
2015 Q1	2.6	4.7		5.4	3.7	1.0		3.3
Q2	3.5	2.0		4.2	3.3	2.6		3.2
Q3	3.3	–4.3		6.5	2.0	4.4		2.3
Q4	2.9	–0.9		5.3	2.4	2.9		2.5
2016 Q1	2.5	2.7		4.5	3.0	5.6		3.3
Q2	4.0	–1.0		4.7	2.9	3.7		3.1
Q3	5.0	2.5		3.0	4.0	3.0		4.0
Q4	4.7	5.8		3.5	4.7	4.6		4.9
2017 Q1	5.4	3.1		3.0	4.4	2.5		4.3
Q2	4.1	4.7		1.6	3.8	2.4		3.7
Q3	3.2	5.6		1.3	3.4	3.6		3.4

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	302 169	217 744	519 913	421 952	133 328	555 280	-119 783	84 416	-35 367
2014	297 306	221 619	518 925	420 428	135 328	555 756	-123 122	86 291	-36 831
2015	288 770	228 391	517 161	407 396	142 135	549 531	-118 626	86 256	-32 370
2016	302 067	245 406	547 473	437 458	153 028	590 486	-135 391	92 378	-43 013
<b>Seasonally adjusted</b>									
2014 Q2	74 832	56 686	131 518	104 176	33 284	137 460	-29 344	23 402	-5 942
Q3	73 058	55 225	128 283	104 580	33 542	138 122	-31 522	21 683	-9 839
Q4	74 583	57 520	132 103	108 429	33 314	141 743	-33 846	24 206	-9 640
2015 Q1	72 159	57 460	129 619	105 371	34 321	139 692	-33 212	23 139	-10 073
Q2	74 490	56 234	130 724	101 312	35 232	136 544	-26 822	21 002	-5 820
Q3	71 012	56 255	127 267	99 802	35 691	135 493	-28 790	20 564	-8 226
Q4	71 109	58 442	129 551	100 911	36 891	137 802	-29 802	21 551	-8 251
2016 Q1	69 969	58 394	128 363	102 005	36 921	138 926	-32 036	21 473	-10 563
Q2	74 898	59 958	134 856	105 593	37 751	143 344	-30 695	22 207	-8 488
Q3	74 943	61 819	136 762	114 560	38 836	153 396	-39 617	22 983	-16 634
Q4	82 257	65 235	147 492	115 300	39 520	154 820	-33 043	25 715	-7 328
2017 Q1	83 533	65 848	149 381	117 565	40 720	158 285	-34 032	25 128	-8 904
Q2	86 412	66 229	152 641	118 136	41 012	159 148	-31 724	25 217	-6 507
Q3	85 626	66 916	152 542	121 354	40 401	161 755	-35 728	26 515	-9 213
<b>Percentage change, latest year on previous year</b>									
	KG9K	KH35	KH2O	KG9L	KH3W	KH3H			
2013	0.2	9.2	3.8	2.8	7.4	3.9			
2014	-1.6	1.8	-0.2	-0.4	1.5	0.1			
2015	-2.9	3.1	-0.3	-3.1	5.0	-1.1			
2016	4.6	7.4	5.9	7.4	7.7	7.5			
<b>Percentage change, latest quarter on previous quarter</b>									
	KG9O	KH36	KH2P	KG9P	KH3X	KH3I			
2014 Q2	-	8.6	3.5	0.9	-5.4	-0.7			
Q3	-2.4	-2.6	-2.5	0.4	0.8	0.5			
Q4	2.1	4.2	3.0	3.7	-0.7	2.6			
2015 Q1	-3.3	-0.1	-1.9	-2.8	3.0	-1.4			
Q2	3.2	-2.1	0.9	-3.9	2.7	-2.3			
Q3	-4.7	-	-2.6	-1.5	1.3	-0.8			
Q4	0.1	3.9	1.8	1.1	3.4	1.7			
2016 Q1	-1.6	-0.1	-0.9	1.1	0.1	0.8			
Q2	7.0	2.7	5.1	3.5	2.2	3.2			
Q3	0.1	3.1	1.4	8.5	2.9	7.0			
Q4	9.8	5.5	7.8	0.6	1.8	0.9			
2017 Q1	1.6	0.9	1.3	2.0	3.0	2.2			
Q2	3.4	0.6	2.2	0.5	0.7	0.5			
Q3	-0.9	1.0	-0.1	2.7	-1.5	1.6			
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>									
	KG9S	KH37	KH2Q	KG9T	KH3Y	KH3J			
2014 Q2	-3.8	3.5	-0.8	-2.0	-2.5	-2.1			
Q3	-4.5	1.9	-1.8	-1.5	-0.4	-1.2			
Q4	2.2	6.9	4.2	1.9	-2.5	0.8			
2015 Q1	-3.6	10.1	2.0	2.1	-2.5	0.9			
Q2	-0.5	-0.8	-0.6	-2.7	5.9	-0.7			
Q3	-2.8	1.9	-0.8	-4.6	6.4	-1.9			
Q4	-4.7	1.6	-1.9	-6.9	10.7	-2.8			
2016 Q1	-3.0	1.6	-1.0	-3.2	7.6	-0.5			
Q2	0.5	6.6	3.2	4.2	7.1	5.0			
Q3	5.5	9.9	7.5	14.8	8.8	13.2			
Q4	15.7	11.6	13.8	14.3	7.1	12.3			
2017 Q1	19.4	12.8	16.4	15.3	10.3	13.9			
Q2	15.4	10.5	13.2	11.9	8.6	11.0			
Q3	14.3	8.2	11.5	5.9	4.0	5.4			

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

# H2 Exports and imports of goods and services

## Chained volume measures

Reference year 2015, £ million

	Exports			Imports			Balance
	Goods	Services	Total	Goods	Services	Total	Total <sup>1</sup>
	BQKQ	IKBE	IKBK	BQKO	IKBF	IKBL	IKBM
2013	264 112	216 214	479 919	375 286	125 011	500 450	-20 531
2014	272 872	219 969	492 660	391 959	130 680	522 796	-30 136
2015	288 770	228 391	517 161	407 396	142 135	549 531	-32 370
2016	286 237	236 499	522 736	426 168	146 767	572 935	-50 199
<b>Seasonally adjusted</b>							
2014 Q2	67 771	56 170	123 818	96 267	31 947	128 351	-4 533
Q3	67 171	55 102	122 146	97 965	32 556	130 568	-8 422
Q4	70 689	56 888	127 463	103 271	32 334	135 583	-8 120
2015 Q1	70 165	57 476	127 450	103 267	33 970	137 349	-9 899
Q2	73 304	56 722	129 988	99 613	35 693	135 244	-5 256
Q3	72 077	56 566	128 669	100 835	35 517	136 303	-7 634
Q4	73 224	57 627	131 054	103 681	36 955	140 635	-9 581
2016 Q1	70 505	57 352	127 861	103 496	37 062	140 558	-12 697
Q2	72 678	58 339	131 017	104 593	37 104	141 697	-10 680
Q3	69 116	59 356	128 470	109 710	36 177	145 887	-17 417
Q4	73 938	61 452	135 388	108 369	36 424	144 793	-9 405
2017 Q1	75 062	59 972	135 033	109 446	36 848	146 294	-11 261
Q2	78 094	59 285	137 378	109 890	36 689	146 579	-9 201
Q3	76 716	59 666	136 382	111 996	36 123	148 119	-11 737
<b>Percentage change, latest year on previous year</b>							
	KG9X	KH3B	KH2U	KG9W	KH44	KH3N	
2013	-1.0	3.7	0.8	2.7	4.8	3.1	
2014	3.3	1.7	2.7	4.4	4.5	4.5	
2015	5.8	3.8	5.0	3.9	8.8	5.1	
2016	-0.9	3.6	1.1	4.6	3.3	4.3	
<b>Percentage change, latest quarter on previous quarter</b>							
	KGA2	KH3C	KH2V	KG9Z	KH45	KH3O	
2014 Q2	0.8	8.4	3.8	1.9	-5.6	-	
Q3	-0.9	-1.9	-1.4	1.8	1.9	1.7	
Q4	5.2	3.2	4.4	5.4	-0.7	3.8	
2015 Q1	-0.7	1.0	-	-	5.1	1.3	
Q2	4.5	-1.3	2.0	-3.5	5.1	-1.5	
Q3	-1.7	-0.3	-1.0	1.2	-0.5	0.8	
Q4	1.6	1.9	1.9	2.8	4.0	3.2	
2016 Q1	-3.7	-0.5	-2.4	-0.2	0.3	-0.1	
Q2	3.1	1.7	2.5	1.1	0.1	0.8	
Q3	-4.9	1.7	-1.9	4.9	-2.5	3.0	
Q4	7.0	3.5	5.4	-1.2	0.7	-0.7	
2017 Q1	1.5	-2.4	-0.3	1.0	1.2	1.0	
Q2	4.0	-1.1	1.7	0.4	-0.4	0.2	
Q3	-1.8	0.6	-0.7	1.9	-1.5	1.1	
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>							
	KGA5	KH3D	KH2W	KGA4	KH46	KH3P	
2014 Q2	-0.2	2.5	0.9	2.3	0.2	1.9	
Q3	1.3	3.2	2.0	3.7	3.1	3.5	
Q4	8.9	6.1	7.7	6.8	0.3	5.1	
2015 Q1	4.3	10.9	6.9	9.3	0.4	7.1	
Q2	8.2	1.0	5.0	3.5	11.7	5.4	
Q3	7.3	2.7	5.3	2.9	9.1	4.4	
Q4	3.6	1.3	2.8	0.4	14.3	3.7	
2016 Q1	0.5	-0.2	0.3	0.2	9.1	2.3	
Q2	-0.9	2.9	0.8	5.0	4.0	4.8	
Q3	-4.1	4.9	-0.2	8.8	1.9	7.0	
Q4	1.0	6.6	3.3	4.5	-1.4	3.0	
2017 Q1	6.5	4.6	5.6	5.7	-0.6	4.1	
Q2	7.5	1.6	4.9	5.1	-1.1	3.4	
Q3	11.0	0.5	6.2	2.1	-0.1	1.5	

<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 (2015 = 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	1 588 004	1 564 430	1 564 430	–	92.8	92.8	94.2	94.2	94.2
2014	1 644 002	1 638 722	1 638 722	–	97.3	97.3	97.6	97.6	97.6
2015	1 684 937	1 684 937	1 684 937	–	100.0	100.0	100.0	100.0	100.0
2016	1 700 203	1 736 481	1 745 197	–8 716	103.1	103.6	100.9	101.4	102.3
<b>Seasonally adjusted</b>									
2014 Q2	409 007	409 271	409 271	–	97.2	97.2	97.1	97.1	97.1
Q3	412 967	413 976	413 976	–	98.3	98.3	98.0	98.0	98.0
Q4	417 178	413 368	413 368	–	98.1	98.1	99.0	99.0	99.0
2015 Q1	418 359	416 592	416 592	–	98.9	98.9	99.3	99.3	99.3
Q2	420 702	422 710	422 710	–	100.4	100.4	99.9	99.9	99.9
Q3	421 478	422 126	422 126	–	100.2	100.2	100.1	100.1	100.1
Q4	424 398	423 509	423 509	–	100.5	100.5	100.8	100.7	100.7
2016 Q1	423 169	427 620	428 924	–1 304	101.5	101.8	100.5	100.8	101.3
Q2	424 400	432 685	434 696	–2 011	102.7	103.2	100.8	101.2	102.1
Q3	425 302	436 088	438 640	–2 552	103.5	104.1	101.0	101.6	102.6
Q4	427 332	440 088	442 937	–2 849	104.5	105.2	101.4	102.1	103.3
2017 Q1	428 669	444 467	446 917	–2 450	105.5	106.1	101.8	102.3	103.6
Q2	429 977	448 277	450 799	–2 522	106.4	107.0	102.1	102.7	103.8
Q3	431 858	450 593	453 089	–2 496	107.0	107.6	102.5	103.1	104.2
<b>Percentage change, latest year on previous year</b>									
	KH4D	KH47	KH68		KH47	KH68	KH4D	KH6E	GDPQ
2013	1.5	3.9	3.9		3.9	3.9	1.5	1.5	1.5
2014	3.5	4.7	4.7		4.7	4.7	3.5	3.5	3.5
2015	2.5	2.8	2.8		2.8	2.8	2.5	2.5	2.5
2016	0.9	3.1	3.6		3.1	3.6	0.9	1.4	2.3
<b>Percentage change, latest quarter on previous quarter</b>									
	KH4F	KH49	KH6A		KH49	KH6A	KH4F	KH6G	
2014 Q2	1.0	1.8	1.8		1.8	1.8	1.0	1.0	1.0
Q3	1.0	1.1	1.1		1.1	1.1	1.0	1.0	1.0
Q4	1.0	–0.1	–0.1		–0.1	–0.1	1.0	1.0	1.0
2015 Q1	0.3	0.8	0.8		0.8	0.8	0.3	0.3	0.3
Q2	0.6	1.5	1.5		1.5	1.5	0.6	0.6	0.6
Q3	0.2	–0.1	–0.1		–0.1	–0.1	0.2	0.2	0.2
Q4	0.7	0.3	0.3		0.3	0.3	0.7	0.7	0.7
2016 Q1	–0.3	1.0	1.3		1.0	1.3	–0.3	–	0.6
Q2	0.3	1.2	1.3		1.2	1.3	0.3	0.5	0.7
Q3	0.2	0.8	0.9		0.8	0.9	0.2	0.3	0.5
Q4	0.5	0.9	1.0		0.9	1.0	0.5	0.5	0.7
2017 Q1	0.3	1.0	0.9		1.0	0.9	0.3	0.2	0.2
Q2	0.3	0.9	0.9		0.9	0.9	0.3	0.3	0.3
Q3	0.4	0.5	0.5		0.5	0.5	0.4	0.4	0.4
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>									
	KH4H	KH4B	KH6C		KH4B	KH6C	KH4H	KH6I	GDPR
2014 Q2	3.5	5.5	5.5		5.5	5.5	3.5	3.5	3.5
Q3	3.7	5.1	5.1		5.1	5.1	3.7	3.7	3.7
Q4	4.2	4.3	4.3		4.3	4.3	4.2	4.2	4.2
2015 Q1	3.3	3.6	3.6		3.6	3.6	3.3	3.3	3.3
Q2	2.9	3.3	3.3		3.3	3.3	2.9	2.9	2.9
Q3	2.1	2.0	2.0		2.0	2.0	2.1	2.1	2.1
Q4	1.7	2.5	2.5		2.5	2.5	1.7	1.7	1.7
2016 Q1	1.1	2.6	3.0		2.6	3.0	1.1	1.5	2.0
Q2	0.9	2.4	2.8		2.4	2.8	0.9	1.3	2.2
Q3	0.9	3.3	3.9		3.3	3.9	0.9	1.5	2.6
Q4	0.7	3.9	4.6		3.9	4.6	0.7	1.3	2.6
2017 Q1	1.3	3.9	4.2		3.9	4.2	1.3	1.5	2.2
Q2	1.3	3.6	3.7		3.6	3.7	1.3	1.4	1.7
Q3	1.5	3.3	3.3		3.3	3.3	1.5	1.5	1.6

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.

# M Alignment adjustments

£ million

	Changes in inventories		Gross operating surplus of non-financial corporations at current prices
	At current prices	Chained volume measures (Reference year 2015)	
<b>Seasonally adjusted</b>			
2014 Q2	DMUN -934	DMUM -933	DMUQ -509
Q3	970	972	962
Q4	1 844	1 857	-354
2015 Q1	1 461	1 465	-751
Q2	-955	-954	1 933
Q3	-1 386	-1 389	801
Q4	880	878	-1 983
2016 Q1	1 095	1 080	1 733
Q2	-1 149	-1 133	-1 612
Q3	1 161	1 131	-2 020
Q4	-1 107	-1 078	1 899
2017 Q1	-1 431	-1 383	620
Q2	-2 631	-2 531	-342
Q3	-1 338	-1 284	-505

# N Selected financial year variables 1,2

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

	Current prices					Chained Volume Measures (reference year 2015)				
	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	1 771 886	1 773 683	1 580 231	351 727	48 570	1 803 153	1 598 610	353 242	50 652	95.7517
2014/15	1 852 098	1 849 131	1 653 207	359 590	50 763	1 857 956	1 657 511	360 701	51 147	97.1397
2015/16	1 904 349	1 902 142	1 697 637	363 922	48 931	1 897 563	1 691 402	363 540	49 126	97.7941
2016/17	1 981 656	1 981 282	1 766 267	371 754	52 446	1 930 983	1 718 304	366 158	51 710	100.0000
<b>Seasonally adjusted</b>										
2014 Q2	458 923	453 481	409 271	89 194	12 017	459 702	409 007	90 168	12 341	97.2806
Q3	463 142	458 640	413 976	90 695	12 719	463 201	412 967	90 476	12 921	97.4333
Q4	463 704	468 248	413 368	89 828	12 984	466 727	417 178	90 046	12 998	96.8146
2015 Q1	466 329	468 762	416 592	89 873	13 043	468 326	418 359	90 011	12 887	97.0302
Q2	473 601	467 433	422 710	90 743	12 928	471 018	420 702	90 592	13 159	97.9801
Q3	473 571	470 754	422 126	91 264	12 342	472 980	421 478	90 892	12 339	97.5675
Q4	475 236	481 788	423 509	90 182	11 975	476 413	424 398	90 567	11 902	97.2050
2016 Q1	481 941	482 167	429 292	91 733	11 686	477 152	424 824	91 489	11 726	98.4238
Q2	488 233	484 457	435 258	92 437	13 181	479 682	426 928	91 411	12 970	99.1829
Q3	492 570	491 362	439 342	92 564	13 683	481 524	428 483	91 396	13 268	99.6811
Q4	498 381	503 144	443 755	93 233	13 213	484 268	430 895	91 571	13 056	100.2856
2017 Q1	502 472	502 319	447 912	93 520	12 369	485 509	431 998	91 780	12 416	100.8504
Q2	506 097	502 316	451 712	94 057	13 399	486 914	433 282	91 890	13 178	101.2848
Q3	509 449	505 558	453 945	93 806	12 917	488 907	435 075	92 127	13 169	101.5401
<b>Percentage change, latest financial year on previous financial year</b>										
2013/14	4.1	4.3	3.9	2.3	8.8	2.4	1.8	1.3	7.3	1.7
2014/15	4.5	4.3	4.6	2.2	4.5	3.0	3.7	2.1	1.0	1.4
2015/16	2.8	2.9	2.7	1.2	-3.6	2.1	2.0	0.8	-4.0	0.7
2016/17	4.1	4.2	4.0	2.2	7.2	1.8	1.6	0.7	5.3	2.3
<b>Percentage change, latest quarter on previous quarter</b>										
	IHYN	A8L9	KGL8	KH2D	KH7P	IHYQ	KGM9	KH2J	KH9C	L8GH
2014 Q2	1.7	-0.7	1.8	-0.1	-9.2	0.9	1.0	1.1	-8.5	0.8
Q3	0.9	1.1	1.1	1.7	5.8	0.8	1.0	0.3	4.7	0.2
Q4	0.1	2.1	-0.1	-1.0	2.1	0.8	1.0	-0.5	0.6	-0.6
2015 Q1	0.6	0.1	0.8	0.1	0.5	0.3	0.3	-	-0.9	0.2
Q2	1.6	-0.3	1.5	1.0	-0.9	0.6	0.6	0.6	2.1	1.0
Q3	-	0.7	-0.1	0.6	-4.5	0.4	0.2	0.3	-6.2	-0.4
Q4	0.4	2.3	0.3	-1.2	-3.0	0.7	0.7	-0.4	-3.5	-0.4
2016 Q1	1.4	0.1	1.4	1.7	-2.4	0.2	0.1	1.0	-1.5	1.3
Q2	1.3	0.5	1.4	0.8	12.8	0.5	0.5	-0.1	10.6	0.8
Q3	0.9	1.4	0.9	0.1	3.8	0.4	0.4	-	2.3	0.5
Q4	1.2	2.4	1.0	0.7	-3.4	0.6	0.6	0.2	-1.6	0.6
2017 Q1	0.8	-0.2	0.9	0.3	-6.4	0.3	0.3	0.2	-4.9	0.6
Q2	0.7	-	0.8	0.6	8.3	0.3	0.3	0.1	6.1	0.4
Q3	0.7	0.6	0.5	-0.3	-3.6	0.4	0.4	0.3	-0.1	0.3
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>										
	IHYO	A8LA	KGM2	KH2E	KH7R	IHYR	KGN3	KH2K	KH9M	L8GI
2014 Q2	5.7	5.9	5.5	1.7	5.5	3.1	3.5	2.9	-0.1	2.5
Q3	4.9	4.7	5.1	5.1	7.9	3.0	3.7	3.0	5.1	1.8
Q4	4.3	3.9	4.3	1.6	6.8	3.3	4.2	1.7	3.8	1.0
2015 Q1	3.3	2.6	3.6	0.6	-1.4	2.7	3.3	0.9	-4.4	0.6
Q2	3.2	3.1	3.3	1.7	7.6	2.5	2.9	0.5	6.6	0.7
Q3	2.3	2.6	2.0	0.6	-3.0	2.1	2.1	0.5	-4.5	0.1
Q4	2.5	2.9	2.5	0.4	-7.8	2.1	1.7	0.6	-8.4	0.4
2016 Q1	3.3	2.9	3.0	2.1	-10.4	1.9	1.5	1.6	-9.0	1.4
Q2	3.1	3.6	3.0	1.9	2.0	1.8	1.5	0.9	-1.4	1.2
Q3	4.0	4.4	4.1	1.4	10.9	1.8	1.7	0.6	7.5	2.2
Q4	4.9	4.4	4.8	3.4	10.3	1.6	1.5	1.1	9.7	3.2
2017 Q1	4.3	4.2	4.3	1.9	5.8	1.8	1.7	0.3	5.9	2.5
Q2	3.7	3.7	3.8	1.8	1.7	1.5	1.5	0.5	1.6	2.1
Q3	3.4	2.9	3.3	1.3	-5.6	1.5	1.5	0.8	-0.7	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 2015 = 100.

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

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

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	97.2370	95.9463	96.4578
2014	98.3666	97.5940	97.6002
2015	98.4462	98.0405	97.9138
2016	100.0000	100.0000	100.0000
<b>Seasonally adjusted</b>			
2014 Q2	98.6540	97.8744	97.9772
Q3	98.7238	98.0280	98.1533
Q4	98.1257	97.4055	97.0198
2015 Q1	98.0512	97.6225	97.5005
Q2	99.1399	98.5782	98.3814
Q3	98.6960	98.1630	98.0646
Q4	97.8978	97.7983	97.7089
2016 Q1	98.9754	99.0245	98.9438
Q2	99.7176	99.7882	99.8245
Q3	100.4669	100.2895	100.3955
Q4	100.8401	100.8977	100.8363
2017 Q1	101.3343	101.4659	101.5210
Q2	101.7113	101.9030	102.0789
Q3	101.9826	102.1598	102.1607
<b>Percentage change, latest year on previous year</b>			
	MNE3	MNF3	MNX6
2013	1.3	1.9	2.4
2014	1.2	1.7	1.2
2015	0.1	0.5	0.3
2016	1.6	2.0	2.1
<b>Percentage change, latest quarter on previous quarter</b>			
	MNE4	MNF4	MNX7
2014 Q2	0.7	0.8	0.7
Q3	0.1	0.2	0.2
Q4	-0.6	-0.6	-1.2
2015 Q1	-0.1	0.2	0.5
Q2	1.1	1.0	0.9
Q3	-0.4	-0.4	-0.3
Q4	-0.8	-0.4	-0.4
2016 Q1	1.1	1.3	1.3
Q2	0.7	0.8	0.9
Q3	0.8	0.5	0.6
Q4	0.4	0.6	0.4
2017 Q1	0.5	0.6	0.7
Q2	0.4	0.4	0.5
Q3	0.3	0.3	0.1
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>			
	MNE5	MNF5	MNX8
2014 Q2	1.7	2.5	2.0
Q3	1.4	1.8	1.3
Q4	0.7	1.0	0.1
2015 Q1	0.1	0.6	0.3
Q2	0.5	0.7	0.4
Q3	-	0.1	-0.1
Q4	-0.2	0.4	0.7
2016 Q1	0.9	1.4	1.5
Q2	0.6	1.2	1.5
Q3	1.8	2.2	2.4
Q4	3.0	3.2	3.2
2017 Q1	2.4	2.5	2.6
Q2	2.0	2.1	2.3
Q3	1.5	1.9	1.8

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.



# P GDP Per Head<sup>1</sup>

£

	UK resident population mid-year estimates (persons thousands) <sup>2</sup>	Current Prices		Chained volume measures (Reference year 2015)	
		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	1 752 554	27 338	1 790 750	27 934
2014	64 597	1 837 062	28 439	1 845 444	28 569
2015	65 110	1 888 737	29 008	1 888 737	29 008
2016	65 648	1 961 125	29 873	1 922 626	29 287
<b>Seasonally adjusted</b>					
2014 Q2	64 597	458 923	7 104	459 702	7 116
Q3	64 725	463 142	7 156	463 201	7 156
Q4	64 854	463 704	7 150	466 727	7 197
2015 Q1	64 982	466 329	7 176	468 326	7 207
Q2	65 110	473 601	7 274	471 018	7 234
Q3	65 226	473 571	7 260	472 980	7 251
Q4	65 341	475 236	7 273	476 413	7 291
2016 Q1	65 514	481 941	7 356	477 152	7 283
Q2	65 648	488 233	7 437	479 682	7 307
Q3	65 743	492 570	7 492	481 524	7 324
Q4	65 839	498 381	7 570	484 268	7 355
2017 Q1	65 934	502 472	7 621	485 509	7 364
Q2	66 030	506 097	7 665	486 914	7 374
Q3	66 125	509 449	7 706	488 907	7 396
<b>Percentage change, latest year on previous year</b>					
		IHYM	N3Y3	IHYP	N3Y6
2013		4.0	3.3	2.1	1.4
2014		4.8	4.0	3.1	2.3
2015		2.8	2.0	2.3	1.5
2016		3.8	3.0	1.8	1.0
<b>Percentage change, latest quarter on previous quarter</b>					
		IHYN	N3Y4	IHYQ	N3Y7
2014 Q2		1.7	1.5	0.9	0.7
Q3		0.9	0.7	0.8	0.6
Q4		0.1	-0.1	0.8	0.6
2015 Q1		0.6	0.4	0.3	0.1
Q2		1.6	1.4	0.6	0.4
Q3		-	-0.2	0.4	0.2
Q4		0.4	0.2	0.7	0.6
2016 Q1		1.4	1.1	0.2	-0.1
Q2		1.3	1.1	0.5	0.3
Q3		0.9	0.7	0.4	0.2
Q4		1.2	1.0	0.6	0.4
2017 Q1		0.8	0.7	0.3	0.1
Q2		0.7	0.6	0.3	0.1
Q3		0.7	0.5	0.4	0.3
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>					
		IHYO	N3Y5	IHYR	N3Y8
2014 Q2		5.7	4.8	3.1	2.3
Q3		4.9	4.1	3.0	2.2
Q4		4.3	3.5	3.3	2.5
2015 Q1		3.3	2.5	2.7	1.9
Q2		3.2	2.4	2.5	1.7
Q3		2.3	1.5	2.1	1.3
Q4		2.5	1.7	2.1	1.3
2016 Q1		3.3	2.5	1.9	1.1
Q2		3.1	2.2	1.8	1.0
Q3		4.0	3.2	1.8	1.0
Q4		4.9	4.1	1.6	0.9
2017 Q1		4.3	3.6	1.8	1.1
Q2		3.7	3.1	1.5	0.9
Q3		3.4	2.9	1.5	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 The UK resident population mid-year estimates used in this publication are published on 22 June 2017

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

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

## Chained Volume Measures

Seasonally adjusted data

Reference year 2015

	Agri- culture, forestry, and fishing	Total Production	Mining & quarrying inc oil & gas extract	Manu- facturing	Electric, gas, steam & air	Water supply, sewerage	Constr uction	Total Services	Distri- bution, hotels & restaurants	Transport storage and commu- nications	Business services and finance	Govern- ment and other services
<b>Percentage change, latest year on previous year</b>												
<b>Growth</b>												
2014	L3BB 12.2	L3BG 1.5	L3BH 0.6	L3BN 2.9	L3DM -5.8	L3DQ 0.6	L3DW 9.0	L3E2 3.4	L3GP 4.7	KI8L 2.7	KI8N 3.8	KI8P 2.4
2015	1.2	1.2	8.1	-	1.0	3.4	4.4	2.6	4.7	4.0	2.4	0.9
2016	-5.7	1.3	-1.0	0.9	2.6	5.3	3.8	2.5	5.1	4.1	1.7	1.3
<b>Contributions to growth</b>												
	ZZ3V	ZZ3W	ZZ3Y	ZZ3X	ZZ3Z	ZZ42	ZZ43	ZZ44	ZZ45	ZZ46	ZZ47	ZZ48
2014	0.1	0.2	-	0.3	-0.1	-	0.5	2.7	0.6	0.3	1.2	0.5
2015	-	0.2	0.1	-	-	-	0.3	2.0	0.6	0.4	0.8	0.2
2016	-	0.2	-	0.1	-	0.1	0.2	2.0	0.7	0.4	0.6	0.3
<b>Percentage change, latest quarter on previous quarter</b>												
<b>Growth</b>												
2015 Q1	L3BB -1.8	L3BG 0.3	L3BH 1.0	L3BN -0.1	L3DM 2.4	L3DQ 0.5	L3DW 1.6	L3E2 0.1	L3GP 1.0	KI8L 0.1	KI8N 0.2	KI8P -0.4
Q2	0.6	0.6	8.8	-0.6	-2.2	4.0	0.7	0.6	1.0	1.1	0.4	0.4
Q3	-0.3	-	1.4	-0.4	0.7	-	-0.4	0.4	0.6	0.9	0.4	-0.1
Q4	-1.3	-0.4	-3.1	0.1	-1.8	0.5	1.2	0.7	1.3	0.5	0.6	0.8
2016 Q1	-4.1	-0.1	-3.1	-	1.0	1.6	0.5	0.8	1.9	1.3	0.4	0.4
Q2	-1.0	2.2	2.2	1.6	5.7	2.4	2.1	0.4	0.8	0.3	0.5	0.1
Q3	-0.2	-0.5	5.0	-0.7	-3.8	0.5	0.5	0.7	1.1	2.4	0.2	0.4
Q4	1.0	0.7	-8.8	1.3	3.4	1.0	2.2	0.6	1.9	0.7	0.3	0.1
2017 Q1	-0.3	0.3	2.9	0.6	-4.1	2.0	1.9	0.1	-0.8	-0.8	0.6	0.4
Q2	-0.1	-0.3	0.6	-0.3	-0.3	-1.0	-0.5	0.4	0.9	1.2	0.1	0.3
Q3	0.2	1.1	2.1	1.1	1.1	0.7	-0.9	0.4	0.3	-	0.6	0.2
<b>Contributions to growth</b>												
	ZZ2F	ZZ2G	ZZ2I	ZZ2H	ZZ2J	ZZ2K	ZZ2L	ZZ2M	ZZ2N	ZZ2O	ZZ2P	ZZ2Q
2015 Q1	-	-	-	-	-	-	0.1	0.1	0.1	-	0.1	-0.1
Q2	-	0.1	0.1	-0.1	-	-	-	0.5	0.1	0.1	0.1	0.1
Q3	-	-	-	-	-	-	-	0.3	0.1	0.1	0.1	-
Q4	-	-0.1	-	-	-	-	0.1	0.6	0.2	0.1	0.2	0.2
2016 Q1	-	-	-	-	-	-	-	0.6	0.3	0.1	0.1	0.1
Q2	-	0.3	-	0.2	0.1	-	0.1	0.3	0.1	-	0.2	-
Q3	-	-0.1	0.1	-0.1	-0.1	-	-	0.6	0.2	0.2	0.1	0.1
Q4	-	0.1	-0.1	0.1	0.1	-	0.1	0.4	0.3	0.1	0.1	-
2017 Q1	-	-	-	0.1	-0.1	-	0.1	0.1	-0.1	-0.1	0.2	0.1
Q2	-	-	-	-	-	-	-	0.3	0.1	0.1	-	0.1
Q3	-	0.2	-	0.1	-	-	-0.1	0.3	-	-	0.2	-
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>												
<b>Growth</b>												
2015 Q1	L3ZZ 4.4	L426 1.4	L427 1.3	L42D 1.4	L44C 4.4	L44G -1.9	L44M 7.0	L44Q 3.4	L47F 5.4	KII2 5.0	KIH9 3.4	KIH8 1.4
Q2	2.8	1.8	10.4	0.2	1.5	5.1	5.7	2.9	4.9	4.7	2.6	1.2
Q3	0.7	1.2	13.1	-0.7	-1.0	5.7	2.2	2.3	4.5	3.9	2.1	0.5
Q4	-2.8	0.5	7.9	-0.9	-0.9	5.0	3.0	1.8	4.0	2.6	1.5	0.6
2016 Q1	-5.1	-	3.6	-0.8	-2.3	6.2	2.0	2.5	4.8	3.8	1.8	1.5
Q2	-6.7	1.6	-2.8	1.3	5.5	4.5	3.4	2.3	4.6	3.1	1.9	1.1
Q3	-6.5	1.2	0.7	1.0	0.9	5.0	4.3	2.7	5.1	4.6	1.7	1.7
Q4	-4.4	2.3	-5.2	2.2	6.2	5.5	5.4	2.5	5.7	4.8	1.5	1.0
2017 Q1	-0.6	2.6	0.7	2.8	0.9	5.9	6.9	1.8	2.9	2.6	1.7	1.0
Q2	0.4	0.2	-0.9	0.9	-4.8	2.4	4.1	1.8	3.1	3.4	1.3	1.1
Q3	0.8	1.8	-3.6	2.7	-	2.6	2.6	1.4	2.2	1.0	1.6	0.9
<b>Contributions to growth</b>												
	ZZ36	ZZ37	ZZ39	ZZ38	ZZ3A	ZZ3B	ZZ3C	ZZ3D	ZZ3E	ZZ3F	ZZ3G	ZZ3H
2015 Q1	0.2	0.2	-	0.1	0.1	-	0.4	2.7	0.7	0.5	1.1	0.3
Q2	-	0.2	0.2	-	-	0.1	0.3	2.3	0.7	0.5	0.8	0.3
Q3	-	0.2	0.2	-0.1	-	0.1	0.1	1.8	0.6	0.4	0.7	0.1
Q4	-	0.1	0.1	-0.1	-	0.1	0.2	1.5	0.5	0.3	0.5	0.1
2016 Q1	-	-	-	-0.1	-	0.1	0.1	2.0	0.7	0.4	0.6	0.3
Q2	-	0.2	-	0.1	0.1	-	0.2	1.8	0.6	0.3	0.6	0.3
Q3	-	0.2	-	0.1	-	0.1	0.3	2.1	0.7	0.5	0.6	0.4
Q4	-	0.3	-0.1	0.2	0.1	0.1	0.3	2.0	0.8	0.5	0.5	0.2
2017 Q1	-	0.4	-	0.3	-	0.1	0.4	1.4	0.4	0.3	0.5	0.2
Q2	-	-	-	0.1	-0.1	-	0.3	1.4	0.4	0.4	0.4	0.2
Q3	-	0.3	-	0.3	-	-	0.2	1.1	0.3	0.1	0.5	0.2

1 Estimates are accurate to 1 decimal place

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

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

## Chained Volume Measures

Seasonally adjusted data

Reference year 2015

Final consumption expenditure									
	Households	Non-profit institutions <sup>3</sup>	General government	Gross capital formation	Gross fixed capital formation	Business investment	Total exports	less Total imports	Net trade
<b>Percentage change, latest year on previous year</b>									
<b>Growth</b>									
	KGZ5	KH26	KH2I	ZZ6H	KG7N	KG7M	KH2U	KH3N	
2014	2.2	1.5	2.5	10.9	7.1	5.1	2.7	4.5	
2015	2.7	-0.8	0.6	4.1	2.8	3.7	5.0	5.1	
2016	2.9	0.6	1.1	0.8	1.3	-0.4	1.1	4.3	
<b>Contributions to growth</b>									
	ZZ6M	ZZ6N	ZZ6O	ZZ6P	ZZ6Q	ZZ6R	ZZ6S	ZZ6T	ZZ6U
2014	1.4	-	0.5	1.8	1.1	0.5	0.8	1.4	-0.6
2015	1.7	-	0.1	0.7	0.5	0.3	1.4	1.5	-0.1
2016	1.8	-	0.2	0.1	0.2	-	0.3	1.2	-0.9
<b>Percentage change, latest quarter on previous quarter</b>									
<b>Growth</b>									
	KGZ6	KH27	KH2J	ZZ5H	KG7Q	KG7P	KH2V	KH3O	
2015 Q1	1.0	-0.6	-	0.8	2.8	5.2	-	1.3	
Q2	0.7	0.7	0.6	-5.9	1.4	0.1	2.0	-1.5	
Q3	1.0	-1.2	0.3	1.7	-3.1	-3.3	-1.0	0.8	
Q4	0.4	1.3	-0.4	5.7	0.1	0.1	1.9	3.2	
2016 Q1	0.8	0.2	1.0	-1.4	0.6	-0.1	-2.4	-0.1	
Q2	0.9	0.4	-0.1	-3.9	1.9	0.9	2.5	0.8	
Q3	0.6	-0.9	-	8.1	0.8	1.4	-1.9	3.0	
Q4	0.4	-	0.2	-8.4	0.4	-0.1	5.4	-0.7	
2017 Q1	0.4	0.3	0.2	2.6	0.5	0.8	-0.3	1.0	
Q2	0.2	0.4	0.1	-1.8	0.6	0.5	1.7	0.2	
Q3	0.6	0.2	0.3	3.0	0.2	0.2	-0.7	1.1	
<b>Contributions to growth</b>									
	ZZ5M	ZZ5N	ZZ5O	ZZ5P	ZZ5Q	ZZ5R	ZZ5S	ZZ5T	ZZ5U
2015 Q1	0.6	-	-	0.1	0.5	0.5	-	0.4	-0.4
Q2	0.4	-	0.1	-1.1	0.2	-	0.6	-0.5	1.1
Q3	0.7	-	0.1	0.3	-0.5	-0.3	-0.3	0.2	-0.5
Q4	0.3	-	-0.1	1.0	-	-	0.5	1.0	-0.4
2016 Q1	0.5	-	0.2	-0.2	0.1	-	-0.7	-	-0.7
Q2	0.6	-	-	-0.7	0.3	0.1	0.7	0.2	0.4
Q3	0.4	-	-	1.3	0.1	0.1	-0.5	0.9	-1.4
Q4	0.3	-	-	-1.5	0.1	-	1.4	-0.2	1.7
2017 Q1	0.2	-	-	0.4	0.1	0.1	-0.1	0.3	-0.4
Q2	0.1	-	-	-0.3	0.1	-	0.5	0.1	0.4
Q3	0.4	-	-	0.5	-	-	-0.2	0.3	-0.5
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>									
<b>Growth</b>									
	KGZ7	KH28	KH2K	ZZ5Y	KG7T	KG7S	KH2W	KH3P	
2015 Q1	2.4	-1.7	0.9	7.7	4.8	8.0	6.9	7.1	
Q2	2.8	-0.3	0.5	5.1	4.9	4.0	5.0	5.4	
Q3	2.5	-1.4	0.5	1.8	0.4	1.1	5.3	4.4	
Q4	3.2	0.2	0.6	1.9	1.1	2.0	2.8	3.7	
2016 Q1	2.9	0.9	1.6	-0.3	-1.1	-3.2	0.3	2.3	
Q2	3.2	0.7	0.9	1.8	-0.6	-2.5	0.8	4.8	
Q3	2.7	1.1	0.6	8.2	3.5	2.2	-0.2	7.0	
Q4	2.7	-0.2	1.1	-6.2	3.7	2.0	3.3	3.0	
2017 Q1	2.3	-0.1	0.3	-2.4	3.7	2.9	5.6	4.1	
Q2	1.6	-0.2	0.5	-0.3	2.4	2.5	4.9	3.4	
Q3	1.6	0.9	0.8	-5.0	1.8	1.3	6.2	1.5	
<b>Contributions to growth</b>									
	ZZ65	ZZ66	ZZ67	ZZ68	ZZ69	ZZ6A	ZZ6B	ZZ6C	ZZ6D
2015 Q1	1.5	-0.1	0.2	1.3	0.8	0.7	1.9	2.1	-0.2
Q2	1.7	-	0.1	0.8	0.8	0.4	1.4	1.6	-0.2
Q3	1.6	-	0.1	0.3	0.1	0.1	1.5	1.3	0.2
Q4	2.0	-	0.1	0.3	0.2	0.2	0.8	1.2	-0.3
2016 Q1	1.8	-	0.3	-	-0.2	-0.3	0.1	0.7	-0.6
Q2	2.0	-	0.2	0.3	-0.1	-0.2	0.2	1.4	-1.2
Q3	1.7	-	0.1	1.4	0.6	0.2	-	2.0	-2.1
Q4	1.7	-	0.2	-1.1	0.6	0.2	0.9	0.9	-
2017 Q1	1.4	-	0.1	-0.4	0.6	0.3	1.5	1.2	0.3
Q2	1.0	-	0.1	-	0.4	0.2	1.4	1.0	0.3
Q3	1.0	-	0.2	-0.9	0.3	0.1	1.7	0.5	1.2

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. Chained volume measure data for this component are available in table C2

3 Non-profit institutions serving households

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

## Current Prices

Seasonally adjusted data

	Compen- sation of employees	Gross operating surplus of corporations <sup>3</sup>	Other income <sup>4</sup>	Taxes on products & production less subsidies
<b>Percentage change, latest year on previous year</b>				
<b>Growth</b>				
	KGI3	KH4V	KH6T	KH65
2014	2.1	9.6	6.8	5.0
2015	3.1	0.3	5.4	2.8
2016	4.0	2.5	3.9	4.2
<b>Contributions to growth</b>				
	ZZ7H	ZZ7I	ZZ7J	ZZ7K
2014	1.1	2.0	1.1	0.6
2015	1.5	0.1	0.9	0.3
2016	2.0	0.5	0.7	0.5
<b>Percentage change, latest quarter on previous quarter</b>				
<b>Growth</b>				
	KGI4	KH4W	KH6U	KH66
2015 Q1	0.5	1.3	1.4	-1.6
Q2	0.8	2.0	1.9	3.2
Q3	0.7	-3.7	2.1	1.0
Q4	0.9	-0.4	-0.2	0.4
2016 Q1	0.1	5.0	0.6	0.9
Q2	2.3	-1.7	2.1	1.3
Q3	1.6	-0.3	0.5	0.3
Q4	0.6	2.8	0.2	2.0
2017 Q1	0.8	2.3	0.2	-1.1
Q2	1.0	-0.2	0.7	1.2
Q3	0.7	0.6	0.2	1.4
<b>Contributions to growth</b>				
	ZZ6Z	ZZ72	ZZ73	ZZ74
2015 Q1	0.3	0.3	0.2	-0.2
Q2	0.4	0.4	0.3	0.4
Q3	0.3	-0.8	0.4	0.1
Q4	0.5	-0.1	-	0.1
2016 Q1	0.1	1.0	0.1	0.1
Q2	1.1	-0.4	0.4	0.2
Q3	0.8	-0.1	0.1	-
Q4	0.3	0.6	-	0.2
2017 Q1	0.4	0.5	-	-0.1
Q2	0.5	-	0.1	0.1
Q3	0.4	0.1	-	0.2
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>				
<b>Growth</b>				
	KGI5	KH4X	KH6V	KH67
2015 Q1	2.6	4.7	5.4	1.0
Q2	3.5	2.0	4.2	2.6
Q3	3.3	-4.3	6.5	4.4
Q4	2.9	-0.9	5.3	2.9
2016 Q1	2.5	2.7	4.5	5.6
Q2	4.0	-1.0	4.7	3.7
Q3	5.0	2.5	3.0	3.0
Q4	4.7	5.8	3.5	4.6
2017 Q1	5.4	3.1	3.0	2.5
Q2	4.1	4.7	1.6	2.4
Q3	3.2	5.6	1.3	3.6
<b>Contributions to growth</b>				
	ZZ79	ZZ7A	ZZ7B	ZZ7C
2015 Q1	1.3	1.0	0.9	0.1
Q2	1.7	0.4	0.7	0.3
Q3	1.6	-1.0	1.1	0.5
Q4	1.4	-0.2	0.9	0.4
2016 Q1	1.2	0.6	0.8	0.7
Q2	1.9	-0.2	0.8	0.5
Q3	2.4	0.5	0.5	0.4
Q4	2.3	1.2	0.6	0.6
2017 Q1	2.7	0.7	0.5	0.3
Q2	2.1	1.0	0.3	0.3
Q3	1.6	1.2	0.2	0.4

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 2015

	Final consumption expenditure							less Total imports
	House- holds	Non-prof- it instit- utions <sup>2</sup>	General govern- ment	Gross capital formation	Gross fixed capital formation	Total exports		
<b>Percentage change, latest year on previous year</b>								
	ZZ93	ZZ94	ZZ95	ZZ96	ZZ97	ZZ98	ZZ99	
2014	1.9	2.5	0.6	-1.1	1.4	-2.8	-4.2	
2015	0.6	0.8	0.2	-2.0	1.3	-5.1	-5.9	
2016	1.4	0.1	1.1	3.0	1.6	4.7	3.1	
<b>Percentage change, latest quarter on previous quarter</b>								
	ZZ8N	ZZ8O	ZZ8P	ZZ8Q	ZZ8R	ZZ8S	ZZ8T	
2015 Q1	-0.2	0.2	0.1	-0.1	1.0	-1.9	-2.7	
Q2	0.2	-0.9	0.3	5.7	-1.0	-1.1	-0.7	
Q3	-	1.4	0.2	-3.2	0.6	-1.6	-1.5	
Q4	0.6	-0.7	-0.8	-5.7	0.5	-0.1	-1.4	
2016 Q1	0.2	-	0.7	5.1	0.7	1.6	0.9	
Q2	0.4	-0.1	0.9	2.1	0.3	2.5	2.4	
Q3	0.3	0.4	0.2	2.9	0.6	3.4	3.9	
Q4	0.9	0.1	0.5	-1.6	-0.3	2.3	1.7	
2017 Q1	0.7	-	0.1	-	0.5	1.5	1.2	
Q2	0.3	0.3	0.5	0.7	0.6	0.4	0.3	
Q3	0.4	0.2	-0.5	0.6	0.1	0.7	0.6	
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>								
	ZZ8U	ZZ8V	ZZ8W	ZZ8X	ZZ8Y	ZZ8Z	ZZ92	
2015 Q1	0.9	2.7	-0.3	-2.9	1.2	-4.5	-5.7	
Q2	0.6	-0.1	1.3	-0.7	0.9	-5.3	-5.7	
Q3	0.1	0.8	0.2	-0.9	1.7	-5.8	-6.0	
Q4	0.7	-	-0.2	-3.6	1.1	-4.6	-6.3	
2016 Q1	1.0	-0.3	0.4	1.4	0.7	-1.3	-2.8	
Q2	1.2	0.5	1.0	-2.1	2.1	2.4	0.2	
Q3	1.5	-0.4	0.9	4.0	2.1	7.6	5.8	
Q4	1.9	0.4	2.2	8.6	1.4	10.2	9.1	
2017 Q1	2.4	0.5	1.6	3.4	1.2	10.2	9.5	
Q2	2.3	0.8	1.2	2.1	1.4	7.9	7.3	
Q3	2.4	0.6	0.5	-0.2	0.9	5.1	3.9	

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

2 Non-profit institutions serving households

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

Seasonally adjusted data

Reference year 2015

	Agri- culture, forestry, and fishing	Total Production	Mining & quarrying & gas extract	Manu- facturing	Electric, gas, steam & air	Water supply, sewerage	Constr- uction	Total Services	Distri- bution, hotels & restaurants	Transport, storage and commu- nications	Business services and finance	Govern- ment & 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	12.2	1.5	0.6	2.9	-5.8	0.6	9.0	3.4	4.7	2.7	3.8	2.4
2015	1.2	1.2	8.1	-	1.0	3.4	4.4	2.6	4.7	4.0	2.4	0.9
2016	-5.7	1.3	-1.0	0.9	2.6	5.3	3.8	2.5	5.1	4.1	1.7	1.3
<b>Previous estimates<sup>2</sup></b>												
	A2EQ	A2ER	A2ET	A2ES	A2EU	A2EV	A2EW	A2EY	A2F2	A2F3	A2F4	A2F5
2014	12.2	1.5	0.6	2.9	-5.8	0.6	9.0	3.4	4.7	2.7	3.8	2.4
2015	1.2	1.2	8.1	-	1.0	3.4	4.4	2.6	4.7	4.0	2.4	0.9
2016	-5.7	1.3	-1.0	0.9	2.6	5.3	3.8	2.5	5.1	4.1	1.7	1.3
<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
2015 Q1	-1.8	0.3	1.0	-0.1	2.4	0.5	1.6	0.1	1.0	0.1	0.2	-0.4
Q2	0.6	0.6	8.8	-0.6	-2.2	4.0	0.7	0.6	1.0	1.1	0.4	0.4
Q3	-0.3	-	1.4	-0.4	0.7	-	-0.4	0.4	0.6	0.9	0.4	-0.1
Q4	-1.3	-0.4	-3.1	0.1	-1.8	0.5	1.2	0.7	1.3	0.5	0.6	0.8
2016 Q1	-4.1	-0.1	-3.1	-	1.0	1.6	0.5	0.8	1.9	1.3	0.4	0.4
Q2	-1.0	2.2	2.2	1.6	5.7	2.4	2.1	0.4	0.8	0.3	0.5	0.1
Q3	-0.2	-0.5	5.0	-0.7	-3.8	0.5	0.5	0.7	1.1	2.4	0.2	0.4
Q4	1.0	0.7	-8.8	1.3	3.4	1.0	2.2	0.6	1.9	0.7	0.3	0.1
2017 Q1	-0.3	0.3	2.9	0.6	-4.1	2.0	1.9	0.1	-0.8	-0.8	0.6	0.4
Q2	-0.1	-0.3	0.6	-0.3	-0.3	-1.0	-0.5	0.4	0.9	1.2	0.1	0.3
Q3	0.2	1.1	2.1	1.1	1.1	0.7	-0.9	0.4	0.3	-	0.6	0.2
<b>Previous estimates<sup>2</sup></b>												
	A2CX	A2CY	A2DO	A2DL	A2DR	A2DS	A2DT	A2DU	A2DV	A2DW	A2DX	A2DY
2015 Q1	-1.8	0.3	1.0	-0.1	2.4	0.5	1.6	0.1	1.0	0.1	0.2	-0.4
Q2	0.6	0.6	8.8	-0.6	-2.2	4.0	0.7	0.6	1.0	1.1	0.4	0.4
Q3	-0.3	-	1.4	-0.4	0.7	-	-0.4	0.4	0.6	0.9	0.4	-0.1
Q4	-1.3	-0.4	-3.1	0.1	-1.8	0.5	1.2	0.7	1.3	0.5	0.6	0.8
2016 Q1	-4.1	-0.1	-3.1	-	1.0	1.6	0.5	0.8	1.9	1.3	0.4	0.4
Q2	-1.0	2.2	2.2	1.6	5.7	2.4	2.1	0.4	0.8	0.3	0.5	0.1
Q3	-0.2	-0.5	5.0	-0.7	-3.8	0.5	0.5	0.7	1.1	2.4	0.2	0.4
Q4	1.0	0.7	-8.8	1.3	3.4	1.0	2.2	0.6	1.9	0.7	0.3	0.1
2017 Q1	-0.3	0.3	2.9	0.6	-4.1	2.0	1.9	0.1	-0.8	-0.8	0.6	0.4
Q2	-0.1	-0.3	0.6	-0.3	-0.3	-1.0	-0.5	0.4	0.9	1.2	0.1	0.3
Q3	1.0	1.0	1.5	1.0	0.4	0.4	-0.7	0.4	0.4	0.1	0.6	0.1
<b>Revisions</b>												
	ZZ4A	ZZ4B	ZZ4D	ZZ4C	ZZ4E	ZZ4F	ZZ4G	ZZ4H	ZZ4I	ZZ4J	ZZ4K	ZZ4L
2015 Q1	-	-	-	-	-	-	-	-	-	-	-	-
Q2	-	-	-	-	-	-	-	-	-	-	-	-
Q3	-	-	-	-	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-	-	-	-	-
2016 Q1	-	-	-	-	-	-	-	-	-	-	-	-
Q2	-	-	-	-	-	-	-	-	-	-	-	-
Q3	-	-	-	-	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-	-	-	-	-
2017 Q1	-	-	-	-	-	-	-	-	-	-	-	-
Q2	-	-	-	-	-	-	-	-	-	-	-	-
Q3	-0.8	0.1	0.6	0.1	0.7	0.3	-0.2	-	-0.1	-0.1	-	0.1

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)

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

continued

Seasonally adjusted data

Reference year 2015

	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>												
	L3ZZ	L426	L427	L42D	L44C	L44G	L44M	L44Q	L47F	KII2	KIH9	KIH8
2015 Q1	4.4	1.4	1.3	1.4	4.4	-1.9	7.0	3.4	5.4	5.0	3.4	1.4
Q2	2.8	1.8	10.4	0.2	1.5	5.1	5.7	2.9	4.9	4.7	2.6	1.2
Q3	0.7	1.2	13.1	-0.7	-1.0	5.7	2.2	2.3	4.5	3.9	2.1	0.5
Q4	-2.8	0.5	7.9	-0.9	-0.9	5.0	3.0	1.8	4.0	2.6	1.5	0.6
2016 Q1	-5.1	-	3.6	-0.8	-2.3	6.2	2.0	2.5	4.8	3.8	1.8	1.5
Q2	-6.7	1.6	-2.8	1.3	5.5	4.5	3.4	2.3	4.6	3.1	1.9	1.1
Q3	-6.5	1.2	0.7	1.0	0.9	5.0	4.3	2.7	5.1	4.6	1.7	1.7
Q4	-4.4	2.3	-5.2	2.2	6.2	5.5	5.4	2.5	5.7	4.8	1.5	1.0
2017 Q1	-0.6	2.6	0.7	2.8	0.9	5.9	6.9	1.8	2.9	2.6	1.7	1.0
Q2	0.4	0.2	-0.9	0.9	-4.8	2.4	4.1	1.8	3.1	3.4	1.3	1.1
Q3	0.8	1.8	-3.6	2.7	-	2.6	2.6	1.4	2.2	1.0	1.6	0.9
<b>Previous estimates<sup>2</sup></b>												
	A2DZ	A2E2	A2E4	A2E3	A2E5	A2EE	A2EK	A2EL	A2EM	A2EN	A2EO	A2EP
2015 Q1	4.4	1.4	1.3	1.4	4.4	-1.9	7.0	3.4	5.4	5.0	3.4	1.4
Q2	2.8	1.8	10.4	0.2	1.5	5.1	5.7	2.9	4.9	4.7	2.6	1.2
Q3	0.7	1.2	13.1	-0.7	-1.0	5.7	2.2	2.3	4.5	3.9	2.1	0.5
Q4	-2.8	0.5	7.9	-0.9	-0.9	5.0	3.0	1.8	4.0	2.6	1.5	0.6
2016 Q1	-5.1	-	3.6	-0.8	-2.3	6.2	2.0	2.5	4.8	3.8	1.8	1.5
Q2	-6.7	1.6	-2.8	1.3	5.5	4.5	3.4	2.3	4.6	3.1	1.9	1.1
Q3	-6.5	1.2	0.7	1.0	0.9	5.0	4.3	2.7	5.1	4.6	1.7	1.7
Q4	-4.4	2.3	-5.2	2.2	6.2	5.5	5.4	2.5	5.7	4.8	1.5	1.0
2017 Q1	-0.6	2.6	0.7	2.8	0.9	5.9	6.9	1.8	2.9	2.6	1.7	1.0
Q2	0.4	0.2	-0.9	0.9	-4.8	2.4	4.1	1.8	3.1	3.4	1.3	1.1
Q3	1.6	1.6	-4.1	2.7	-0.7	2.3	2.8	1.5	2.3	1.2	1.6	0.8
<b>Revisions</b>												
	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	-	-	-	-	-	-	-	-	-	-	-	-
Q3	-0.8	0.2	0.5	-	0.7	0.3	-0.2	-0.1	-0.1	-0.2	-	0.1

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)