

Statistical bulletin

Second estimate of GDP: January to March 2018

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.



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25 May 2018

Next release:
29 June 2018

Notice

22 February 2018

A change was made in UK National Accounts: the Blue Book 2017 to correct the estimation of elements of purchased software, which were being double-counted from 2001 onwards along with discrepancies in the modelled data prior to 2001. During further quality assurance, we have identified that 2017 adjustment did not fully address the issue and an additional amendment to other machinery and equipment, and information and communication technology (ICT) equipment is required. Purchased software will be unaffected by this additional amendment. When implemented in the Blue Book 2018 consistent Quarterly National Accounts dataset, to be published 29 June 2018, it will increase the level of gross fixed capital formation (GFCF) across the period by around 1.5% per year in current prices. The average impact on quarter-on quarter GFCF current price growth is positive 0.01% and the average impact on quarter-on-quarter gross domestic product (GDP) current price growth is 0.00%. We do not yet know the definitive impact on the chained volume measures of GFCF or GDP growth rates, we expect them, though, to be similarly small.

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1 . Main points

- UK gross domestic product (GDP) in volume terms was estimated to have increased by 0.1% between Quarter 4 (Oct to Dec) 2017 and Quarter 1 (Jan to Mar) 2018, unrevised from the preliminary estimate of GDP.
- When comparing GDP growth in the most recent quarter to the same quarter a year ago, we see a continuation of a pattern of slowing growth, in part reflecting a slowing in the growth of consumer-facing industries.
- The services industries increased by 0.3% in Quarter 1 2018; while construction decreased by 2.7% in Quarter 1 2018.
- Household spending grew by 0.2%, while business investment decreased by 0.2% between Quarter 4 2017 and Quarter 1 2018.
- Compensation of employees increased by 1.6% in Quarter 1 2018, contributing most to the income approach to measuring GDP; in part reflecting an increase in earnings and employment in the latest quarter.
- GDP per head in volume terms decreased by 0.1% between Quarter 4 2017 and Quarter 1 2018.
- While the bad weather had some impact on the economy, particularly in construction and some areas of retail, its overall effect was limited, with partially offsetting impacts in energy supply and online sales.

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 the [National Accounts Revisions Policy](#) the period open for revision in this release is Quarter 1 (Jan to Mar) 2018 only.

3 . Growth for Quarter 1 2018 unrevised at 0.1%

UK gross domestic product (GDP) increased by 0.1% between Quarter 4 (Oct to Dec) 2017 and Quarter 1 (Jan to Mar) 2018.

Table 1 shows GDP and the headline economic indicators from 2016 onwards.

Table 1: Headline economic indicators and GDP per head for the UK, Quarter 1 (Jan to Mar) 2016 to Quarter 1 2018

	Chained volume measures				Current market prices		% growth ¹
	GDP	Household expenditure	Gross fixed capital formation	GDP per head	GDP	Compensation of employees	
							Seasonally adjusted
2016	1.9	3.1	1.8	1.1	3.9		4.2
2017	1.8	1.7	4.0	1.2	3.8		4.1
Q1 2016	0.2	0.8	0.7	-0.1	1.5		0.2
Q2 2016	0.5	1.1	2.0	0.3	1.2		2.4
Q3 2016	0.5	0.8	1.1	0.4	1.1		1.4
Q4 2016	0.7	0.3	0.7	0.6	1.3		0.6
Q1 2017	0.3	0.4	0.7	0.2	0.8		1.0
Q2 2017	0.2	0.3	1.7	0.1	0.6		1.0
Q3 2017	0.5	0.3	0.5	0.3	0.9		0.8
Q4 2017	0.4	0.3	1.1	0.2	0.7		0.7
Q1 2018	0.1	0.2	0.9	-0.1	0.3		1.6

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).

3. Updated population data were taken on for the quarterly tail (2016 Q1 onwards) in the December 2017 Quarterly National Accounts. Updates to population estimates before this point will be incorporated when the whole time series is open for revision in the Blue Book 2018 consistent data (June 2018).

Figure 1 shows the seasonally adjusted level of GDP along with quarterly growths. The growth between Quarter 4 2017 and Quarter 1 2018 is the 21st consecutive quarterly increase and continues the UK's pattern of growth since Quarter 1 2013.

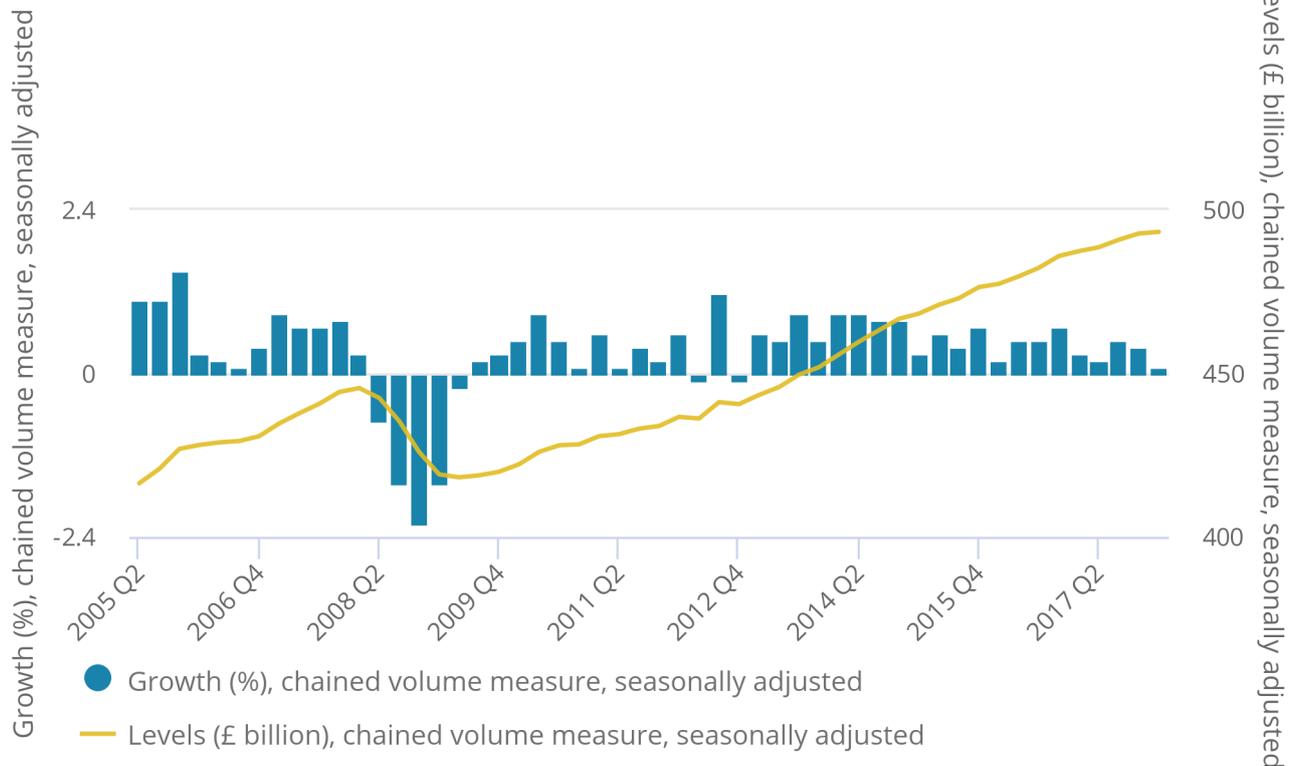
Growth in UK GDP is now 10.7% above the GDP pre-economic downturn peak in Quarter 1 2008, having surpassed it in Quarter 2 (Apr to June) 2013.

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

Quarter 2 (Apr to Jun) 2005 to Quarter 1 (Jan to Mar) 2018

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

Quarter 2 (Apr to Jun) 2005 to Quarter 1 (Jan to Mar) 2018



Source: Office for National Statistics

Notes:

1. Q1 refers to Jan to Mar, Q2 refers to Apr to June, Q3 refers to July to Sept, Q4 refers to Oct to Dec.

When looking at UK GDP growth in volume terms in the current quarter (Quarter 1 2018) compared with the same quarter a year ago (Quarter 1 2017), GDP increased by 1.2%.

Implied deflator

The GDP implied deflator at market prices for Quarter 1 2018 is 1.4% above the same quarter of 2017. 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

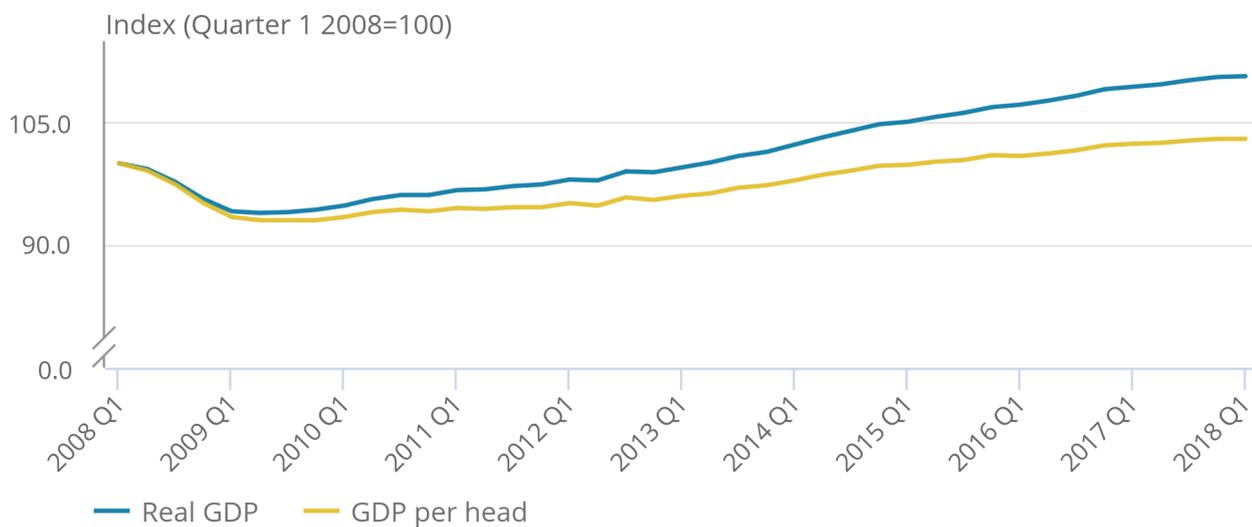
In Quarter 1 2018, GDP per head fell by 0.1% compared with Quarter 4 2017, reflecting population increasing at a greater rate than GDP. GDP per head is now 3.0% above the GDP pre-economic downturn peak in Quarter 1 2008, having surpassed this peak in Quarter 2 2015 (Figure 2).

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

Quarter 1 (Jan to Mar) 2008 to Quarter 1 2018

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

Quarter 1 (Jan to Mar) 2008 to Quarter 1 2018



Source: Office for National Statistics

Notes:

1. Q1 refers to Jan to Mar, Q2 refers to Apr to June, Q3 refers to July to Sept, Q4 refers to Oct to Dec.

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.

The [population estimates](#) used in this release are those published on 22 June 2017 and the [population projections](#) used are those published on 26 October 2017.

4 . Services and production contribute to growth in the output approach of GDP in Quarter 1 2018

The output approach to measuring gross domestic product (GDP) involves estimating production activity within the UK economy. It increased by 0.1% between Quarter 4 (Oct to Dec) 2017 and Quarter 1 (Jan to Mar) 2018, unrevised from the [preliminary estimate of GDP](#).

Services

The largest component within the output approach of GDP is the services sector, which increased by 0.3% overall in the first quarter of 2018. Positive growth was recorded within three of the four sub-sectors of the services industries between Quarter 4 2017 and Quarter 1 2018, all of which were unrevised from the [preliminary estimate of GDP](#):

- transport, storage and communications increased by 0.4%
- business services and finance increased by 0.4%
- government and other services increased by 0.1%
- distribution, hotels and restaurants decreased by 0.1%

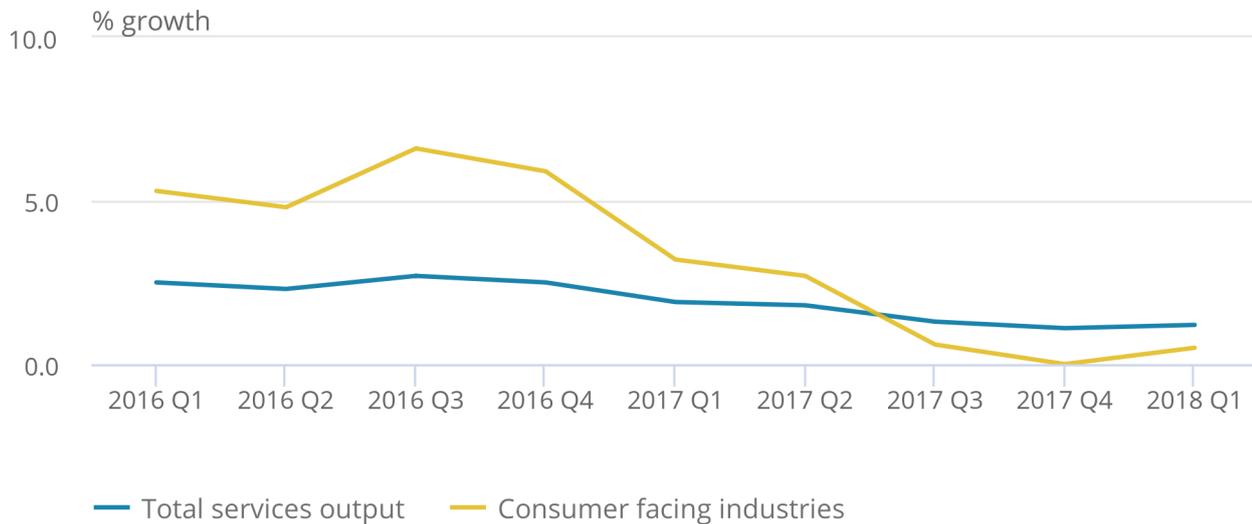
As reported in the [preliminary estimate of GDP](#), despite services growing in the most recent quarter, the quarter on same quarter a year ago growth shows a weakening in growth in this part of the economy. This is particularly seen in the more domestic consumer-facing industries such as retail trade, food and beverage-serving activities, and arts, entertainment and recreation (Figure 3).

Figure 3: Growth rates of the services sector and its components, quarter on same quarter a year ago

Quarter 1 (Jan to Mar) 2016 to Quarter 1 2018

Figure 3: Growth rates of the services sector and its components, quarter on same quarter a year ago

Quarter 1 (Jan to Mar) 2016 to Quarter 1 2018



Source: Office for National Statistics

Notes:

1. Q1 refers to Jan to Mar, Q2 refers to Apr to June, Q3 refers to July to Sept, Q4 refers to Oct to Dec.
2. Consumer-facing industries refer to retail trade, food and beverage serving activities, publishing, audio visual and broadcasting activities, and arts, entertainment and recreation (Standard Industrial Classification 2007 codes 45, 47, 56, 58, 59, 60, 90, 91, 92 and 93).

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 0.6% between Quarter 4 2017 and Quarter 1 2018, revised down by 0.1 percentage points from the [preliminary estimate of GDP](#). Within production, three of the four sub-sectors increased in this period, the previous estimates are shown in brackets:

- electricity, gas, steam and air conditioning increased by 2.5% (2.3%)
- mining and quarrying increased by 2.2% (3.5%)
- manufacturing increased by 0.2% (unrevised)
- water supply industries decreased by 1.0% (negative 0.3%)

Strength in the electricity, gas, steam and air conditioning industry can be attributed to below-average temperatures in February and March 2018, while the increase in mining and quarrying was due largely to the recovery from the fall in oil and gas production in Quarter 4 2017. The Forties pipeline system (FPS), which closed for several days in the final quarter of 2017, returned to normal operating capacity in Quarter 1 2018.

More information can be found in the [Index of Production statistical bulletin](#), which was published on 10 May 2018.

Construction

Construction output was estimated to have decreased by 2.7% in Quarter 1 2018, revised upwards from negative 3.3% in the [preliminary estimate of GDP](#). This is the weakest growth since Quarter 2 (Apr to June) 2012. As previously reported, there is some evidence of an impact from the bad weather on this industry, however, construction output fell across all three months of the quarter, not just the period of the bad weather.

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, decreased by 1.4% into Quarter 1 2018, unrevised from the [preliminary estimate of GDP](#).

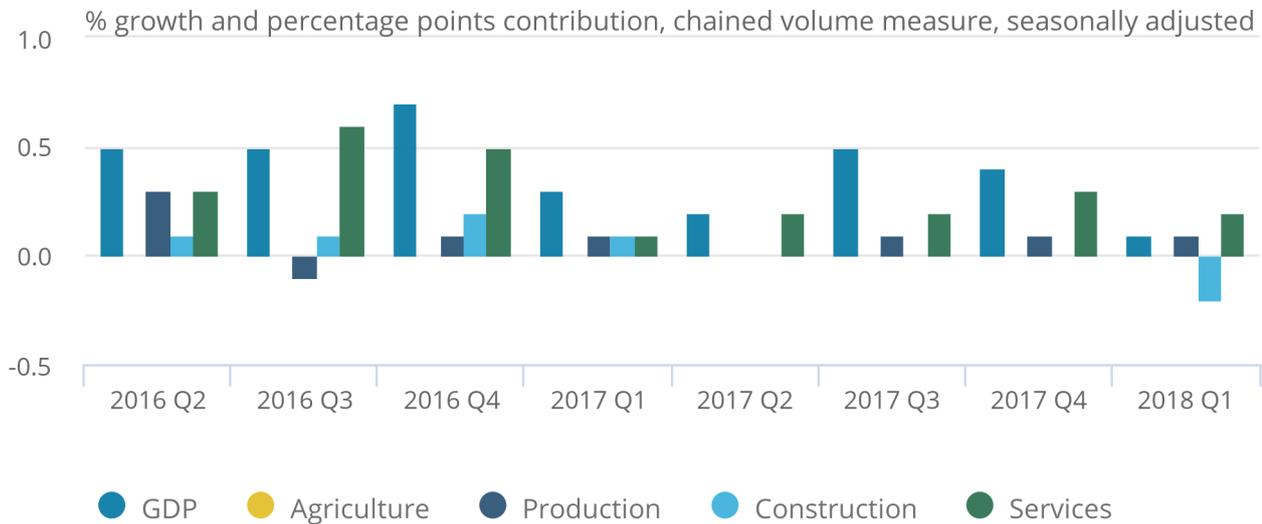
Figure 4 shows the contributions to GDP growth from the sectors of output since Quarter 2 2016. In Quarter 1 2018, the services industries made the largest contribution to GDP growth, followed by production, while construction, followed by agriculture deducted from GDP growth. In all periods, the services industries contributed most to GDP growth.

Figure 4: Output components percentage contribution to GDP growth for the UK, quarter-on-quarter

Quarter 2 (Apr to June) 2016 to Quarter 1 (Jan to Mar) 2018

Figure 4: Output components percentage contribution to GDP growth for the UK, quarter-on-quarter

Quarter 2 (Apr to June) 2016 to Quarter 1 (Jan to Mar) 2018



Source: Office for National Statistics

Notes:

1. Q1 refers to Jan to Mar, Q2 refers to Apr to June, Q3 refers to July to Sept, Q4 refers to Oct to Dec.
2. Contributions are to output gross value added and therefore may not sum to the percentage change in average GDP.
3. Contributions may not sum to GDP growth due to rounding.
4. This chart does not include the statistical discrepancy and components may not sum to the percentage change in average GDP.

5 . Household spending remains subdued in the first quarter of 2018

The expenditure approach to measuring gross domestic product (GDP) increased by 0.1% between Quarter 4 (Oct to Dec) 2017 and Quarter 1 (Jan to Mar) 2018. 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 0.2% between Quarter 4 2017 and Quarter 1 2018, continuing a pattern of subdued growth seen in recent quarters. When comparing Quarter 1 2018 with the same quarter a year ago, household spending grew by 1.1%. The quarter on same quarter a year ago growths show a pattern of weakening through 2017 and the first quarter of 2018, consistent with the weakness seen in consumer-facing industries in the output approach to measuring GDP.

General government final consumption expenditure (GGFCE)

GGFCE, or government expenditure, increased by 0.5% between Quarter 4 2017 and Quarter 1 2018. The largest contributor to this increase was spending on public administration.

Gross fixed capital formation (GFCF)

In Quarter 1 2018, GFCF increased by 0.9% compared with Quarter 4 2017.

Initial estimates of business investment, which makes up the largest proportion of total GFCF, decreased by 0.2% in Quarter 1 2018. The private dwelling and general government sectors of GFCF contributed most to the GFCF increase in Quarter 1 2018, growing by 3.4% and 3.2% respectively.

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

Trade in goods and services

In Quarter 1 2018, the trade deficit narrowed slightly to £9,228 million in volume terms, from £9,375 million in Quarter 4 2017. Total trade imports decreased by 0.6% whilst total exports decreased by 0.5%, between Quarter 4 2017 and Quarter 1 2018. Decreases in both imports and exports in nominal terms were larger than decreases in volume terms, which may be linked to movements in the sterling exchange rate seen in Quarter 1 2018.

The trade in goods figures in this release are consistent with the monthly [UK trade release](#) published on 10 May 2018.

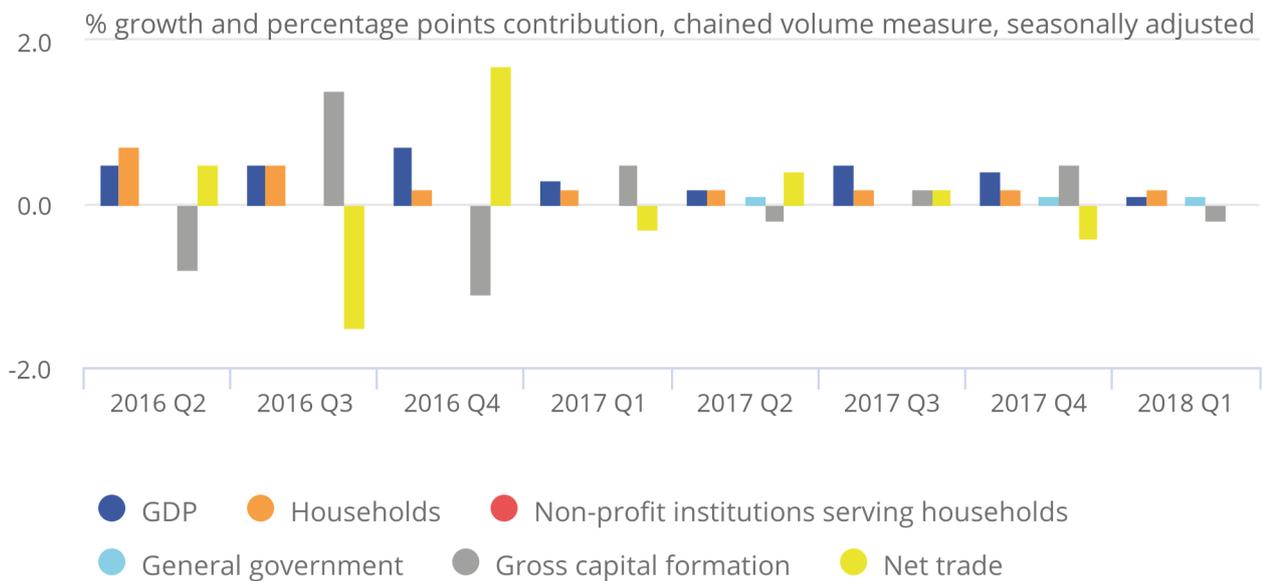
Figure 5 shows the quarterly contribution of the expenditure components to the growth of GDP in chained volume measures from Quarter 1 2016 to Quarter 1 2018. In the latest quarter, household spending, government spending and trade imports all contributed positively to GDP growth, while gross capital formation (which includes GFCF, inventories and valuables) and trade exports deducted from GDP growth.

Figure 5: Expenditure components percentage contribution to GDP growth for the UK, quarter-on-quarter

Quarter 2 (Apr to June) 2016 to Quarter 1 (Jan to Mar) 2018

Figure 5: Expenditure components percentage contribution to GDP growth for the UK, quarter-on-quarter

Quarter 2 (Apr to June) 2016 to Quarter 1 (Jan to Mar) 2018



Source: Office for National Statistics

Notes:

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

6 . Compensation of employees drives growth in the income approach to measuring GDP

Nominal gross domestic product (GDP), or GDP not adjusted to take account of inflation, increased by 0.3% between Quarter 4 (Oct to Dec) 2017 and Quarter 1 (Jan to Mar) 2018.

The income approach to measuring GDP adds up all income generated by production in the form of gross operating surplus (profits), compensation of employees (income from employment), mixed income (self-employment income) and taxes on products and production less subsidies for the whole economy.

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

Compensation of employees (CoE)

CoE consists of wages and salaries, and employers' social contributions. Total CoE showed positive growth of 1.6% (seasonally adjusted) into Quarter 1 2018. This compares with an increase of 0.7% in the previous quarter. The increase can in part be attributed to an increase in earnings and a rise in the numbers of people employed, as reported in the [UK labour market: May 2018](#) publication.

Taxes on products and production less subsidies

Taxes on products and production less subsidies showed a decrease of 2.4% in Quarter 1 2018. The fall in taxes on products and production is due to a decrease in consumer-facing taxes including Value Added Tax (VAT), Alcohol and Tobacco Duty.

Other income

There was an increase in other income of 0.5% in Quarter 1 2018. Other income is comprised of mixed income (mostly self-employment income) and the operating surplus (profits) of the non-corporate sector. This slowed from a growth of 1.2% in the previous quarter, in part due to a reduction in the numbers of self-employed as reported in the [UK labour market: May 2018](#) publication.

Gross operating surplus of corporations

Gross operating surplus of corporations saw a decrease of 1.3% between Quarter 4 2017 and Quarter 1 2018. This category includes the operating surplus, or profits, of private corporations, private non-financial corporations and public corporations.

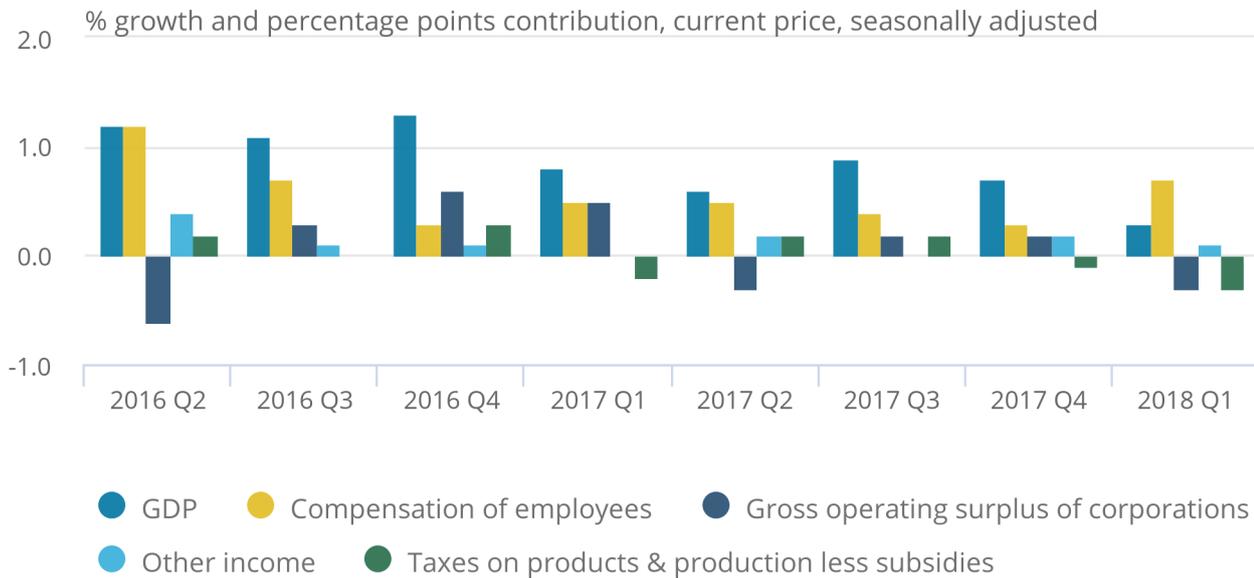
Figure 6 shows the contribution made by income components to current price GDP. In most quarters CoE provides the largest contribution to growth in the income measure of GDP, this component contributed 0.7 percentage points to current price GDP growth in Quarter 1 2018, while gross operating surplus of corporations, and taxes on products and production less subsidies deducted from GDP growth.

Figure 6: Income components percentage contribution to GDP growth for the UK, quarter-on-quarter

Quarter 2 (Apr to June) 2016 to Quarter 1 (Jan to Mar) 2018

Figure 6: Income components percentage contribution to GDP growth for the UK, quarter-on-quarter

Quarter 2 (Apr to June) 2016 to Quarter 1 (Jan to Mar) 2018



Source: Office for National Statistics

Notes:

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

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

The estimates quoted in this international comparison section are the latest available estimates at the time of preparation of this statistical bulletin and may subsequently have been revised. At the time of preparation, data for Canada were unavailable; therefore are not included in the following analysis.

Most of the areas included within our international comparisons witnessed positive growth in Quarter 1 (Jan to Mar) 2018 with the exception of Japan, which decreased by 0.2% (Table 2). The strongest growth seen in this quarter was 0.6% by the USA. France, Germany and Italy all saw growth of 0.3%.

European Union (EU28) economies grew by an average of 0.4% in Quarter 1 2018. This means that average gross domestic product (GDP) growth for this group of countries has been positive for 20 consecutive quarters. G7 countries saw an average of 0.4% growth in Quarter 1. All G7 countries are above pre-economic downturn peaks except for Italy whose GDP remains 5.5% below the pre-downturn peak (Quarter 1 2008).

The area currently showing the biggest recovery over this period is the USA, up 16.8% since the downturn. UK GDP is now 10.7% above the level recorded in Quarter 1 2008.

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, Quarter 1 (Jan to Mar) 2016 to Quarter 1 2018

	Chained volume measures, seasonally adjusted									
	EU28	EA19	G7	France	Germany	Italy	UK	Canada	Japan	USA
Q1 2016	0.5	0.5	0.4	0.6	0.6	0.3	0.2	0.6	0.8	0.1
Q2 2016	0.4	0.4	0.4	-0.1	0.5	0.1	0.5	-0.3	0.3	0.6
Q3 2016	0.4	0.4	0.5	0.2	0.3	0.2	0.5	1.1	0.2	0.7
Q4 2016	0.7	0.6	0.4	0.5	0.4	0.5	0.7	0.6	0.2	0.4
Q1 2017	0.7	0.6	0.5	0.7	0.9	0.5	0.3	1.0	0.7	0.3
Q2 2017	0.7	0.7	0.7	0.6	0.6	0.4	0.2	1.1	0.5	0.8
Q3 2017	0.7	0.7	0.7	0.5	0.7	0.4	0.5	0.4	0.5	0.8
Q4 2017	0.6	0.6	0.6	0.7	0.6	0.3	0.4	0.4	0.1	0.7
Q1 2018	0.4	0.5	0.4	0.3	0.3	0.3	0.1	..	-0.2	0.6

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

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

All data in this bulletin are seasonally adjusted estimates. Non-seasonally adjusted data are available within the UK Economic Accounts (UKEA). These data can be downloaded directly from the [UKEA dataset](#) and on the [UKEA main aggregates](#) dataset table. Data published in the UKEA reflect data as published on 29 March 2018 and will be next updated on 29 June 2018 when the Quarter 2 (Apr to June) 2018 quarterly national accounts release and UKEA will become consistent.

Economic context

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

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 25 May 2018.

Index of Services

The [Index of Services publication](#) was published on 25 May 2018 and includes data for March 2018.

9 . Are there any upcoming changes?

Blue Book 2018

The next quarterly national accounts (29 June 2018) release will be consistent with the UK National Accounts, The Blue Book 2018, which will be published on 31 July 2018. The annual Blue Book includes a number of improvements to data sources and methods; we have published a number of articles detailing these changes and their impact on the national accounts:

- an article discussing the [impact on GDP current price and chained volume measure annual and quarterly estimates: 1997 to 2016](#) was published on 8 May 2018; it provided estimates of the total impact of all the improvements to current price and chained volume measure (CVM or “real”) gross domestic product (GDP) up to 2016
- on 8 May 2018 we also published an article providing [UK trade data impact from new developments, 1997 to 2016](#); it contained an impact assessment of provisional UK trade data following implementation of new trade systems and subsequent developments

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

New model for publishing GDP

An article [introducing a new publication model for GDP](#) was published on 27 April 2018. It provided detail of the upcoming changes to the GDP publication model as well as the benefits and trade-offs and the impact on data content.

In summary, for the first time, an estimate of monthly GDP will be published on 10 July 2018 (for the reference period of May) and there will be two quarterly estimates of GDP per quarter rather than the current three; the preliminary estimate of GDP will be deferred by around two weeks and the second estimate of GDP will be brought forward by two weeks to form the new first estimate released six weeks after the end of the quarter. The income and expenditure approaches to GDP will be made available in this new first estimate, two weeks earlier than presently. The first estimate of quarterly GDP (for Quarter 2 (Apr to June) 2018) under this new model will be published on 10 August 2018.

Future of the Business investment provisional estimate

As of August 2018, the dedicated Business investment provisional results bulletin will no longer be produced. Gross fixed capital formation (GFCF) and business investment high-level commentary will be included instead within the new first quarterly estimate of GDP bulletin and the GDP publication tables will be expanded to include current price as well as chained volume measure data in all quarterly GDP releases. All other current business investment release material will be released approximately one week after the first quarterly estimate of GDP.

There are no plans currently to change the format and content of the Business investment revised results bulletin published alongside the quarterly national accounts other than the normal evolution of a bulletin.

Further information on this change can be found in the [Business investment January to March 2018 provisional results release](#).

International Passenger Survey

The International Passenger Survey (IPS) is in the process of transferring data collection from paper forms to tablet computers. Initial analysis of the new data suggests there may be discontinuities arising from the change in mode of collection. These new data will not be used in headline trade or other national accounts estimates until we have produced a consistent time series on the new basis. More information is available in the [Overseas travel and tourism release](#).

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.

Reaching the GDP balance

The different data content and quality of the three approaches – the output approach, the expenditure approach and the income approach – dictates the approach taken in balancing quarterly data. In the UK, there are more data available on output in the short-term than in either of the other two approaches. However, to obtain the best estimate of GDP (the published figure), the estimates from all three approaches are balanced to produce an average, except in the latest 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 a balanced GDP dataset through alignment, balancing adjustments are applied to the expenditure and income components of GDP as required. They are applied to the individual components where data content is particularly weak in a given quarter due to a higher level of forecast content.

The size and direction of the quarterly alignment adjustments in Quarter 1 2018 indicate that in this quarter the level of expenditure is higher than the level of output and income is lower than the level of output.

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

Table 3: Balancing adjustments applied to the Second Estimate of GDP dataset for Quarter 1 (Jan to Mar) 2018

GDP measurement approach and component adjustment applied to		Q1 2018
Expenditure		
Household final consumption expenditure	Current prices	-300
	Chained volume measure	-300
Trade in Services (imports)	Current prices	850
	Chained volume measure	850
Non-profit institutions serving households expenditure	Current price	-150
	Chained volume measure	-150
Income		
Private non-financial corporations	Current price	-500

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).

A1 Gross domestic product and gross value added¹

2015 = 100

	Value indices at current prices		Chained volume indices			Implied deflators ²		
	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
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	103.9	103.9	101.9	101.7	102.9	101.6	102.0	102.1
2017	107.9	107.8	103.8	103.5	105.2	103.6	104.0	104.1
Seasonally adjusted								
2014 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	102.0	101.1	100.9	101.5	100.5	101.0	101.0
Q2	103.3	103.3	101.6	101.4	102.4	101.3	101.7	101.9
Q3	104.5	104.5	102.1	101.9	103.2	102.1	102.3	102.6
Q4	105.8	105.7	102.9	102.7	104.3	102.5	102.9	102.9
2017 Q1	106.7	106.7	103.2	103.0	104.7	103.1	103.4	103.6
Q2	107.3	107.4	103.5	103.2	104.9	103.4	103.7	104.0
Q3	108.4	108.2	104.0	103.7	105.4	103.7	104.2	104.3
Q4	109.1	109.1	104.4	104.1	105.9	104.1	104.5	104.7
2018 Q1	109.5	109.8	104.5	104.2	105.9	104.4	104.8	105.3
Percentage change, latest year on previous year								
	IHYM	KGL6	IHYP	KGM7	L489	KH7D	IHYS	KGM4
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	3.9	3.9	1.9	1.7	2.9	1.6	2.0	2.1
2017	3.8	3.8	1.8	1.8	2.3	1.9	2.0	2.0
Percentage change, latest quarter on previous quarter								
	IHYN	KGL8	IHYQ	KGM9		KH7E	IHYT	KGM5
2014 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	1.5	1.4	0.2	0.2	0.7	1.1	1.3	1.3
Q2	1.2	1.3	0.5	0.5	0.9	0.7	0.7	0.8
Q3	1.1	1.2	0.5	0.5	0.8	0.9	0.6	0.7
Q4	1.3	1.1	0.7	0.7	1.0	0.3	0.5	0.3
2017 Q1	0.8	1.0	0.3	0.3	0.4	0.6	0.5	0.7
Q2	0.6	0.6	0.2	0.3	0.2	0.3	0.3	0.4
Q3	0.9	0.8	0.5	0.5	0.5	0.3	0.5	0.3
Q4	0.7	0.8	0.4	0.4	0.5	0.4	0.3	0.4
2018 Q1	0.3	0.7	0.1	0.1	0.1	0.3	0.2	0.6
Percentage change, latest quarter on corresponding quarter of previous year								
	IHYO	KGM2	IHYR	KGN3	L48D	KH7F	IHYU	KGM6
2014 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	3.4	3.1	1.9	1.6	2.2	0.9	1.4	1.5
Q2	3.0	2.9	1.8	1.5	2.6	0.5	1.2	1.4
Q3	4.2	4.3	2.0	1.8	3.1	1.9	2.2	2.4
Q4	5.2	5.1	2.0	1.9	3.5	3.1	3.1	3.1
2017 Q1	4.5	4.6	2.1	2.1	3.2	2.5	2.4	2.5
Q2	3.9	4.0	1.9	1.9	2.4	2.1	2.0	2.1
Q3	3.7	3.5	1.8	1.8	2.1	1.5	1.9	1.7
Q4	3.1	3.2	1.4	1.4	1.5	1.6	1.6	1.7
2018 Q1	2.6	2.9	1.2	1.2	1.2	1.3	1.4	1.7

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 added¹

£ million

	At current prices			Chained volume measures (Reference year 2015)			
	Gross domestic product at market prices	less Basic price adjustment ²	Gross value added at basic prices	Gross domestic product at market prices	less Basic price adjustment ²	Gross value added at basic prices	Gross value added excluding oil & gas ³
	YBHA	NTAP	ABML	ABMI	NTAO	ABMM	KLS2
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	1 963 311	213 485	1 749 826	1 925 299	211 541	1 713 758	1 697 908
2017	2 037 638	220 905	1 816 733	1 959 707	215 361	1 744 346	1 728 731
Seasonally adjusted							
2014 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	482 226	52 720	429 506	477 421	52 363	425 058	421 194
Q2	487 939	52 978	434 961	479 693	52 702	426 991	423 018
Q3	493 386	53 127	440 259	482 288	53 037	429 251	425 015
Q4	499 760	54 660	445 100	485 897	53 439	432 458	428 681
2017 Q1	503 945	54 483	449 462	487 422	53 605	433 817	429 920
Q2	506 852	54 646	452 206	488 624	53 709	434 915	431 004
Q3	511 649	55 954	455 695	490 876	53 925	436 951	432 932
Q4	515 192	55 822	459 370	492 785	54 122	438 663	434 875
2018 Q1	516 913	54 383	462 530	493 271	54 172	439 099	435 176
Percentage change, latest year on previous year							
	IHYM		KGL6	IHYM		KGM7	KLH8
2014	4.8		4.7	3.1		3.5	3.6
2015	2.8		2.8	2.3		2.5	2.4
2016	3.9		3.9	1.9		1.7	1.7
2017	3.8		3.8	1.8		1.8	1.8
Percentage change, latest quarter on previous quarter							
	IHYN		KGL8	IHYQ		KGM9	
2014 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	1.5		1.4	0.2		0.2	0.2
Q2	1.2		1.3	0.5		0.5	0.4
Q3	1.1		1.2	0.5		0.5	0.5
Q4	1.3		1.1	0.7		0.7	0.9
2017 Q1	0.8		1.0	0.3		0.3	0.3
Q2	0.6		0.6	0.2		0.3	0.3
Q3	0.9		0.8	0.5		0.5	0.4
Q4	0.7		0.8	0.4		0.4	0.4
2018 Q1	0.3		0.7	0.1		0.1	0.1
Percentage change, latest quarter on corresponding quarter of previous year							
	IHYO		KGM2	IHYR		KGN3	KLH9
2014 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	3.4		3.1	1.9		1.6	1.6
Q2	3.0		2.9	1.8		1.5	1.5
Q3	4.2		4.3	2.0		1.8	1.7
Q4	5.2		5.1	2.0		1.9	2.0
2017 Q1	4.5		4.6	2.1		2.1	2.1
Q2	3.9		4.0	1.9		1.9	1.9
Q3	3.7		3.5	1.8		1.8	1.9
Q4	3.1		3.2	1.4		1.4	1.4
2018 Q1	2.6		2.9	1.2		1.2	1.2

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

² Taxes on products less subsidies.

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

B1 Gross value added at chained volume measures basic prices, by category of output^{1,2}

2015 = 100

	Production						Service industries						Gross value added ⁴	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		
2015 Weights³	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
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	94.4	100.0	100.9	102.6	105.2	101.3	103.9	104.7	104.7	102.2	100.6	102.5	101.7	101.7
2017	94.0	99.5	103.5	101.8	107.7	103.2	109.8	106.6	108.3	104.0	100.6	104.1	103.5	103.5
Seasonally adjusted														
2014 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	95.1	97.8	99.8	99.8	102.7	99.8	101.2	103.0	102.6	101.4	100.9	101.7	100.9	100.9
Q2	94.1	100.2	101.2	105.4	105.4	101.9	102.8	103.9	103.0	102.0	100.6	102.0	101.4	101.3
Q3	93.9	105.5	100.6	101.0	105.8	101.4	104.1	105.1	105.8	102.5	100.5	102.9	101.9	101.8
Q4	94.6	96.5	102.1	104.1	107.0	102.2	107.4	106.8	107.4	103.0	100.2	103.4	102.7	102.7
2017 Q1	93.8	99.1	102.6	101.0	109.3	102.6	109.9	106.1	107.0	103.4	100.7	103.6	103.0	103.0
Q2	93.7	100.0	102.6	101.1	108.1	102.6	109.5	106.5	108.2	103.5	100.7	103.9	103.2	103.3
Q3	94.8	102.0	103.7	102.7	106.9	103.6	110.0	107.0	108.5	104.1	100.5	104.2	103.7	103.7
Q4	93.9	97.0	105.0	102.3	106.5	104.1	109.9	106.9	109.6	104.7	100.6	104.6	104.1	104.2
2018 Q1	92.6	99.2	105.2	104.9	105.4	104.7	106.9	106.9	110.0	105.2	100.7	104.9	104.2	104.3
Percentage change, latest year on previous year														
	L3BB	L3BH	L3BN	L3DM	L3DQ	L3BG	L3DW	L3GP	KI8L	KI8N	KI8P	L3E2	KGM7	KLH8
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	-5.6	-	0.9	2.6	5.2	1.3	3.9	4.7	4.7	2.2	0.6	2.5	1.7	1.7
2017	-0.4	-0.5	2.5	-0.8	2.3	1.9	5.7	1.8	3.5	1.7	0.1	1.5	1.8	1.8
Percentage change, latest quarter on previous quarter														
													KGM9	
2014 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	-4.0	-2.5	-	1.4	1.3	-	0.4	1.5	1.5	0.7	0.3	0.8	0.2	0.2
Q2	-1.0	2.4	1.4	5.6	2.7	2.1	1.6	0.9	0.4	0.5	-0.3	0.3	0.5	0.4
Q3	-0.2	5.3	-0.6	-4.2	0.3	-0.5	1.2	1.2	2.8	0.6	-	0.8	0.5	0.5
Q4	0.7	-8.5	1.5	3.1	1.2	0.8	3.2	1.6	1.5	0.4	-0.3	0.6	0.7	0.9
2017 Q1	-0.8	2.7	0.5	-3.0	2.1	0.4	2.4	-0.6	-0.3	0.4	0.5	0.2	0.3	0.3
Q2	-0.1	0.9	-	0.1	-1.1	-	-0.4	0.4	1.1	0.1	-	0.3	0.3	0.3
Q3	1.1	2.0	1.1	1.5	-1.1	1.0	0.4	0.5	0.3	0.5	-0.2	0.3	0.5	0.4
Q4	-1.0	-4.9	1.3	-0.4	-0.4	0.4	-0.1	-0.1	1.1	0.6	0.1	0.4	0.4	0.4
2018 Q1	-1.4	2.2	0.2	2.5	-1.0	0.6	-2.7	-0.1	0.4	0.4	0.1	0.3	0.1	0.1
Percentage change, latest quarter on corresponding quarter of previous year														
	L3ZZ	L427	L42D	L44C	L44G	L426	L44M	L47F	KI12	KI19	KI18	L44Q	KGN3	KLH9
2014 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	-5.0	4.2	-0.8	-1.9	5.9	0.1	1.8	4.5	4.0	2.1	1.3	2.5	1.6	1.6
Q2	-6.5	-1.9	1.2	5.9	4.5	1.7	2.8	4.3	3.3	2.2	0.6	2.3	1.5	1.5
Q3	-6.4	1.8	0.9	0.7	4.9	1.2	4.5	4.9	5.2	2.3	0.7	2.7	1.8	1.7
Q4	-4.4	-3.8	2.3	5.7	5.6	2.4	6.5	5.2	6.3	2.2	-0.4	2.5	1.9	2.0
2017 Q1	-1.3	1.3	2.9	1.2	6.4	2.8	8.6	3.0	4.3	2.0	-0.2	1.9	2.1	2.1
Q2	-0.4	-0.2	1.3	-4.1	2.5	0.6	6.5	2.5	5.0	1.6	0.1	1.8	1.9	1.9
Q3	0.9	-3.3	3.1	1.7	1.1	2.2	5.6	1.8	2.5	1.6	-0.1	1.3	1.8	1.9
Q4	-0.8	0.6	2.9	-1.7	-0.5	1.9	2.3	0.2	2.1	1.7	0.4	1.1	1.4	1.4
2018 Q1	-1.3	0.1	2.5	3.9	-3.5	2.0	-2.7	0.7	2.8	1.7	-	1.2	1.2	1.2

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

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

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

4 This is a balanced index of UK GVA taking into account data from the Income and Expenditure approaches. Thus it will not necessarily be the weighted sum of the industrial indices.

B2 Gross value added at chained volume measures basic prices, by category of output^{1,2}

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 ⁴	Total services
2015 Weights³	108	104	29	68	139	122	47	61	74	41	793
	L2NE	KI8M	L2NQ	L2O6	L2OC	L2OH	L2P8	L2PA	L2PC	L2Q5	L2NC
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	104.9	104.7	104.0	100.4	100.8	104.9	98.6	99.9	102.2	100.8	102.5
2017	107.0	108.3	105.4	100.3	101.6	108.6	99.1	101.1	102.7	98.0	104.1
Seasonally adjusted											
2014 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	103.4	102.6	101.8	99.8	101.1	102.6	99.0	100.1	102.3	101.6	101.7
Q2	104.1	103.0	103.3	100.0	100.8	104.4	98.5	99.8	102.3	101.1	102.0
Q3	105.1	105.8	105.1	101.2	100.6	105.5	98.5	99.6	102.3	101.2	102.9
Q4	107.1	107.4	105.7	100.5	100.6	106.9	98.5	100.0	102.0	99.3	103.4
2017 Q1	106.0	107.0	106.3	100.9	101.1	107.5	98.7	100.9	102.4	99.6	103.6
Q2	106.7	108.2	105.6	100.4	101.5	107.6	99.2	100.9	102.5	98.9	103.9
Q3	107.5	108.5	105.1	100.5	101.7	108.9	99.1	101.2	102.6	97.2	104.2
Q4	107.6	109.6	104.6	99.7	102.1	110.5	99.2	101.4	103.3	96.2	104.6
2018 Q1	107.6	110.0	104.3	100.0	102.3	111.3	99.0	101.5	103.6	96.5	104.9
Percentage change, latest year on previous year											
	L3E4	KI8L	L3EG	L3EU	L3F2	L3F7	L3FW	L3FY	L3G2	L3GT	L3E2
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	4.9	4.7	4.0	0.4	0.8	4.9	-1.4	-0.1	2.2	0.8	2.5
2017	2.0	3.5	1.4	-0.1	0.8	3.6	0.4	1.2	0.4	-2.8	1.5
Percentage change, latest quarter on previous quarter											
2014 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	2.0	1.5	-0.3	0.4	0.5	1.0	-0.2	-0.1	1.6	-1.0	0.8
Q2	0.7	0.4	1.6	0.2	-0.4	1.7	-0.5	-0.3	-	-0.5	0.3
Q3	1.0	2.8	1.7	1.2	-0.2	1.0	-	-0.2	-	0.1	0.8
Q4	1.8	1.5	0.6	-0.7	0.1	1.4	-	0.4	-0.3	-1.9	0.6
2017 Q1	-1.0	-0.3	0.6	0.3	0.4	0.5	0.2	1.0	0.4	0.2	0.2
Q2	0.7	1.1	-0.7	-0.4	0.4	0.1	0.5	-0.1	0.1	-0.7	0.3
Q3	0.7	0.3	-0.4	-	0.2	1.2	-0.1	0.3	0.1	-1.7	0.3
Q4	-	1.1	-0.5	-0.8	0.4	1.5	0.1	0.2	0.7	-1.0	0.4
2018 Q1	-	0.4	-0.3	0.3	0.2	0.7	-0.2	0.1	0.4	0.2	0.3
Percentage change, latest quarter on corresponding quarter of the previous year											
	L44S	KI12	L456	L45K	L45Q	L45V	L46M	L46O	L46Q	L47J	L44Q
2014 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	4.9	4.0	3.0	-2.6	2.3	4.6	-2.0	0.6	3.4	2.4	2.5
Q2	4.4	3.3	4.1	0.3	0.8	4.9	-1.9	-0.2	2.3	1.6	2.3
Q3	4.8	5.2	5.3	2.9	-	4.7	-0.9	-0.6	1.9	2.5	2.7
Q4	5.6	6.3	3.6	1.1	0.1	5.2	-0.7	-0.3	1.3	-3.2	2.5
2017 Q1	2.6	4.3	4.5	1.0	-	4.7	-0.3	0.8	0.2	-2.0	1.9
Q2	2.5	5.0	2.2	0.4	0.7	3.1	0.8	1.1	0.2	-2.2	1.8
Q3	2.3	2.5	-	-0.8	1.1	3.3	0.6	1.6	0.2	-3.9	1.3
Q4	0.5	2.1	-1.0	-0.9	1.5	3.4	0.7	1.4	1.2	-3.1	1.1
2018 Q1	1.4	2.8	-1.9	-0.9	1.2	3.6	0.4	0.5	1.2	-3.1	1.2

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

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

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

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

C1 Gross domestic product: expenditure at current market prices¹

£ million

National expenditure on goods and services at market prices

	Final consumption expenditure					Gross capital formation					Gross final expenditure less imports	Trade balance ⁶	Statistical discrepancy (expenditure)	Gross domestic product at market prices	
	Households	Non-profit institutions ²	General government	Gross fixed capital formation	Of which business investment ³	Change in inventories ⁴	Of which alignment adjustment	Acquisitions less disposals of valuables ⁵	Total exports	Total					
	ABJQ	HAYE	NMRP	NPQS	NPEK	CAEX	DMUN	NPJQ	YBIL	IKBH	ABMF	IKBI	IKBJ	GIXM	YBHA
2014	1 143 919	56 625	359 014	300 965	170 551	13 268	–	102 1	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 1	921 107	517 161	2 438 268	549 531	–32 370	–	1 888 737
2016	1 235 357	57 022	369 660	323 761	181 726	7 714	–	1 671 1	995 185	554 738	2 549 923	595 415	–40 677	8 803	1 963 311
2017	1 282 038	57 554	375 104	343 599	190 107	733	–	2 307 2	061 335	622 063	2 683 398	650 683	–28 620	4 923	2 037 638
Seasonally adjusted															
2014 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	302 573	14 248	91 666	78 956	44 973	2 194	885	733	490 370	129 958	620 328	139 716	–9 758	1 614	482 226
Q2	307 133	14 290	92 300	80 561	45 251	–217	–2 000	–792	493 275	136 799	630 074	144 426	–7 627	2 291	487 939
Q3	311 243	14 233	92 608	81 706	45 860	4 232	1 647	3 145	507 167	138 604	645 771	154 937	–16 333	2 552	493 386
Q4	314 408	14 251	93 086	82 538	45 642	1 505	–532	–1 415	504 373	149 377	653 750	156 336	–6 959	2 346	499 760
2017 Q1	317 747	14 299	93 261	83 337	46 883	2 265	123	–117	510 792	151 254	662 046	160 198	–8 944	2 097	503 945
Q2	319 163	14 384	93 997	85 581	47 188	–1 391	–2 728	584	512 318	154 393	666 711	161 242	–6 849	1 383	506 852
Q3	321 134	14 428	93 668	86 836	48 095	–735	542	695	516 026	158 280	674 306	163 468	–5 188	811	511 649
Q4	323 994	14 443	94 178	87 845	47 941	594	2 063	1 145	522 199	158 136	680 335	165 775	–7 639	632	515 192
2018 Q1	326 132	14 330	95 255	88 616	48 169	–935	–1 981	610	524 008	156 182	680 190	163 901	–7 719	624	516 913
Percentage change, latest year on previous year															
	KGZ7	KGZ8	KH2C	KG6O	KG6N				KGX3	KH2O	KGZ7	KH3H			IHYM
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	4.5	0.7	2.1	3.4	1.1				3.9	7.3	4.6	8.3			3.9
2017	3.8	0.9	1.5	6.1	4.6				3.3	12.1	5.2	9.3			3.8
Percentage change, latest quarter on previous quarter															
	KGZ8	KGZ9	KH2D	KG6W	KG6V				KGX4	KH2P	KGZ8	KH3I			IHYN
2014 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	0.9	0.2	1.6	1.6	1.3				1.4	0.3	1.2	1.4			1.5
Q2	1.5	0.3	0.7	2.0	0.6				0.6	5.3	1.6	3.4			1.2
Q3	1.3	–0.4	0.3	1.4	1.3				2.8	1.3	2.5	7.3			1.1
Q4	1.0	0.1	0.5	1.0	–0.5				–0.6	7.8	1.2	0.9			1.3
2017 Q1	1.1	0.3	0.2	1.0	2.7				1.3	1.3	1.3	2.5			0.8
Q2	0.4	0.6	0.8	2.7	0.7				0.3	2.1	0.7	0.7			0.6
Q3	0.6	0.3	–0.4	1.5	1.9				0.7	2.5	1.1	1.4			0.9
Q4	0.9	0.1	0.5	1.2	–0.3				1.2	–0.1	0.9	1.4			0.7
2018 Q1	0.7	–0.8	1.1	0.9	0.5				0.3	–1.2	–	–1.1			0.3
Percentage change, latest quarter on corresponding quarter of previous year															
	KGZ9	KH22	KH2E	KG76	KG75				KGX5	KH2Q	KGZ9	KH3J			IHYO
2014 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	3.9	0.7	2.0	–	–1.7				2.9	0.3	2.4	–			3.4
Q2	4.5	1.3	1.7	1.6	–0.5				2.9	4.6	3.3	5.8			3.0
Q3	4.8	0.7	1.5	5.8	4.1				5.3	8.9	6.0	14.4			4.2
Q4	4.8	0.2	3.2	6.2	2.8				4.3	15.3	6.6	13.4			5.2
2017 Q1	5.0	0.4	1.7	5.5	4.2				4.2	16.4	6.7	14.7			4.5
Q2	3.9	0.7	1.8	6.2	4.3				3.9	12.9	5.8	11.6			3.9
Q3	3.2	1.4	1.1	6.3	4.9				1.7	14.2	4.4	5.5			3.7
Q4	3.0	1.3	1.2	6.4	5.0				3.5	5.9	4.1	6.0			3.1
2018 Q1	2.6	0.2	2.1	6.3	2.7				2.6	3.3	2.7	2.3			2.6

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

2 Non-profit institutions serving households.

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

4 Quarterly alignment adjustment included in this series.

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

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

C2 Gross domestic product by category of expenditure: chained volume measures¹

Reference year 2015, £ 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 ⁶	Statistical discrepancy (expenditure)	Gross domestic product at market prices
	Households	Non-profit institutions ²	General government	Gross fixed capital formation	Of which business investment ³	Change in inventories ⁴	Of which alignment adjustment	Acquisitions less disposals of valuables ⁵	Total	less						
	ABJR	HAYO	NMRY	NPQT	NPEL	CAFU	DMUM	NPJR	YBIM	IKBK	ABMG	IKBL	IKBM	GIXS	ABMI	
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	1 218 393	56 546	365 112	318 779	178 835	3 153	-	1 602 1	963 585	529 172	2 492 757	576 084	-46 912	8 626	1 925 299	
2017	1 239 465	56 543	365 597	331 654	183 182	-5 084	-	2 276 1	990 451	559 138	2 549 589	594 626	-35 488	4 744	1 959 707	
Seasonally adjusted																
2014 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	300 668	14 153	91 441	77 963	44 191	2 795	874	697	487 717	129 066	616 783	140 960	-11 894	1 598	477 421	
Q2	303 899	14 150	91 209	79 510	44 518	-824	-1 967	-812	487 132	132 698	619 830	142 389	-9 691	2 252	479 693	
Q3	306 469	14 130	91 224	80 380	45 093	1 252	1 610	3 122	496 577	130 305	626 882	147 089	-16 784	2 495	482 288	
Q4	307 357	14 113	91 238	80 926	45 033	-70	-517	-1 405	492 159	137 103	629 262	145 646	-8 543	2 281	485 897	
2017 Q1	308 571	14 118	91 110	81 455	45 171	341	123	-120	495 475	136 893	632 368	146 974	-10 081	2 028	487 422	
Q2	309 393	14 144	91 403	82 824	45 728	-2 639	-2 625	581	495 706	139 450	635 156	147 865	-8 415	1 333	488 624	
Q3	310 336	14 147	91 337	83 242	46 083	-2 026	525	679	497 715	142 013	639 728	149 630	-7 617	778	490 876	
Q4	311 165	14 134	91 747	84 133	46 200	-760	1 977	1 136	501 555	140 782	642 337	150 157	-9 375	605	492 785	
2018 Q1	311 921	13 984	92 239	84 919	46 097	-1 762	-1 888	603	501 904	140 060	641 964	149 288	-9 228	595	493 271	
Percentage change, latest year on previous year																
	KGZ5	KH26	KH2I	KG7N	KG7M			KGX9	KH2U	KGW5	KH3N				IHP	
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	3.1	-0.1	0.8	1.8	-0.5			2.2	2.3	2.2	4.8				1.9	
2017	1.7	-	0.1	4.0	2.4			1.4	5.7	2.3	3.2				1.8	
Percentage change, latest quarter on previous quarter																
	KGZ6	KH27	KH2J	KG7Q	KG7P			KGY2	KH2V	KGW6	KH3O				IHYQ	
2014 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	-0.5	1.0	0.7	-			0.3	-1.5	-0.1	0.2				0.2	
Q2	1.1	-	-0.3	2.0	0.7			-0.1	2.8	0.5	1.0				0.5	
Q3	0.8	-0.1	-	1.1	1.3			1.9	-1.8	1.1	3.3				0.5	
Q4	0.3	-0.1	-	0.7	-0.1			-0.9	5.2	0.4	-1.0				0.7	
2017 Q1	0.4	-	-0.1	0.7	0.3			0.7	-0.2	0.5	0.9				0.3	
Q2	0.3	0.2	0.3	1.7	1.2			-	1.9	0.4	0.6				0.2	
Q3	0.3	-	-0.1	0.5	0.8			0.4	1.8	0.7	1.2				0.5	
Q4	0.3	-0.1	0.4	1.1	0.3			0.8	-0.9	0.4	0.4				0.4	
2018 Q1	0.2	-1.1	0.5	0.9	-0.2			0.1	-0.5	-0.1	-0.6				0.1	
Percentage change, latest quarter on corresponding quarter of previous year																
	KGZ7	KH28	KH2K	KG7T	KG7S			KGY3	KH2W	KGW7	KH3P				IHYR	
2014 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	0.2	1.6	-0.9	-3.1			2.0	1.3	1.8	2.6				1.9	
Q2	3.3	-0.5	0.7	-0.4	-2.6			2.3	2.1	2.3	5.3				1.8	
Q3	3.1	0.6	0.4	4.0	2.1			3.3	1.3	2.9	7.9				2.0	
Q4	3.0	-0.8	0.7	4.6	1.9			1.2	4.6	2.0	3.6				2.0	
2017 Q1	2.6	-0.2	-0.4	4.5	2.2			1.6	6.1	2.5	4.3				2.1	
Q2	1.8	-	0.2	4.2	2.7			1.8	5.1	2.5	3.8				1.9	
Q3	1.3	0.1	0.1	3.6	2.2			0.2	9.0	2.0	1.7				1.8	
Q4	1.2	0.1	0.6	4.0	2.6			1.9	2.7	2.1	3.1				1.4	
2018 Q1	1.1	-0.9	1.2	4.3	2.0			1.3	2.3	1.5	1.6				1.2	

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

2 Non-profit institutions serving households.

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

4 Quarterly alignment adjustment included in this series.

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

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

D Gross domestic product by category of income: current prices¹

£ million

	Compen- sation of employees	Gross operating surplus of corporations ^{2,3}	Of which alignment adjustment	Other income ⁴	Gross value added at factor cost	Taxes on products & production less subsidies	Statistical discrepancy (income)	Gross domestic product at market prices
	DTWM	CGBZ	DMUQ	CGBX	CGCB	CMVL	GIXQ	YBHA
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	968 898	417 223	–	334 991	1 721 112	239 568	2 631	1 963 311
2017	1 008 635	433 795	–	341 692	1 784 122	246 189	7 327	2 037 638
Seasonally adjusted								
2014 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	235 851	104 946	1 988	82 135	422 932	58 974	320	482 226
Q2	241 614	102 242	–2 002	83 843	427 699	59 704	536	487 939
Q3	244 928	103 544	–1 746	84 369	432 841	59 784	761	493 386
Q4	246 505	106 491	1 760	84 644	437 640	61 106	1 014	499 760
2017 Q1	248 948	108 854	1 594	84 497	442 299	60 298	1 348	503 945
Q2	251 341	107 207	–2 255	85 235	443 783	61 334	1 735	506 852
Q3	253 296	108 380	–738	85 470	447 146	62 452	2 051	511 649
Q4	255 050	109 354	1 399	86 490	450 894	62 105	2 193	515 192
2018 Q1	259 253	107 899	1 749	86 915	454 067	60 627	2 219	516 913
Percentage change, latest year on previous year								
	KG13	KH4V		KH6T	KH6N	KH65		IHYM
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	4.2	2.6		4.0	3.8	4.2		3.9
2017	4.1	4.0		2.0	3.7	2.8		3.8
Percentage change, latest quarter on previous quarter								
	KG14	KH4W		KH6U	KH6O	KH66		IHYN
2014 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	0.2	5.0		0.7	1.5	1.0		1.5
Q2	2.4	–2.6		2.1	1.1	1.2		1.2
Q3	1.4	1.3		0.6	1.2	0.1		1.1
Q4	0.6	2.8		0.3	1.1	2.2		1.3
2017 Q1	1.0	2.2		–0.2	1.1	–1.3		0.8
Q2	1.0	–1.5		0.9	0.3	1.7		0.6
Q3	0.8	1.1		0.3	0.8	1.8		0.9
Q4	0.7	0.9		1.2	0.8	–0.6		0.7
2018 Q1	1.6	–1.3		0.5	0.7	–2.4		0.3
Percentage change, latest quarter on corresponding quarter of previous year								
	KG15	KH4X		KH6V	KH6P	KH67		IHYO
2014 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	2.6	2.7		4.6	3.0	5.7		3.4
Q2	4.3	–1.9		4.7	2.8	3.7		3.0
Q3	5.0	3.2		3.1	4.2	2.9		4.2
Q4	4.8	6.5		3.7	5.0	4.7		5.2
2017 Q1	5.6	3.7		2.9	4.6	2.2		4.5
Q2	4.0	4.9		1.7	3.8	2.7		3.9
Q3	3.4	4.7		1.3	3.3	4.5		3.7
Q4	3.5	2.7		2.2	3.0	1.6		3.1
2018 Q1	4.1	–0.9		2.9	2.7	0.5		2.6

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

2 Quarterly alignment adjustment included in this series.

3 Includes the operating surplus of financial corporations, private non-financial corporations and public corporations.

4 Includes mixed income and the operating surplus of the non-corporate sector.

H1 Exports and imports of goods and services

Current market prices

£ million

	Exports			Imports			Balance		
	Goods	Services	Total	Goods	Services	Total	Goods	Services	Total ¹
	BOKG	IKBB	IKBH	BOKH	IKBC	IKBI	BOKI	IKBD	IKBJ
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	252 671	554 738	437 562	157 853	595 415	-135 495	94 818	-40 677
2017	342 479	279 584	622 063	478 061	172 622	650 683	-135 582	106 962	-28 620
Seasonally adjusted									
2014 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	69 916	60 042	129 958	101 935	37 781	139 716	-32 019	22 261	-9 758
Q2	74 991	61 808	136 799	105 626	38 800	144 426	-30 635	23 008	-7 627
Q3	74 951	63 653	138 604	114 720	40 217	154 937	-39 769	23 436	-16 333
Q4	82 209	67 168	149 377	115 281	41 055	156 336	-33 072	26 113	-6 959
2017 Q1	83 369	67 885	151 254	117 816	42 382	160 198	-34 447	25 503	-8 944
Q2	85 865	68 528	154 393	118 391	42 851	161 242	-32 526	25 677	-6 849
Q3	87 512	70 768	158 280	120 381	43 087	163 468	-32 869	27 681	-5 188
Q4	85 733	72 403	158 136	121 473	44 302	165 775	-35 740	28 101	-7 639
2018 Q1	85 762	70 420	156 182	120 366	43 535	163 901	-34 604	26 885	-7 719
Percentage change, latest year on previous year									
	KG9K	KH35	KH2O	KG9L	KH3W	KH3H			
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	10.6	7.3	7.4	11.1	8.3			
2017	13.4	10.7	12.1	9.3	9.4	9.3			
Percentage change, latest quarter on previous quarter									
	KG9O	KH36	KH2P	KG9P	KH3X	KH3I			
2014 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	-1.7	2.7	0.3	1.0	2.4	1.4			
Q2	7.3	2.9	5.3	3.6	2.7	3.4			
Q3	-0.1	3.0	1.3	8.6	3.7	7.3			
Q4	9.7	5.5	7.8	0.5	2.1	0.9			
2017 Q1	1.4	1.1	1.3	2.2	3.2	2.5			
Q2	3.0	0.9	2.1	0.5	1.1	0.7			
Q3	1.9	3.3	2.5	1.7	0.6	1.4			
Q4	-2.0	2.3	-0.1	0.9	2.8	1.4			
2018 Q1	-	-2.7	-1.2	-0.9	-1.7	-1.1			
Percentage change, latest quarter on corresponding quarter of previous year									
	KG9S	KH37	KH2Q	KG9T	KH3Y	KH3J			
2014 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	-3.1	4.5	0.3	-3.3	10.1	-			
Q2	0.7	9.9	4.6	4.3	10.1	5.8			
Q3	5.5	13.2	8.9	14.9	12.7	14.4			
Q4	15.6	14.9	15.3	14.2	11.3	13.4			
2017 Q1	19.2	13.1	16.4	15.6	12.2	14.7			
Q2	14.5	10.9	12.9	12.1	10.4	11.6			
Q3	16.8	11.2	14.2	4.9	7.1	5.5			
Q4	4.3	7.8	5.9	5.4	7.9	6.0			
2018 Q1	2.9	3.7	3.3	2.2	2.7	2.3			

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

H2 Exports and imports of goods and services

Chained volume measures

Reference year 2015, £ million

	Exports			Imports			Balance
	Goods	Services	Total	Goods	Services	Total	Total ¹
	BQKQ	IKBE	IKBK	BQKO	IKBF	IKBL	IKBM
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	242 935	529 172	425 684	150 400	576 084	-46 912
2017	306 642	252 496	559 138	439 911	154 715	594 626	-35 488
Seasonally adjusted							
2014 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	70 446	58 620	129 066	103 159	37 801	140 960	-11 894
Q2	72 763	59 935	132 698	104 574	37 815	142 389	-9 691
Q3	69 168	61 137	130 305	109 814	37 275	147 089	-16 784
Q4	73 860	63 243	137 103	108 137	37 509	145 646	-8 543
2017 Q1	74 715	62 178	136 893	108 912	38 062	146 974	-10 081
Q2	77 519	61 931	139 450	109 469	38 396	147 865	-8 415
Q3	78 470	63 543	142 013	110 986	38 644	149 630	-7 617
Q4	75 938	64 844	140 782	110 544	39 613	150 157	-9 375
2018 Q1	76 037	64 023	140 060	110 186	39 102	149 288	-9 228
Percentage change, latest year on previous year							
	KG9X	KH3B	KH2U	KG9W	KH44	KH3N	
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	6.4	2.3	4.5	5.8	4.8	
2017	7.1	3.9	5.7	3.3	2.9	3.2	
Percentage change, latest quarter on previous quarter							
	KGA2	KH3C	KH2V	KG9Z	KH45	KH3O	
2014 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	-3.8	1.7	-1.5	-0.5	2.3	0.2	
Q2	3.3	2.2	2.8	1.4	-	1.0	
Q3	-4.9	2.0	-1.8	5.0	-1.4	3.3	
Q4	6.8	3.4	5.2	-1.5	0.6	-1.0	
2017 Q1	1.2	-1.7	-0.2	0.7	1.5	0.9	
Q2	3.8	-0.4	1.9	0.5	0.9	0.6	
Q3	1.2	2.6	1.8	1.4	0.6	1.2	
Q4	-3.2	2.0	-0.9	-0.4	2.5	0.4	
2018 Q1	0.1	-1.3	-0.5	-0.3	-1.3	-0.6	
Percentage change, latest quarter on corresponding quarter of previous year							
	KGA5	KH3D	KH2W	KGA4	KH46	KH3P	
2014 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	0.4	2.0	1.3	-0.1	11.3	2.6	
Q2	-0.7	5.7	2.1	5.0	5.9	5.3	
Q3	-4.0	8.1	1.3	8.9	4.9	7.9	
Q4	0.9	9.7	4.6	4.3	1.5	3.6	
2017 Q1	6.1	6.1	6.1	5.6	0.7	4.3	
Q2	6.5	3.3	5.1	4.7	1.5	3.8	
Q3	13.4	3.9	9.0	1.1	3.7	1.7	
Q4	2.8	2.5	2.7	2.2	5.6	3.1	
2018 Q1	1.8	3.0	2.3	1.2	2.7	1.6	

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

Gross value added at basic prices: individual measures

	£ million				Index numbers (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 ¹	Expenditure-based estimate	Income-based estimate	Expenditure-based estimate	Income-based estimate ²	Output-based estimate
	CAGR	CAGQ	CAGS	DJDS	IHYA	IHYB	IHYC	IHYD	YBFR
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	1 705 132	1 741 023	1 747 195	–6 172	103.3	103.7	101.2	101.6	102.4
2017	1 739 602	1 811 810	1 809 406	2 404	107.5	107.4	103.2	103.1	104.2
Seasonally adjusted									
2014 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	423 460	427 892	429 186	–1 294	101.6	101.9	100.5	100.8	101.4
Q2	424 739	432 670	434 425	–1 755	102.7	103.1	100.8	101.2	102.0
Q3	426 756	437 707	439 498	–1 791	103.9	104.3	101.3	101.7	102.7
Q4	430 177	442 754	444 086	–1 332	105.1	105.4	102.1	102.4	103.4
2017 Q1	431 789	447 365	448 114	–749	106.2	106.4	102.5	102.7	103.8
Q2	433 582	450 823	450 471	352	107.0	106.9	102.9	102.9	104.0
Q3	436 173	454 884	453 644	1 240	108.0	107.7	103.5	103.3	104.4
Q4	438 058	458 738	457 177	1 561	108.9	108.5	104.0	103.6	104.8
2018 Q1	438 504	461 906	460 311	1 595	109.7	109.3	104.1	103.7	104.9
Percentage change, latest year on previous year									
	KH4D	KH47	KH68		KH47	KH68	KH4D	KH6E	GDPQ
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	1.2	3.3	3.7		3.3	3.7	1.2	1.6	2.4
2017	2.0	4.1	3.6		4.1	3.6	2.0	1.5	1.8
Percentage change, latest quarter on previous quarter									
	KH4F	KH49	KH6A		KH49	KH6A	KH4F	KH6G	
2014 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	–0.2	1.0	1.3		1.0	1.3	–0.2	0.1	0.6
Q2	0.3	1.1	1.2		1.1	1.2	0.3	0.4	0.7
Q3	0.5	1.2	1.2		1.2	1.2	0.5	0.5	0.6
Q4	0.8	1.2	1.0		1.2	1.0	0.8	0.7	0.8
2017 Q1	0.4	1.0	0.9		1.0	0.9	0.4	0.2	0.3
Q2	0.4	0.8	0.5		0.8	0.5	0.4	0.2	0.2
Q3	0.6	0.9	0.7		0.9	0.7	0.6	0.4	0.4
Q4	0.4	0.8	0.8		0.8	0.8	0.4	0.4	0.4
2018 Q1	0.1	0.7	0.7		0.7	0.7	0.1	0.1	0.1
Percentage change, latest quarter on corresponding quarter of previous year									
	KH4H	KH4B	KH6C		KH4B	KH6C	KH4H	KH6I	GDPR
2014 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	1.2	2.7	3.0		2.7	3.0	1.2	1.5	2.1
Q2	1.0	2.4	2.8		2.4	2.8	1.0	1.4	2.2
Q3	1.3	3.7	4.1		3.7	4.1	1.3	1.7	2.6
Q4	1.4	4.5	4.9		4.5	4.9	1.4	1.7	2.7
2017 Q1	2.0	4.6	4.4		4.6	4.4	2.0	1.8	2.4
Q2	2.1	4.2	3.7		4.2	3.7	2.1	1.6	1.9
Q3	2.2	3.9	3.2		3.9	3.2	2.2	1.5	1.7
Q4	1.8	3.6	2.9		3.6	2.9	1.8	1.2	1.3
2018 Q1	1.6	3.3	2.7		3.3	2.7	1.6	1.0	1.1

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)	
Seasonally adjusted			
2014 Q4	DMUN 1 844	DMUM 1 857	DMUQ -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	885	874	1 988
Q2	-2 000	-1 967	-2 002
Q3	1 647	1 610	-1 746
Q4	-532	-517	1 760
2017 Q1	123	123	1 594
Q2	-2 728	-2 625	-2 255
Q3	542	525	-738
Q4	2 063	1 977	1 399
2018 Q1	-1 981	-1 888	1 749

N Selected financial year variables 1,2

£ millions except deflator index which is 2017/2018 = 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 ^{3 4}
	YBHA	BKTL	ABML	NMRP	RPZG	ABMI	ABMM	NMRY	DLWF	L8GG
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	95.5527
2015/16	1 904 634	1 902 281	1 697 851	363 855	49 183	1 897 832	1 691 636	363 492	49 252	96.1971
2016/17	1 985 030	1 986 101	1 769 782	371 255	51 689	1 935 300	1 722 517	364 781	51 086	98.3132
2017/18	2 050 606	2 051 727	1 829 801	377 098	57 062	1 965 556	1 749 628	366 726	55 211	100.0000
Seasonally adjusted										
2014 Q4	463 704	468 248	413 368	89 828	12 984	466 727	417 178	90 046	12 998	95.2329
2015 Q1	466 329	468 762	416 592	89 873	13 043	468 326	418 359	90 011	12 887	95.4451
Q2	473 601	467 433	422 710	90 743	12 928	471 018	420 702	90 592	13 159	96.3794
Q3	473 571	470 754	422 126	91 264	12 342	472 980	421 478	90 892	12 339	95.9736
Q4	475 236	481 788	423 509	90 182	11 975	476 413	424 398	90 567	11 902	95.6170
2016 Q1	482 226	482 306	429 506	91 666	11 938	477 421	425 058	91 441	11 852	96.8185
Q2	487 939	484 790	434 961	92 300	13 142	479 693	426 991	91 209	13 102	97.5015
Q3	493 386	491 428	440 259	92 608	13 311	482 288	429 251	91 224	13 129	98.0595
Q4	499 760	504 787	445 100	93 086	13 281	485 897	432 458	91 238	12 844	98.5886
2017 Q1	503 945	505 096	449 462	93 261	11 955	487 422	433 817	91 110	12 011	99.1031
Q2	506 852	505 346	452 206	93 997	14 266	488 624	434 915	91 403	13 652	99.4296
Q3	511 649	508 125	455 695	93 668	13 532	490 876	436 951	91 337	13 292	99.9102
Q4	515 192	519 071	459 370	94 178	14 553	492 785	438 663	91 747	13 910	100.2123
2018 Q1	516 913	519 185	462 530	95 255	14 711	493 271	439 099	92 239	14 357	100.4480
Percentage change, latest financial year on previous financial year										
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	-3.1	2.1	2.1	0.8	-3.7	0.7
2016/17	4.2	4.4	4.2	2.0	5.1	2.0	1.8	0.4	3.7	2.2
2017/18	3.3	3.3	3.4	1.6	10.4	1.6	1.6	0.5	8.1	1.7
Percentage change, latest quarter on previous quarter										
	IHYN	A8L9	KGL8	KH2D	KH7P	IHYQ	KGM9	KH2J	KH9C	L8GH
2014 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	1.5	0.1	1.4	1.6	-0.3	0.2	0.2	1.0	-0.4	1.3
Q2	1.2	0.5	1.3	0.7	10.1	0.5	0.5	-0.3	10.5	0.7
Q3	1.1	1.4	1.2	0.3	1.3	0.5	0.5	-	0.2	0.6
Q4	1.3	2.7	1.1	0.5	-0.2	0.7	0.7	-	-2.2	0.5
2017 Q1	0.8	0.1	1.0	0.2	-10.0	0.3	0.3	-0.1	-6.5	0.5
Q2	0.6	-	0.6	0.8	19.3	0.2	0.3	0.3	13.7	0.3
Q3	0.9	0.5	0.8	-0.4	-5.1	0.5	0.5	-0.1	-2.6	0.5
Q4	0.7	2.2	0.8	0.5	7.5	0.4	0.4	0.4	4.6	0.3
2018 Q1	0.3	-	0.7	1.1	1.1	0.1	0.1	0.5	3.2	0.2
Percentage change, latest quarter on corresponding quarter of previous year										
	IHYO	A8LA	KGM2	KH2E	KH7R	IHYR	KGN3	KH2K	KH9M	L8GI
2014 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	3.4	2.9	3.1	2.0	-8.5	1.9	1.6	1.6	-8.0	1.4
Q2	3.0	3.7	2.9	1.7	1.7	1.8	1.5	0.7	-0.4	1.2
Q3	4.2	4.4	4.3	1.5	7.9	2.0	1.8	0.4	6.4	2.2
Q4	5.2	4.8	5.1	3.2	10.9	2.0	1.9	0.7	7.9	3.1
2017 Q1	4.5	4.7	4.6	1.7	0.1	2.1	2.1	-0.4	1.3	2.4
Q2	3.9	4.2	4.0	1.8	8.6	1.9	1.9	0.2	4.2	2.0
Q3	3.7	3.4	3.5	1.1	1.7	1.8	1.8	0.1	1.2	1.9
Q4	3.1	2.8	3.2	1.2	9.6	1.4	1.4	0.6	8.3	1.6
2018 Q1	2.6	2.8	2.9	2.1	23.1	1.2	1.2	1.2	19.5	1.4

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

2 All data are seasonally adjusted unless otherwise specified.

3 Implied deflator is expressed in terms of 2017/2018 = 100 for presentational purposes, whereas in table A1 it is expressed as 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.

Selected implied deflators¹

2016 = 100

	Implied deflators ²		
	Gross national expenditure	Gross domestic product at market prices ³	Gross value added at basic prices
	MNE2	MNF2	MNX5
2014	96.4875	95.7391	95.7094
2015	96.5657	96.1771	96.0169
2016	98.1126	98.0718	98.0337
2017	100.0000	100.0000	100.0000
Seasonally adjusted			
2014 Q4	96.2512	95.5542	95.1402
2015 Q1	96.1782	95.7670	95.6116
Q2	97.2461	96.7046	96.4754
Q3	96.8107	96.2973	96.1647
Q4	96.0277	95.9395	95.8160
2016 Q1	97.0882	97.1451	97.0219
Q2	97.7807	97.8305	97.8093
Q3	98.6223	98.3903	98.4795
Q4	98.9594	98.9212	98.8240
2017 Q1	99.5481	99.4374	99.4799
Q2	99.7990	99.7650	99.8345
Q3	100.1155	100.2472	100.1360
Q4	100.5375	100.5503	100.5496
2018 Q1	100.8156	100.7868	101.1408
Percentage change, latest year on previous year			
	MNE3	MNF3	MNX6
2014	1.2	1.7	1.2
2015	0.1	0.5	0.3
2016	1.6	2.0	2.1
2017	1.9	2.0	2.0
Percentage change, latest quarter on previous quarter			
	MNE4	MNF4	MNX7
2014 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	0.7	0.8
Q3	0.9	0.6	0.7
Q4	0.3	0.5	0.3
2017 Q1	0.6	0.5	0.7
Q2	0.3	0.3	0.4
Q3	0.3	0.5	0.3
Q4	0.4	0.3	0.4
2018 Q1	0.3	0.2	0.6
Percentage change, latest quarter on corresponding quarter of previous year			
	MNE5	MNF5	MNX8
2014 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	0.5	1.2	1.4
Q3	1.9	2.2	2.4
Q4	3.1	3.1	3.1
2017 Q1	2.5	2.4	2.5
Q2	2.1	2.0	2.1
Q3	1.5	1.9	1.7
Q4	1.6	1.6	1.7
2018 Q1	1.3	1.4	1.7

1 Implied deflator is expressed in terms of 2016 = 100, whereas in table A1 it is expressed as 2015 = 100.

2 Data are only considered accurate to 1 decimal place.

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

P GDP Per Head¹

£

	UK resident population mid-year estimates (persons thousands) ²	Current Prices		Chained volume measures (Reference year 2015)	
		Gross domestic product at market prices ³	Gross domestic product per head ⁴	Gross domestic product at market prices ³	Gross domestic product per head
	EBAQ	YBHA	IHXT	ABMI	IHXW
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	1 963 311	29 907	1 925 299	29 328
2017	66 051	2 037 638	30 849	1 959 707	29 670
Seasonally adjusted					
2014 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	482 226	7 361	477 421	7 287
Q2	65 648	487 939	7 433	479 693	7 307
Q3	65 749	493 386	7 504	482 288	7 335
Q4	65 850	499 760	7 589	485 897	7 379
2017 Q1	65 951	503 945	7 641	487 422	7 391
Q2	66 051	506 852	7 674	488 624	7 398
Q3	66 155	511 649	7 734	490 876	7 420
Q4	66 258	515 192	7 776	492 785	7 437
2018 Q1	66 362	516 913	7 789	493 271	7 433
Percentage change, latest year on previous year					
		IHYM	N3Y3	IHYP	N3Y6
2014		4.8	4.0	3.1	2.3
2015		2.8	2.0	2.3	1.5
2016		3.9	3.1	1.9	1.1
2017		3.8	3.1	1.8	1.2
Percentage change, latest quarter on previous quarter					
		IHYN	N3Y4	IHYQ	N3Y7
2014 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		1.5	1.2	0.2	-0.1
Q2		1.2	1.0	0.5	0.3
Q3		1.1	1.0	0.5	0.4
Q4		1.3	1.1	0.7	0.6
2017 Q1		0.8	0.7	0.3	0.2
Q2		0.6	0.4	0.2	0.1
Q3		0.9	0.8	0.5	0.3
Q4		0.7	0.5	0.4	0.2
2018 Q1		0.3	0.2	0.1	-0.1
Percentage change, latest quarter on corresponding quarter of previous year					
		IHYO	N3Y5	IHYR	N3Y8
2014 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		3.4	2.6	1.9	1.1
Q2		3.0	2.2	1.8	1.0
Q3		4.2	3.4	2.0	1.2
Q4		5.2	4.3	2.0	1.2
2017 Q1		4.5	3.8	2.1	1.4
Q2		3.9	3.2	1.9	1.2
Q3		3.7	3.1	1.8	1.2
Q4		3.1	2.5	1.4	0.8
2018 Q1		2.6	1.9	1.2	0.6

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

4 Due to a small processing error, the GDP per head current price series has been revised. Revisions affect annual data only. Headline GDP per head in chained volume measures, quarterly levels and growth rates of the current price series are unaffected.



Annex A - Growth and contributions to growth - output components of GDP^{1,2}

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
Percentage change, latest year on previous year												
Growth												
2015	L3BB 1.2	L3BG 1.2	L3BH 8.1	L3BN -	L3DM 1.0	L3DQ 3.4	L3DW 4.4	L3E2 2.6	L3GP 4.7	KI8L 4.0	KI8N 2.4	KI8P 0.9
2016	-5.6	1.3	-	0.9	2.6	5.2	3.9	2.5	4.7	4.7	2.2	0.6
2017	-0.4	1.9	-0.5	2.5	-0.8	2.3	5.7	1.5	1.8	3.5	1.7	0.1
Contributions to growth												
2015	ZZ3V -	ZZ3W 0.2	ZZ3Y 0.1	ZZ3X -	ZZ3Z -	ZZ42 -	ZZ43 0.3	ZZ44 2.0	ZZ45 0.6	ZZ46 0.4	ZZ47 0.8	ZZ48 0.2
2016	-	0.2	-	0.1	-	0.1	0.2	2.0	0.6	0.5	0.7	0.1
2017	-	0.3	-	0.3	-	-	0.4	1.2	0.3	0.4	0.6	-
Percentage change, latest quarter on previous quarter												
Growth												
2015 Q3	L3BB -0.3	L3BG -	L3BH 1.4	L3BN -0.4	L3DM 0.7	L3DQ -	L3DW -0.4	L3E2 0.4	L3GP 0.6	KI8L 0.9	KI8N 0.4	KI8P -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	-4.0	-	-2.5	-	1.4	1.3	0.4	0.8	1.5	1.5	0.7	0.3
Q2	-1.0	2.1	2.4	1.4	5.6	2.7	1.6	0.3	0.9	0.4	0.5	-0.3
Q3	-0.2	-0.5	5.3	-0.6	-4.2	0.3	1.2	0.8	1.2	2.8	0.6	-
Q4	0.7	0.8	-8.5	1.5	3.1	1.2	3.2	0.6	1.6	1.5	0.4	-0.3
2017 Q1	-0.8	0.4	2.7	0.5	-3.0	2.1	2.4	0.2	-0.6	-0.3	0.4	0.5
Q2	-0.1	-	0.9	-	0.1	-1.1	-0.4	0.3	0.4	1.1	0.1	-
Q3	1.1	1.0	2.0	1.1	1.5	-1.1	0.4	0.3	0.5	0.3	0.5	-0.2
Q4	-1.0	0.4	-4.9	1.3	-0.4	-0.4	-0.1	0.4	-0.1	1.1	0.6	0.1
2018 Q1	-1.4	0.6	2.2	0.2	2.5	-1.0	-2.7	0.3	-0.1	0.4	0.4	0.1
Contributions to growth												
2015 Q3	ZZ2F -	ZZ2G -	ZZ2I -	ZZ2H -	ZZ2J -	ZZ2K -	ZZ2L -	ZZ2M 0.3	ZZ2N 0.1	ZZ2O 0.1	ZZ2P 0.1	ZZ2Q -
Q4	-	-0.1	-0.1	-	-	-	0.1	0.6	0.2	0.1	0.2	0.2
2016 Q1	-	-	-	-	-	-	-	0.6	0.2	0.2	0.2	0.1
Q2	-	0.3	-	0.1	0.1	-	0.1	0.3	0.1	-	0.2	-0.1
Q3	-	-0.1	0.1	-0.1	-0.1	-	0.1	0.6	0.2	0.3	0.2	-
Q4	-	0.1	-0.1	0.1	0.1	-	0.2	0.5	0.2	0.2	0.1	-0.1
2017 Q1	-	0.1	-	0.1	-	-	0.1	0.1	-0.1	-	0.1	0.1
Q2	-	-	-	-	-	-	-	0.2	0.1	0.1	-	-
Q3	-	0.1	-	0.1	-	-	-	0.2	0.1	-	0.2	-0.1
Q4	-	0.1	-0.1	0.1	-	-	-	0.3	-	0.1	0.2	-
2018 Q1	-	0.1	-	-	-	-	-0.2	0.2	-	-	0.1	-
Percentage change, latest quarter on corresponding quarter of previous year												
Growth												
2015 Q3	L3ZZ 0.7	L426 1.2	L427 13.1	L42D -0.7	L44C -1.0	L44G 5.7	L44M 2.2	L44Q 2.3	L47F 4.5	KII2 3.9	KIH9 2.1	KIH8 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	-5.0	0.1	4.2	-0.8	-1.9	5.9	1.8	2.5	4.5	4.0	2.1	1.3
Q2	-6.5	1.7	-1.9	1.2	5.9	4.5	2.8	2.3	4.3	3.3	2.2	0.6
Q3	-6.4	1.2	1.8	0.9	0.7	4.9	4.5	2.7	4.9	5.2	2.3	0.7
Q4	-4.4	2.4	-3.8	2.3	5.7	5.6	6.5	2.5	5.2	6.3	2.2	-0.4
2017 Q1	-1.3	2.8	1.3	2.9	1.2	6.4	8.6	1.9	3.0	4.3	2.0	-0.2
Q2	-0.4	0.6	-0.2	1.3	-4.1	2.5	6.5	1.8	2.5	5.0	1.6	0.1
Q3	0.9	2.2	-3.3	3.1	1.7	1.1	5.6	1.3	1.8	2.5	1.6	-0.1
Q4	-0.8	1.9	0.6	2.9	-1.7	-0.5	2.3	1.1	0.2	2.1	1.7	0.4
2018 Q1	-1.3	2.0	0.1	2.5	3.9	-3.5	-2.7	1.2	0.7	2.8	1.7	-
Contributions to growth												
2015 Q3	ZZ36 -	ZZ37 0.2	ZZ39 0.2	ZZ38 -0.1	ZZ3A -	ZZ3B 0.1	ZZ3C 0.1	ZZ3D 1.8	ZZ3E 0.6	ZZ3F 0.4	ZZ3G 0.7	ZZ3H 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	0.6	0.4	0.7	0.3
Q2	-	0.2	-	0.1	0.1	-	0.2	1.8	0.6	0.3	0.7	0.1
Q3	-	0.2	-	0.1	-	-	0.3	2.2	0.7	0.5	0.8	0.2
Q4	-	0.3	-	0.2	0.1	0.1	0.4	2.0	0.7	0.7	0.7	-0.1
2017 Q1	-	0.4	-	0.3	-	0.1	0.5	1.5	0.4	0.5	0.6	-
Q2	-	0.1	-	0.1	-0.1	-	0.4	1.4	0.3	0.5	0.5	-
Q3	-	0.3	-	0.3	-	-	0.3	1.0	0.2	0.3	0.5	-
Q4	-	0.3	-	0.3	-	-	0.1	0.9	-	0.2	0.6	0.1
2018 Q1	-	0.3	-	0.3	0.1	-	-0.2	1.0	0.1	0.3	0.6	-

1 Estimates are accurate to 1 decimal place

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

AB Annex B - Growth and contributions to growth - expenditure components of GDP^{1,2}

Chained Volume Measures

Seasonally adjusted data

Reference year 2015

		Final consumption expenditure								
		Households	Non-profit institutions ³	General government	Gross capital formation	Gross fixed capital formation	Business investment	Total exports	less Total imports	Net trade
Percentage change, latest year on previous year										
Growth										
		KGZ5	KH26	KH2I	ZZ6H	KG7N	KG7M	KH2U	KH3N	
2015		2.7	-0.8	0.6	4.1	2.8	3.7	5.0	5.1	
2016		3.1	-0.1	0.8	0.9	1.8	-0.5	2.3	4.8	
2017		1.7	-	0.1	1.6	4.0	2.4	5.7	3.2	
Contributions to growth										
		ZZ6M	ZZ6N	ZZ6O	ZZ6P	ZZ6Q	ZZ6R	ZZ6S	ZZ6T	ZZ6U
2015		1.7	-	0.1	0.7	0.5	0.3	1.4	1.5	-0.1
2016		1.9	-	0.2	0.2	0.3	-	0.6	1.4	-0.8
2017		1.1	-	-	0.3	0.7	0.2	1.6	1.0	0.6
Percentage change, latest quarter on previous quarter										
Growth										
		KGZ6	KH27	KH2J	ZZ5H	KG7Q	KG7P	KH2V	KH3O	
2015 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	-0.5	1.0	-1.8	0.7	-	-1.5	0.2	
Q2		1.1	-	-0.3	-4.4	2.0	0.7	2.8	1.0	
Q3		0.8	-0.1	-	8.8	1.1	1.3	-1.8	3.3	
Q4		0.3	-0.1	-	-6.3	0.7	-0.1	5.2	-1.0	
2017 Q1		0.4	-	-0.1	2.8	0.7	0.3	-0.2	0.9	
Q2		0.3	0.2	0.3	-1.1	1.7	1.2	1.9	0.6	
Q3		0.3	-	-0.1	1.4	0.5	0.8	1.8	1.2	
Q4		0.3	-0.1	0.4	3.2	1.1	0.3	-0.9	0.4	
2018 Q1		0.2	-1.1	0.5	-0.9	0.9	-0.2	-0.5	-0.6	
Contributions to growth										
		ZZ5M	ZZ5N	ZZ5O	ZZ5P	ZZ5Q	ZZ5R	ZZ5S	ZZ5T	ZZ5U
2015 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	-0.3	0.1	-	-0.4	0.1	-0.5
Q2		0.7	-	-	-0.8	0.3	0.1	0.8	0.3	0.5
Q3		0.5	-	-	1.4	0.2	0.1	-0.5	1.0	-1.5
Q4		0.2	-	-	-1.1	0.1	-	1.4	-0.3	1.7
2017 Q1		0.2	-	-	0.5	0.1	-	-	0.3	-0.3
Q2		0.2	-	0.1	-0.2	0.3	0.1	0.5	0.2	0.4
Q3		0.2	-	-	0.2	0.1	0.1	0.5	0.4	0.2
Q4		0.2	-	0.1	0.5	0.2	-	-0.3	0.1	-0.4
2018 Q1		0.2	-	0.1	-0.2	0.2	-	-0.2	-0.2	-
Percentage change, latest quarter on corresponding quarter of previous year										
Growth										
		KGZ7	KH28	KH2K	ZZ5Y	KG7T	KG7S	KH2W	KH3P	
2015 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	0.2	1.6	-0.6	-0.9	-3.1	1.3	2.6	
Q2		3.3	-0.5	0.7	0.9	-0.4	-2.6	2.1	5.3	
Q3		3.1	0.6	0.4	8.0	4.0	2.1	1.3	7.9	
Q4		3.0	-0.8	0.7	-4.2	4.6	1.9	4.6	3.6	
2017 Q1		2.6	-0.2	-0.4	0.3	4.5	2.2	6.1	4.3	
Q2		1.8	-	0.2	3.7	4.2	2.7	5.1	3.8	
Q3		1.3	0.1	0.1	-3.4	3.6	2.2	9.0	1.7	
Q4		1.2	0.1	0.6	6.4	4.0	2.6	2.7	3.1	
2018 Q1		1.1	-0.9	1.2	2.6	4.3	2.0	2.3	1.6	
Contributions to growth										
		ZZ65	ZZ66	ZZ67	ZZ68	ZZ69	ZZ6A	ZZ6B	ZZ6C	ZZ6D
2015 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	-0.1	-0.2	-0.3	0.3	0.8	-0.4
Q2		2.1	-	0.1	0.1	-0.1	-0.2	0.6	1.5	-0.9
Q3		2.0	-	0.1	1.3	0.7	0.2	0.3	2.3	-1.9
Q4		1.9	-	0.1	-0.7	0.7	0.2	1.3	1.1	0.2
2017 Q1		1.6	-	-0.1	-	0.7	0.2	1.7	1.3	0.4
Q2		1.1	-	-	0.6	0.7	0.3	1.4	1.2	0.3
Q3		0.8	-	-	-0.6	0.6	0.2	2.5	0.5	2.0
Q4		0.8	-	0.1	1.1	0.7	0.2	0.8	0.9	-0.2
2018 Q1		0.7	-	0.2	0.4	0.7	0.2	0.7	0.5	0.2

1 Estimates are accurate to 1 decimal place

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^{1,2}

Current Prices

Seasonally adjusted data

	Compen- sation of employees	Gross operating surplus of corporations ³	Other income ⁴	Taxes on products & production less subsidies
Percentage change, latest year on previous year				
Growth				
	KGI3	KH4V	KH6T	KH65
2015	3.1	0.3	5.4	2.8
2016	4.2	2.6	4.0	4.2
2017	4.1	4.0	2.0	2.8
Contributions to growth				
	ZZ7H	ZZ7I	ZZ7J	ZZ7K
2015	1.5	0.1	0.9	0.3
2016	2.0	0.6	0.7	0.5
2017	2.0	0.8	0.3	0.3
Percentage change, latest quarter on previous quarter				
Growth				
	KGI4	KH4W	KH6U	KH66
2015 Q3	0.7	-3.7	2.1	1.0
Q4	0.9	-0.4	-0.2	0.4
2016 Q1	0.2	5.0	0.7	1.0
Q2	2.4	-2.6	2.1	1.2
Q3	1.4	1.3	0.6	0.1
Q4	0.6	2.8	0.3	2.2
2017 Q1	1.0	2.2	-0.2	-1.3
Q2	1.0	-1.5	0.9	1.7
Q3	0.8	1.1	0.3	1.8
Q4	0.7	0.9	1.2	-0.6
2018 Q1	1.6	-1.3	0.5	-2.4
Contributions to growth				
	ZZ6Z	ZZ72	ZZ73	ZZ74
2015 Q3	0.3	-0.8	0.4	0.1
Q4	0.5	-0.1	-	0.1
2016 Q1	0.1	1.1	0.1	0.1
Q2	1.2	-0.6	0.4	0.2
Q3	0.7	0.3	0.1	-
Q4	0.3	0.6	0.1	0.3
2017 Q1	0.5	0.5	-	-0.2
Q2	0.5	-0.3	0.2	0.2
Q3	0.4	0.2	-	0.2
Q4	0.3	0.2	0.2	-0.1
2018 Q1	0.7	-0.3	0.1	-0.3
Percentage change, latest quarter on corresponding quarter of previous year				
Growth				
	KGI5	KH4X	KH6V	KH67
2015 Q3	3.3	-4.3	6.5	4.4
Q4	2.9	-0.9	5.3	2.9
2016 Q1	2.6	2.7	4.6	5.7
Q2	4.3	-1.9	4.7	3.7
Q3	5.0	3.2	3.1	2.9
Q4	4.8	6.5	3.7	4.7
2017 Q1	5.6	3.7	2.9	2.2
Q2	4.0	4.9	1.7	2.7
Q3	3.4	4.7	1.3	4.5
Q4	3.5	2.7	2.2	1.6
2018 Q1	4.1	-0.9	2.9	0.5
Contributions to growth				
	ZZ79	ZZ7A	ZZ7B	ZZ7C
2015 Q3	1.6	-1.0	1.1	0.5
Q4	1.4	-0.2	0.9	0.4
2016 Q1	1.3	0.6	0.8	0.7
Q2	2.1	-0.4	0.8	0.4
Q3	2.5	0.7	0.5	0.4
Q4	2.4	1.4	0.6	0.6
2017 Q1	2.7	0.8	0.5	0.3
Q2	2.0	1.0	0.3	0.3
Q3	1.7	1.0	0.2	0.5
Q4	1.7	0.6	0.4	0.2
2018 Q1	2.1	-0.2	0.5	0.1

1 Estimates are accurate to 1 decimal place

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

3 Includes the operating surplus of financial corporations, private non-financial corporations and public corporations

4 Includes mixed income and the operating surplus of the non-corporate sector

AD Annex D - Implied GDP deflator growths- Expenditure components of GDP¹

Seasonally adjusted data

Reference year 2015

	Final consumption expenditure							less Total imports
	House- holds	Non-prof- it instit- utions ²	General govern- ment	Gross capital formation	Gross fixed capital formation	Total exports		
Percentage change, latest year on previous year								
	ZZ93	ZZ94	ZZ95	ZZ96	ZZ97	ZZ98	ZZ99	
2015	0.6	0.8	0.2	-2.0	1.3	-5.1	-5.9	
2016	1.4	0.8	1.2	3.0	1.6	4.8	3.4	
2017	2.0	0.9	1.3	2.4	2.0	6.1	5.9	
Percentage change, latest quarter on previous quarter								
	ZZ8N	ZZ8O	ZZ8P	ZZ8Q	ZZ8R	ZZ8S	ZZ8T	
2015 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	0.1	0.7	0.7	5.3	0.9	1.9	1.2	
Q2	0.4	0.3	0.9	1.6	-	2.4	2.3	
Q3	0.5	-0.3	0.3	2.9	0.3	3.2	3.8	
Q4	0.7	0.2	0.5	-1.1	0.3	2.4	1.9	
2017 Q1	0.7	0.3	0.3	0.6	0.3	1.4	1.5	
Q2	0.2	0.4	0.5	0.3	1.0	0.2	-	
Q3	0.3	0.3	-0.3	1.0	1.0	0.7	0.2	
Q4	0.6	0.2	0.1	-	0.1	0.8	1.1	
2018 Q1	0.4	0.3	0.6	-0.6	-0.1	-0.7	-0.6	
Percentage change, latest quarter on corresponding quarter of previous year								
	ZZ8U	ZZ8V	ZZ8W	ZZ8X	ZZ8Y	ZZ8Z	ZZ92	
2015 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	0.9	0.5	0.4	1.6	0.9	-1.0	-2.5	
Q2	1.2	1.8	1.0	-2.4	2.0	2.5	0.5	
Q3	1.7	0.1	1.1	3.8	1.7	7.5	6.0	
Q4	1.8	1.0	2.5	8.9	1.6	10.2	9.5	
2017 Q1	2.3	0.6	2.1	4.1	1.0	9.7	10.0	
Q2	2.1	0.7	1.6	2.7	2.0	7.4	7.5	
Q3	1.9	1.2	1.0	0.8	2.6	4.8	3.7	
Q4	1.8	1.2	0.6	1.9	2.4	3.1	2.9	
2018 Q1	1.5	1.2	0.9	0.7	2.0	0.9	0.7	

1 Estimates accurate to 1 decimal place

2 Non-profit institutions serving households

AE Annex E - Output components of GDP- growths and revisions from previous estimate^{1,2}, 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 & other services
Percentage change, latest year on previous year												
Current estimates³												
	L3BB	L3BG	L3BH	L3BN	L3DM	L3DQ	L3DW	L3E2	L3GP	KI8L	KI8N	KI8P
2015	1.2	1.2	8.1	-	1.0	3.4	4.4	2.6	4.7	4.0	2.4	0.9
2016	-5.6	1.3	-	0.9	2.6	5.2	3.9	2.5	4.7	4.7	2.2	0.6
2017	-0.4	1.9	-0.5	2.5	-0.8	2.3	5.7	1.5	1.8	3.5	1.7	0.1
Previous estimates²												
	A2EQ	A2ER	A2ET	A2ES	A2EU	A2EV	A2EW	A2EY	A2F2	A2F3	A2F4	A2F5
2015	1.2	1.2	8.1	-	1.0	3.4	4.4	2.6	4.7	4.0	2.4	0.9
2016	-5.6	1.3	-	0.9	2.6	5.2	3.9	2.5	4.7	4.7	2.2	0.6
2017	-0.4	1.9	-0.5	2.5	-0.8	2.3	5.7	1.5	1.8	3.5	1.7	0.1
Revisions												
	ZZ52	ZZ53	ZZ55	ZZ54	ZZ56	ZZ57	ZZ58	ZZ59	ZZ5A	ZZ5B	ZZ5C	ZZ5D
2015	-	-	-	-	-	-	-	-	-	-	-	-
2016	-	-	-	-	-	-	-	-	-	-	-	-
2017	-	-	-	-	-	-	-	-	-	-	-	-
Percentage change, latest quarter on previous quarter												
Current estimates³												
	L3BB	L3BG	L3BH	L3BN	L3DM	L3DQ	L3DW	L3E2	L3GP	KI8L	KI8N	KI8P
2015 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	-4.0	-	-2.5	-	1.4	1.3	0.4	0.8	1.5	1.5	0.7	0.3
Q2	-1.0	2.1	2.4	1.4	5.6	2.7	1.6	0.3	0.9	0.4	0.5	-0.3
Q3	-0.2	-0.5	5.3	-0.6	-4.2	0.3	1.2	0.8	1.2	2.8	0.6	-
Q4	0.7	0.8	-8.5	1.5	3.1	1.2	3.2	0.6	1.6	1.5	0.4	-0.3
2017 Q1	-0.8	0.4	2.7	0.5	-3.0	2.1	2.4	0.2	-0.6	-0.3	0.4	0.5
Q2	-0.1	-	0.9	-	0.1	-1.1	-0.4	0.3	0.4	1.1	0.1	-
Q3	1.1	1.0	2.0	1.1	1.5	-1.1	0.4	0.3	0.5	0.3	0.5	-0.2
Q4	-1.0	0.4	-4.9	1.3	-0.4	-0.4	-0.1	0.4	-0.1	1.1	0.6	0.1
2018 Q1	-1.4	0.6	2.2	0.2	2.5	-1.0	-2.7	0.3	-0.1	0.4	0.4	0.1
Previous estimates²												
	A2CX	A2CY	A2DO	A2DL	A2DR	A2DS	A2DT	A2DU	A2DV	A2DW	A2DX	A2DY
2015 Q3	-0.4	-0.1	1.4	-0.4	0.7	-	-0.4	0.3	0.6	0.9	0.4	-0.1
Q4	-1.3	-0.4	-3.2	0.1	-1.8	0.5	1.2	0.7	1.3	0.5	0.6	0.8
2016 Q1	-4.0	-	-2.5	-	1.4	1.3	0.4	0.8	1.5	1.5	0.7	0.3
Q2	-1.0	2.1	2.4	1.4	5.6	2.7	1.6	0.3	0.9	0.4	0.5	-0.3
Q3	-0.2	-0.5	5.3	-0.6	-4.2	0.3	1.2	0.8	1.2	2.8	0.6	-
Q4	0.7	0.8	-8.5	1.5	3.1	1.2	3.2	0.6	1.6	1.5	0.4	-0.3
2017 Q1	-0.8	0.4	2.7	0.5	-3.0	2.1	2.4	0.2	-0.6	-0.3	0.4	0.5
Q2	-0.1	-	0.9	-	0.1	-1.1	-0.4	0.3	0.4	1.1	0.1	-
Q3	1.1	1.0	2.0	1.1	1.5	-1.1	0.4	0.3	0.5	0.3	0.5	-0.2
Q4	-1.0	0.4	-4.9	1.3	-0.4	-0.4	-0.1	0.4	-0.1	1.1	0.6	0.1
2018 Q1	-1.4	0.7	3.5	0.2	2.3	-0.3	-3.3	0.3	-0.1	0.4	0.4	0.1
Revisions												
	ZZ4A	ZZ4B	ZZ4D	ZZ4C	ZZ4E	ZZ4F	ZZ4G	ZZ4H	ZZ4I	ZZ4J	ZZ4K	ZZ4L
2015 Q3	-	-	-	-	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-	-	-	-	-
2016 Q1	-	-	-	-	-	-	-	-	-	-	-	-
Q2	-	-	-	-	-	-	-	-	-	-	-	-
Q3	-	-	-	-	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-	-	-	-	-
2017 Q1	-	-	-	-	-	-	-	-	-	-	-	-
Q2	-	-	-	-	-	-	-	-	-	-	-	-
Q3	-	-	-	-	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-	-	-	-	-
2018 Q1	-	-0.1	-1.3	-	0.2	-0.7	0.6	-	-	-	-	-

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^{1,2}, 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
Percentage growths, latest quarter on corresponding quarter of previous year												
Current estimates³												
2015 Q3	L3ZZ	L426	L427	L42D	L44C	L44G	L44M	L44Q	L47F	KII2	KIH9	KIH8
Q4	0.7	1.2	13.1	-0.7	-1.0	5.7	2.2	2.3	4.5	3.9	2.1	0.5
	-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	-5.0	0.1	4.2	-0.8	-1.9	5.9	1.8	2.5	4.5	4.0	2.1	1.3
Q2	-6.5	1.7	-1.9	1.2	5.9	4.5	2.8	2.3	4.3	3.3	2.2	0.6
Q3	-6.4	1.2	1.8	0.9	0.7	4.9	4.5	2.7	4.9	5.2	2.3	0.7
Q4	-4.4	2.4	-3.8	2.3	5.7	5.6	6.5	2.5	5.2	6.3	2.2	-0.4
2017 Q1	-1.3	2.8	1.3	2.9	1.2	6.4	8.6	1.9	3.0	4.3	2.0	-0.2
Q2	-0.4	0.6	-0.2	1.3	-4.1	2.5	6.5	1.8	2.5	5.0	1.6	0.1
Q3	0.9	2.2	-3.3	3.1	1.7	1.1	5.6	1.3	1.8	2.5	1.6	-0.1
Q4	-0.8	1.9	0.6	2.9	-1.7	-0.5	2.3	1.1	0.2	2.1	1.7	0.4
2018 Q1	-1.3	2.0	0.1	2.5	3.9	-3.5	-2.7	1.2	0.7	2.8	1.7	-
Previous estimates²												
2015 Q3	A2DZ	A2E2	A2E4	A2E3	A2E5	A2EE	A2EK	A2EL	A2EM	A2EN	A2EO	A2EP
Q4	0.7	1.2	13.1	-0.7	-1.0	5.7	2.2	2.3	4.5	3.9	2.1	0.5
	-2.8	0.4	7.9	-0.9	-0.9	5.0	3.0	1.8	4.0	2.6	1.5	0.6
2016 Q1	-5.0	0.1	4.2	-0.8	-1.9	5.9	1.8	2.5	4.5	4.0	2.1	1.3
Q2	-6.5	1.7	-2.0	1.2	5.9	4.5	2.8	2.3	4.3	3.3	2.2	0.6
Q3	-6.4	1.2	1.8	0.9	0.7	4.9	4.5	2.7	4.9	5.2	2.3	0.7
Q4	-4.4	2.4	-3.8	2.3	5.7	5.6	6.5	2.5	5.2	6.3	2.2	-0.4
2017 Q1	-1.3	2.8	1.3	2.9	1.2	6.4	8.6	1.9	3.0	4.3	2.0	-0.2
Q2	-0.4	0.6	-0.2	1.3	-4.1	2.5	6.5	1.8	2.5	5.0	1.6	0.1
Q3	0.9	2.2	-3.3	3.1	1.7	1.1	5.6	1.3	1.8	2.5	1.6	-0.1
Q4	-0.8	1.9	0.6	2.9	-1.7	-0.5	2.3	1.1	0.2	2.1	1.7	0.4
2018 Q1	-1.3	2.2	1.3	2.5	3.7	-2.8	-3.3	1.2	0.7	2.8	1.7	-
Revisions												
2015 Q3	ZZ4N	ZZ4O	ZZ4Q	ZZ4P	ZZ4R	ZZ4S	ZZ4T	ZZ4U	ZZ4V	ZZ4W	ZZ4X	ZZ4Y
Q4	-	-	-	-	-	-	-	-	-	-	-	-
2016 Q1	-	-	-	-	-	-	-	-	-	-	-	-
Q2	-	-	-	-	-	-	-	-	-	-	-	-
Q3	-	-	-	-	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-	-	-	-	-
2017 Q1	-	-	-	-	-	-	-	-	-	-	-	-
Q2	-	-	-	-	-	-	-	-	-	-	-	-
Q3	-	-	-	-	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-	-	-	-	-
2018 Q1	-	-0.2	-1.2	-	0.2	-0.7	0.6	-	-	-	-	-

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)