

Statistical bulletin

# GDP quarterly national accounts, UK: April to June 2019

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



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Next release:  
11 November 2019

# Notice

**26 November 2019**

ONS has identified a processing error which affects the annual chained volume measure (CVM) and implied deflator for a small number of household final consumption expenditure (HHFCE) components. The error affects figures for 2017, 2018 and 2019 and has an impact on top level HHFCE, total gross domestic product (GDP) and Real Household Disposable Income (RHDI). At component level, the biggest impact is on the UK tourist and foreign tourist expenditure HHFCE categories.

Figures will be corrected when the relevant periods are next open for revision. For 2018 and 2019, this will be in the 2019 Q3 editions of Consumer Trends, Quarterly National Accounts and Quarterly Sector Accounts, published on 20 December 2019. For 2017 it will be in the 2020 Q2 editions, published in September 2020.

Revisions in the 2019 Q3 publications if all else was equal:

The impact on 2018 annual CVM growth at top level (national concept) HHFCE is -0.13pp. The impact on 2018 GDP CVM growth is -0.03pp. Quarterly impacts on top level HHFCE are shown below, with the impact on quarterly GDP in brackets:

2018Q1 = -0.12pp (-0.02pp)  
2018Q2 = -0.01pp (0.00pp)  
2018Q3 = 0.00pp (0.00pp)  
2019Q1 = 0.00pp (0.00pp)  
2019Q2 = -0.01pp (0.00pp)

Within Quarterly Sector Accounts, RHDI would see revisions range from -0.2pp in 2018Q1 to +0.2pp in 2018Q3 and 2019Q2.

Please note that for 2019 Q3 we are open to other data revisions back to 2018 Q1 so these are not likely to be the final revisions seen due to the other data revisions.

Revisions in the 2020 Q2 publications if all else was equal:

In addition to the 2018 revisions noted above, there will be a further round of revisions when we open 2017 data for revisions in the 2020 Q2 Consumer Trends and Quarterly National Accounts publications.

The impact on 2017 annual CVM growth at top level (national concept) household final consumption expenditure is -0.15pp. The impact on GDP CVM growth is -0.05pp. Quarterly impacts on top level HHFCE are shown below, with the impact on quarterly GDP in brackets:

2017Q1 = -0.02pp (0.00pp)  
2017Q2 = -0.06pp (-0.01pp)  
2017Q3 = -0.05pp (-0.01pp)  
2017Q4 = +0.04pp (+0.01pp)

Comparing 2020 Q2 publications with 2019 Q3 publications, the revision to 2018 annual CVM growth at top level (national concept) HHFCE is +0.15pp. This equates to a revision of +0.03pp to annual CVM growth in GDP. Quarterly revisions then only affect top level HHFCE at +0.15pp in 2018Q1. The equivalent 2018 Q1 impact on GDP is +0.03pp.

Within Quarterly Sector Accounts, RHDI would see revisions range from -0.1pp in five of the affected quarters to +0.2pp in 2018Q3 and 2019Q2.

In the Quarter 2 2020 publications, the revisions to total HHFCE, GDP and RHDI will be made in line with the revisions policy for Blue Book 2020. This will include any methodological improvements and new supply-use balancing for these years. This will mean that these are not likely to be the final revisions seen due to the other changes being made at that time.

We apologise for any inconvenience caused.

The components affected are:

04.1.2\* 'Other actual rentals' ADOP, UWHJ, CSM2, CSM3  
09.2.2\* 'Musical instruments and major durables for indoor recreation' ADQN, XYJT, AWOA, AWRS

11.1.2\* 'Canteens' ADYF, ZAYC, AWOP, AWSH

0 'Household final consumption expenditure: domestic concept' ABQJ, ZAKW, UTJA, UTJN

TOURIM 'UK tourist expenditure abroad' ABTC, ABTD, GDPE, GDPF

TOUREX 'Foreign tourist expenditure' CCHX, CCV0, GDPB, GDPD

Net tourist expenditure ABTG, ABTH

Household final consumption expenditure: national concept ABPF, ABJR, ABQU, ABJS

- these components feed into higher- level COICOP series which have not all been listed.

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# 1 . Main points

- UK gross domestic product (GDP) in volume terms was estimated to have fallen by 0.2% in Quarter 2 (Apr to June) 2019, unrevised from the previous estimate.
- When compared with the same quarter a year ago, UK GDP increased by 1.3% to Quarter 2 2019; down from 2.1% to Quarter 1 (Jan to Mar) 2019.
- Services provided the only positive contribution to growth in the output approach to GDP, with growth slowing to 0.1% in the latest quarter.
- Private consumption, government consumption and net trade contributed positively, while gross capital formation contributed negatively to GDP growth in Quarter 2 2019.
- GDP was estimated to have increased by 1.4% between 2017 and 2018, unrevised from previous estimates; this was lower than the upwardly revised 1.9% growth seen between 2016 and 2017.
- Data in this bulletin are consistent with our annual UK National Accounts, The Blue Book 2019 publication to be published on 31 October 2019; estimates therefore incorporate new data and methods throughout the time series.

## 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
- the income approach

The quarterly national accounts are typically published around 90 days after the end of the quarter. At this stage, the data content of this estimate from the output approach to GDP has risen since the first quarterly estimate to around 90% of the total required for the final output-based estimate. There is also around 90% data content available to produce estimates of GDP from the expenditure approach and around 70% data content from the income approach. Further information on all three approaches to measuring GDP can be found in the [short guide to national accounts \(PDF, 317KB\)](#).

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

### Blue Book 2019

This release contains data that are consistent with the UK National Accounts, The Blue Book 2019, which will be released on 31 October 2019. As such, data for all periods within this release are subject to revision in line with the [National Accounts Revisions Policy](#).

The Blue Book is the UK's annual compendium of national accounts data and incorporates a number of improvements to methods and sources into the UK's National Accounts. In Blue Book 2019 we have introduced a new framework to improve how we produce GDP in the UK, alongside a number of methodological

improvements. These improvements will ensure that our national accounts continue to provide the best possible framework for analysing the UK economy and comparing it with other countries. Further detail on these changes is available in the [Revisions to GDP](#) section.

The reference year and last base year for all chained volume measure estimates remain as 2016.

## **International Financial Reporting Standards (IFRS16)**

In January 2019, a new reporting standard took effect for those businesses using the International Financial Reporting Standards (IFRS) accountancy framework. This has impacted how some businesses have reported on their fixed assets, mainly through our Quarterly Acquisition and Disposal of Capital Assets Survey (QCAS), used in the compilation of gross fixed capital formation (GFCF) and business investment. While we recognise there is a change to the accounting standards for some businesses, there has been no change to national accounts standards on the treatment of leases.

To assess the impact of IFRS16's introduction on GFCF and business investment estimates, we have contacted QCAS respondents with large movements in their data to ask them which accountancy framework they used and what, if any, impact IFRS16 had on their data.

As a result, we have made a downward adjustment of approximately £244 million to remove the quantified impact of its introduction in Quarter 1 (Jan to Mar) 2019 and a downward adjustment of £133 million in Quarter 2 (Apr to June) 2019 to better reflect underlying growth for GFCF and business investment. The asset most affected by the introduction of IFRS16 in Quarter 1 2019 was information and communication technology (ICT) equipment and other machinery and equipment. In our Quarter 2 2019 estimates, intellectual property products were the asset most affected. We will continue to monitor the impact of IFRS 16's introduction in the future.

## **Quarterly Stocks Inquiry expansion for Quarter 2 and Quarter 3 2019**

To address users' concerns about the sample size of the Quarterly Stocks Inquiry and the potential impact on quality, we have temporarily increased the sample size from 5,500 to 9,500 businesses. We will assess at the end of the Quarter 3 (July to Sept) period the impact on its quality. The increased sample size will also help us better understand the impact of businesses' preparations in relation to stockpiling ahead of the UK's planned exit from the European Union on 31 October.

The inquiry is used in the compilation of the changes in inventories component within gross capital formation. Our early analyses have shown that the introduction of this increased sample has not caused any significant discontinuity in estimates of changes in inventories.

## **3 . The UK economy contracted by an unrevised 0.2% in Quarter 2 2019**

UK [gross domestic product](#) (GDP) contracted by an unrevised 0.2% in Quarter 2 (Apr to June) 2019, having grown by an upwardly revised 0.6% in the first quarter of the year.

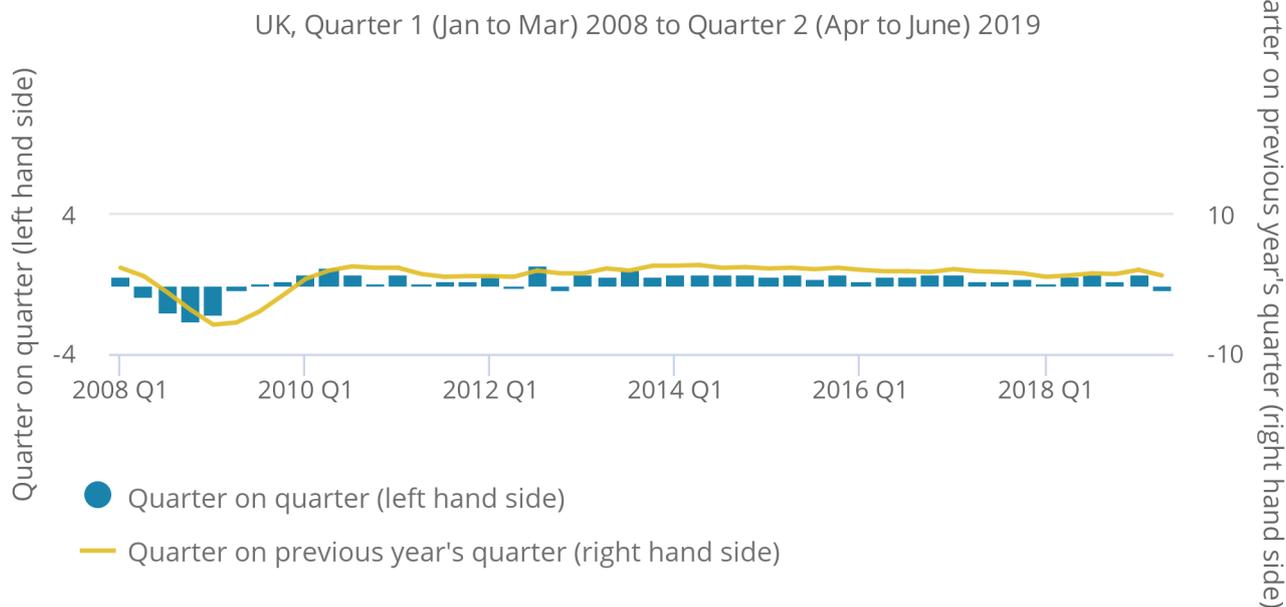
The UK economy grew by 1.3% compared with the same quarter in the previous year (Figure 1), a slowing from 2.1% in Quarter 1 (Jan to Mar) 2019.

GDP and some of its components have been particularly volatile through the year so far, largely reflecting changes in the timing of activity related to the UK's original planned exit date from the European Union in late March. There is evidence that stockpiling and the change in timing of activity was taking place in the first quarter of the year, which likely provided a boost to GDP, with the latest figures suggesting that these increased stock levels were partly run down in Quarter 2 2019. Furthermore, it was also reported that a number of car manufacturers had brought forward their annual shutdowns to April as part of Brexit-related contingency planning.

**Figure 1: Real GDP contracted by an unrevised 0.2% in Quarter 2 2019**

UK, Quarter 1 (Jan to Mar) 2008 to Quarter 2 (Apr to June) 2019

Figure 1: Real GDP contracted by an unrevised 0.2% in Quarter 2 2019



Source: Office for National Statistics – UK National Accounts

Notes:

1. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept), and Q4 refers to Quarter 4 (Oct to Dec).
2. Real GDP figures are chained volume estimates that are adjusted for the effects of inflation over time.

There have been revisions to the quarterly path of real GDP throughout 2017 and 2018 (Figure 2). Annual GDP growth in 2017 is now estimated at 1.9%, revised up from 1.8%, whilst annual GDP growth in 2018 has been unrevised with slight revisions to the quarterly path. The profile of the quarterly path of real GDP so far in 2019 remains largely the same, although there has been a slight upward revision to the first quarter where GDP is estimated to have increased by 0.6%. This is still in line with the large movements likely reflecting changes in the timing of activity related to the UK’s original planned exit date from the European Union in late-March. For further information on the drivers and impacts of these revisions, please see the [Revisions to GDP](#) section of this publication.

**Figure 2: Offsetting revisions to the quarterly path in 2018 leave annual GDP growth unrevised whilst there has been a slight upward revision to growth in Quarter 1 2019**

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 2 (Apr to June) 2019

Figure 2: Offsetting revisions to the quarterly path in 2018 leave annual GDP growth unrevised whilst there has been a slight upward revision to growth in Quarter 1 2019

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 2 (Apr to June) 2019



Source: Office for National Statistics – UK National Accounts

Notes:

1. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept), and Q4 refers to Quarter 4 (Oct to Dec).
2. Real GDP figures are chained volume estimates that are adjusted for the effects of inflation over time.

The implied GDP deflator represents the broadest measure of inflation in the domestic economy, reflecting changes in the price of all goods and services that comprise GDP. This includes the price movements in private and government consumption, investment and the relative price of exports and imports. In the year to Quarter 2 2019, the implied GDP deflator increased by 2.3% – upwardly revised by 0.4 percentage points, with revisions seen in government expenditure, gross capital formation and net trade deflators. Increases in the implied deflator are in part due to increases in fuel prices – particularly crude oil prices – which are in line with [quarterly movements in CPI](#). For further information, please see the [Revisions to GDP](#) section of this publication.

Nominal GDP increased by 0.7% in Quarter 2 2019, revised upwards by 0.3 percentage points in part driven by revisions to the implied GDP deflator (Figure 3). In the first quarterly estimate of GDP the implied deflator was initially strong. Given data were provisional at this point we applied quality and balancing adjustments to some series, in part to help reconcile the three measures of GDP. Given we now have more certainty around this more mature dataset we have seen an upward revision to the implied deflator as a result of removing some of these adjustments applied in the first quarterly estimate of GDP.

There have also been revisions to nominal GDP growth throughout 2017, which to a large extent reflects the indicative balance in producing a revised estimate for 2017 that brings in line all three measures of GDP. Annual

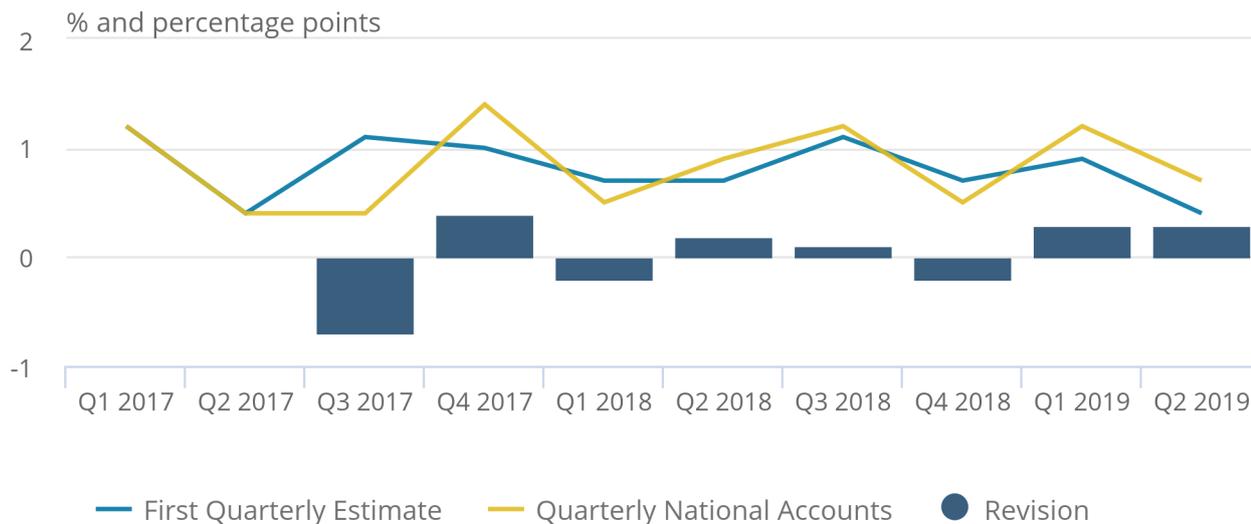
nominal GDP growth is now estimated to have increased by a revised 3.8% in 2017, slowing to an unrevised 3.3% in 2018.

**Figure 3: Nominal GDP growth was revised up in the first two quarters of 2019, with largely offsetting revisions throughout 2018**

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 2 (Apr to June) 2019

Figure 3: Nominal GDP growth was revised up in the first two quarters of 2019, with largely offsetting revisions throughout 2018

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 2 (Apr to June) 2019



Source: Office for National Statistics – UK National Accounts

Notes:

1. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept), and Q4 refers to Quarter 4 (Oct to Dec).
2. Nominal GDP figures are not adjusted for the effects of inflation over time.
3. Annual GDP growth in 2017 has been revised down from 3.5% to 3.3%, while annual growth in 2018 is unrevised at 3.8%.

Table 1: Headline economic indicators for the UK  
UK, Quarter 1 (Jan to Mar) 2017 to Quarter 2 (Apr to June) 2019

## % growth<sup>1</sup>

	Chained volume measures			Current market prices		
	GDP	Household expenditure	Gross fixed capital formation	GDP per head <sup>3</sup>	GDP	Compensation of employees
Seasonally adjusted						
2017	1.9	2.3	1.6	1.3	3.8	4.3
2018	1.4	1.6	-0.1	0.8	3.3	4.3
Q1 2017	0.6	0.5	0.0	0.4	1.2	0.8
Q2 2017	0.3	0.3	1.4	0.1	0.4	1.6
Q3 2017	0.3	0.4	-0.4	0.2	0.4	1.1
Q4 2017	0.4	0.3	1.1	0.2	1.4	0.7
Q1 2018	0.1	0.5	-0.9	-0.1	0.5	1.1
Q2 2018	0.5	0.5	-0.4	0.4	0.9	0.9
Q3 2018	0.6	0.3	0.5	0.5	1.2	1.5
Q4 2018	0.3	0.2	-0.1	0.2	0.5	1.4
Q1 2019	0.6	0.3	0.9	0.4	1.2	0.3
Q2 2019	-0.2	0.4	-0.9	-0.4	0.7	1.5

Source: Office for National Statistics – UK National Accounts

### Notes

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

## 4 . Growth in the services sector slowed to its weakest rate in three years, alongside falls in the production and construction sectors in Quarter 2 2019

The output measure of gross domestic product (GDP) fell by 0.2% in Quarter 2 (Apr to June) 2019, unrevised from the [first quarterly estimate of GDP](#), following an increase of a revised 0.6% in the previous quarter.

Despite some revisions to the lower-level components of the output measure of GDP, the recent narrative remains similar. The decline in Quarter 2 2019 – most evident in the manufacturing industry – is likely to be in part reflecting changes in the timing of activity related to the UK's original planned exit date from the European Union.

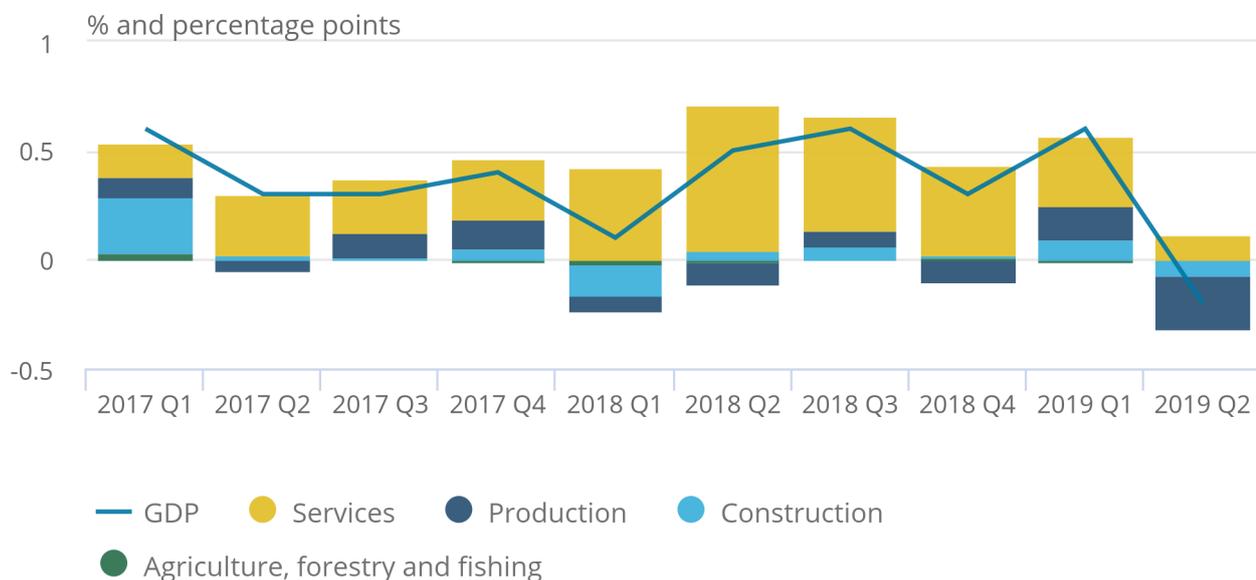
In Quarter 2 2019, production output fell by a downwardly revised 1.8% – the largest decline since Quarter 4 (Oct to Dec) 2012. This was driven by a revised 2.8% fall in manufacturing output, a more pronounced decline than previously estimated, reflecting the incorporation of new business survey data. This is likely to have reflected the effects of bringing forward activity in the first quarter of the year and the decline in car production as summer shutdowns for planned maintenance were brought forward to April. Despite increasing by an unrevised 0.1% in Quarter 2 – the weakest quarterly figure in three years – the services sector continued to provide the main positive contribution to overall GDP growth in the second quarter of 2019 (Figure 4).

**Figure 4: Services sector growth eased in Quarter 2 2019, while production and construction fell**

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 2 (Apr to Jun) 2019

Figure 4: Services sector growth eased in Quarter 2 2019, while production and construction fell

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 2 (Apr to Jun) 2019



Source: Office for National Statistics – UK National Accounts

Notes:

1. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept), and Q4 refers to Quarter 4 (Oct to Dec).
2. Chart shows contribution to real GDP quarter-on-quarter growth.
3. Components contributions may not sum to total due to rounding.

There have been revisions to the components of the output measure of GDP through 2017 and 2018 (Figure 5). Services output is now estimated to have increased by 1.8% in 2017, revised down by 0.3 percentage points partially reflecting revisions to transport, storage and communications because of revisions in the information and communications sector. There has been a partially offsetting upward revision to 2.0% in 2018 because of revisions to government and other services. The revisions in 2017 and 2018 are mainly because of new rental price and volume data sources as well as updated VAT turnover data and seasonal factors reflecting the latest data.

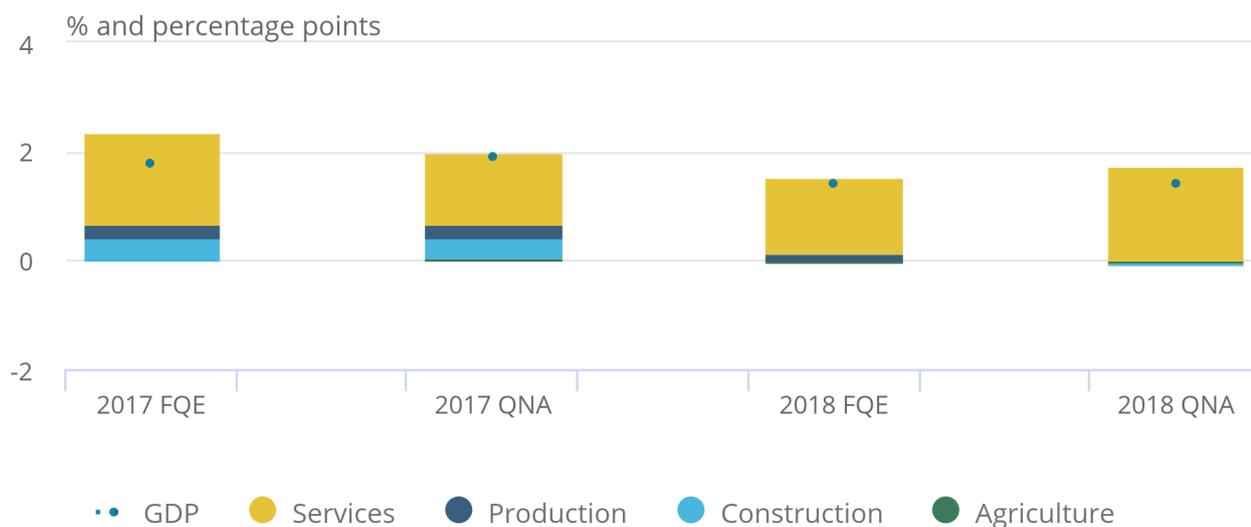
Production and construction output growth has been revised down in 2017 and 2018, with the latest figures for 2018 now showing a relatively flat picture for these industries. For further information on the drivers of revisions see the [Revisions to GDP](#) section of this publication.

**Figure 5: There have been revisions to the annual growth of the three main sectors of GDP in 2017 and 2018**

UK, Contributions to annual growth in 2017 and 2018

Figure 5: There have been revisions to the annual growth of the three main sectors of GDP in 2017 and 2018

UK, Contributions to annual growth in 2017 and 2018



Source: Office for National Statistics – UK National Accounts

Notes:

- Contributions are to output gross value added and therefore may not sum to the percentage change in average GDP.

There has been a loss of momentum in the services industry over the last year (Figure 6). This has been particularly pronounced in other services, which reflects weakening in administration and support services, human health activities, education, real estate, and transportation and storage. The 0.1% increase in services output in Quarter 2 2019 is the weakest quarterly growth rate since Quarter 2 2016.

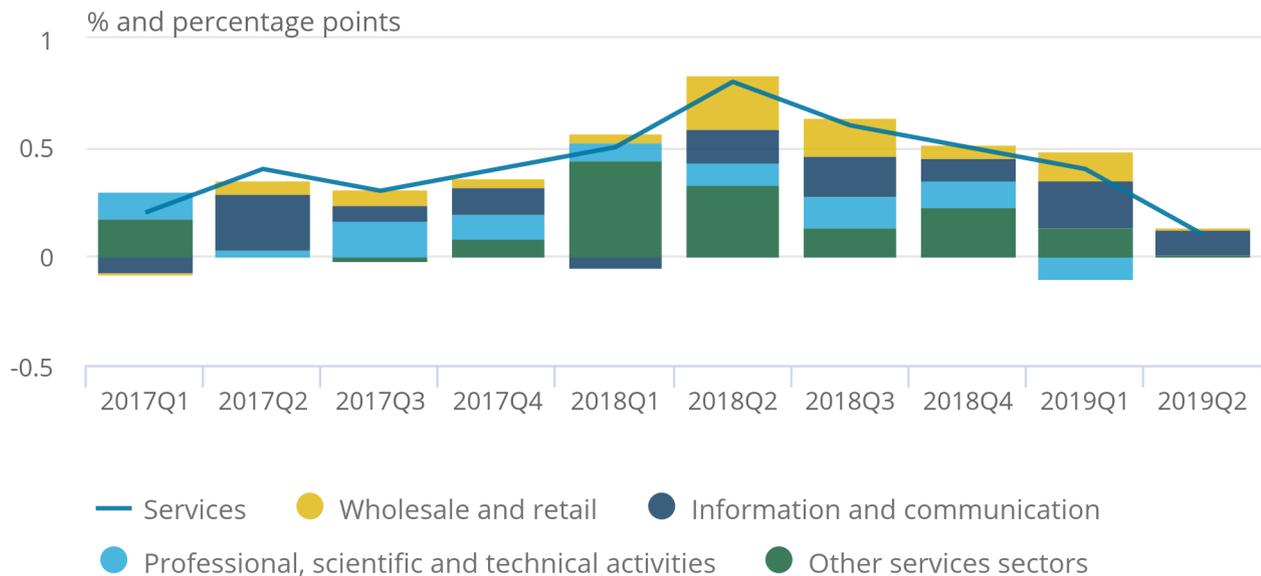
The slowdown is in line with the [UK Services Purchasing Manager's Index \(PMI\) \(PDF, 183KB\)](#) for June 2019, which reported that the services industry was close to stagnation, linked to the “sluggish domestic economic conditions and greater risk aversion among clients in response to ongoing Brexit uncertainty”. The easing in the services sector has also been reflected in the recent [CBI Service Sector Survey](#), which noted how “underlying activity and confidence is clearly subdued”.

**Figure 6: The recent decline in momentum in the services sector has continued in the second quarter of 2019**

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 2 (Apr to June) 2019

## Figure 6: The recent decline in momentum in the services sector has continued in the second quarter of 2019

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 2 (Apr to June) 2019



Source: Office for National Statistics – UK National Accounts

**Notes:**

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

The recent slowdown in services sector growth has been reflected in wholesale, retail and motor trades, where growth slowed to 0.1% in the second quarter of 2019, following an increase of 1.1% in the first quarter.

Growth in all three component industries – particularly in retail – weakened compared with the first three months of the year. The decline in wholesale reflected widespread falls across the industry, while official figures show that [retail sales](#) growth eased to 0.7% in Quarter 2 2019. External indicators for retail sales include the [Bank of England's Agents' Summary Survey](#), which noted that the value of retail sales remained subdued in the second quarter, although there was a slight pick-up in consumer services, such as dining and leisure attractions, due to the mild weather and late timing of Easter.

The main positive contribution to services sector growth came from the transport, storage and communications industries, in which output increased by 0.6% in Quarter 2 2019. This was driven by growth in the information and communication sector because of continued strength in computer programming. Financial and insurance activities output fell 0.4% in Quarter 2 2019, continuing the decline seen since Quarter 2 2018, although users should note

that early estimates are reliant on a higher level of forecast content. This weakness is reflected in the [Bank of England's Agents' Summary Survey](#), which attributes the weaker demand for professional services – which includes financial services – to the recent political uncertainty.

The relative volatility throughout 2019 in the UK economy has been particularly pronounced in the production industry, which increased by 1.1% in Quarter 1 2019, and fell by 1.8% in Quarter 2 2019 (Figure 7).

Manufacturing was the main driver behind this volatility in production, with the pick-up in Quarter 1 being consistent with activity being brought forward ahead of the UK's original intended EU departure date. The second quarter of 2019 saw a reversal of this with manufacturing output falling by 2.8%. This was in part an unwinding from the increase seen in Quarter 1, and partly as a result of a decline in car production as a result of car production plants bringing forward their summer shut-downs.

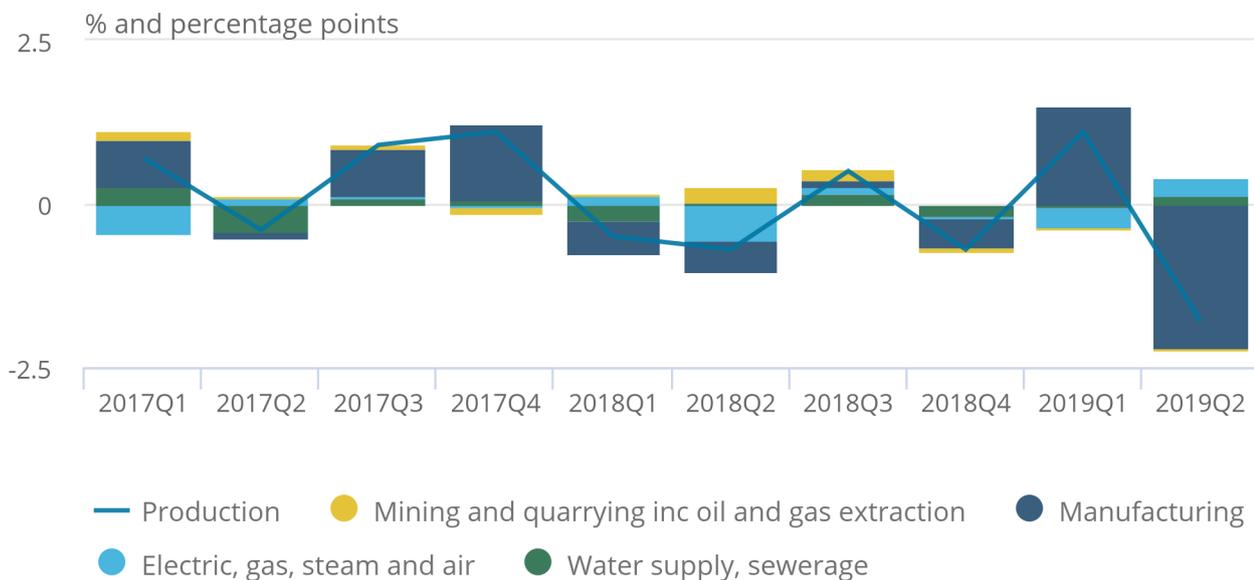
This effect was also reflected in the [Markit UK Manufacturing PMI \(PDF, 148KB\)](#) for June 2019, which reported that manufacturing output contracted at the fastest pace since October 2012. The fall in Manufacturing PMI in June 2019 was the third consecutive month of decline, attributed to a combination of factors including high stock levels and ongoing Brexit uncertainty. Furthermore, the [Bank of England's Agents' Summary Survey](#) reported that growth in manufacturing goods exports in the second quarter was weak, with businesses stating that “they had lost, or were concerned about losing, sales to overseas competitors as European customers reassessed their supply chains.”

**Figure 7: Production output declined by 1.8% in Quarter 2 2019, driven by a fall in manufacturing**

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 2 (Apr to June) 2019

Figure 7: Production output declined by 1.8% in Quarter 2 2019, driven by a fall in manufacturing

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 2 (Apr to June) 2019



Source: Office for National Statistics – UK National Accounts

Notes:

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

2. Chart shows contribution to production quarter-on-quarter growth.
3. Components contributions may not sum to total due to rounding.

The fall in car production seen in Quarter 2 2019 was echoed in the recent [Society of Motor Manufacturers and Traders](#) survey, which reported that UK car production fell by 20% in the first six months of the year, attributed mainly to “falling demand in key markets, including the UK, exacerbated by factory shutdowns pulled forward in anticipation of the March Brexit deadline”. In addition, the recent [CBI Industrial Trends Survey](#) also recorded a fall in manufacturing output in the three months to June 2019. This was driven by the largest contraction in motor vehicle production since March 2009, because of the “bringing forward of planned seasonal plant closures to align with previous Brexit deadlines”.

Mining and quarrying output fell by 1.1% in the second quarter of 2019, driven by scheduled maintenance in a number of oil and gas fields. In contrast, electricity, gas, steam and air conditioning as well as water supply and sewerage production grew by 2.8% and 1.3% respectively in the second quarter.

Construction output decreased by 1.2% in Quarter 2 2019, following growth of 1.6% in the first quarter of 2019. The quarterly fall was due primarily to a decline in repair and maintenance work. According to the [Construction Purchasing Managers' Index \(PDF, 174KB\)](#) for June, construction output fell at the steepest rate since April 2009, reflecting mainly “heightened political and economic uncertainty”. However, public housing new work made a positive contribution, reflected in the latest [Bank of England's Agents' Summary Survey](#) where it was reported that “growth in social and affordable housing remained stronger” despite weaker housing market activity. For further information on the methodological revisions to construction output, please see the Revisions to GDP section of this publication.

## 5 . Large movements in net trade and gross capital formation for the second consecutive quarter

The expenditure approach to measuring gross domestic product (GDP) contracted by an unrevised 0.2% in Quarter 2 (Apr to June) 2019.

Whilst there have been revisions to the expenditure contributions for the latest quarter, the recent narrative around the large movements in net trade and gross capital formation in the first two quarters of 2019 remains relatively unchanged. Trade imports and exports have been volatile this year, in part reflecting the effects of movements of unspecified goods – which include non-monetary gold – in the first two quarters of the year. There has also been a reversal in the contribution of gross capital formation (GCF) in Quarter 2, reflecting to a large extent the pronounced building up of stocks in the run-up to the UK's original exit date from the European Union at the end of March. This decline in the contribution from GCF also reflects movements in valuables offsetting changes in the trade of non-monetary gold.

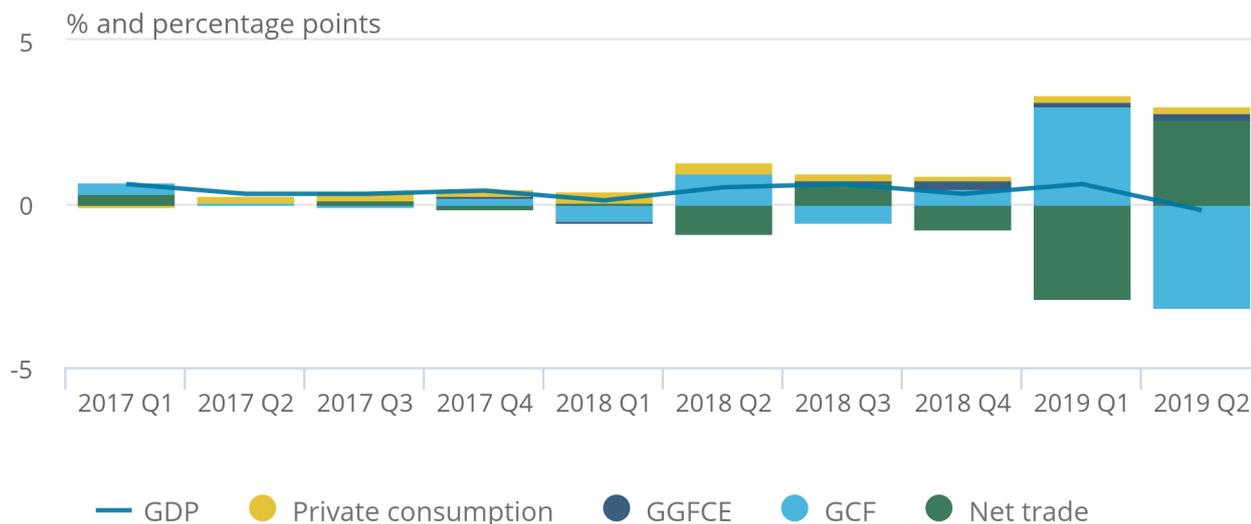
Private consumption – which consists of household expenditure and non-profit institutions serving households (NPISH) – and government consumption continued to contribute positively to GDP growth in Quarter 2 2019 (Figure 8).

**Figure 8: There have been large offsetting contributions to GDP growth from net trade and gross capital formation for the second consecutive quarter**

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 2 (Apr to June) 2019

Figure 8: There have been large offsetting contributions to GDP growth from net trade and gross capital formation for the second consecutive quarter

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 2 (Apr to June) 2019



Source: Office for National Statistics – UK National Accounts

Notes:

1. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept), and Q4 refers to Quarter 4 (Oct to Dec).
2. Chart shows contribution to GDP quarter-on-quarter growth.
3. Components contributions may not sum to total due to rounding. The statistical discrepancy is also not displayed.

There have been some revisions to the quarterly path of components of the expenditure measure of GDP throughout 2017 and 2018. Whilst the overall cumulative contribution of these revisions and their net impact on real GDP growth from Quarter 1 2017 onwards is broadly offsetting, there have been some revisions to the composition of demand over this period (Figure 9).

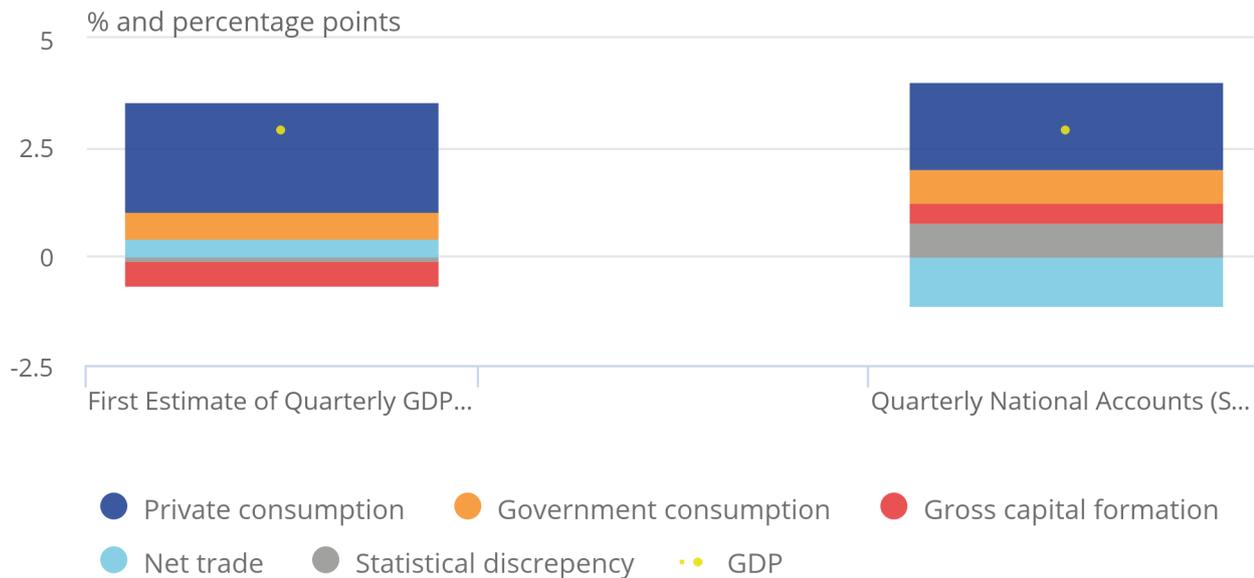
The latest estimates show that private consumption is now estimated to be weaker in recent periods, while there has been less external rebalancing than previously estimated – instead, net trade has provided a negative net contribution over these periods. These have been offset by an increase in gross capital formation over this period. The revisions to the expenditure components reflect primarily later survey returns, updated source data and methods changes introduced as part of Blue Book 2019. For further information on the drivers and impacts of these revisions, please see the [Revisions to GDP](#) section of this publication.

**Figure 9: There have been offsetting revisions to expenditure components of GDP, with cumulative GDP growth since Quarter 1 2017 unrevised at 2.9%**

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 2 (Apr to June) 2019

Figure 9: There have been offsetting revisions to expenditure components of GDP, with cumulative GDP growth since Quarter 1 2017 unrevised at 2.9%

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 2 (Apr to June) 2019



Source: Office for National Statistics – UK National Accounts

Notes:

1. Chart shows contribution to cumulative GDP growth since Quarter 1 2017.
2. Components contributions may not sum to total due to rounding.

Household consumption has been revised down in the first two quarters of 2019, which is more in line with some external indicators that point to a more subdued picture. Growth in household consumption has been revised down by 0.3 percentage points in Quarter 1 2019 and by 0.2 percentage points in Quarter 2 2019, due primarily to actual data replacing forecasts.

External evidence suggests that consumer spending remains relatively subdued, with the [GfK Consumer Confidence](#) index falling back in June 2019, which was attributed to consumers' continued concern over the wider economy coupled with falls in personal finance. The 0.4% increase in household consumption in Quarter 2 2019 in part reflects a 0.9% increase in expenditure on housing. Household spending includes all expenditure made by households that are resident in the UK, irrespective of where the spending takes place. As such, it is necessary to add spending that happens in the UK by non-residents and subtract spending that takes place outside of the UK by UK residents.

The latest revised figures show that annual growth in household consumption slowed to 1.6% in 2018, having increased by 3.8% in 2016 and 2.3% in 2017. Growth in expenditure on miscellaneous goods – which includes financial services – slowed notably, but still made the largest positive contribution to household consumption

growth in 2018. In addition, there has also been a notable slowing in household expenditure on recreation and culture as well as on food and drink. In contrast, household spending on housing, and household goods and services increased relative to 2018 (Figure 10).

**Figure 10: Growth in household consumption slowed to 1.6% in 2018, with a notable easing in expenditure on recreation and culture as well as miscellaneous goods and services**

UK, 2017 and 2018

Figure 10: Growth in household consumption slowed to 1.6% in 2018, with a notable easing in expenditure on recreation and culture as well as miscellaneous goods and services

UK, 2017 and 2018



Source: Office for National Statistics – UK National Accounts

Notes:

- Contributions represent contributions to overall household consumption growth. Contributions may not sum exactly due to rounding.

Government consumption expenditure estimates have been upwardly revised in the most recent quarter. In Quarter 2 2019, government expenditure increased by 1.1% – upwardly revised by 0.4 percentage points – most notably in health and education. First estimates of central government expenditure in a new financial year are provisional, as detailed outturn data are not yet available from all departments and devolved administrations at that point in time. This release includes a full first quarter of outturn data for the new financial year, reflecting updated estimates for the sector.

Despite some small revisions to import growth in the first two quarters of 2019, the recent narrative around movements in unspecified goods – which include non-monetary gold (NMG) – remains unchanged. There have been some notable movements in imports of unspecified goods in the second quarter of 2019, broadly representing a reversal in activity from the first quarter of 2019. These movements do not affect headline GDP as they are recorded as equivalent offsetting impacts in the UK National Accounts, but they are reflected in the composition of GDP growth. More information on [how non-monetary gold features in GDP](#) is available.

However, there have been notable revisions to the volume of exports of goods and services. For goods, this reflects updated source data from HM Revenue and Customs (HMRC) and updated methodology for converting data from a physical movement of goods basis to an economic ownership basis, and for services this reflects later survey returns. It is now estimated that there was a 6.6% fall in exports in Quarter 2 2019 – which has been downwardly revised by 3.2 percentage points – due partially to revised HMRC data indicating falls in unspecified goods, and machinery and transport equipment. This is consistent with a range of external evidence, including the recent [British Chamber of Commerce Quarterly Economic Survey](#), which recorded how the number of firms reporting an increase in export sales fell to a three-year low.

This helps explain why the UK trade deficit has been revised to 2.1% of nominal GDP in Quarter 2 2019, which was previously estimated as 0.8% of nominal GDP, following a significant widening in Quarter 1 where it reached 4.2% (Figure 11). That said, these figures were explained in part by large flows of unspecified goods in the first three months of the year in which the volume of imports increased by 10.3%. The narrowing of the trade deficit in Quarter 2 reflects a notable 13.0% decline in imports, with falls in imports of unspecified goods as well as transport equipment and chemicals.

**Figure 11: The UK trade deficit has been revised to 2.1% of nominal GDP in the second quarter of 2019**

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 2 (Apr to June) 2019

### Figure 11: The UK trade deficit has been revised to 2.1% of nominal GDP in the second quarter of 2019

UK, Quarter 1 (Jan to Mar) 2017 to Quarter 2 (Apr to June) 2019



Source: Office for National Statistics – UK National Accounts

Notes:

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

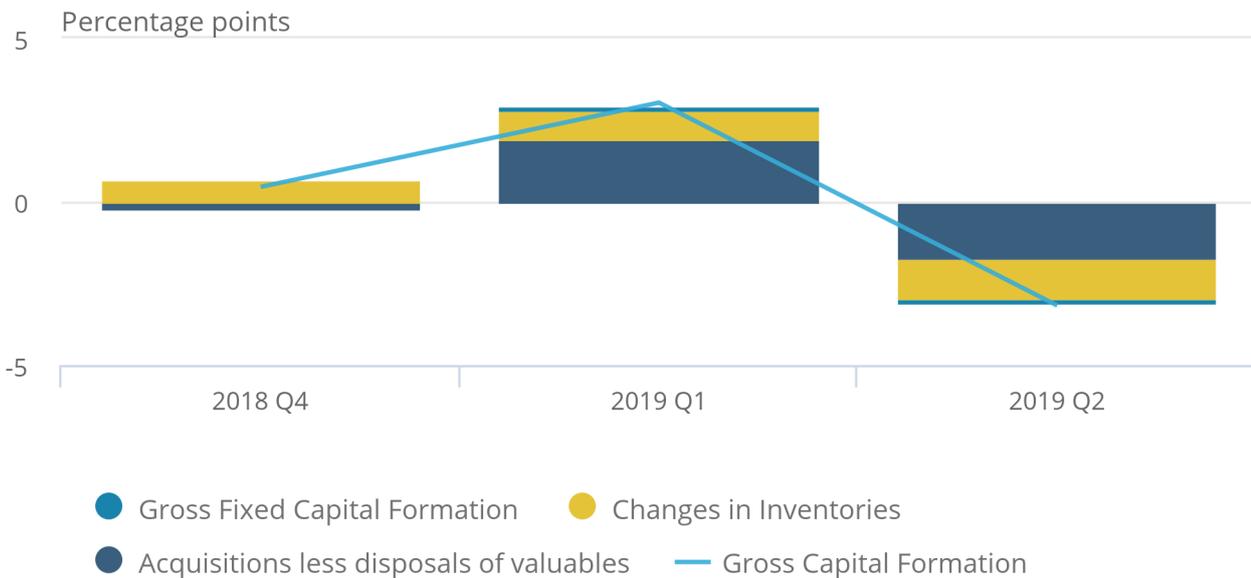
GCF – which includes gross fixed capital formation (GFCF), changes in inventories and acquisitions less disposal of valuables – declined 15.6% in Quarter 2 2019. This largely reflects a fallback from Quarter 1 2019, where GCF was boosted by the build-up of stocks held by some businesses ahead of the UK’s original exit date from the European Union at the end of March 2019, alongside notable movements in unspecified goods – which includes non-monetary gold – which fall within the valuables component of GCF. In Quarter 2 2019, changes in inventories (including both balancing and alignment adjustments) subtracted 1.19 percentage points from GDP growth (Figure 12).

**Figure 12: Gross capital formation contributed negatively to GDP growth in Quarter 2 2019, driven predominantly by acquisitions less disposals of valuables and changes in inventories**

UK, Quarter 1 (Jan to Mar) 2019 and Quarter 2 (Apr to June) 2019

Figure 12: Gross capital formation contributed negatively to GDP growth in Quarter 2 2019, driven predominantly by acquisitions less disposals of valuables and changes in inventories

UK, Quarter 1 (Jan to Mar) 2019 and Quarter 2 (Apr to June) 2019



Source: Office for National Statistics – UK National Accounts

**Notes:**

1. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q4 refers to Quarter 4 (Oct to Dec).
2. Contributions represent contributions to overall GDP growth.
3. These figures exclude the statistical alignment adjustment.
4. Components may not sum to total gross domestic product due to rounding and loss of additivity in data prior to open period. The statistical discrepancy is also not displayed.

5. As change in inventories and acquisition less disposal of valuables are change series, it is not possible to calculate fully additive contributions to growth. As a result, component contributions may not sum to total GCF.

Alignment adjustments and balancing adjustments are typically applied to the inventories component to help balance the different approaches to GDP – more detail on these can be found in the [Quality and methodology section](#) of this bulletin. When these adjustments are removed, the underlying data show a substantial decrease of approximately £4.2 billion in stocks being held by UK companies in the most recent quarter (Table 2). Falls in stock levels are seen across all manufacturing industries with the exception of materials and fuels, and mining and quarrying.

Table 2: Change in inventories, including and excluding balancing and alignment adjustments  
UK, Quarter 1 (Jan to Mar) 2017 to Quarter 2 (April to June) 2019

£ millions

		Change in Inventories	Of which alignment	Of which balancing	Change in Inventories excluding alignment and balancing
2017 Q1	Current price	3148	1863	1000	285
	Chained volume measure	-577	1833	1000	-3410
2017 Q2	Current price	581	-1967	-1000	3548
	Chained volume measure	-2232	-1937	-1000	705
2017 Q3	Current price	266	-349	-	615
	Chained volume measure	-2784	-342	-	-2442
2017 Q4	Current price	732	453	-	279
	Chained volume measure	-3381	446	-	-3827
2018 Q1	Current price	-2239	-2600	500	-139
	Chained volume measure	-4062	-2516	-1000	-546
2018 Q2	Current price	2644	1841	-	803
	Chained volume measure	549	1781	1500	-2732
2018 Q3	Current price	801	-22	-1000	1823
	Chained volume measure	-2358	-17	-1000	-1341
2018 Q4	Current price	3122	781	1000	1341
	Chained volume measure	1030	752	1000	-722
2019 Q1	Current price	5021	-1766	-500	7287
	Chained volume measure	5530	-1679	-500	7709
2019 Q2	Current price	2367	2131	-	236
	Chained volume measure	-705	2012	1500	-4217

Source: Office for National Statistics – UK National Accounts

GFCF decreased by an unrevised 0.9% in the second quarter of 2019, in part reflecting a 3.6% fall in government investment. This was driven by widespread falls, although users should note that both government consumption and investment figures are based on the latest available budgetary information provided by government departments including HM Treasury and local government. These estimates may be subject to revision when outturn data become available.

Business investment also fell by 0.4% in the latest quarter, in line with its recent trend of late, in which there were four consecutive quarters of decline throughout 2018. Previous analysis has highlighted how business investment has been subdued compared with comparative points in previous cycles, as external evidence has pointed to the effects of heightened economic uncertainty. Figure 13 shows that there have been downward revisions to the quarterly path of business investment estimates, reinforcing the narrative from external commentators that uncertainty is likely to be weighing on capital spending by firms.

**Figure 13: Downward revisions to the quarterly path of business investment as uncertainty weighs on firms' capital spending**

UK, Quarter 1 (Jan to Mar) 2016 to Quarter 2 (Apr to June) 2019

Figure 13: Downward revisions to the quarterly path of business investment as uncertainty weighs on firms' capital spending

UK, Quarter 1 (Jan to Mar) 2016 to Quarter 2 (Apr to June) 2019



Source: Office for National Statistics – UK National Accounts

Notes:

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

The fall in the latest quarter was driven by declines in investment in information and communication technology (ICT) equipment and other machinery and equipment. The fall in business investment in Quarter 2 2019 is consistent with a variety of external evidence, including the recent [Deloitte CFO Survey](#), which recorded continued corporate caution caused by high-risk aversion amongst businesses centred around the recent political uncertainty. In addition, the [Bank of England's Agents' Summary](#) for Quarter 2 2019 recorded the lowest score for investment intentions since January 2010, with the majority of contacts reporting that "they did not view the extension of the EU withdrawal period as an opportunity to unlock investment".

These figures should be interpreted with some caution as early estimates of business investment can be prone to revision. Furthermore, it should be noted that these estimates are subject to higher levels of uncertainty in this release, reflecting the introduction of International Financial Reporting Standard (IFRS) 16 Leases in January 2019 – further information can be found in the [Things you need to know about this release](#) section.

## 6 . Nominal GDP grew by 0.7% in Quarter 2 2019, revised up by 0.3 percentage points compared with the first quarterly estimate

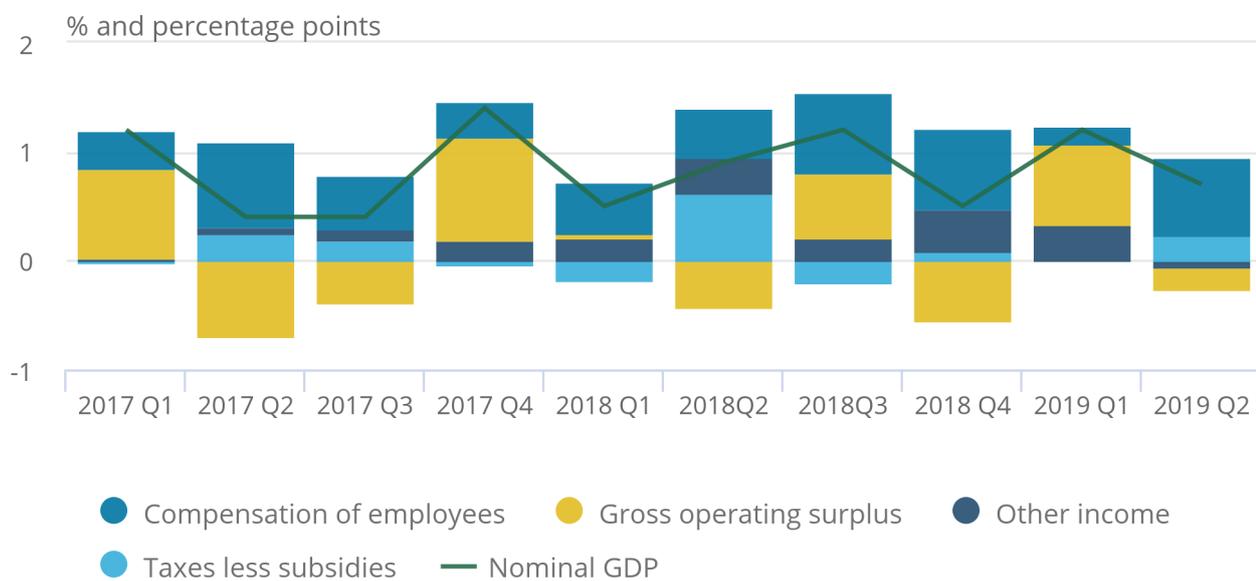
Nominal gross domestic product (GDP) increased by 0.7% in Quarter 2 (Apr to June) 2019, an upward revision of 0.3 percentage points. This reflects upward revisions to gross operating surplus and compensation of employees, reflecting primarily actual data replacing forecasts. This represents a slowing in nominal GDP growth following an increase of 1.2% in the first quarter of 2019 (Figure 14).

**Figure 14: Nominal GDP grew by an upwardly revised 0.7% in Quarter 2 2019, driven by an increase in compensation of employees**

UK, Quarter 1 (Jan to Mar) 2017 and Quarter 2 (Apr to June) 2019

Figure 14: Nominal GDP grew by an upwardly revised 0.7% in Quarter 2 2019, driven by an increase in compensation of employees

UK, Quarter 1 (Jan to Mar) 2017 and Quarter 2 (Apr to June) 2019



Source: Office for National Statistics – UK National Accounts

**Notes:**

1. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept), and Q4 refers to Quarter 4 (Oct to Dec).
2. Chart shows contribution to nominal GDP quarter-on-quarter growth.

3. Components contributions may not sum to total due to rounding.

Compensation of employees increased by 1.5% in Quarter 2 2019, an upward revision of 0.2 percentage points caused by actual data replacing forecasts, picking up from the 0.3% recorded in the first quarter. The growth in the second quarter was driven by wages and salaries, which grew 1.1%, as well as employers' social contributions, which grew 3.8%. According to the [Bank of England's Agents' Summary Survey](#), wage growth in consumer services in Quarter 2 2019 was mainly caused by increase in the National Living Wage. More information on growth in wages and salaries can be found in the recent [Labour market overview, UK: August 2019](#).

Gross operating surplus fell by 0.9% in Quarter 2 2019, an upward revision of 2.3 percentage points, primarily reflecting revisions to imputed rental data. This represents a notable drop from the 3.6% growth recorded in the first quarter. There have been large revisions to mixed income through 2017 and 2018, which primarily relates to the income of the self-employed. These revisions reflect updated source data and methodological improvements. More information can be found in the [Revisions to GDP](#) section. Mixed income continued to grow in the second quarter of 2019, albeit at a reduced pace, increasing by a revised 0.5%. This marks a slowing from the 3.8% growth recorded in the first quarter.

## 7 . Revisions to GDP

In this Blue Book 2019-consistent dataset, a number of methodological changes have been made and improved source data have been used, in addition to revisions caused by taking on updated source data as would happen in all quarterly national accounts releases. Further details about the main changes affecting this release are provided in this section, along with analysis of the revisions to each quarter from 2017 onwards.

### A new framework for GDP

We have made considerable progress in improving how we compile estimates of gross domestic product (GDP), where we have used [a new framework](#) to inform headline GDP estimates. This involves confronting the estimates from the three approaches to measuring GDP using the supply and use tables (SUTs) framework for both current price and volume estimates of GDP. This includes progress in:

- incorporating a wider set of more appropriate available product deflators for each transaction, confronting these at a detailed product level for the first time
- full integration of the institutional sectors into the balancing process of the SUTs framework
- improving our estimates of current price GDP by using new data sources to give information on the diversification of the services economy and the costs incurred by businesses

New, improved data sources in the form of the Annual Survey of Goods and Services and the Annual Purchases Survey have also been used to improve the quality of current price estimates. These surveys have helped provide new insights on the diversification of the services economy and the costs incurred by businesses in their production process.

Further information appears in [National Accounts articles: Blue Book 2019 impacts on GDP current price and chained volume measure estimates: 1997 to 2016](#), published on 20 August 2019.

### Methodological improvements in Blue Book 2019

There have been a number of methodological changes incorporated in the national accounts in Blue Book 2019 including:

- [improvements to the estimation of capital stocks and the consumption of fixed capital](#)
- [improvements to the non-profit institutions serving households \(NPISH\) sector](#)
- [further development of UK trade data](#)
- [improvements to the measurement of gross fixed capital formation and business investment](#)
- improved recording of Value Added Tax (VAT) refunds data for the National Health Service, academies, the British Broadcasting Corporation and police commissioners
- the change in inventories component is now calculated on an industry by product basis allowing a more accurate estimate to be produced in a supply and use tables (SUTs) framework, additionally deflation is now carried out on a product by asset basis for the first time, instead of at industry level

## Construction output

The impact of the improvements to construction output estimates resulting from the new imputation methodology and bias adjustment implemented in June 2018, can now be seen for the period before 2017 (further detail can be found in Section 6 of the [impact of improvements to construction statistics article](#)).

Further revisions across the whole period can also be seen as a result of:

- late responses to surveys replacing imputations, or revisions to original returns
- revisions to seasonal adjustment factors, which are re-estimated every month and reviewed annually
- HM Revenue and Customs (HMRC) Value Added Tax (VAT) returns replacing Monthly Business Survey (MBS) data for small- and medium-sized businesses for Quarter 4 (Oct to Dec) 2018 and Quarter 1 (Jan to Mar) 2019 as well as potential revisions to previous VAT turnover data
- revisions to the input series for the construction output price indices

## VAT turnover data

Value Added Tax (VAT) turnover data for Quarter 4 (Oct to Dec) 2018 and Quarter 1 (Jan to Mar) 2019 and revisions for earlier periods have been incorporated into the compilation of the output approach to measuring GDP. This data source replaces estimates initially gathered from the Monthly Business Survey (MBS) for some industries. VAT has only been used to estimate growth rates, with the overall level of output still derived from the Annual Business Survey and other annual benchmark sources.

## Mixed income and gross operating surplus (GOS)

Revisions to mixed income reflect updated data sources and processing of component level data. Previously, the most up to date estimates of Mixed Income solely used labour market measures of self-employment and employee wage growth to measure self-employed income. The new methodology reflects movements in the different incomes streams of the self-employed including unincorporated company and rental incomes.

Improved processing systems have been implemented for estimates of gross operating surplus, these have led to better alignment with HMRC benchmarks and improved seasonal adjustment.

## Imputed and actual rental

Price and volume data sources used to estimate actual and imputed rental have been updated, replacing forecasts previously used from 2016 onwards. The quarter-on-quarter growth in price of private rentals (sourced from the Valuation Office Agency) fell during 2016 and 2017 as reported in the [Index of Private Housing Rental Prices](#), UK. This has led to downward revisions to rental data, which has impacted on all three approaches to measuring GDP.

Table 3 provides the revisions to headline GDP for each quarter within the quarterly tail.

Table 3: Revisions to quarter-on-quarter growth for components of GDP  
Quarter 1 2017 to Quarter 2 2019

### Percentage points

	Q1 2017	Q2 2017	Q3 2017	Q4 2017	Q1 2018	Q2 2018	Q3 2018	Q4 2018	Q1 2019	Q2 2019
Average GDP in chained volume measures	0.2	0.0	-0.2	0.0	0.0	0.1	-0.1	0.1	0.1	0.0
Output										
Production	0.4	-0.7	-0.1	0.5	-0.6	-0.1	-0.1	0.1	0.0	-0.4
Construction	1.0	0.1	-0.6	0.4	-0.7	0.2	-0.6	0.7	0.2	0.1
Services	-0.3	0.0	-0.1	0.1	0.2	0.2	0.0	0.0	0.0	0.0
Expenditure										
Households	-0.2	-0.1	-0.1	0.0	0.0	0.0	-0.1	-0.1	-0.3	-0.1
Non-profit institutions serving households	1.1	0.6	0.3	0.8	0.9	-0.2	0.8	0.3	0.6	-0.5
General government	0.5	-0.5	0.2	0.2	-0.4	0.4	0.5	0.3	0.0	0.4
Gross capital formation	0.7	1.0	0.1	1.0	-2.0	2.3	-5.4	3.0	1.1	4.3
Total exports	0.2	1.2	-0.9	-1.6	0.6	-1.6	2.5	-1.1	0.1	-3.3
Total imports	-1.6	1.4	0.0	-0.4	-0.3	0.0	0.2	0.7	-0.5	-0.1
Average GDP in current prices	0.0	0.0	-0.7	0.4	-0.2	0.2	0.1	-0.2	0.3	0.3
Income										
Compensation of employees	0.0	0.1	0.4	-0.3	0.1	0.0	-0.1	0.6	-0.1	0.2
Gross operating surplus of corporations	1.6	0.7	-3.5	2.3	0.0	0.6	1.7	-2.9	1.0	2.3
Other income	-0.5	0.0	0.4	0.4	-0.2	0.4	-0.2	0.8	0.9	-1.2

### Notes

1. Q1 refers to Quarter 1 (Jan to Mar) Q2 refers to Quarter 2 (Apr to June) Q3 refers to Quarter 3 (July to Sept) and Q4 refers to Quarter 4 (Oct to Dec). [Back to table](#)
2. Revisions are between the first quarterly estimate of GDP published 9 August 2019 and quarterly national accounts published 30 September 2019. [Back to table](#)

## **Quarter 1 2017**

GDP in volume terms has been revised upwards by 0.2 percentage points from the previous estimate of 0.4%. This aligns average GDP growth with growth in the output approach to measuring GDP, with upward revisions to government expenditure, gross capital formation (GCF) and trade exports in the expenditure approach and gross operating surplus of corporations in the income approach.

## **Quarter 2 2017**

Both nominal and GDP in volume terms are unrevised. Upward revisions to imports and exports of goods arise from updated source data from HMRC and updated methodology for converting data from a physical movement of goods basis to an economic ownership basis. For imports and exports of services revisions reflect methodological changes introduced as part of the annual Blue Book process.

## **Quarter 3 2017**

GDP in volume terms has been revised down by 0.2 percentage points from the previous estimate of 0.5%. Production, construction and services output have been revised downwards, with a revision of 0.6 percentage points to estimates of construction output resulting from changes to nominal data as well as revised seasonal adjustment factors.

## **Quarter 4 2017**

GDP is unrevised in volume terms, while nominal GDP has been revised up by 0.4 percentage points. In the income approach to measuring GDP we see an upward revision of 2.3 percentage points to gross operating surplus of corporations. This can be attributed to better alignment with HM Revenue and Customs (HMRC) benchmarks and improved seasonal adjustment factors.

## **Quarter 1 2018**

GDP is unrevised in volume terms, with a 0.2 percentage points downward revision to nominal GDP estimates. There have been revisions across a number of expenditure components in nominal terms, which have led to this revision.

## **Quarter 2 2018**

In volume terms, GDP has been revised upwards by 0.1 percentage points. Services output was revised upwards by 0.2 percentage points, with upward revisions across all four services sectors resulting from revisions to VAT turnover data and Monthly Business Survey estimates incorporated in this release.

## **Quarter 3 2018**

GDP in volume terms has been revised downwards by 0.1 percentage points. There was a notable downward revision of 5.4 percentage points to gross capital formation estimates. This was in part driven by broad-based revisions to the change in inventories estimates resulting from late data being taken on for the quarterly stocks inquiry from Quarter 2 2018 onwards, along with rebalancing and new seasonal adjustment factors.

## Quarter 4 2018

In volume terms, GDP has been revised upwards by 0.1 percentage points. We have seen an upward revision resulting from the use of VAT turnover data in the measurement of services, production and construction output for the first time. VAT turnover data replaces the Monthly Business Survey once available, helping to improve the coverage and quality of our output estimates.

## Quarter 1 2019

GDP in volume terms has been revised upwards by 0.1 percentage points. This output-led revision can be attributed to the incorporation of VAT turnover data in the national accounts for this quarter for the first time. This had led to an upward revision to construction output of 0.2 percentage points and an upward revision to services output (to less than one decimal place).

## Quarter 2 2019

GDP is unrevised in volume terms but revised upwards by 0.3 percentage points in nominal terms. This upwards revision can be in part attributed to the GDP implied deflator, where improved data sources become available for this period replacing forecasts for estimates of trade, government expenditure and gross capital formation.

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

Table 4: International GDP growth rate comparisons  
Quarter 1 (Jan to Mar) 2017 to Quarter 2 (Apr to June) 2019

	<b>EU28</b>	<b>EA19</b>	<b>G7</b>	<b>France</b>	<b>Germany</b>	<b>Italy</b>	<b>UK</b>	<b>Canada</b>	<b>Japan</b>	<b>USA</b>
Q1 2017	0.7	0.7	0.7	0.8	1.2	0.6	0.6	1.0	0.8	0.6
Q2 2017	0.6	0.7	0.5	0.7	0.6	0.4	0.3	1.1	0.4	0.5
Q3 2017	0.7	0.8	0.7	0.7	0.9	0.4	0.3	0.3	0.7	0.8
Q4 2017	0.7	0.8	0.7	0.7	0.7	0.4	0.4	0.4	0.3	0.9
Q1 2018	0.4	0.3	0.4	0.2	0.1	0.2	0.1	0.4	-0.1	0.6
Q2 2018	0.4	0.4	0.6	0.2	0.4	0.0	0.5	0.6	0.5	0.9
Q3 2018	0.3	0.2	0.4	0.3	-0.1	-0.1	0.6	0.5	-0.5	0.7
Q4 2018	0.4	0.3	0.3	0.4	0.2	-0.1	0.3	0.1	0.4	0.3
Q1 2019	0.5	0.4	0.6	0.3	0.4	0.1	0.6	0.1	0.5	0.8
Q2 2019	0.2	0.2	0.3	0.3	-0.1	0.0	-0.2	0.9	0.3	0.5

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

### Notes

1. Table shows quarter-on-quarter % change. [Back to table](#)
2. Data are chained volume measures and are seasonally adjusted. [Back to table](#)

3. All series except G7 are in national currencies. G7 is in US dollars to allow additivity between countries with differing national currencies. [Back to table](#)

Within our international comparison, the UK and Germany were the only two countries to see negative growth in Quarter 2 (Apr to June) 2019. This is the first time the UK has experienced negative growth since Quarter 4 (Oct to Dec) 2012. Whereas for Germany, this growth level is the same as that in Quarter 3 (July to Sept) 2018. Italy's economy did not see any growth in Quarter 2 2019.

The strongest growth seen in the last quarter was 0.9% in Canada. European Union (EU28) economies grew by an average of 0.2% in Quarter 2 2019, the weakest growth seen since Quarter 1 (Jan to Mar) 2016.

G7 countries saw an average 0.3% growth in Quarter 2 2019, the same growth rate as in Quarter 4 2018. Most G7 countries are above their pre-economic downturn peaks, the exception being Italy where GDP remains 5.1% below the pre-downturn peak (Quarter 1 2008). The United States is still showing the biggest recovery over this period, up 21.4% since the downturn. Canada is showing the second-largest recovery, up 20.4% over the period.

The estimates quoted in this international comparison section are the latest available estimates at the time of preparation of this statistical bulletin and may have subsequently been revised. The data are gathered from the [Organisation for Economic Co-operation and Development's website](#) excluding the data from the UK, which is compiled by the Office for National Statistics.

## 9 . 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 30 September 2019 and are consistent with the data in this release.

A number of other economic indicators were published on 30 September 2019, these include:

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

### Monthly GDP

On 9 September 2019, estimates of [Monthly GDP](#) were published for July 2019. [The Index of Services](#), [Index of Production](#) and [Construction output in Great Britain](#) publications covering the period up to July 2019 are also available. The next monthly GDP release (on 10 October 2019) will include data consistent with the revisions seen in this release.

### Blue Book 2019

On 31 October 2019 we will publish [UK National Accounts, the Blue Book: 2019](#).

## Regional gross domestic product (GDP)

On 5 September 2019 we published experimental estimates of [GDP for UK regions and countries](#) for the period October to December 2018.

## 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 information

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

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

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

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

### Reaching the GDP balance

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

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

Alignment adjustments, found in Table M of the [quarterly national accounts data tables in this release](#), have a target limit of plus or minus £2,000 million on any quarter. However, in periods where the data sources are particularly difficult to balance, larger alignment adjustments are sometimes needed; this has been the case in Quarter 1 (Jan to Mar) 2018 and Quarter 2 (Apr to June) 2019 for expenditure. To achieve a balanced GDP dataset through alignment, balancing adjustments are applied to the components of GDP where required. They are applied to the individual components where data content is particularly weak in a given quarter because of a higher level of forecast content. The balancing adjustments applied in this quarter are shown in Table 5, the resulting series should be considered accordingly.

Table 5: Balancing adjustments applied to the Quarterly National Accounts dataset  
Quarter 1 (Jan to Mar) 2017 to Quarter 2 (Apr to June) 2019

<b>GDP measurement approach and component adjustment applied to</b>		<b>Q1 2017</b>	<b>Q2 2017</b>	<b>Q3 2017</b>	<b>Q4 2017</b>	<b>Q1 2018</b>	<b>Q2 2018</b>	<b>Q3 2018</b>	<b>Q4 2018</b>	<b>Q1 2019</b>	<b>Q2 2019</b>
<b>Expenditure</b> Trade in Services (exports)	Current prices	-	-	-	-	600	-350	-	-	-800	-
	Chained volume measure	-	-	-	-	250	400	500	500	-800	-
Trade in Services (imports)	Current prices	-	-	-	-	-400	650	-	-	700	-
	Chained volume measure	-	-	-	-	-	-850	-250	-250	700	-
Change in inventories	Current prices	1000	-1000	-	-	500	-	-1000	1000	-500	-
	Chained volume measure	1000	-1000	-	-	-1000	1500	-1000	1000	-500	1500
<b>Income</b> Private non-financial corporations gross operating surplus	Current prices	-	-	-	-	1000	1000	400	-1000	2000	-
	Financial corporations gross operating surplus	-	-	-	-	1000	500	-	-1500	-	-

Source: Office for National Statistics – UK National Accounts

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

2016 = 100

	Value indices at current prices		Chained volume indices				Implied deflators <sup>3</sup>		
	Gross domestic product at market prices	Gross value added at basic prices	Gross domestic product at market prices	Gross value added at basic prices	Gross national disposable income at market prices	Market sector gross value added	Gross national expenditure	Gross domestic product at market prices	Gross value added at basic prices
	YBEU	YBEX	YBEZ	CGCE	YBFP	L48H	YBFV	YBGB	CGBV
2015	96.1	96.1	98.1	98.1	97.9	97.6	98.1	97.9	98.0
2016	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2017	103.8	103.9	101.9	102.0	103.0	102.8	102.2	101.9	101.8
2018	107.3	107.3	103.3	103.4	104.1	104.7	104.2	103.8	103.8
<b>Seasonally adjusted</b>									
2016 Q1	98.2	98.1	99.2	99.2	98.5	99.0	99.1	99.0	98.9
Q2	99.7	99.8	99.7	99.7	99.2	99.9	100.0	100.0	100.1
Q3	100.4	100.5	100.2	100.2	100.3	100.1	100.2	100.2	100.3
Q4	101.7	101.7	100.8	100.9	102.0	101.0	100.7	100.9	100.8
2017 Q1	102.9	103.0	101.4	101.5	102.9	102.2	102.0	101.5	101.4
Q2	103.3	103.5	101.7	101.8	102.3	102.5	101.8	101.6	101.7
Q3	103.8	103.7	102.0	102.1	103.2	103.0	102.1	101.7	101.6
Q4	105.2	105.3	102.4	102.5	103.8	103.7	102.9	102.7	102.7
2018 Q1	105.8	106.1	102.5	102.6	103.6	103.6	103.4	103.2	103.5
Q2	106.7	106.5	103.0	103.1	104.2	104.4	104.1	103.6	103.3
Q3	108.0	108.1	103.7	103.7	104.2	105.2	104.8	104.2	104.2
Q4	108.5	108.6	104.0	104.1	104.4	105.5	104.6	104.3	104.4
2019 Q1	109.8	110.0	104.6	104.7	106.9	106.0	104.7	105.0	105.1
Q2	110.6	110.8	104.4	104.4	105.6	105.6	106.0	106.0	106.1
<b>Percentage change, latest year on previous year</b>									
	IHYM	KGL6	IHYP	KGM7	KH6X	L489	KH7D	IHYS	KGM4
2015	3.0	3.0	2.4	2.2	2.6	2.7	0.1	0.6	0.8
2016	4.1	4.0	1.9	1.9	2.1	2.5	1.9	2.1	2.0
2017	3.8	3.9	1.9	2.0	3.0	2.8	2.2	1.9	1.8
2018	3.3	3.3	1.4	1.4	1.0	1.8	2.0	1.9	2.0
<b>Percentage change, latest quarter on previous quarter</b>									
	IHYN	KGL8	IHYQ	KGM9	KH6Z		KH7E	IHYT	KGM5
2016 Q1	1.2	1.0	0.2	0.3	1.8	1.4	1.3	1.0	0.8
Q2	1.6	1.7	0.5	0.5	0.6	1.0	0.9	1.0	1.2
Q3	0.6	0.7	0.5	0.5	1.1	0.2	0.2	0.2	0.1
Q4	1.3	1.2	0.6	0.7	1.7	0.9	0.4	0.7	0.5
2017 Q1	1.2	1.2	0.6	0.6	0.8	1.1	1.3	0.6	0.7
Q2	0.4	0.5	0.3	0.3	-0.6	0.3	-0.2	0.2	0.2
Q3	0.4	0.2	0.3	0.3	0.9	0.5	0.2	0.1	-0.1
Q4	1.4	1.5	0.4	0.4	0.6	0.7	0.8	1.0	1.2
2018 Q1	0.5	0.8	0.1	-	-0.1	-0.1	0.5	0.5	0.7
Q2	0.9	0.4	0.5	0.5	0.5	0.8	0.6	0.3	-0.2
Q3	1.2	1.5	0.6	0.6	-	0.7	0.7	0.6	0.9
Q4	0.5	0.5	0.3	0.3	0.2	0.3	-0.2	0.2	0.1
2019 Q1	1.2	1.3	0.6	0.6	2.4	0.5	0.1	0.6	0.7
Q2	0.7	0.8	-0.2	-0.2	-1.2	-0.4	1.3	1.0	1.0
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>									
	IHYO	KGM2	IHYR	KGN3	KH73	L48D	KH7F	IHYU	KGM6
2016 Q1	3.7	3.4	2.1	2.0	1.2	1.7	1.2	1.6	1.4
Q2	3.8	3.7	1.9	1.8	-	2.2	1.8	1.9	1.9
Q3	4.1	4.1	1.9	2.0	1.9	2.5	1.7	2.1	2.1
Q4	4.8	4.8	1.8	2.0	5.4	3.5	2.9	3.0	2.7
2017 Q1	4.8	5.0	2.2	2.3	4.4	3.2	2.9	2.5	2.6
Q2	3.6	3.7	1.9	2.1	3.1	2.6	1.8	1.6	1.6
Q3	3.4	3.2	1.8	1.9	2.9	2.9	1.8	1.6	1.3
Q4	3.5	3.6	1.6	1.6	1.7	2.7	2.2	1.8	2.0
2018 Q1	2.8	3.1	1.1	1.0	0.7	1.5	1.4	1.7	2.0
Q2	3.3	2.9	1.3	1.3	1.8	1.9	2.2	1.9	1.6
Q3	4.0	4.2	1.6	1.6	1.0	2.1	2.7	2.4	2.6
Q4	3.1	3.1	1.5	1.5	0.6	1.7	1.7	1.6	1.6
2019 Q1	3.8	3.6	2.1	2.1	3.1	2.3	1.2	1.7	1.5
Q2	3.7	4.0	1.3	1.3	1.3	1.1	1.9	2.3	2.7

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

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

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

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

£ million

	Current prices					Chained Volume Measures (Reference year 2016)				
	Gross national income at market prices	Net income from abroad <sup>2</sup>	Gross domestic product at market prices	less Basic price adjustment <sup>3</sup>	Gross value added at basic prices	Gross domestic product at market prices	less Basic price adjustment <sup>3</sup>	Gross value added at basic prices	Gross value added excluding oil & gas <sup>4</sup>	
	ABMZ	CAES	YBHA	NTAP	ABML	ABMI	NTAO	ABMM	KLS2	
2015	1 873 043	-43 853	1 916 896	207 571	1 709 325	1 957 920	213 742	1 744 182	1 736 086	
2016	1 947 547	-47 931	1 995 478	217 344	1 778 134	1 995 478	217 344	1 778 134	1 769 730	
2017	2 046 968	-24 699	2 071 667	224 764	1 846 903	2 033 234	219 805	1 813 429	1 804 895	
2018	2 111 426	-28 852	2 140 278	231 670	1 908 608	2 061 408	223 389	1 838 019	1 828 879	
<b>Seasonally adjusted</b>										
2016 Q1	474 885	-14 936	489 821	53 833	435 988	494 966	54 020	440 945	438 885	
Q2	483 509	-14 062	497 571	54 081	443 490	497 593	54 559	443 035	440 959	
Q3	490 142	-10 569	500 711	54 137	446 574	499 836	54 386	445 450	443 235	
Q4	499 011	-8 364	507 375	55 293	452 082	503 083	54 379	448 704	446 651	
2017 Q1	509 166	-4 292	513 458	55 757	457 701	505 983	54 682	451 301	449 181	
Q2	507 982	-7 552	515 534	55 579	459 955	507 255	54 823	452 432	450 296	
Q3	511 882	-5 906	517 788	56 732	461 056	508 982	55 022	453 960	451 784	
Q4	517 938	-6 949	524 887	56 696	468 191	511 014	55 278	455 736	453 634	
2018 Q1	521 362	-6 401	527 763	55 952	471 811	511 300	55 364	455 936	453 775	
Q2	527 034	-5 354	532 388	58 898	473 490	514 017	55 713	458 304	456 025	
Q3	531 849	-6 907	538 756	58 205	480 551	517 221	56 065	461 156	458 781	
Q4	531 181	-10 190	541 371	58 615	482 756	518 870	56 247	462 623	460 298	
2019 Q1	544 473	-3 411	547 884	58 941	488 943	521 873	56 564	465 309	463 026	
Q2	544 804	-7 094	551 898	59 277	492 621	520 735	56 448	464 287	462 013	
<b>Percentage change, latest year on previous year</b>										
	KH74		IHYM		KGL6		IHYP		KGM7	KLH8
2015	2.7		3.0		3.0		2.4		2.2	2.1
2016	4.0		4.1		4.0		1.9		1.9	1.9
2017	5.1		3.8		3.9		1.9		2.0	2.0
2018	3.1		3.3		3.3		1.4		1.4	1.3
<b>Percentage change, latest quarter on previous quarter</b>										
	KH75		IHYN		KGL8		IHYQ		KGM9	
2016 Q1	2.0		1.2		1.0		0.2		0.3	0.3
Q2	1.8		1.6		1.7		0.5		0.5	0.5
Q3	1.4		0.6		0.7		0.5		0.5	0.5
Q4	1.8		1.3		1.2		0.6		0.7	0.8
2017 Q1	2.0		1.2		1.2		0.6		0.6	0.6
Q2	-0.2		0.4		0.5		0.3		0.3	0.2
Q3	0.8		0.4		0.2		0.3		0.3	0.3
Q4	1.2		1.4		1.5		0.4		0.4	0.4
2018 Q1	0.7		0.5		0.8		0.1		-	-
Q2	1.1		0.9		0.4		0.5		0.5	0.5
Q3	0.9		1.2		1.5		0.6		0.6	0.6
Q4	-0.1		0.5		0.5		0.3		0.3	0.3
2019 Q1	2.5		1.2		1.3		0.6		0.6	0.6
Q2	0.1		0.7		0.8		-0.2		-0.2	-0.2
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>										
	KH76		IHYO		KGM2		IHYR		KGN3	KLH9
2016 Q1	2.8		3.7		3.4		2.1		2.0	1.9
Q2	2.2		3.8		3.7		1.9		1.8	1.8
Q3	3.8		4.1		4.1		1.9		2.0	2.0
Q4	7.2		4.8		4.8		1.8		2.0	2.0
2017 Q1	7.2		4.8		5.0		2.2		2.3	2.3
Q2	5.1		3.6		3.7		1.9		2.1	2.1
Q3	4.4		3.4		3.2		1.8		1.9	1.9
Q4	3.8		3.5		3.6		1.6		1.6	1.6
2018 Q1	2.4		2.8		3.1		1.1		1.0	1.0
Q2	3.8		3.3		2.9		1.3		1.3	1.3
Q3	3.9		4.0		4.2		1.6		1.6	1.5
Q4	2.6		3.1		3.1		1.5		1.5	1.5
2019 Q1	4.4		3.8		3.6		2.1		2.1	2.0
Q2	3.4		3.7		4.0		1.3		1.3	1.3

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

2 Includes employment, entrepreneurial and property income.

3 Taxes on products less subsidies.

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

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

2016 = 100

	Production							Service industries					Gross value added <sup>4</sup>	Gross value added excluding oil & gas
	Agri- culture, forestry, and fishing	Mining & quarrying inc oil & gas extract	Manu- facturing	Electric, gas, steam & air	Water supply, sewerage	Total	Constru- ction	Distri- bution, hotels & restaura- nts	Transport storage and commu- nications	Business services and finance	Govern- ment and other services	Total		
<b>2016 Weights<sup>3</sup></b>	7	6	102	15	13	136	61	133	108	339	217	796	1000	995
	L2KL	L2KR	L2KX	L2MW	L2N2	L2KQ	L2N8	L2PZ	KI8M	KI8O	KI8Q	L2NC	CGCE	KLH7
2015	105.9	102.0	99.8	96.4	93.3	98.9	96.2	96.5	97.3	97.4	100.5	98.0	98.1	98.1
2016	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2017	105.7	101.7	102.2	98.2	102.0	101.7	106.4	102.4	103.6	101.0	101.2	101.7	102.0	102.0
2018	101.5	106.6	102.6	96.4	100.2	101.9	106.0	105.4	106.9	103.2	102.3	103.8	103.4	103.3
<b>Seasonally adjusted</b>														
2016 Q1	100.7	99.2	99.0	97.1	98.4	98.8	98.1	99.0	98.7	99.1	100.2	99.3	99.2	99.2
Q2	99.2	99.1	100.7	102.1	100.1	100.8	99.7	99.5	98.9	99.3	99.9	99.5	99.7	99.7
Q3	99.3	103.7	99.7	99.1	100.1	99.9	100.4	99.9	100.8	100.5	99.9	100.3	100.2	100.2
Q4	100.9	98.0	100.5	101.6	101.4	100.6	101.7	101.6	101.5	101.0	100.1	100.9	100.9	101.0
2017 Q1	105.6	100.9	101.5	97.4	104.5	101.3	106.0	101.8	101.8	100.8	101.0	101.1	101.5	101.5
Q2	105.7	101.9	101.3	98.4	100.3	100.9	106.2	102.3	103.4	100.6	101.5	101.5	101.8	101.8
Q3	106.3	103.3	102.3	98.7	101.3	101.8	106.4	102.7	104.0	101.1	101.2	101.8	102.1	102.1
Q4	105.3	100.6	103.8	98.5	101.9	102.9	107.2	102.9	105.1	101.6	101.1	102.2	102.5	102.5
2018 Q1	102.2	101.5	103.2	99.7	99.6	102.4	104.8	103.1	104.3	102.6	101.8	102.7	102.6	102.6
Q2	101.2	106.5	102.5	94.6	99.9	101.6	105.6	105.1	106.0	103.1	102.1	103.6	103.1	103.1
Q3	100.9	110.2	102.7	95.7	101.5	102.2	106.8	106.2	108.0	103.4	102.5	104.2	103.7	103.7
Q4	101.7	108.3	102.1	95.5	99.7	101.4	107.0	107.0	109.4	103.7	102.8	104.8	104.1	104.0
2019 Q1	100.2	107.3	104.1	92.8	99.2	102.5	108.7	107.9	111.1	103.4	103.4	105.2	104.7	104.7
Q2	99.8	106.2	101.2	95.4	100.4	100.7	107.4	107.9	111.8	103.4	103.6	105.3	104.4	104.4
<b>Percentage change, latest year on previous year</b>														
	L3BB	L3BH	L3BN	L3DM	L3DQ	L3BG	L3DW	L3GP	KI8L	KI8N	KI8P	L3E2	KGM7	KLH8
2015	1.0	5.1	-0.1	2.2	4.6	1.0	4.0	4.0	3.7	2.1	0.7	2.2	2.2	2.1
2016	-5.5	-2.0	0.2	3.7	7.1	1.1	3.9	3.7	2.8	2.7	-0.5	2.0	1.9	1.9
2017	5.7	1.7	2.2	-1.8	2.0	1.7	6.4	2.4	3.6	1.0	1.2	1.7	2.0	2.0
2018	-4.0	4.8	0.4	-1.9	-1.8	0.1	-0.4	2.8	3.2	2.1	1.1	2.1	1.4	1.3
<b>Percentage change, latest quarter on previous quarter</b>														
													KGM9	
2016 Q1	-3.7	-3.4	-0.1	2.1	3.4	0.3	1.1	1.3	0.7	0.6	-1.1	0.2	0.3	0.3
Q2	-1.5	-0.1	1.7	5.1	1.8	2.0	1.6	0.5	0.2	0.2	-0.3	0.1	0.5	0.5
Q3	0.1	4.6	-1.0	-3.0	-	-0.9	0.7	0.3	1.9	1.1	-	0.8	0.5	0.5
Q4	1.6	-5.5	0.8	2.6	1.4	0.7	1.3	1.8	0.7	0.6	0.2	0.7	0.7	0.8
2017 Q1	4.7	3.0	0.9	-4.1	3.0	0.7	4.2	0.2	0.2	-0.3	0.9	0.2	0.6	0.6
Q2	0.1	1.0	-0.1	0.9	-4.0	-0.4	0.3	0.5	1.6	-0.2	0.5	0.4	0.3	0.2
Q3	0.6	1.3	0.9	0.3	1.0	0.9	0.1	0.4	0.6	0.5	-0.2	0.3	0.3	0.3
Q4	-1.0	-2.6	1.5	-0.2	0.6	1.1	0.7	0.2	1.0	0.5	-0.2	0.4	0.4	0.4
2018 Q1	-3.0	0.8	-0.7	1.2	-2.3	-0.5	-2.2	0.2	-0.8	1.0	0.7	0.5	-	-
Q2	-0.9	5.0	-0.6	-5.1	0.3	-0.7	0.7	1.9	1.6	0.5	0.3	0.8	0.5	0.5
Q3	-0.3	3.4	0.1	1.2	1.6	0.5	1.2	1.1	1.8	0.2	0.4	0.6	0.6	0.6
Q4	0.8	-1.7	-0.6	-0.2	-1.7	-0.7	0.2	0.7	1.3	0.3	0.3	0.5	0.3	0.3
2019 Q1	-1.4	-0.9	2.0	-2.8	-0.6	1.1	1.6	0.9	1.5	-0.3	0.6	0.4	0.6	0.6
Q2	-0.4	-1.1	-2.8	2.8	1.2	-1.8	-1.2	-	0.6	-	0.2	0.1	-0.2	-0.2
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>														
	L3ZZ	L427	L42D	L44C	L44G	L426	L44M	L47F	KI12	KI19	KI18	L44Q	KGN3	KLH9
2016 Q1	-4.8	2.90	-1.4	-0.5	9.1	0.1	2.6	4.2	2.9	2.4	0.8	2.3	2.0	1.9
Q2	-7.0	-6.80	0.6	6.8	6.9	1.4	3.4	3.4	1.6	2.6	-0.4	1.8	1.8	1.8
Q3	-6.8	1.00	0.2	2.0	6.0	1.0	5.0	3.1	3.1	3.1	-0.9	2.0	2.0	2.0
Q4	-3.5	-4.60	1.4	6.8	6.6	2.1	4.8	3.9	3.5	2.5	-1.3	1.8	2.0	2.0
2017 Q1	4.9	1.70	2.4	0.3	6.2	2.5	8.0	2.9	3.1	1.7	0.8	1.8	2.3	2.3
Q2	6.6	2.80	0.6	-3.7	0.2	0.2	6.5	2.8	4.6	1.3	1.6	2.1	2.1	2.1
Q3	7.1	-0.40	2.6	-0.4	1.2	2.0	5.9	2.9	3.2	0.6	1.4	1.5	1.9	1.9
Q4	4.4	2.70	3.3	-3.1	0.5	2.3	5.4	1.3	3.5	0.6	1.0	1.2	1.6	1.6
2018 Q1	-3.3	0.50	1.7	2.3	-4.7	1.1	-1.1	1.3	2.5	1.8	0.8	1.5	1.0	1.0
Q2	-4.3	4.50	1.2	-3.8	-0.4	0.7	-0.6	2.7	2.5	2.5	0.6	2.0	1.3	1.3
Q3	-5.1	6.70	0.4	-3.0	0.2	0.3	0.4	3.4	3.8	2.2	1.2	2.4	1.6	1.5
Q4	-3.5	7.60	-1.7	-3.0	-2.1	-1.5	-0.2	4.0	4.1	2.0	1.7	2.6	1.5	1.5
2019 Q1	-1.9	5.80	0.9	-6.9	-0.4	0.2	3.7	4.7	6.5	0.8	1.6	2.4	2.1	2.0
Q2	-1.4	-0.30	-1.3	0.9	0.5	-0.9	1.8	2.7	5.4	0.3	1.4	1.7	1.3	1.3

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

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

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

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

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

2016 = 100

Service industries											
	Wholesale and retail trade	Transport storage and communications	Accommodation & food services	Financial and insurance activities	Real estate	Professional scientific admin & support	Public admin, defence, social security	Education	Health and social work	Other services <sup>4</sup>	Total services
<b>2016 Weights<sup>3</sup></b>	105	108	28	72	140	126	49	58	75	35	796
	L2NE	KI8M	L2NQ	L2O6	L2OC	L2OH	L2P8	L2PA	L2PC	L2Q5	L2NC
2015	95.9	97.3	98.5	96.3	98.0	97.3	102.0	100.8	98.4	102.3	98.0
2016	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
2017	102.5	103.6	102.4	99.1	99.0	104.3	100.8	101.2	101.0	102.1	101.7
2018	105.6	106.9	104.3	99.0	100.4	108.8	101.6	101.7	102.4	104.0	103.8
<b>Seasonally adjusted</b>											
2016 Q1	98.9	98.7	99.6	98.4	99.7	98.9	100.6	100.5	99.8	100.0	99.3
Q2	99.5	98.9	99.7	98.4	99.7	99.4	99.9	99.8	99.8	100.1	99.5
Q3	99.8	100.8	100.0	102.2	99.9	100.2	99.7	99.6	100.0	100.3	100.3
Q4	101.8	101.5	100.7	101.0	100.6	101.5	99.9	100.1	100.3	99.7	100.9
2017 Q1	101.7	101.8	102.2	99.9	99.3	102.9	100.4	101.5	101.0	101.0	101.1
Q2	102.2	103.4	102.6	99.6	98.9	103.0	101.1	101.2	101.5	102.4	101.5
Q3	102.8	104.0	102.5	98.9	98.8	104.9	100.7	101.2	101.1	102.6	101.8
Q4	103.1	105.1	102.2	98.1	99.1	106.5	100.9	101.0	100.6	102.3	102.2
2018 Q1	103.4	104.3	102.0	99.5	100.2	107.1	100.7	101.0	102.2	103.6	102.7
Q2	105.3	106.0	104.2	99.3	100.4	108.2	101.2	101.5	102.0	104.6	103.6
Q3	106.7	108.0	104.6	99.0	100.3	109.2	102.3	101.6	102.5	104.4	104.2
Q4	107.1	109.4	106.3	98.1	100.5	110.5	102.2	102.7	103.1	103.3	104.8
2019 Q1	108.3	111.1	106.7	96.6	100.7	110.3	103.4	103.6	103.5	102.9	105.2
Q2	108.4	111.8	106.4	96.2	101.0	110.2	103.7	104.3	104.0	101.4	105.3
<b>Percentage change, latest year on previous year</b>											
	L3E4	KI8L	L3EG	L3EU	L3F2	L3F7	L3FW	L3FY	L3G2	L3GT	L3E2
2015	3.9	3.7	4.4	-3.8	2.8	4.9	-2.4	1.1	1.7	2.3	2.2
2016	4.2	2.8	1.5	3.8	2.0	2.8	-1.9	-0.8	1.6	-2.3	2.0
2017	2.5	3.6	2.4	-0.9	-1.0	4.3	0.8	1.2	1.0	2.1	1.7
2018	3.1	3.2	1.9	-0.2	1.3	4.2	0.8	0.5	1.4	1.9	2.1
<b>Percentage change, latest quarter on previous quarter</b>											
2016 Q1	1.9	0.7	-1.1	0.7	0.6	0.5	-1.0	-1.0	0.2	-4.3	0.2
Q2	0.6	0.2	0.1	-	-	0.6	-0.7	-0.8	-	0.1	0.1
Q3	0.3	1.9	0.3	3.9	0.1	0.8	-0.2	-0.2	0.2	0.2	0.8
Q4	2.0	0.7	0.6	-1.1	0.8	1.3	0.2	0.5	0.4	-0.6	0.7
2017 Q1	-0.1	0.2	1.5	-1.1	-1.3	1.4	0.5	1.4	0.6	1.4	0.2
Q2	0.5	1.6	0.4	-0.3	-0.4	0.1	0.7	-0.3	0.5	1.4	0.4
Q3	0.5	0.6	-0.2	-0.7	-0.1	1.8	-0.4	-	-0.4	0.1	0.3
Q4	0.3	1.0	-0.3	-0.8	0.3	1.5	0.2	-0.2	-0.4	-0.2	0.4
2018 Q1	0.3	-0.8	-0.1	1.4	1.1	0.6	-0.2	-	1.5	1.2	0.5
Q2	1.9	1.6	2.1	-0.2	0.2	1.1	0.5	0.5	-0.2	1.0	0.8
Q3	1.3	1.8	0.4	-0.3	-0.1	0.9	1.1	0.1	0.5	-0.3	0.6
Q4	0.4	1.3	1.6	-1.0	0.1	1.2	-0.1	1.1	0.6	-1.0	0.5
2019 Q1	1.1	1.5	0.3	-1.5	0.2	-0.2	1.2	0.9	0.4	-0.4	0.4
Q2	0.1	0.6	-0.3	-0.4	0.3	-0.1	0.3	0.7	0.5	-1.5	0.1
<b>Percentage change, latest quarter on corresponding quarter of the previous year</b>											
	L44S	KI12	L456	L45K	L45Q	L45V	L46M	L46O	L46Q	L47J	L44Q
2016 Q1	4.6	2.9	2.7	-1.2	3.4	3.6	-2.0	0.5	3.6	-0.9	2.3
Q2	3.8	1.6	2.0	3.9	2.0	2.6	-2.3	-0.6	1.5	-1.6	1.8
Q3	3.6	3.1	1.4	9.5	1.1	2.0	-1.8	-1.6	0.7	-1.9	2.0
Q4	5.0	3.5	-0.1	3.4	1.5	3.1	-1.7	-1.5	0.7	-4.6	1.8
2017 Q1	2.9	3.1	2.6	1.5	-0.4	4.1	-0.2	0.9	1.2	1.1	1.8
Q2	2.7	4.6	2.9	1.3	-0.8	3.6	1.2	1.4	1.6	2.3	2.1
Q3	3.0	3.2	2.4	-3.2	-1.1	4.7	1.0	1.6	1.1	2.3	1.5
Q4	1.2	3.5	1.5	-2.9	-1.5	4.9	1.1	0.9	0.3	2.7	1.2
2018 Q1	1.6	2.5	-0.2	-0.4	0.9	4.0	0.3	-0.4	1.2	2.5	1.5
Q2	3.1	2.5	1.5	-0.3	1.5	5.1	0.1	0.3	0.5	2.2	2.0
Q3	3.8	3.8	2.1	0.1	1.5	4.1	1.6	0.4	1.4	1.8	2.4
Q4	3.9	4.1	4.0	-	1.3	3.8	1.2	1.7	2.4	0.9	2.6
2019 Q1	4.7	6.5	4.5	-2.9	0.5	3.0	2.6	2.6	1.3	-0.7	2.4
Q2	2.9	5.4	2.1	-3.1	0.5	1.8	2.5	2.7	2.0	-3.1	1.7

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

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

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

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

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

£ million

National expenditure on goods and services at market prices																
Final consumption expenditure				Gross capital formation									Statistical discrepancy		Gross domestic product at market prices	
Households	Non-profit institutions <sup>2</sup>	General government	Gross fixed capital formation	Of which business investment <sup>3</sup>	Changes in inventories <sup>4</sup>	Of which alignment adjustment	Acquisitions less disposals of valuables <sup>5</sup>	Total	Total exports	Gross final expenditure	less imports	Total Trade balance <sup>6</sup>	(expenditure)			
ABJQ	HAYE	NMRP	NPQS	NPEK	CAEX	DMUN	NPJQ	YBIL	IKBH	ABMF	IKBI	IKBJ	GIXM	YBHA		
2015	1 189 246	46 637	373 675	324 623	183 576	9 213	-	-40 1 943 354	530 049	2 473 403	556 507	-26 458	-	1 916 896		
2016	1 252 934	46 117	381 522	343 694	195 973	3 580	-	-47 2 027 800	567 499	2 595 299	599 822	-32 323	1	1 995 478		
2017	1 300 305	46 560	386 667	357 080	204 945	4 727	-	1 245 2 096	584 629	2 725 669	654 212	-25 127	210	2 071 667		
2018	1 354 729	47 368	395 987	363 183	204 716	4 328	-	2 085 2 167	680 642	2 809 910	679 959	-37 729	10 327	2 140 278		
<b>Seasonally adjusted</b>																
2016 Q1	306 386	11 657	94 626	83 885	47 838	132	1 077	375	497 061	133 840	630 901	141 080	-7 240	-	489 821	
Q2	312 192	11 548	95 240	85 457	48 768	-22	-954	-1 238	503 177	139 552	642 729	145 158	-5 606	-	497 571	
Q3	316 633	11 459	95 635	87 250	49 931	819	1 861	2 700	514 496	141 260	655 756	155 046	-13 786	1	500 711	
Q4	317 723	11 453	96 021	87 102	49 436	2 651	-1 984	-1 884	513 066	152 847	665 913	158 538	-5 691	-	507 375	
2017 Q1	322 444	11 501	96 497	87 774	50 752	3 148	1 863	-373	520 991	153 417	674 408	160 845	-7 428	-105	513 458	
Q2	323 934	11 623	95 869	89 125	51 268	581	-1 967	321	521 453	157 655	679 108	163 473	-5 818	-101	515 534	
Q3	325 010	11 679	96 670	89 686	51 562	266	-349	420	523 731	159 024	682 755	164 956	-5 932	-11	517 788	
Q4	328 917	11 757	97 631	90 495	51 363	732	453	877	530 409	158 989	689 398	164 938	-5 949	427	524 887	
2018 Q1	334 235	11 789	98 150	89 897	51 498	-2 239	-2 600	558	532 390	157 707	690 097	163 493	-5 786	1 159	527 763	
Q2	337 796	11 838	98 172	90 630	51 393	2 644	1 841	1 292	542 372	156 623	698 995	168 667	-12 044	2 060	532 388	
Q3	340 578	11 866	99 029	91 251	50 950	801	-22	1 051	544 576	162 306	706 882	171 207	-8 901	3 081	538 756	
Q4	342 120	11 875	100 636	91 405	50 875	3 122	781	-816	548 342	165 594	713 936	176 592	-10 998	4 027	541 371	
2019 Q1	343 697	11 898	102 216	93 702	51 888	5 021	-1 766	9 979	566 513	166 780	733 293	189 529	-22 749	4 120	547 884	
Q2	346 240	11 938	104 441	92 898	52 049	2 367	2 131	1 170	559 054	156 886	715 940	168 280	-11 394	4 238	551 898	
<b>Percentage change, latest year on previous year</b>																
	KG Y7	KG Z8	KH 2C	KG 6O	KG 6N			KG X3	KH 2O	KG V7	KH 3H			IHY M		
2015	2.9	4.0	1.2	6.5	9.6			2.9	-0.1	2.3	-			3.0		
2016	5.4	-1.1	2.1	5.9	6.8			4.3	7.1	4.9	7.8			4.1		
2017	3.8	1.0	1.3	3.9	4.6			3.4	10.9	5.0	9.1			3.8		
2018	4.2	1.7	2.4	1.7	-0.1			3.4	2.1	3.1	3.9			3.3		
<b>Percentage change, latest quarter on previous quarter</b>																
	KG Y8	KG Z9	KH 2D	KG 6W	KG 6V			KG X4	KH 2P	KG V8	KH 3I			IHY N		
2016 Q1	1.5	-0.5	1.2	1.8	1.7			1.5	-0.1	1.2	1.2			1.2		
Q2	1.9	-0.9	0.6	1.9	1.9			1.2	4.3	1.9	2.9			1.6		
Q3	1.4	-0.8	0.4	2.1	2.4			2.2	1.2	2.0	6.8			0.6		
Q4	0.3	-0.1	0.4	-0.2	-1.0			-0.3	8.2	1.5	2.3			1.3		
2017 Q1	1.5	0.4	0.5	0.8	2.7			1.5	0.4	1.3	1.5			1.2		
Q2	0.5	1.1	-0.7	1.5	1.0			0.1	2.8	0.7	1.6			0.4		
Q3	0.3	0.5	0.8	0.6	0.6			0.4	0.9	0.5	0.9			0.4		
Q4	1.2	0.7	1.0	0.9	-0.4			1.3	-	1.0	-			1.4		
2018 Q1	1.6	0.3	0.5	-0.7	0.3			0.4	-0.8	0.1	-0.9			0.5		
Q2	1.1	0.4	-	0.8	-0.2			1.9	-0.7	1.3	3.2			0.9		
Q3	0.8	0.2	0.9	0.7	-0.9			0.4	3.6	1.1	1.5			1.2		
Q4	0.5	0.1	1.6	0.2	-0.1			0.7	2.0	1.0	3.1			0.5		
2019 Q1	0.5	0.2	1.6	2.5	2.0			3.3	0.7	2.7	7.3			1.2		
Q2	0.7	0.3	2.2	-0.9	0.3			-1.3	-5.9	-2.4	-11.2			0.7		
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>																
	KG Y9	KH 22	KH 2E	KG 76	KG 75			KG X5	KH 2Q	KG V9	KH 3J			IHY O		
2016 Q1	4.9	0.9	2.1	4.5	5.7			3.0	1.6	2.7	-0.8			3.7		
Q2	5.5	-0.9	2.3	5.1	6.7			4.2	3.3	4.0	4.6			3.8		
Q3	5.8	-2.2	1.3	8.2	9.5			5.4	9.2	6.2	13.8			4.1		
Q4	5.2	-2.2	2.7	5.7	5.1			4.8	14.1	6.8	13.7			4.8		
2017 Q1	5.2	-1.3	2.0	4.6	6.1			4.8	14.6	6.9	14.0			4.8		
Q2	3.8	0.6	0.7	4.3	5.1			3.6	13.0	5.7	12.6			3.6		
Q3	2.6	1.9	1.1	2.8	3.3			1.8	12.6	4.1	6.4			3.4		
Q4	3.5	2.7	1.7	3.9	3.9			3.4	4.0	3.5	4.0			3.5		
2018 Q1	3.7	2.5	1.7	2.4	1.5			2.2	2.8	2.3	1.6			2.8		
Q2	4.3	1.8	2.4	1.7	0.2			4.0	-0.7	2.9	3.2			3.3		
Q3	4.8	1.6	2.4	1.7	-1.2			4.0	2.1	3.5	3.8			4.0		
Q4	4.0	1.0	3.1	1.0	-1.0			3.4	4.2	3.6	7.1			3.1		
2019 Q1	2.8	0.9	4.1	4.2	0.8			6.4	5.8	6.3	15.9			3.8		
Q2	2.5	0.8	6.4	2.5	1.3			3.1	0.2	2.4	-0.2			3.7		

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

2 Non-profit institutions serving households.

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

4 Quarterly alignment adjustment included in this series.

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

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

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

Reference year 2016, £ million

National expenditure on goods and services at market prices																
Final consumption expenditure				Gross capital formation												
Year	Households		Non-profit institutions <sup>2</sup>	General government	Gross fixed capital formation	Of which business investment <sup>3</sup>	Changes in inventories <sup>4</sup>	Of which alignment adjustment	Acquisitions less disposals of valuables <sup>5</sup>	Total	Exports	Gross final expenditure	Imports	Trade balance <sup>6</sup>	Statistical discrepancy (expenditure)	Gross domestic product at market prices
	ABJR	HAYO	NMRY	NPQT	NPEL	CAFU	DMUM	NPJR	YBIM	IKBK	ABMG	IKBL	IKBM	GIXS	ABMI	
2015	1 206 496	46 830	377 900	331 615	187 908	16 067	-1	-447 190	191 552	388 253	610 574	575 -22	187	-	1 957 920	
2016	1 252 934	46 117	381 522	343 690	195 973	3 580	1	-48 202	800 567	499 259	299 599	822 -32	323	1	1 995 478	
2017	1 281 722	46 042	382 508	349 306	201 708	-8 974	-	1 149 205	749 602	123 265	872 620	838 -18	715	200	2 033 234	
2018	1 302 397	46 387	384 955	349 055	198 489	-4 841	-	1 877 207	828 596	923 267	751 625	272 -28	349	9 929	2 061 408	
<b>Seasonally adjusted</b>																
2016 Q1	307 634	11 758	95 369	84 898	48 473	937	1 082	-202	501 741	139 793	641 544	146 569	-6 776	-	494 966	
Q2	312 091	11 543	95 290	85 673	48 954	-398	-961	-1 509	503 159	142 154	645 294	147 688	-5 534	-	497 593	
Q3	315 828	11 429	95 386	86 818	49 745	3 154	1 852	2 989	513 262	138 543	651 896	152 072	-13 529	1	499 836	
Q4	317 381	11 387	95 477	86 301	48 801	-113	-1 972	-1 326	509 638	147 009	656 565	153 493	-6 484	-	503 083	
2017 Q1	318 897	11 466	95 419	86 336	49 910	-577	1 833	-636	510 905	147 656	658 561	152 474	-4 818	-104	505 983	
Q2	319 788	11 519	95 460	87 551	50 490	-2 232	-1 937	42	512 127	151 190	663 317	155 962	-4 772	-100	507 255	
Q3	321 032	11 489	95 724	87 218	50 603	-2 784	-342	519	513 197	152 771	665 968	156 975	-4 204	-11	508 982	
Q4	322 005	11 568	95 905	88 201	50 705	-3 381	446	1 224	515 520	150 506	666 026	155 427	-4 921	415	511 014	
2018 Q1	323 731	11 652	95 677	87 364	50 188	-4 062	-2 516	387	514 748	149 438	664 186	154 009	-4 571	1 123	511 300	
Q2	325 480	11 554	95 646	86 984	49 882	549	1 781	882	521 095	145 600	666 695	154 667	-9 067	1 989	514 017	
Q3	326 303	11 586	96 040	87 396	49 463	-2 358	-17	833	519 800	150 590	670 390	156 127	-5 537	2 958	517 221	
Q4	326 883	11 595	97 592	87 311	48 956	1 030	752	-225	524 185	151 295	675 480	160 469	-9 174	3 859	518 870	
2019 Q1	327 866	11 585	98 387	88 073	49 362	5 530	-1 679	9 799	541 242	153 660	694 902	176 953	-23 293	3 924	521 873	
Q2	329 036	11 452	99 449	87 238	49 174	-705	2 012	720	527 190	143 541	670 731	153 994	-10 453	3 998	520 735	
<b>Percentage change, latest year on previous year</b>																
Year	KGZ5	KH26	KH2I	KG7N	KG7M			KGX9	KH2U	KGW5	KH3N				IHPY	
2015	2.9	4.1	1.8	3.7	7.2			2.9	3.8	3.1	5.4				2.4	
2016	3.8	-1.5	1.0	3.6	4.3			2.4	2.7	2.5	4.4				1.9	
2017	2.3	-0.2	0.3	1.6	2.9			1.2	6.1	2.3	3.5				1.9	
2018	1.6	0.7	0.6	-0.1	-1.6			1.4	-0.9	0.9	0.7				1.4	
<b>Percentage change, latest quarter on previous quarter</b>																
Year	KGZ6	KH27	KH2J	KG7Q	KG7P			KGY2	KH2V	KGW6	KH3O				IHYQ	
2016 Q1	1.5	-0.2	0.3	1.7	1.5			0.3	0.2	0.2	0.5				0.2	
Q2	1.4	-1.8	-0.1	0.9	1.0			0.3	1.7	0.6	0.8				0.5	
Q3	1.2	-1.0	0.1	1.3	1.6			2.0	-2.5	1.0	3.0				0.5	
Q4	0.5	-0.4	0.1	-0.6	-1.9			-0.7	6.1	0.7	0.9				0.6	
2017 Q1	0.5	0.7	-0.1	-	2.3			0.2	0.4	0.3	-0.7				0.6	
Q2	0.3	0.5	-	1.4	1.2			0.2	2.4	0.7	2.3				0.3	
Q3	0.4	-0.3	0.3	-0.4	0.2			0.2	1.0	0.4	0.6				0.3	
Q4	0.3	0.7	0.2	1.1	0.2			0.5	-1.5	-	-1.0				0.4	
2018 Q1	0.5	0.7	-0.2	-0.9	-1.0			-0.1	-0.7	-0.3	-0.9				0.1	
Q2	0.5	-0.8	-	-0.4	-0.6			1.2	-2.6	0.4	0.4				0.5	
Q3	0.3	0.3	0.4	0.5	-0.8			-0.2	3.4	0.6	0.9				0.6	
Q4	0.2	0.1	1.6	-0.1	-1.0			0.8	0.5	0.8	2.8				0.3	
2019 Q1	0.3	-0.1	0.8	0.9	0.8			3.3	1.6	2.9	10.3				0.6	
Q2	0.4	-1.1	1.1	-0.9	-0.4			-2.6	-6.6	-3.5	-13.0				-0.2	
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>																
Year	KGZ7	KH28	KH2K	KG7T	KG7S			KGY3	KH2W	KGW7	KH3P				IHYR	
2016 Q1	3.3	2.0	2.4	2.4	3.9			1.8	1.9	1.8	1.1				2.1	
Q2	3.6	-2.0	0.8	3.1	4.5			2.3	2.5	2.3	3.9				1.9	
Q3	3.8	-2.6	0.2	5.7	6.7			3.7	1.1	3.1	7.3				1.9	
Q4	4.7	-3.4	0.5	3.4	2.1			1.8	5.3	2.6	5.2				1.8	
2017 Q1	3.7	-2.5	0.1	1.7	3.0			1.8	5.6	2.7	4.0				2.2	
Q2	2.5	-0.2	0.2	2.2	3.1			1.8	6.4	2.8	5.6				1.9	
Q3	1.6	0.5	0.4	0.5	1.7			-	10.3	2.2	3.2				1.8	
Q4	1.5	1.6	0.4	2.2	3.9			1.2	2.4	1.4	1.3				1.6	
2018 Q1	1.5	1.6	0.3	1.2	0.6			0.8	1.2	0.9	1.0				1.1	
Q2	1.8	0.3	0.2	-0.6	-1.2			1.8	-3.7	0.5	-0.8				1.3	
Q3	1.6	0.8	0.3	0.2	-2.3			1.3	-1.4	0.7	-0.5				1.6	
Q4	1.5	0.2	1.8	-1.0	-3.4			1.7	0.5	1.4	3.2				1.5	
2019 Q1	1.3	-0.6	2.8	0.8	-1.6			5.1	2.8	4.6	14.9				2.1	
Q2	1.1	-0.9	4.0	0.3	-1.4			1.2	-1.4	0.6	-0.4				1.3	

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

2 Non-profit institutions serving households.

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

4 Quarterly alignment adjustment included in this series.

5 Acquisitions less disposals of valuables can be a volatile series due to the inclusion of non-monetary gold, but any volatility is likely to be GDP neutral as this is offset in UK trade figures. During quality assurance we identified an inconsistent use of deflator for estimates of non-monetary gold between valuables and trade. There is no impact on headline GDP. We will align these deflators at the next available opportunity.

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

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

£ million

	Compensation of employees		Gross operating surplus of corporations							Gross value added at factor cost	Taxes on products & production less subsidies	Statistical discrepancy (income)	Gross domestic product at market prices
	Wages and Salaries	Employers social contributions	Total	Private non-financial corporations <sup>2</sup>	Of which alignment adjustment	Financial corporations	Public corporations	Total <sup>3</sup>	Other income <sup>4</sup>				
	DTWL	DTWP	DTWM	CAER	DMUQ	NHCZ	CAEQ	CGBZ	CGBX	CGCB	CMVL	GIXQ	YBHA
2015	774 210	155 220	929 430	344 401	–	50 152	17 523	412 076	341 071	1 682 577	234 319	–	1 916 896
2016	802 669	165 055	967 724	353 011	–	56 652	17 986	427 649	356 317	1 751 690	243 788	–	1 995 478
2017	833 103	176 047	1 009 150	366 438	–	61 216	16 899	444 553	364 779	1 818 482	252 976	209	2 071 667
2018	872 904	180 073	1 052 977	379 654	–	57 720	11 294	448 668	383 577	1 885 222	259 702	–4 646	2 140 278
<b>Seasonally adjusted</b>													
2016 Q1	197 359	39 161	236 520	87 166	763	14 236	4 500	105 902	87 201	429 623	60 198	–	489 821
Q2	200 189	41 176	241 365	86 884	–799	14 518	4 491	105 893	89 411	436 669	60 902	–	497 571
Q3	202 242	41 990	244 232	86 370	–1 791	15 355	4 500	106 225	89 364	439 821	60 890	–	500 711
Q4	202 879	42 728	245 607	92 591	1 827	12 543	4 495	109 629	90 341	445 577	61 798	–	507 375
2017 Q1	203 787	43 667	247 454	94 290	126	15 040	4 424	113 754	90 479	451 687	61 738	33	513 458
Q2	207 471	44 043	251 514	89 203	–241	16 443	4 476	110 122	90 747	452 383	63 087	64	515 534
Q3	209 600	44 657	254 257	89 380	44	14 235	4 339	107 954	91 300	453 511	64 175	102	517 788
Q4	212 245	43 680	255 925	93 565	71	15 498	3 660	112 723	92 253	460 901	63 976	10	524 887
2018 Q1	215 461	43 164	258 625	94 515	1 220	15 548	2 826	112 889	93 499	465 013	62 929	–179	527 763
Q2	216 665	44 261	260 926	92 454	–1 155	15 404	2 891	110 749	95 240	466 915	66 135	–662	532 388
Q3	219 158	45 649	264 807	98 087	1 838	13 054	2 791	113 932	96 362	475 101	65 118	–1 463	538 756
Q4	221 620	46 999	268 619	94 598	–1 903	13 714	2 786	111 098	98 476	478 193	65 520	–2 342	541 371
2019 Q1	222 453	47 074	269 527	97 607	–101	14 574	2 872	115 053	100 315	484 895	65 536	–2 547	547 884
Q2	224 790	48 858	273 648	98 754	1 552	12 308	2 921	113 983	99 961	487 592	66 855	–2 549	551 898
<b>Percentage change, latest year on previous year</b>													
	CWNH	CWNE	KGI3	KH59		KH5L	KH53	KH4V	KH6T	KH6N	KH65		IHYM
2015	3.2	0.7	2.7	4.2		–15.3	5.3	1.4	5.5	3.0	2.9		3.0
2016	3.7	6.3	4.1	2.5		13.0	2.6	3.8	4.5	4.1	4.0		4.1
2017	3.8	6.7	4.3	3.8		8.1	–6.0	4.0	2.4	3.8	3.8		3.8
2018	4.8	2.3	4.3	3.6		–5.7	–33.2	0.9	5.2	3.7	2.7		3.3
<b>Percentage change, latest quarter on previous quarter</b>													
	CWNI	CWNF	KGI4	KH5A		KH5M	KH54	KH4W	KH6U	KH6O	KH66		IHYN
2016 Q1	1.5	–0.6	1.1	0.3		8.2	2.3	1.4	1.0	1.2	1.4		1.2
Q2	1.4	5.1	2.0	–0.3		2.0	–0.2	–	2.5	1.6	1.2		1.6
Q3	1.0	2.0	1.2	–0.6		5.8	0.2	0.3	–0.1	0.7	–		0.6
Q4	0.3	1.8	0.6	7.2		–18.3	–0.1	3.2	1.1	1.3	1.5		1.3
2017 Q1	0.4	2.2	0.8	1.8		19.9	–1.6	3.8	0.2	1.4	–0.1		1.2
Q2	1.8	0.9	1.6	–5.4		9.3	1.2	–3.2	0.3	0.2	2.2		0.4
Q3	1.0	1.4	1.1	0.2		–13.4	–3.1	–2.0	0.6	0.2	1.7		0.4
Q4	1.3	–2.2	0.7	4.7		8.9	–15.6	4.4	1.0	1.6	–0.3		1.4
2018 Q1	1.5	–1.2	1.1	1.0		0.3	–22.8	0.1	1.4	0.9	–1.6		0.5
Q2	0.6	2.5	0.9	–2.2		–0.9	2.3	–1.9	1.9	0.4	5.1		0.9
Q3	1.2	3.1	1.5	6.1		–15.3	–3.5	2.9	1.2	1.8	–1.5		1.2
Q4	1.1	3.0	1.4	–3.6		5.1	–0.2	–2.5	2.2	0.7	0.6		0.5
2019 Q1	0.4	0.2	0.3	3.2		6.3	3.1	3.6	1.9	1.4	–		1.2
Q2	1.1	3.8	1.5	1.2		–15.5	1.7	–0.9	–0.4	0.6	2.0		0.7
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>													
	CWNJ	CWNG	KGI5	KH5B		KH5N	KH55	KH4X	KH6V	KH6P	KH67		IHYO
2016 Q1	2.0	1.6	2.0	7.5		–1.7	3.7	6.0	4.6	3.5	5.7		3.7
Q2	3.9	6.2	4.3	–0.9		16.8	2.7	1.3	5.4	3.8	3.8		3.8
Q3	4.5	9.0	5.2	–2.7		52.4	2.0	2.9	3.2	4.2	2.7		4.1
Q4	4.3	8.4	5.0	6.6		–4.7	2.2	5.0	4.6	4.9	4.1		4.8
2017 Q1	3.3	11.5	4.6	8.2		5.6	–1.7	7.4	3.8	5.1	2.6		4.8
Q2	3.6	7.0	4.2	2.7		13.3	–0.3	4.0	1.5	3.6	3.6		3.6
Q3	3.6	6.4	4.1	3.5		–7.3	–3.6	1.6	2.2	3.1	5.4		3.4
Q4	4.6	2.2	4.2	1.1		23.6	–18.6	2.8	2.1	3.4	3.5		3.5
2018 Q1	5.7	–1.2	4.5	0.2		3.4	–36.1	–0.8	3.3	3.0	1.9		2.8
Q2	4.4	0.5	3.7	3.6		–6.3	–35.4	0.6	5.0	3.2	4.8		3.3
Q3	4.6	2.2	4.1	9.7		–8.3	–35.7	5.5	5.5	4.8	1.5		4.0
Q4	4.4	7.6	5.0	1.1		–11.5	–23.9	–1.4	6.7	3.8	2.4		3.1
2019 Q1	3.2	9.1	4.2	3.3		–6.3	1.6	1.9	7.3	4.3	4.1		3.8
Q2	3.8	10.4	4.9	6.8		–20.1	1.0	2.9	5.0	4.4	1.1		3.7

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

2 Quarterly alignment adjustment included in this series.

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

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

# E1 Household final consumption expenditure by purpose

## Current prices

£ million

### UK NATIONAL<sup>2</sup>

#### UK DOMESTIC<sup>3</sup>

COICOP <sup>1</sup>	Net tourism		Total	Food & drink	Alcohol & tobacco	Clothing & footwear	Housing	Household goods & services	Health	Transport	Communi-cation	Recreati-on & culture	Education	Restau-rants & hotels	Miscell-aneous
	Total	ABJQ													
2015	1 189 246	8 468	1 180 778	91 368	40 893	62 450	318 645	51 384	20 820	159 196	20 443	125 126	25 897	115 057	149 499
2016	1 252 934	13 923	1 239 011	95 238	40 997	64 769	335 515	54 318	21 974	166 828	21 445	133 419	27 918	119 941	156 649
2017	1 300 305	13 958	1 286 347	100 538	41 760	66 910	337 077	59 458	24 223	172 782	21 898	143 423	30 427	123 102	164 749
2018	1 354 729	15 863	1 338 866	104 137	44 171	67 622	347 510	65 514	26 988	182 916	21 406	148 869	31 190	124 847	173 696

#### Seasonally adjusted

2016 Q1	306 386	2 471	303 915	23 351	10 178	16 103	82 704	13 140	5 493	40 755	5 304	32 871	6 957	29 418	37 641
Q2	312 192	3 622	308 570	23 640	10 326	16 015	83 956	13 476	5 470	41 453	5 343	33 336	6 970	29 868	38 717
Q3	316 633	4 935	311 698	24 016	10 263	16 129	83 849	13 682	5 476	42 036	5 401	33 518	6 985	29 993	40 350
Q4	317 723	2 895	314 828	24 231	10 230	16 522	85 006	14 020	5 535	42 584	5 397	33 694	7 006	30 662	39 941
2017 Q1	322 444	3 704	318 740	24 658	10 183	16 751	84 048	14 268	5 799	43 704	5 393	35 014	7 563	30 492	40 867
Q2	323 934	3 096	320 838	25 026	10 475	16 758	83 921	14 918	6 070	42 359	5 491	35 913	7 591	30 708	41 608
Q3	325 010	3 302	321 708	25 245	10 464	16 714	84 209	15 167	6 125	42 680	5 524	36 076	7 622	31 053	40 829
Q4	328 917	3 856	325 061	25 609	10 638	16 687	84 899	15 105	6 229	44 039	5 490	36 420	7 651	30 849	41 445
2018 Q1	334 235	3 403	330 832	25 837	10 732	16 602	86 774	15 921	6 556	45 366	5 411	36 685	7 725	30 858	42 365
Q2	337 796	4 045	333 751	25 971	11 115	16 797	86 192	16 296	6 683	46 151	5 341	36 952	7 781	31 267	43 205
Q3	340 578	4 341	336 237	26 137	11 153	17 057	87 072	16 550	6 898	45 595	5 323	37 473	7 817	30 989	44 173
Q4	342 120	4 074	338 046	26 192	11 171	17 166	87 472	16 747	6 851	45 804	5 331	37 759	7 867	31 733	43 953
2019 Q1	343 697	4 407	339 290	26 316	11 308	17 535	87 741	16 926	6 886	45 458	5 344	38 162	7 892	31 639	44 083
Q2	346 240	5 009	341 231	26 498	11 287	17 756	89 358	17 238	6 877	45 829	5 377	38 283	7 922	31 618	43 188

#### Percentage change, latest year on previous year

	KG Y7	KG 6U	KG 9N	KG F3	KG F9	KG G7	KG H5	KG I6	KG J4	KG K2	KG K8	KG B2	KG C6	KG E2
2015	2.9	2.8	-2.1	-3.1	4.8	3.9	6.5	1.7	-0.2	0.4	6.1	10.9	3.8	2.3
2016	5.4	4.9	4.2	0.3	3.7	5.3	5.7	5.5	4.8	4.9	6.6	7.8	4.2	4.8
2017	3.8	3.8	5.6	1.9	3.3	0.5	9.5	10.2	3.6	2.1	7.5	9.0	2.6	5.2
2018	4.2	4.1	3.6	5.8	1.1	3.1	10.2	11.4	5.9	-2.2	3.8	2.5	1.4	5.4

#### Percentage change, latest quarter on previous quarter

	KG Y8	KG 74	KG 9R	KG F4	KG G2	KG G8	KG H6	KG I7	KG J5	KG K3	KG K9	KG B3	KG C7	KG E3
2016 Q1	1.5	1.3	1.1	-0.6	1.3	3.4	-2.2	0.3	0.3	2.9	2.2	1.4	0.4	-0.3
Q2	1.9	1.5	1.2	1.5	-0.5	1.5	2.6	-0.4	1.7	0.7	1.4	0.2	1.5	2.9
Q3	1.4	1.0	1.6	-0.6	0.7	-0.1	1.5	0.1	1.4	1.1	0.5	0.2	0.4	4.2
Q4	0.3	1.0	0.9	-0.3	2.4	1.4	2.5	1.1	1.3	-0.1	0.5	0.3	2.2	-1.0
2017 Q1	1.5	1.2	1.8	-0.5	1.4	-1.1	1.8	4.8	2.6	-0.1	3.9	8.0	-0.6	2.3
Q2	0.5	0.7	1.5	2.9	-	-0.2	4.6	4.7	-3.1	1.8	2.6	0.4	0.7	1.8
Q3	0.3	0.3	0.9	-0.1	-0.3	0.3	1.7	0.9	0.8	0.6	0.5	0.4	1.1	-1.9
Q4	1.2	1.0	1.4	1.7	-0.2	0.8	-0.4	1.7	3.2	-0.6	1.0	0.4	-0.7	1.5
2018 Q1	1.6	1.8	0.9	0.9	-0.5	2.2	5.4	5.2	3.0	-1.4	0.7	1.0	-	2.2
Q2	1.1	0.9	0.5	3.6	1.2	-0.7	2.4	1.9	1.7	-1.3	0.7	0.7	1.3	2.0
Q3	0.8	0.7	0.6	0.3	1.5	1.0	1.6	3.2	-1.2	-0.3	1.4	0.5	-0.9	2.2
Q4	0.5	0.5	0.2	0.2	0.6	0.5	1.2	-0.7	0.5	0.2	0.8	0.6	2.4	-0.5
2019 Q1	0.5	0.4	0.5	1.2	2.1	0.3	1.1	0.5	-0.8	0.2	1.1	0.3	-0.3	0.3
Q2	0.7	0.6	0.7	-0.2	1.3	1.8	1.8	-0.1	0.8	0.6	0.3	0.4	-0.1	-2.0

#### Percentage change, latest quarter on corresponding quarter of previous year

	KG Y9	KG 7C	KG 9V	KG F5	KG G3	KG G9	KG H7	KG I8	KG J6	KG K4	KG L2	KG B4	KG C8	KG E4
2016 Q1	4.9	4.8	3.0	-1.5	6.4	5.1	5.1	10.1	5.8	3.7	8.7	11.6	3.8	1.2
Q2	5.5	5.1	3.8	1.7	2.5	5.8	6.8	6.2	4.8	4.6	7.1	9.8	4.9	3.4
Q3	5.8	4.9	5.1	0.9	2.1	4.1	6.6	5.2	3.9	6.6	6.1	8.2	3.6	8.7
Q4	5.2	5.0	4.9	-	4.0	6.3	4.4	1.1	4.8	4.7	4.7	2.2	4.7	5.8
2017 Q1	5.2	4.9	5.6	-	4.0	1.6	8.6	5.6	7.2	1.7	6.5	8.7	3.7	8.6
Q2	3.8	4.0	5.9	1.4	4.6	-	10.7	11.0	2.2	2.8	7.7	8.9	2.8	7.5
Q3	2.6	3.2	5.1	2.0	3.6	0.4	10.9	11.9	1.5	2.3	7.6	9.1	3.5	1.2
Q4	3.5	3.3	5.7	4.0	1.0	-0.1	7.7	12.5	3.4	1.7	8.1	9.2	0.6	3.8
2018 Q1	3.7	3.8	4.8	5.4	-0.9	3.2	11.6	13.1	3.8	0.3	4.8	2.1	1.2	3.7
Q2	4.3	4.0	3.8	6.1	0.2	2.7	9.2	10.1	9.0	-2.7	2.9	2.5	1.8	3.8
Q3	4.8	4.5	3.5	6.6	2.1	3.4	9.1	12.6	6.8	-3.6	3.9	2.6	-0.2	8.2
Q4	4.0	4.0	2.3	5.0	2.9	3.0	10.9	10.0	4.0	-2.9	3.7	2.8	2.9	6.1
2019 Q1	2.8	2.6	1.9	5.4	5.6	1.1	6.3	5.0	0.2	-1.2	4.0	2.2	2.5	4.1
Q2	2.5	2.2	2.0	1.5	5.7	3.7	5.8	2.9	-0.7	0.7	3.6	1.8	1.1	-

1 ESA 10 Classification of Individual Consumption by Purpose.

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

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

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

£ million

		UK NATIONAL <sup>2</sup>							
		UK DOMESTIC <sup>3</sup>							
		Goods							
		Total	Net tourism	Total	Total	Durable goods	Semi- durable goods	Non- durable goods	Services
COICOP <sup>1</sup>					D	SD	ND	S	
	ABJQ	ABTF	ZAKV	UTIF	UTIB	UTIR	UTIJ	UTIN	
2015	1 189 246	8 468	1 180 778	477 119	111 270	120 780	245 069	703 659	
2016	1 252 934	13 923	1 239 011	497 251	119 915	125 648	251 688	741 760	
2017	1 300 305	13 958	1 286 347	521 294	123 088	135 344	262 862	765 053	
2018	1 354 729	15 863	1 338 866	546 802	128 196	139 928	278 678	792 064	
<b>Seasonally adjusted</b>									
2016 Q1	306 386	2 471	303 915	122 596	29 851	31 152	61 593	181 319	
Q2	312 192	3 622	308 570	124 057	30 012	31 216	62 829	184 513	
Q3	316 633	4 935	311 698	124 134	30 030	31 194	62 910	187 564	
Q4	317 723	2 895	314 828	126 464	30 022	32 086	64 356	188 364	
2017 Q1	322 444	3 704	318 740	128 370	30 457	33 263	64 650	190 370	
Q2	323 934	3 096	320 838	129 378	30 337	33 719	65 322	191 460	
Q3	325 010	3 302	321 708	130 759	31 148	33 947	65 664	190 949	
Q4	328 917	3 856	325 061	132 787	31 146	34 415	67 226	192 274	
2018 Q1	334 235	3 403	330 832	135 411	31 847	34 399	69 165	195 421	
Q2	337 796	4 045	333 751	136 151	32 363	34 723	69 065	197 600	
Q3	340 578	4 341	336 237	137 070	31 643	35 272	70 155	199 167	
Q4	342 120	4 074	338 046	138 170	32 343	35 534	70 293	199 876	
2019 Q1	343 697	4 407	339 290	138 945	32 625	36 290	70 030	200 345	
Q2	346 240	5 009	341 231	141 309	32 880	36 848	71 581	199 922	
<b>Percentage change, latest year on previous year</b>									
	KG7		KG6U	KHC9	KHB5	KHH5	KHE5	KHF9	
2015	2.9		2.8	1.4	5.6	5.1	-2.1	3.8	
2016	5.4		4.9	4.2	7.8	4.0	2.7	5.4	
2017	3.8		3.8	4.8	2.6	7.7	4.4	3.1	
2018	4.2		4.1	4.9	4.1	3.4	6.0	3.5	
<b>Percentage change, latest quarter on previous quarter</b>									
	KG8		KG74	KHD2	KHB6	KHH6	KHE6	KHG2	
2016 Q1	1.5		1.3	1.7	3.4	0.2	1.6	1.1	
Q2	1.9		1.5	1.2	0.5	0.2	2.0	1.8	
Q3	1.4		1.0	0.1	0.1	-0.1	0.1	1.7	
Q4	0.3		1.0	1.9	-	2.9	2.3	0.4	
2017 Q1	1.5		1.2	1.5	1.4	3.7	0.5	1.1	
Q2	0.5		0.7	0.8	-0.4	1.4	1.0	0.6	
Q3	0.3		0.3	1.1	2.7	0.7	0.5	-0.3	
Q4	1.2		1.0	1.6	-	1.4	2.4	0.7	
2018 Q1	1.6		1.8	2.0	2.3	-	2.9	1.6	
Q2	1.1		0.9	0.5	1.6	0.9	-0.1	1.1	
Q3	0.8		0.7	0.7	-2.2	1.6	1.6	0.8	
Q4	0.5		0.5	0.8	2.2	0.7	0.2	0.4	
2019 Q1	0.5		0.4	0.6	0.9	2.1	-0.4	0.2	
Q2	0.7		0.6	1.7	0.8	1.5	2.2	-0.2	
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>									
	KG9		KG7C	KHD3	KHB7	KHH7	KHE7	KHG3	
2016 Q1	4.9		4.8	4.8	12.3	6.9	0.6	4.8	
Q2	5.5		5.1	4.3	9.1	4.1	2.3	5.6	
Q3	5.8		4.9	2.9	6.0	2.1	1.8	6.3	
Q4	5.2		5.0	4.9	4.0	3.2	6.2	5.0	
2017 Q1	5.2		4.9	4.7	2.0	6.8	5.0	5.0	
Q2	3.8		4.0	4.3	1.1	8.0	4.0	3.8	
Q3	2.6		3.2	5.3	3.7	8.8	4.4	1.8	
Q4	3.5		3.3	5.0	3.7	7.3	4.5	2.1	
2018 Q1	3.7		3.8	5.5	4.6	3.4	7.0	2.7	
Q2	4.3		4.0	5.2	6.7	3.0	5.7	3.2	
Q3	4.8		4.5	4.8	1.6	3.9	6.8	4.3	
Q4	4.0		4.0	4.1	3.8	3.3	4.6	4.0	
2019 Q1	2.8		2.6	2.6	2.4	5.5	1.3	2.5	
Q2	2.5		2.2	3.8	1.6	6.1	3.6	1.2	

1 ESA 10 Classification of Individual Consumption by Purpose.

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

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

# E3 Household final consumption expenditure by purpose

## Chained volume measures

Reference year 2016, £ million

UK NATIONAL <sup>2</sup>															
UK DOMESTIC <sup>3</sup>															
COICOP <sup>1</sup>	Net Total tourism		Total	Food & drink	Alcohol & tobacco	Clothing & footwear	Housing	Household goods & services	Health	Transport	Communication	Recreation & culture	Education	Restaurants & hotels	Miscellaneous
	ABJR	ABTH	ZAKW	ZWUN	ZAKY	ZALA	ZAVO	ZAVW	ZAWC	ZAWM	ZAWW	ZAXA	ZWUT	ZAXS	ZAYG
2015	1 206 496	12 402	1 194 064	88 948	42 392	62 597	323 872	51 625	21 297	159 842	21 045	125 699	27 134	117 650	152 223
2016	1 252 934	13 923	1 239 011	95 238	40 997	64 769	335 515	54 318	21 974	166 828	21 445	133 419	27 918	119 941	156 649
2017	1 281 722	13 958	1 267 764	98 489	40 441	65 309	333 401	58 374	23 493	168 961	21 494	140 978	29 467	120 547	166 810
2018	1 302 397	15 313	1 287 084	99 979	40 776	65 584	338 082	63 261	25 768	169 467	20 800	142 990	29 411	118 978	171 988
<b>Seasonally adjusted</b>															
2016 Q1	307 634	3 068	304 551	23 030	10 186	15 932	82 671	13 049	5 521	41 060	5 345	32 893	6 979	29 459	38 446
Q2	312 091	3 629	308 457	23 528	10 253	15 974	83 778	13 469	5 435	41 445	5 330	33 200	6 969	29 920	39 167
Q3	315 828	3 695	312 125	24 081	10 219	16 192	83 963	13 768	5 490	42 601	5 367	33 449	6 991	30 452	39 542
Q4	317 381	3 531	313 878	24 599	10 339	16 671	85 103	14 032	5 528	41 722	5 403	33 877	6 979	30 110	39 494
2017 Q1	318 897	3 511	315 386	24 554	10 080	16 657	83 366	14 193	5 700	42 595	5 303	34 826	7 380	29 682	41 050
Q2	319 788	3 185	316 603	24 562	10 191	16 392	83 211	14 686	5 913	41 577	5 426	35 370	7 368	30 304	41 603
Q3	321 032	3 443	317 589	24 690	10 059	16 173	83 162	14 774	5 902	42 485	5 403	35 345	7 375	30 562	41 659
Q4	322 005	3 819	318 186	24 683	10 111	16 087	83 662	14 721	5 978	42 304	5 362	35 437	7 344	29 999	42 498
2018 Q1	323 731	3 533	320 198	24 851	10 054	15 992	84 767	15 396	6 321	42 429	5 318	35 526	7 346	29 818	42 380
Q2	325 480	4 072	321 408	24 993	10 322	16 279	84 210	15 702	6 407	42 766	5 230	35 583	7 360	29 861	42 695
Q3	326 303	3 876	322 427	25 041	10 267	16 583	84 494	15 988	6 545	42 139	5 155	35 885	7 359	29 410	43 561
Q4	326 883	3 832	323 051	25 094	10 133	16 730	84 611	16 175	6 495	42 133	5 097	35 996	7 346	29 889	43 352
2019 Q1	327 866	4 002	323 864	25 147	10 067	17 180	84 666	16 191	6 510	42 134	5 065	36 257	7 297	29 686	43 664
Q2	329 036	4 299	324 737	25 144	10 057	17 425	85 468	16 354	6 459	42 089	5 042	36 403	7 279	29 472	43 545
<b>Percentage change, latest year on previous year</b>															
	KGZ5		KG7O	KG9Y	KG6F	KGG4	KGH2	KGH8	KG19	KGJ7	KGK5	KGL3	KGB8	KGD4	KGE8
2015	2.9		2.5	-1.0	-4.2	4.5	2.7	8.2	0.4	1.9	0.2	6.2	0.1	1.4	3.1
2016	3.8		3.8	7.1	-3.3	3.5	3.6	5.2	3.2	4.4	1.9	6.1	2.9	1.9	2.9
2017	2.3		2.3	3.4	-1.4	0.8	-0.6	7.5	6.9	1.3	0.2	5.7	5.5	0.5	6.5
2018	1.6		1.5	1.5	0.8	0.4	1.4	8.4	9.7	0.3	-3.2	1.4	-0.2	-1.3	3.1
<b>Percentage change, latest quarter on previous quarter</b>															
	KGZ6		KG7R	KGA3	KG7F	KGG5	KGH3	KGH9	KGJ2	KGJ8	KGK6	KGL4	KGB9	KGD5	KGE9
2016 Q1	1.5		1.5	2.4	-1.8	0.5	2.3	-2.8	-0.2	1.6	2.1	2.4	1.3	-0.1	2.3
Q2	1.4		1.3	2.2	0.7	0.3	1.3	3.2	-1.6	0.9	-0.3	0.9	-0.1	1.6	1.9
Q3	1.2		1.2	2.4	-0.3	1.4	0.2	2.2	1.0	2.8	0.7	0.8	0.3	1.8	1.0
Q4	0.5		0.6	2.2	1.2	3.0	1.4	1.9	0.7	-2.1	0.7	1.3	-0.2	-1.1	-0.1
2017 Q1	0.5		0.5	-0.2	-2.5	-0.1	-2.0	1.1	3.1	2.1	-1.9	2.8	5.7	-1.4	3.9
Q2	0.3		0.4	-	1.1	-1.6	-0.2	3.5	3.7	-2.4	2.3	1.6	-0.2	2.1	1.3
Q3	0.4		0.3	0.5	-1.3	-1.3	-0.1	0.6	-0.2	2.2	-0.4	-0.1	0.1	0.9	0.1
Q4	0.3		0.2	-	0.5	-0.5	0.6	-0.4	1.3	-0.4	-0.8	0.3	-0.4	-1.8	2.0
2018 Q1	0.5		0.6	0.7	-0.6	-0.6	1.3	4.6	5.7	0.3	-0.8	0.3	-	-0.6	-0.3
Q2	0.5		0.4	0.6	2.7	1.8	-0.7	2.0	1.4	0.8	-1.7	0.2	0.2	0.1	0.7
Q3	0.3		0.3	0.2	-0.5	1.9	0.3	1.8	2.2	-1.5	-1.4	0.8	-	-1.5	2.0
Q4	0.2		0.2	0.2	-1.3	0.9	0.1	1.2	-0.8	-	-1.1	0.3	-0.2	1.6	-0.5
2019 Q1	0.3		0.3	0.2	-0.7	2.7	0.1	0.1	0.2	-	-0.6	0.7	-0.7	-0.7	0.7
Q2	0.4		0.3	-	-0.1	1.4	0.9	1.0	-0.8	-0.1	-0.5	0.4	-0.2	-0.7	-0.3
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>															
	KGZ7		KG7U	KGA6	KG7F8	KGG6	KGH4	KGI2	KGJ3	KGJ9	KGK7	KGL5	KGC2	KGD6	KG7F2
2016 Q1	3.3		3.3	4.3	-6.1	4.5	2.7	3.9	7.0	4.9	1.1	8.0	4.0	0.6	2.1
Q2	3.6		3.4	6.2	-3.6	1.9	3.5	5.9	2.5	3.9	0.8	5.9	3.3	2.0	1.7
Q3	3.8		3.8	8.4	-3.1	2.4	2.8	6.6	3.6	5.4	2.5	5.3	3.0	3.1	2.7
Q4	4.7		4.6	9.4	-0.3	5.2	5.4	4.5	-0.1	3.3	3.2	5.5	1.3	2.1	5.1
2017 Q1	3.7		3.6	6.6	-1.0	4.6	0.8	8.8	3.2	3.7	-0.8	5.9	5.7	0.8	6.8
Q2	2.5		2.6	4.4	-0.6	2.6	-0.7	9.0	8.8	0.3	1.8	6.5	5.7	1.3	6.2
Q3	1.6		1.8	2.5	-1.6	-0.1	-1.0	7.3	7.5	-0.3	0.7	5.7	5.5	0.4	5.4
Q4	1.5		1.4	0.3	-2.2	-3.5	-1.7	4.9	8.1	1.4	-0.8	4.6	5.2	-0.4	7.6
2018 Q1	1.5		1.5	1.2	-0.3	-4.0	1.7	8.5	10.9	-0.4	0.3	2.0	-0.5	0.5	3.2
Q2	1.8		1.5	1.8	1.3	-0.7	1.2	6.9	8.4	2.9	-3.6	0.6	-0.1	-1.5	2.6
Q3	1.6		1.5	1.4	2.1	2.5	1.6	8.2	10.9	-0.8	-4.6	1.5	-0.2	-3.8	4.6
Q4	1.5		1.5	1.7	0.2	4.0	1.1	9.9	8.6	-0.4	-4.9	1.6	-	-0.4	2.0
2019 Q1	1.3		1.1	1.2	0.1	7.4	-0.1	5.2	3.0	-0.7	-4.8	2.1	-0.7	-0.4	3.0
Q2	1.1		1.0	0.6	-2.6	7.0	1.5	4.2	0.8	-1.6	-3.6	2.3	-1.1	-1.3	2.0

1 ESA 10 Classification of Individual Consumption by Purpose.

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

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

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

Reference year 2016, £ million

		UK NATIONAL <sup>2</sup>							
		UK DOMESTIC <sup>3</sup>							
		Goods							
		Total	Net tourism	Total	Total	Durable goods	Semi- durable goods	Non- durable goods	Services
COICOP <sup>1</sup>					D	SD	ND	S	
	ABJR	ABTH	ZAKW	UTIH	UTID	UTIT	UTIL	UTIP	
2015	1 206 496	12 402	1 194 064	474 471	111 462	121 032	241 951	719 728	
2016	1 252 934	13 923	1 239 011	497 251	119 915	125 648	251 688	741 760	
2017	1 281 722	13 958	1 267 764	508 679	120 290	132 981	255 408	759 085	
2018	1 302 397	15 313	1 287 084	520 400	123 256	135 281	261 863	766 684	
<b>Seasonally adjusted</b>									
2016 Q1	307 634	3 068	304 551	121 893	29 603	30 935	61 365	182 653	
Q2	312 091	3 629	308 457	123 623	29 817	31 141	62 664	184 835	
Q3	315 828	3 695	312 125	124 829	30 193	31 231	63 399	187 315	
Q4	317 381	3 531	313 878	126 906	30 302	32 341	64 260	186 957	
2017 Q1	318 897	3 511	315 386	126 699	30 298	33 363	63 038	188 687	
Q2	319 788	3 185	316 603	126 565	29 529	33 159	63 877	190 038	
Q3	321 032	3 443	317 589	127 426	30 416	33 071	63 939	190 163	
Q4	322 005	3 819	318 186	127 989	30 047	33 388	64 554	190 197	
2018 Q1	323 731	3 533	320 198	129 498	30 671	33 300	65 527	190 700	
Q2	325 480	4 072	321 408	129 917	30 924	33 600	65 393	191 491	
Q3	326 303	3 876	322 427	130 242	30 588	34 115	65 539	192 185	
Q4	326 883	3 832	323 051	130 743	31 073	34 266	65 404	192 308	
2019 Q1	327 866	4 002	323 864	131 518	31 176	35 087	65 255	192 346	
Q2	329 036	4 299	324 737	133 196	31 581	35 766	65 849	191 541	
<b>Percentage change, latest year on previous year</b>									
	KGZ5		KG7O	KHD7	KHC3	KHI3	KHF3	KHG7	
2015	2.9		2.5	3.3	6.3	6.2	0.6	2.0	
2016	3.8		3.8	4.8	7.6	3.8	4.0	3.1	
2017	2.3		2.3	2.3	0.3	5.8	1.5	2.3	
2018	1.6		1.5	2.3	2.5	1.7	2.5	1.0	
<b>Percentage change, latest quarter on previous quarter</b>									
	KGZ6		KG7R	KHD8	KHC4	KHI4	KHF4	KHG8	
2016 Q1	1.5		1.5	2.0	3.9	-0.3	2.3	1.1	
Q2	1.4		1.3	1.4	0.7	0.7	2.1	1.2	
Q3	1.2		1.2	1.0	1.3	0.3	1.2	1.3	
Q4	0.5		0.6	1.7	0.4	3.6	1.4	-0.2	
2017 Q1	0.5		0.5	-0.2	-	3.2	-1.9	0.9	
Q2	0.3		0.4	-0.1	-2.5	-0.6	1.3	0.7	
Q3	0.4		0.3	0.7	3.0	-0.3	0.1	0.1	
Q4	0.3		0.2	0.4	-1.2	1.0	1.0	-	
2018 Q1	0.5		0.6	1.2	2.1	-0.3	1.5	0.3	
Q2	0.5		0.4	0.3	0.8	0.9	-0.2	0.4	
Q3	0.3		0.3	0.3	-1.1	1.5	0.2	0.4	
Q4	0.2		0.2	0.4	1.6	0.4	-0.2	0.1	
2019 Q1	0.3		0.3	0.6	0.3	2.4	-0.2	-	
Q2	0.4		0.3	1.3	1.3	1.9	0.9	-0.4	
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>									
	KGZ7		KG7U	KHD9	KHC5	KHI5	KHF5	KHG9	
2016 Q1	3.3		3.3	4.4	10.0	5.7	1.4	2.5	
Q2	3.6		3.4	4.4	7.4	3.4	3.5	2.7	
Q3	3.8		3.8	4.2	6.8	2.0	4.0	3.6	
Q4	4.7		4.6	6.2	6.3	4.2	7.2	3.5	
2017 Q1	3.7		3.6	3.9	2.3	7.8	2.7	3.3	
Q2	2.5		2.6	2.4	-1.0	6.5	1.9	2.8	
Q3	1.6		1.8	2.1	0.7	5.9	0.9	1.5	
Q4	1.5		1.4	0.9	-0.8	3.2	0.5	1.7	
2018 Q1	1.5		1.5	2.2	1.2	-0.2	3.9	1.1	
Q2	1.8		1.5	2.6	4.7	1.3	2.4	0.8	
Q3	1.6		1.5	2.2	0.6	3.2	2.5	1.1	
Q4	1.5		1.5	2.2	3.4	2.6	1.3	1.1	
2019 Q1	1.3		1.1	1.6	1.6	5.4	-0.4	0.9	
Q2	1.1		1.0	2.5	2.1	6.4	0.7	-	

1 ESA 10 Classification of Individual Consumption by Purpose.

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

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

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

## Current prices

£ million

	Analysis by sector								Analysis by asset					
	Public corporations <sup>2</sup>				Private Sector				Transport equipment	ICT equipment and other machinery and equipment <sup>3</sup>	Dwellings <sup>4</sup>	Other buildings and structures <sup>5</sup>	Intellectual Property Products	Total
	Business investment <sup>1</sup>	General government	Dwellings <sup>4</sup>	Costs of transfer of ownership of non-produced assets	Dwellings <sup>4</sup>	Costs of transfer of ownership of non-produced assets	Total							
2015	NPEK	RPZG	L62R	L62S	L62T	L62U	NPQS	TLPX	TLPW	GGAE	EQED	TLPK	NPQS	
2015	183 576	51 158	8 130	686	58 083	22 990	324 623	20 202	51 960	66 214	115 921	70 324	324 623	
2016	195 973	52 418	8 362	725	60 904	25 316	343 694	24 623	56 102	69 319	120 018	73 630	343 694	
2017	204 945	55 290	8 464	773	69 191	18 417	357 080	22 064	66 328	77 655	117 290	73 743	357 080	
2018	204 716	57 566	4 622	759	77 510	18 010	363 183	17 724	64 026	82 134	119 700	79 599	363 183	
<b>Seasonally adjusted</b>														
2016 Q1	47 838	12 139	2 028	156	14 944	6 781	83 885	6 215	13 777	17 022	28 597	18 272	83 885	
Q2	48 768	13 225	2 113	221	15 015	6 116	85 457	5 945	14 150	17 128	29 840	18 394	85 457	
Q3	49 931	13 679	2 086	169	15 312	6 074	87 250	7 068	14 089	17 401	30 255	18 437	87 250	
Q4	49 436	13 375	2 135	179	15 633	6 345	87 102	5 395	14 086	17 768	31 326	18 527	87 102	
2017 Q1	50 752	13 429	2 187	168	16 591	4 647	87 774	5 523	16 102	18 777	29 266	18 106	87 774	
Q2	51 268	13 910	2 285	218	16 850	4 594	89 125	5 852	16 985	19 135	28 896	18 257	89 125	
Q3	51 562	13 790	2 195	196	17 317	4 626	89 686	5 696	16 356	19 512	29 619	18 503	89 686	
Q4	51 363	14 161	1 797	191	18 433	4 550	90 495	4 993	16 885	20 231	29 509	18 877	90 495	
2018 Q1	51 498	13 799	1 224	176	18 654	4 546	89 897	5 112	16 170	19 878	29 227	19 510	89 897	
Q2	51 393	13 952	1 188	206	19 404	4 487	90 630	4 535	16 058	20 592	29 390	20 055	90 630	
Q3	50 950	14 829	1 098	191	19 696	4 487	91 251	3 967	15 956	20 795	30 402	20 131	91 251	
Q4	50 875	14 986	1 112	186	19 756	4 490	91 405	4 110	15 842	20 869	30 681	19 903	91 405	
2019 Q1	51 888	15 986	1 146	177	20 019	4 486	93 702	3 877	15 480	21 164	32 880	20 301	93 702	
Q2	52 049	15 100	1 129	197	19 970	4 453	92 898	4 884	13 344	21 101	33 392	20 177	92 898	
<b>Percentage change, latest year on previous year</b>														
	KG6N	KH7N	L64E	L64H	L64K	L64N	KG6O	KG6T	KG6S	KH7X	KH7W	KG6R	KG6O	
2015	9.6	0.5	-2.0	4.7	6.5	0.8	6.5	20.8	1.8	5.4	10.2	2.0	6.5	
2016	6.8	2.5	2.9	5.7	4.9	10.1	5.9	21.9	8.0	4.7	3.5	4.7	5.9	
2017	4.6	5.5	1.2	6.6	13.6	-27.3	3.9	-10.4	18.2	12.0	-2.3	0.2	3.9	
2018	-0.1	4.1	-45.4	-1.8	12.0	-2.2	1.7	-19.7	-3.5	5.8	2.1	7.9	1.7	
<b>Percentage change, latest quarter on previous quarter</b>														
	KG6V	KH7P	L64F	L64I	L64L	L64O	KG6W	KG73	KG72	KH83	KH82	KG6Z	KG6W	
2016 Q1	1.7	-1.0	2.5	-10.9	1.1	10.3	1.8	13.6	0.5	1.6	-0.6	3.3	1.8	
Q2	1.9	8.9	4.2	41.7	0.5	-9.8	1.9	-4.3	2.7	0.6	4.3	0.7	1.9	
Q3	2.4	3.4	-1.3	-23.5	2.0	-0.7	2.1	18.9	-0.4	1.6	1.4	0.2	2.1	
Q4	-1.0	-2.2	2.3	5.9	2.1	4.5	-0.2	-23.7	-	2.1	3.5	0.5	-0.2	
2017 Q1	2.7	0.4	2.4	-6.1	6.1	-26.8	0.8	2.4	14.3	5.7	-6.6	-2.3	0.8	
Q2	1.0	3.6	4.5	29.8	1.6	-1.1	1.5	6.0	5.5	1.9	-1.3	0.8	1.5	
Q3	0.6	-0.9	-3.9	-10.1	2.8	0.7	0.6	-2.7	-3.7	2.0	2.5	1.3	0.6	
Q4	-0.4	2.7	-18.1	-2.6	6.4	-1.6	0.9	-12.3	3.2	3.7	-0.4	2.0	0.9	
2018 Q1	0.3	-2.6	-31.9	-7.9	1.2	-0.1	-0.7	2.4	-4.2	-1.7	-1.0	3.4	-0.7	
Q2	-0.2	1.1	-2.9	17.0	4.0	-1.3	0.8	-11.3	-0.7	3.6	0.6	2.8	0.8	
Q3	-0.9	6.3	-7.6	-7.3	1.5	-	0.7	-12.5	-0.6	1.0	3.4	0.4	0.7	
Q4	-0.1	1.1	1.3	-2.6	0.3	0.1	0.2	3.6	-0.7	0.4	0.9	-1.1	0.2	
2019 Q1	2.0	6.7	3.1	-4.8	1.3	-0.1	2.5	-5.7	-2.3	1.4	7.2	2.0	2.5	
Q2	0.3	-5.5	-1.5	11.3	-0.2	-0.7	-0.9	26.0	-13.8	-0.3	1.6	-0.6	-0.9	
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>														
	KG75	KH7R	L64G	L64J	L64M	L64P	KG76	KG7B	KG7A	KH87	KH86	KG79	KG76	
2016 Q1	5.7	-10.9	-8.0	-15.7	8.4	30.1	4.5	-1.7	8.6	6.5	1.5	6.8	4.5	
Q2	6.7	2.1	9.7	47.3	1.1	6.6	5.1	32.8	11.3	2.1	1.2	3.0	5.1	
Q3	9.5	11.1	3.3	-4.0	4.3	3.0	8.2	79.8	9.5	4.2	2.5	4.3	8.2	
Q4	5.1	9.0	7.9	2.3	5.8	3.2	5.7	-1.4	2.8	6.0	8.9	4.8	5.7	
2017 Q1	6.1	10.6	7.8	7.7	11.0	-31.5	4.6	-11.1	16.9	10.3	2.3	-0.9	4.6	
Q2	5.1	5.2	8.1	-1.4	12.2	-24.9	4.3	-1.6	20.0	11.7	-3.2	-0.7	4.3	
Q3	3.3	0.8	5.2	16.0	13.1	-23.8	2.8	-19.4	16.1	12.1	-2.1	0.4	2.8	
Q4	3.9	5.9	-15.8	6.7	17.9	-28.3	3.9	-7.5	19.9	13.9	-5.8	1.9	3.9	
2018 Q1	1.5	2.8	-44.0	4.8	12.4	-2.2	2.4	-7.4	0.4	5.9	-0.1	7.8	2.4	
Q2	0.2	0.3	-48.0	-5.5	15.2	-2.3	1.7	-22.5	-5.5	7.6	1.7	9.8	1.7	
Q3	-1.2	7.5	-50.0	-2.6	13.7	-3.0	1.7	-30.4	-2.4	6.6	2.6	8.8	1.7	
Q4	-1.0	5.8	-38.1	-2.6	7.2	-1.3	1.0	-17.7	-6.2	3.2	4.0	5.4	1.0	
2019 Q1	0.8	15.8	-6.4	0.6	7.3	-1.3	4.2	-24.2	-4.3	6.5	12.5	4.1	4.2	
Q2	1.3	8.2	-5.0	-4.4	2.9	-0.8	2.5	7.7	-16.9	2.5	13.6	0.6	2.5	

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

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

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

4 Includes new dwellings and improvements to dwellings.

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

# F2 Gross fixed capital formation by sector and type of asset

## Chained volume measures

Reference year 2016, £ million

	Analysis by sector								Analysis by asset					
	Public corporations <sup>2</sup>				Private Sector				Transport equipment	ICT equipment and other machinery and equipment <sup>3</sup>	Dwellings <sup>4</sup>	Other buildings and structures <sup>5</sup>	Intellectual and Property Products	Total
	Business investment <sup>1</sup>	General government	Dwellings <sup>4</sup>	Costs of transfer of ownership of non-produced assets	Dwellings <sup>4</sup>	Costs of transfer of ownership of non-produced assets	Total							
2015	NPEL 187 908	DLWF 51 220	L634 8 260	L635 694	L636 59 020	L637 24 480	NPQT 331 615	DLWL 20 137	DLWO 53 966	DFEG 67 280	DLWT 118 409	EQDO 71 920	NPQT 331 615	
2016	195 973	52 418	8 362	726	60 903	25 312	343 690	24 623	56 102	69 318	120 017	73 629	343 690	
2017	201 708	54 433	8 250	768	65 719	18 428	349 306	22 332	63 289	73 969	115 956	73 760	349 306	
2018	198 489	55 568	4 370	737	72 188	17 703	349 055	16 574	61 585	76 559	115 070	79 267	349 055	
<b>Seasonally adjusted</b>														
2016 Q1	48 473	12 235	2 055	157	15 105	6 875	84 898	6 185	14 219	17 188	29 001	18 314	84 898	
Q2	48 954	13 258	2 097	221	15 058	6 088	85 673	5 930	14 264	17 164	29 918	18 409	85 673	
Q3	49 745	13 617	2 048	169	15 227	6 012	86 818	6 961	14 097	17 284	30 010	18 443	86 818	
Q4	48 801	13 308	2 162	179	15 513	6 337	86 301	5 547	13 522	17 682	31 088	18 463	86 301	
2017 Q1	49 910	13 264	2 150	169	16 110	4 733	86 336	5 650	15 365	18 260	29 021	18 040	86 336	
Q2	50 490	13 949	2 217	218	16 025	4 652	87 551	5 950	16 483	18 242	28 579	18 297	87 551	
Q3	50 603	13 517	2 140	193	16 205	4 560	87 218	5 732	15 723	18 345	28 922	18 496	87 218	
Q4	50 705	13 703	1 743	188	17 379	4 483	88 201	5 000	15 718	19 122	29 434	18 927	88 201	
2018 Q1	50 188	13 382	1 145	171	17 982	4 496	87 364	4 816	15 312	19 125	28 610	19 501	87 364	
Q2	49 882	13 400	1 128	201	18 053	4 320	86 984	4 194	15 180	19 181	28 484	19 945	86 984	
Q3	49 463	14 235	1 038	185	18 028	4 447	87 396	3 661	15 524	19 067	29 013	20 131	87 396	
Q4	48 956	14 551	1 059	180	18 125	4 440	87 311	3 903	15 569	19 186	28 963	19 690	87 311	
2019 Q1	49 362	14 747	1 041	170	18 323	4 430	88 073	3 624	14 983	19 364	29 965	20 137	88 073	
Q2	49 174	14 220	1 057	188	18 247	4 352	87 238	4 716	12 730	19 306	30 615	19 871	87 238	
<b>Percentage change, latest year on previous year</b>														
	KG7M	KH92	L64T	L64W	L654	L64Z	KG7N	KH95	KH96	KH8Y	KH97	KH98	KG7N	
2015	7.2	-4.5	-4.4	3.4	3.0	0.5	3.7	19.5	-1.1	2.0	5.7	1.8	3.7	
2016	4.3	2.3	1.2	4.6	3.2	3.4	3.6	22.3	4.0	3.0	1.4	2.4	3.6	
2017	2.9	3.8	-1.3	5.8	7.9	-27.2	1.6	-9.3	12.8	6.7	-3.4	0.2	1.6	
2018	-1.6	2.1	-47.0	-4.0	9.8	-3.9	-0.1	-25.8	-2.7	3.5	-0.8	7.5	-0.1	
<b>Percentage change, latest quarter on previous quarter</b>														
	KG7P	KH9C	L64U	L64X	L655	L652	KG7Q	KH9F	KH9G	KH9A	KH9H	KH9I	KG7Q	
2016 Q1	1.5	1.1	1.5	-10.8	1.0	6.5	1.7	15.2	-0.5	1.2	0.5	1.6	1.7	
Q2	1.0	8.4	2.0	40.8	-0.3	-11.4	0.9	-4.1	0.3	-0.1	3.2	0.5	0.9	
Q3	1.6	2.7	-2.3	-23.5	1.1	-1.2	1.3	17.4	-1.2	0.7	0.3	0.2	1.3	
Q4	-1.9	-2.3	5.6	5.9	1.9	5.4	-0.6	-20.3	-4.1	2.3	3.6	0.1	-0.6	
2017 Q1	2.3	-0.3	-0.6	-5.6	3.8	-25.3	-	1.9	13.6	3.3	-6.6	-2.3	-	
Q2	1.2	5.2	3.1	29.0	-0.5	-1.7	1.4	5.3	7.3	-0.1	-1.5	1.4	1.4	
Q3	0.2	-3.1	-3.5	-11.5	1.1	-2.0	-0.4	-3.7	-4.6	0.6	1.2	1.1	-0.4	
Q4	0.2	1.4	-18.6	-2.6	7.2	-1.7	1.1	-12.8	-	4.2	1.8	2.3	1.1	
2018 Q1	-1.0	-2.3	-34.3	-9.0	3.5	0.3	-0.9	-3.7	-2.6	-	-2.8	3.0	-0.9	
Q2	-0.6	0.1	-1.5	17.5	0.4	-3.9	-0.4	-12.9	-0.9	0.3	-0.4	2.3	-0.4	
Q3	-0.8	6.2	-8.0	-8.0	-0.1	2.9	0.5	-12.7	2.3	-0.6	1.9	0.9	0.5	
Q4	-1.0	2.2	2.0	-2.7	0.5	-0.2	-0.1	6.6	0.3	0.6	-0.2	-2.2	-0.1	
2019 Q1	0.8	1.3	-1.7	-5.6	1.1	-0.2	0.9	-7.1	-3.8	0.9	3.5	2.3	0.9	
Q2	-0.4	-3.6	1.5	10.6	-0.4	-1.8	-0.9	30.1	-15.0	-0.3	2.2	-1.3	-0.9	
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>														
	KG7S	KH9M	L64V	L64Y	L656	L653	KG7T	KH9P	KH9Q	KH9K	KH9R	KH9S	KG7T	
2016 Q1	3.9	-12.8	-9.5	-16.5	7.0	22.1	2.4	-1.6	7.5	4.8	-1.6	4.8	2.4	
Q2	4.5	3.0	8.7	45.4	-0.3	-1.2	3.1	31.0	8.6	0.8	-0.7	0.7	3.1	
Q3	6.7	11.4	0.7	-5.1	2.6	-3.5	5.7	76.0	5.9	2.4	0.2	1.7	5.7	
Q4	2.1	10.0	6.8	1.7	3.7	-1.8	3.4	3.4	-5.4	4.1	7.7	2.4	3.4	
2017 Q1	3.0	8.4	4.6	7.6	6.7	-31.2	1.7	-8.6	8.1	6.2	0.1	-1.5	1.7	
Q2	3.1	5.2	5.7	-1.4	6.4	-23.6	2.2	0.3	15.6	6.3	-4.5	-0.6	2.2	
Q3	1.7	-0.7	4.5	14.2	6.4	-24.2	0.5	-17.7	11.5	6.1	-3.6	0.3	0.5	
Q4	3.9	3.0	-19.4	5.0	12.0	-29.3	2.2	-9.9	16.2	8.1	-5.3	2.5	2.2	
2018 Q1	0.6	0.9	-46.7	1.2	11.6	-5.0	1.2	-14.8	-0.3	4.7	-1.4	8.1	1.2	
Q2	-1.2	-3.9	-49.1	-7.8	12.7	-7.1	-0.6	-29.5	-7.9	5.1	-0.3	9.0	-0.6	
Q3	-2.3	5.3	-51.5	-4.1	11.2	-2.5	0.2	-36.1	-1.3	3.9	0.3	8.8	0.2	
Q4	-3.4	6.2	-39.2	-4.3	4.3	-1.0	-1.0	-21.9	-0.9	0.3	-1.6	4.0	-1.0	
2019 Q1	-1.6	10.2	-9.1	-0.6	1.9	-1.5	0.8	-24.8	-2.1	1.2	4.7	3.3	0.8	
Q2	-1.4	6.1	-6.3	-6.5	1.1	0.7	0.3	12.4	-16.1	0.7	7.5	-0.4	0.3	

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

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

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

4 Includes new dwellings and improvements to dwellings.

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

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

£ million

	Manufacturing industries					Electricity, gas and water supply	Distributive trades			Changes in inventories <sup>3</sup>
	Mining and quarrying	Materials and fuel	Work in progress	Finished goods	Total		Wholesale <sup>2</sup>	Retail <sup>2</sup>	Other industries <sup>3</sup>	
<b>Level of inventories held at end-December 2016</b>	1 141	23 508	21 445	23 190	68 143	2 725	38 742	38 704	62 025	211 480
2015	FAHS 1 178	FAGF 1 382	FADY -110	FALR 538	NZTP 1 810	FAGI 26	FBHE -1 258	FAHA 1 341	CWVD 6 116	CAEX 9 213
2016	-2 302	926	1 840	112	2 878	80	-485	1 281	2 128	3 580
2017	-427	77	-1 864	850	-937	-79	5 771	-1 135	1 534	4 727
2018	-572	36	3 961	-570	3 427	-468	3 600	-1 834	175	4 328
<b>Seasonally adjusted</b>										
2016 Q1	-140	-360	193	380	213	-767	-223	33	1 016	132
Q2	-1 087	-304	62	978	736	-1 755	-358	59	2 383	-22
Q3	-393	1 485	76	-722	839	1 232	-429	73	-503	819
Q4	-682	105	1 509	-524	1 090	1 370	525	1 116	-768	2 651
2017 Q1	-35	922	-1 318	-649	-1 045	47	1 451	-967	3 697	3 148
Q2	356	-567	970	314	717	-82	2 208	-186	-2 432	581
Q3	-7	-417	846	766	1 195	-17	226	-88	-1 043	266
Q4	-741	139	-2 362	419	-1 804	-27	1 886	106	1 312	732
2018 Q1	-421	44	-120	10	-66	-471	1 492	182	-2 955	-2 239
Q2	-189	-55	2 842	-408	2 379	26	-657	-928	2 013	2 644
Q3	-197	-138	252	50	164	-209	2 016	-485	-488	801
Q4	235	185	987	-222	950	186	749	-603	1 605	3 122
2019 Q1	235	1 700	541	1 531	3 772	-88	691	295	116	5 021
Q2	-348	3 122	-707	-3 088	-673	-129	843	303	2 371	2 367

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

2 Wholesaling and retailing estimates exclude the motor trades.

3 Quarterly alignment adjustment included in this series.

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

Reference year 2016, £ million

	Manufacturing industries					Electricity, gas and water supply	Distributive trades			Changes in inventories <sup>3</sup>
	Mining and quarrying	Materials and fuel	Work in progress	Finished goods	Total		Wholesale <sup>2</sup>	Retail <sup>2</sup>	Other industries <sup>3</sup>	
<b>Level of inventories held at end-December 2016</b>	1 141	23 508	21 445	23 190	68 143	2 725	38 742	38 704	62 025	211 480
	FAEA	FBNF	FBNG	FBNH	DHBM	FAEB	FAJX	FBYN	DLWX	CAFU
2015	2 993	2 704	774	1 168	4 605	-71	596	2 197	8 021	16 067
2016	-2 302	926	1 840	112	2 878	80	-485	1 281	2 128	3 580
2017	-1 441	-485	-3 076	393	-3 168	-435	3 883	-3 735	-4 081	-8 974
2018	-700	-869	3 169	-1 656	644	-675	1 730	-3 080	-2 761	-4 841
<b>Seasonally adjusted</b>										
2016 Q1	-816	-181	32	45	-129	-73	-44	391	1 354	937
Q2	-508	-205	93	221	-285	-57	30	193	-483	-398
Q3	-809	1 508	-91	-53	1 721	16	-141	158	2 159	3 154
Q4	-168	-196	1 806	-101	1 571	193	-330	540	-902	-113
2017 Q1	-606	941	-1 894	-494	-1 447	-152	684	-1 344	2 288	-577
Q2	548	-815	537	120	-158	28	2 062	-557	-4 156	-2 232
Q3	-283	-554	843	372	661	-151	52	-689	-2 375	-2 784
Q4	-1 100	-57	-2 562	395	-2 224	-160	1 085	-1 145	162	-3 381
2018 Q1	-90	68	-225	-20	-177	-337	1 088	62	-4 609	-4 062
Q2	-459	-428	2 081	-752	901	-104	-1 087	-1 067	2 365	549
Q3	-409	-382	161	-446	-667	-323	1 356	-655	-1 660	-2 358
Q4	258	-127	1 152	-438	587	89	373	-1 420	1 143	1 030
2019 Q1	408	1 575	348	1 801	3 724	-36	1 064	417	-45	5 530
Q2	-443	2 767	-1 534	-3 270	-2 037	-121	-211	-44	2 151	-705

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

2 Wholesaling and retailing estimates exclude the motor trades.

3 Quarterly alignment adjustment included in this series.

# H1 Exports and imports of goods and services

## Current market prices

£ million

	Exports			Imports			Balance		
	Goods	Services	Total	Goods	Services	Total	Goods	Services	Total <sup>1</sup>
	BOKG	IKBB	IKBH	BOKH	IKBC	IKBI	BOKI	IKBD	IKBJ
2015	285 960	244 089	530 049	403 657	152 850	556 507	-117 697	91 239	-26 458
2016	297 922	269 577	567 499	432 101	167 721	599 822	-134 179	101 856	-32 323
2017	337 466	291 619	629 085	473 361	180 851	654 212	-135 895	110 768	-25 127
2018	344 811	297 419	642 230	487 190	192 769	679 959	-142 379	104 650	-37 729
<b>Seasonally adjusted</b>									
2016 Q1	69 491	64 349	133 840	101 432	39 648	141 080	-31 941	24 701	-7 240
Q2	74 108	65 444	139 552	104 611	40 547	145 158	-30 503	24 897	-5 606
Q3	73 570	67 690	141 260	112 322	42 724	155 046	-38 752	24 966	-13 786
Q4	80 753	72 094	152 847	113 736	44 802	158 538	-32 983	27 292	-5 691
2017 Q1	82 138	71 279	153 417	116 161	44 684	160 845	-34 023	26 595	-7 428
Q2	84 864	72 791	157 655	118 181	45 292	163 473	-33 317	27 499	-5 818
Q3	84 557	74 467	159 024	119 272	45 684	164 956	-34 715	28 783	-5 932
Q4	85 907	73 082	158 989	119 747	45 191	164 938	-33 840	27 891	-5 949
2018 Q1	84 800	72 907	157 707	117 567	45 926	163 493	-32 767	26 981	-5 786
Q2	83 812	72 811	156 623	120 573	48 094	168 667	-36 761	24 717	-12 044
Q3	87 821	74 485	162 306	123 317	47 890	171 207	-35 496	26 595	-8 901
Q4	88 378	77 216	165 594	125 733	50 859	176 592	-37 355	26 357	-10 998
2019 Q1	90 070	76 710	166 780	138 145	51 384	189 529	-48 075	25 326	-22 749
Q2	85 430	71 456	156 886	119 558	48 722	168 280	-34 128	22 734	-11 394
<b>Percentage change, latest year on previous year</b>									
	KG9K	KH35	KH2O	KG9L	KH3W	KH3H			
2015	-2.1	2.3	-0.1	-2.3	6.5	-			
2016	4.2	10.4	7.1	7.0	9.7	7.8			
2017	13.3	8.2	10.9	9.5	7.8	9.1			
2018	2.2	2.0	2.1	2.9	6.6	3.9			
<b>Percentage change, latest quarter on previous quarter</b>									
	KG9O	KH36	KH2P	KG9P	KH3X	KH3I			
2016 Q1	-1.3	1.3	-0.1	1.2	1.3	1.2			
Q2	6.6	1.7	4.3	3.1	2.3	2.9			
Q3	-0.7	3.4	1.2	7.4	5.4	6.8			
Q4	9.8	6.5	8.2	1.3	4.9	2.3			
2017 Q1	1.7	-1.1	0.4	2.1	-0.3	1.5			
Q2	3.3	2.1	2.8	1.7	1.4	1.6			
Q3	-0.4	2.3	0.9	0.9	0.9	0.9			
Q4	1.6	-1.9	-	0.4	-1.1	-			
2018 Q1	-1.3	-0.2	-0.8	-1.8	1.6	-0.9			
Q2	-1.2	-0.1	-0.7	2.6	4.7	3.2			
Q3	4.8	2.3	3.6	2.3	-0.4	1.5			
Q4	0.6	3.7	2.0	2.0	6.2	3.1			
2019 Q1	1.9	-0.7	0.7	9.9	1.0	7.3			
Q2	-5.2	-6.8	-5.9	-13.5	-5.2	-11.2			
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>									
	KG9S	KH37	KH2Q	KG9T	KH3Y	KH3J			
2016 Q1	-2.2	6.0	1.6	-3.1	5.9	-0.8			
Q2	-0.3	7.7	3.3	4.0	6.1	4.6			
Q3	4.8	14.5	9.2	14.4	12.4	13.8			
Q4	14.7	13.5	14.1	13.5	14.4	13.7			
2017 Q1	18.2	10.8	14.6	14.5	12.7	14.0			
Q2	14.5	11.2	13.0	13.0	11.7	12.6			
Q3	14.9	10.0	12.6	6.2	6.9	6.4			
Q4	6.4	1.4	4.0	5.3	0.9	4.0			
2018 Q1	3.2	2.3	2.8	1.2	2.8	1.6			
Q2	-1.2	-	-0.7	2.0	6.2	3.2			
Q3	3.9	-	2.1	3.4	4.8	3.8			
Q4	2.9	5.7	4.2	5.0	12.5	7.1			
2019 Q1	6.2	5.2	5.8	17.5	11.9	15.9			
Q2	1.9	-1.9	0.2	-0.8	1.3	-0.2			

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

# H2 Exports and imports of goods and services

## Chained volume measures

Reference year 2016, £ million

	Exports			Imports			Balance
	Goods	Services	Total	Goods	Services	Total	Total <sup>1</sup>
	BQKQ	IKBE	IKBK	BQKO	IKBF	IKBL	IKBM
2015	301 409	251 247	552 388	412 975	161 631	574 575	-22 187
2016	297 922	269 577	567 499	432 101	167 721	599 822	-32 323
2017	316 737	285 386	602 123	444 634	176 204	620 838	-18 715
2018	311 914	285 009	596 923	443 329	181 943	625 272	-28 349
<b>Seasonally adjusted</b>							
2016 Q1 <sup>2</sup>	74 171	65 659	139 793	105 578	41 009	146 569	-6 776
Q2 <sup>2</sup>	75 454	66 720	142 154	106 382	41 324	147 688	-5 534
Q3 <sup>2</sup>	72 200	66 322	138 543	110 408	41 641	152 072	-13 529
Q4 <sup>2</sup>	76 097	70 876	147 009	109 733	43 747	153 493	-6 484
2017 Q1	76 982	70 674	147 656	109 435	43 039	152 474	-4 818
Q2	80 051	71 139	151 190	111 732	44 230	155 962	-4 772
Q3	79 982	72 789	152 771	112 254	44 721	156 975	-4 204
Q4	79 722	70 784	150 506	111 213	44 214	155 427	-4 921
2018 Q1	79 303	70 135	149 438	109 777	44 232	154 009	-4 571
Q2	75 607	69 993	145 600	110 248	44 419	154 667	-9 067
Q3	78 832	71 758	150 590	110 944	45 183	156 127	-5 537
Q4	78 172	73 123	151 295	112 360	48 109	160 469	-9 174
2019 Q1	81 177	72 483	153 660	128 221	48 732	176 953	-23 293
Q2	75 723	67 818	143 541	108 378	45 616	153 994	-10 453
<b>Percentage change, latest year on previous year</b>							
	KG9X	KH3B	KH2U	KG9W	KH44	KH3N	
2015	5.4	1.8	3.8	4.1	9.1	5.4	
2016	-1.2	7.3	2.7	4.6	3.8	4.4	
2017	6.3	5.9	6.1	2.9	5.1	3.5	
2018	-1.5	-0.1	-0.9	-0.3	3.3	0.7	
<b>Percentage change, latest quarter on previous quarter</b>							
	KGA2	KH3C	KH2V	KG9Z	KH45	KH3O	
2016 Q1	-1.2	1.7	0.2	0.9	-0.5	0.5	
Q2	1.7	1.6	1.7	0.8	0.8	0.8	
Q3	-4.3	-0.6	-2.5	3.8	0.8	3.0	
Q4	5.4	6.9	6.1	-0.6	5.1	0.9	
2017 Q1	1.2	-0.3	0.4	-0.3	-1.6	-0.7	
Q2	4.0	0.7	2.4	2.1	2.8	2.3	
Q3	-0.1	2.3	1.0	0.5	1.1	0.6	
Q4	-0.3	-2.8	-1.5	-0.9	-1.1	-1.0	
2018 Q1	-0.5	-0.9	-0.7	-1.3	-	-0.9	
Q2	-4.7	-0.2	-2.6	0.4	0.4	0.4	
Q3	4.3	2.5	3.4	0.6	1.7	0.9	
Q4	-0.8	1.9	0.5	1.3	6.5	2.8	
2019 Q1	3.8	-0.9	1.6	14.1	1.3	10.3	
Q2	-6.7	-6.4	-6.6	-15.5	-6.4	-13.0	
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>							
	KGA5	KH3D	KH2W	KGA4	KH46	KH3P	
2016 Q1	0.3	3.6	1.9	-	4.4	1.1	
Q2	-2.0	8.3	2.5	4.8	1.6	3.9	
Q3	-4.2	7.5	1.1	9.0	2.9	7.3	
Q4	1.4	9.8	5.3	4.9	6.1	5.2	
2017 Q1	3.8	7.6	5.6	3.7	5.0	4.0	
Q2	6.1	6.6	6.4	5.0	7.0	5.6	
Q3	10.8	9.8	10.3	1.7	7.4	3.2	
Q4	4.8	-0.1	2.4	1.3	1.1	1.3	
2018 Q1	3.0	-0.8	1.2	0.3	2.8	1.0	
Q2	-5.6	-1.6	-3.7	-1.3	0.4	-0.8	
Q3	-1.4	-1.4	-1.4	-1.2	1.0	-0.5	
Q4	-1.9	3.3	0.5	1.0	8.8	3.2	
2019 Q1	2.4	3.3	2.8	16.8	10.2	14.9	
Q2	0.2	-3.1	-1.4	-1.7	2.7	-0.4	

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

## Gross value added at basic prices: individual measures

	£ million				Index numbers (2016 = 100) <sup>3</sup>				
	Expenditure-based estimate at chained volume measures	At current prices			Value indices at current prices		Chained volume indices		
		Expenditure-based estimate	Income-based estimate	Residual error <sup>1</sup>	Expenditure-based estimate	Income-based estimate	Expenditure-based estimate	Income-based estimate <sup>2</sup>	Output-based estimate
	CAGR	CAGQ	CAGS	DJDS	IHYA	IHYB	IHYC	IHYD	YBFR
2015	1 744 182	1 709 325	1 709 325	–	96.1	96.1	98.1	98.1	98.1
2016	1 778 133	1 778 133	1 778 134	–1	100.0	100.0	100.0	100.0	100.0
2017	1 813 229	1 846 693	1 846 694	–1	103.9	103.9	102.0	102.0	102.0
2018	1 828 090	1 898 281	1 913 254	–14 973	106.8	107.6	102.8	103.6	103.7
<b>Seasonally adjusted</b>									
2016 Q1	440 945	435 988	435 988	–	98.1	98.1	99.2	99.2	99.2
Q2	443 035	443 490	443 490	–	99.8	99.8	99.7	99.7	99.7
Q3	445 449	446 573	446 574	–1	100.5	100.5	100.2	100.2	100.2
Q4	448 704	452 082	452 082	–	101.7	101.7	100.9	100.9	100.9
2017 Q1	451 405	457 806	457 668	138	103.0	103.0	101.5	101.5	101.5
Q2	452 532	460 056	459 891	165	103.5	103.5	101.8	101.8	101.8
Q3	453 971	461 067	460 954	113	103.7	103.7	102.1	102.1	102.1
Q4	455 321	467 764	468 181	–417	105.2	105.3	102.4	102.5	102.6
2018 Q1	454 813	470 652	471 990	–1 338	105.9	106.2	102.3	102.6	102.8
Q2	456 315	471 430	474 152	–2 722	106.1	106.7	102.7	103.2	103.4
Q3	458 198	477 470	482 014	–4 544	107.4	108.4	103.1	104.1	104.1
Q4	458 764	478 729	485 098	–6 369	107.7	109.1	103.2	104.6	104.4
2019 Q1	461 385	484 823	491 490	–6 667	109.1	110.6	103.8	105.2	105.0
Q2	460 289	488 383	495 170	–6 787	109.9	111.4	103.5	105.0	104.8
<b>Percentage change, latest year on previous year</b>									
	KH4D	KH47	KH68		KH47	KH68	KH4D	KH6E	GDPQ
2015	2.2	3.0	3.0		3.0	3.0	2.2	2.2	2.2
2016	1.9	4.0	4.0		4.0	4.0	1.9	1.9	1.9
2017	2.0	3.9	3.9		3.9	3.9	2.0	2.0	2.0
2018	0.8	2.8	3.6		2.8	3.6	0.8	1.6	1.6
<b>Percentage change, latest quarter on previous quarter</b>									
	KH4F	KH49	KH6A		KH49	KH6A	KH4F	KH6G	
2016 Q1	0.3	1.0	1.0		1.0	1.0	0.3	0.3	0.3
Q2	0.5	1.7	1.7		1.7	1.7	0.5	0.5	0.5
Q3	0.5	0.7	0.7		0.7	0.7	0.5	0.5	0.5
Q4	0.7	1.2	1.2		1.2	1.2	0.7	0.7	0.7
2017 Q1	0.6	1.3	1.2		1.3	1.2	0.6	0.6	0.6
Q2	0.2	0.5	0.5		0.5	0.5	0.2	0.2	0.3
Q3	0.3	0.2	0.2		0.2	0.2	0.3	0.3	0.4
Q4	0.3	1.5	1.6		1.5	1.6	0.3	0.4	0.5
2018 Q1	–0.1	0.6	0.8		0.6	0.8	–0.1	0.1	0.2
Q2	0.3	0.2	0.5		0.2	0.5	0.3	0.6	0.6
Q3	0.4	1.3	1.7		1.3	1.7	0.4	0.8	0.7
Q4	0.1	0.3	0.6		0.3	0.6	0.1	0.5	0.3
2019 Q1	0.6	1.3	1.3		1.3	1.3	0.6	0.6	0.6
Q2	–0.2	0.7	0.7		0.7	0.7	–0.2	–0.2	–0.2
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>									
	KH4H	KH4B	KH6C		KH4B	KH6C	KH4H	KH6I	GDPR
2016 Q1	2.0	3.4	3.4		3.4	3.4	2.0	2.0	2.0
Q2	1.8	3.7	3.7		3.7	3.7	1.8	1.8	1.8
Q3	2.0	4.1	4.1		4.1	4.1	2.0	2.0	2.0
Q4	2.0	4.8	4.8		4.8	4.8	2.0	2.0	2.0
2017 Q1	2.4	5.0	5.0		5.0	5.0	2.4	2.3	2.3
Q2	2.1	3.7	3.7		3.7	3.7	2.1	2.1	2.1
Q3	1.9	3.2	3.2		3.2	3.2	1.9	1.9	1.9
Q4	1.5	3.5	3.6		3.5	3.6	1.5	1.6	1.7
2018 Q1	0.8	2.8	3.1		2.8	3.1	0.8	1.1	1.3
Q2	0.8	2.5	3.1		2.5	3.1	0.8	1.5	1.6
Q3	0.9	3.6	4.6		3.6	4.6	0.9	1.9	1.9
Q4	0.8	2.3	3.6		2.3	3.6	0.8	2.0	1.8
2019 Q1	1.4	3.0	4.1		3.0	4.1	1.4	2.5	2.2
Q2	0.9	3.6	4.4		3.6	4.4	0.9	1.7	1.3

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.  
3 The growth rates of index numbers are calculated using unrounded data.

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

£ million

	Changes in inventories		Gross operating surplus of non-financial corporations at current prices
	At current prices	Chained volume measures (Reference year 2016)	
<b>Seasonally adjusted</b>			
	DMUN	DMUM	DMUQ
2016 Q1	1 077	1 082	763
Q2	-954	-961	-799
Q3	1 861	1 852	-1 791
Q4	-1 984	-1 972	1 827
2017 Q1	1 863	1 833	126
Q2	-1 967	-1 937	-241
Q3	-349	-342	44
Q4	453	446	71
2018 Q1	-2 600	-2 516	1 220
Q2	1 841	1 781	-1 155
Q3	-22	-17	1 838
Q4	781	752	-1 903
2019 Q1	-1 766	-1 679	-101
Q2	2 131	2 012	1 552

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

# N Selected financial year variables 1,2

£ millions except deflator index which is 2018/19 = 100

	Current prices					Chained Volume Measures (reference year 2016)				
	Gross domestic product at market prices	Gross domestic product at market prices non seasonally adjusted	Gross value added at basic prices	General government final consumption expenditure	General government gross fixed capital formation	Gross domestic product at market prices	Gross value added at basic prices	General government final consumption expenditure	General government gross fixed capital formation	Implied GDP deflator at market prices <sup>3 4</sup>
	YBHA	BKTL	ABML	NMRP	RPZG	ABMI	ABMM	NMRY	DLWF	L8GG
2015/16	1 934 489	1 934 600	1 723 821	375 641	49 666	1 967 966	1 752 769	380 173	49 428	94.2774
2016/17	2 019 115	2 019 484	1 799 847	383 393	53 708	2 006 495	1 788 490	381 572	53 447	96.5095
2017/18	2 085 972	2 086 378	1 861 013	388 320	55 660	2 038 551	1 818 064	382 766	54 551	98.1390
2018/19	2 160 399	2 162 822	1 925 740	400 053	59 753	2 071 981	1 847 392	387 665	56 933	100.0000
<b>Seasonally adjusted</b>										
2016 Q1	489 821	491 845	435 988	94 626	12 139	494 966	440 945	95 369	12 235	94.9129
Q2	497 571	496 920	443 490	95 240	13 225	497 593	443 035	95 290	13 258	95.9056
Q3	500 711	495 160	446 574	95 635	13 679	499 836	445 450	95 386	13 617	96.0777
Q4	507 375	511 554	452 082	96 021	13 375	503 083	448 704	95 477	13 308	96.7281
2017 Q1	513 458	515 850	457 701	96 497	13 429	505 983	451 301	95 419	13 264	97.3267
Q2	515 534	512 093	459 955	95 869	13 910	507 255	452 432	95 460	13 949	97.4752
Q3	517 788	513 359	461 056	96 670	13 790	508 982	453 960	95 724	13 517	97.5692
Q4	524 887	530 365	468 191	97 631	14 161	511 014	455 736	95 905	13 703	98.5136
2018 Q1	527 763	530 561	471 811	98 150	13 799	511 300	455 936	95 677	13 382	98.9980
Q2	532 388	528 445	473 490	98 172	13 952	514 017	458 304	95 646	13 400	99.3377
Q3	538 756	533 442	480 551	99 029	14 829	517 221	461 156	96 040	14 235	99.9032
Q4	541 371	547 830	482 756	100 636	14 986	518 870	462 623	97 592	14 551	100.0690
2019 Q1	547 884	553 105	488 943	102 216	15 986	521 873	465 309	98 387	14 747	100.6902
Q2	551 898	544 189	492 621	104 441	15 100	520 735	464 287	99 449	14 220	101.6495
<b>Percentage change, latest financial year on previous financial year</b>										
2015/16	3.2	3.4	3.1	1.5	-2.5	2.3	2.1	2.2	-6.5	0.9
2016/17	4.4	4.4	4.4	2.1	8.1	2.0	2.0	0.4	8.1	2.4
2017/18	3.3	3.3	3.4	1.3	3.6	1.6	1.7	0.3	2.1	1.7
2018/19	3.6	3.7	3.5	3.0	7.4	1.6	1.6	1.3	4.4	1.9
<b>Percentage change, latest quarter on previous quarter</b>										
	IHYN	A8L9	KGL8	KH2D	KH7P	IHYQ	KGM9	KH2J	KH9C	L8GH
2016 Q1	1.2	-	1.0	1.2	-1.0	0.2	0.3	0.3	1.1	1.0
Q2	1.6	1.0	1.7	0.6	8.9	0.5	0.5	-0.1	8.4	1.0
Q3	0.6	-0.4	0.7	0.4	3.4	0.5	0.5	0.1	2.7	0.2
Q4	1.3	3.3	1.2	0.4	-2.2	0.6	0.7	0.1	-2.3	0.7
2017 Q1	1.2	0.8	1.2	0.5	0.4	0.6	0.6	-0.1	-0.3	0.6
Q2	0.4	-0.7	0.5	-0.7	3.6	0.3	0.3	-	5.2	0.2
Q3	0.4	0.2	0.2	0.8	-0.9	0.3	0.3	0.3	-3.1	0.1
Q4	1.4	3.3	1.5	1.0	2.7	0.4	0.4	0.2	1.4	1.0
2018 Q1	0.5	-	0.8	0.5	-2.6	0.1	-	-0.2	-2.3	0.5
Q2	0.9	-0.4	0.4	-	1.1	0.5	0.5	-	0.1	0.3
Q3	1.2	0.9	1.5	0.9	6.3	0.6	0.6	0.4	6.2	0.6
Q4	0.5	2.7	0.5	1.6	1.1	0.3	0.3	1.6	2.2	0.2
2019 Q1	1.2	1.0	1.3	1.6	6.7	0.6	0.6	0.8	1.3	0.6
Q2	0.7	-1.6	0.8	2.2	-5.5	-0.2	-0.2	1.1	-3.6	1.0
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>										
	IHYO	A8LA	KGM2	KH2E	KH7R	IHYR	KGN3	KH2K	KH9M	L8GI
2016 Q1	3.7	3.7	3.4	2.1	-10.9	2.1	2.0	2.4	-12.8	1.6
Q2	3.8	4.7	3.7	2.3	2.1	1.9	1.8	0.8	3.0	1.9
Q3	4.1	3.9	4.1	1.3	11.1	1.9	2.0	0.2	11.4	2.1
Q4	4.8	4.1	4.8	2.7	9.0	1.8	2.0	0.5	10.0	3.0
2017 Q1	4.8	4.9	5.0	2.0	10.6	2.2	2.3	0.1	8.4	2.5
Q2	3.6	3.1	3.7	0.7	5.2	1.9	2.1	0.2	5.2	1.6
Q3	3.4	3.7	3.2	1.1	0.8	1.8	1.9	0.4	-0.7	1.6
Q4	3.5	3.7	3.6	1.7	5.9	1.6	1.6	0.4	3.0	1.8
2018 Q1	2.8	2.9	3.1	1.7	2.8	1.1	1.0	0.3	0.9	1.7
Q2	3.3	3.2	2.9	2.4	0.3	1.3	1.3	0.2	-3.9	1.9
Q3	4.0	3.9	4.2	2.4	7.5	1.6	1.6	0.3	5.3	2.4
Q4	3.1	3.3	3.1	3.1	5.8	1.5	1.5	1.8	6.2	1.6
2019 Q1	3.8	4.2	3.6	4.1	15.8	2.1	2.1	2.8	10.2	1.7
Q2	3.7	3.0	4.0	6.4	8.2	1.3	1.3	4.0	6.1	2.3

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

2 All data are seasonally adjusted unless otherwise specified.

3 Implied deflator is expressed in terms of 2018/2019= 100 for presentational

purposes, whereas in table A1 it is expressed as 2016 = 100.

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

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

2018 = 100

	Implied deflators <sup>2</sup>		
	Gross national expenditure	Gross domestic product at market prices <sup>3</sup>	Gross value added at basic prices
	MNE2	MNF2	MNX5
2015	94.1654	94.2980	94.3777
2016	95.9458	96.3135	96.2997
2017	98.0452	98.1363	98.0797
2018	100.0000	100.0000	100.0000
<b>Seasonally adjusted</b>			
2016 Q1	95.0547	95.3161	95.2210
Q2	95.9531	96.3130	96.4025
Q3	96.1803	96.4859	96.5466
Q4	96.5950	97.1390	97.0286
2017 Q1	97.8438	97.7402	97.6693
Q2	97.6969	97.8893	97.9049
Q3	97.9191	97.9837	97.8090
Q4	98.7208	98.9321	98.9355
2018 Q1	99.2381	99.4186	99.6568
Q2	99.8674	99.7597	99.4947
Q3	100.5230	100.3276	100.3539
Q4	100.3715	100.4941	100.4947
2019 Q1	100.4296	101.1179	101.1951
Q2	101.7489	102.0814	102.1807
<b>Percentage change, latest year on previous year</b>			
	MNE3	MNF3	MNX6
2015	0.1	0.6	0.8
2016	1.9	2.1	2.0
2017	2.2	1.9	1.8
2018	2.0	1.9	2.0
<b>Percentage change, latest quarter on previous quarter</b>			
	MNE4	MNF4	MNX7
2016 Q1	1.3	1.0	0.8
Q2	0.9	1.0	1.2
Q3	0.2	0.2	0.1
Q4	0.4	0.7	0.5
2017 Q1	1.3	0.6	0.7
Q2	-0.2	0.2	0.2
Q3	0.2	0.1	-0.1
Q4	0.8	1.0	1.2
2018 Q1	0.5	0.5	0.7
Q2	0.6	0.3	-0.2
Q3	0.7	0.6	0.9
Q4	-0.2	0.2	0.1
2019 Q1	0.1	0.6	0.7
Q2	1.3	1.0	1.0
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>			
	MNE5	MNF5	MNX8
2016 Q1	1.2	1.6	1.4
Q2	1.8	1.9	1.9
Q3	1.7	2.1	2.1
Q4	2.9	3.0	2.7
2017 Q1	2.9	2.5	2.6
Q2	1.8	1.6	1.6
Q3	1.8	1.6	1.3
Q4	2.2	1.8	2.0
2018 Q1	1.4	1.7	2.0
Q2	2.2	1.9	1.6
Q3	2.7	2.4	2.6
Q4	1.7	1.6	1.6
2019 Q1	1.2	1.7	1.5
Q2	1.9	2.3	2.7

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

2 Data are only considered accurate to 1 decimal place.

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

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

£

	UK resident population mid-year estimates (persons thousands) <sup>2</sup>	Current Prices		Chained volume measures (Reference year 2016)	
		Gross domestic product at market prices <sup>3</sup>	Gross domestic product per head	Gross domestic product at market prices <sup>3</sup>	Gross domestic product per head
	EBAQ	YBHA	IHXT	ABMI	IHXW
2015	65 110	1 916 896	29 441	1 957 920	30 071
2016	65 648	1 995 478	30 397	1 995 478	30 397
2017	66 040	2 071 667	31 370	2 033 234	30 788
2018	66 436	2 140 278	32 216	2 061 408	31 028
<b>Seasonally adjusted</b>					
2016 Q1	65 514	489 821	7 477	494 966	7 555
Q2	65 648	497 571	7 579	497 593	7 580
Q3	65 746	500 711	7 616	499 836	7 603
Q4	65 844	507 375	7 706	503 083	7 641
2017 Q1	65 942	513 458	7 787	505 983	7 673
Q2	66 040	515 534	7 806	507 255	7 681
Q3	66 139	517 788	7 829	508 982	7 696
Q4	66 238	524 887	7 924	511 014	7 715
2018 Q1	66 337	527 763	7 956	511 300	7 708
Q2	66 436	532 388	8 014	514 017	7 737
Q3	66 544	538 756	8 096	517 221	7 773
Q4	66 652	541 371	8 122	518 870	7 785
2019 Q1	66 759	547 884	8 207	521 873	7 817
Q2	66 867	551 898	8 254	520 735	7 788
<b>Percentage change, latest year on previous year</b>					
		IHYM	N3Y3	IHYP	N3Y6
2015		3.0	2.1	2.4	1.6
2016		4.1	3.2	1.9	1.1
2017		3.8	3.2	1.9	1.3
2018		3.3	2.7	1.4	0.8
<b>Percentage change, latest quarter on previous quarter</b>					
		IHYN	N3Y4	IHYQ	N3Y7
2016 Q1		1.2	1.0	0.2	-
Q2		1.6	1.4	0.5	0.3
Q3		0.6	0.5	0.5	0.3
Q4		1.3	1.2	0.6	0.5
2017 Q1		1.2	1.1	0.6	0.4
Q2		0.4	0.2	0.3	0.1
Q3		0.4	0.3	0.3	0.2
Q4		1.4	1.2	0.4	0.2
2018 Q1		0.5	0.4	0.1	-0.1
Q2		0.9	0.7	0.5	0.4
Q3		1.2	1.0	0.6	0.5
Q4		0.5	0.3	0.3	0.2
2019 Q1		1.2	1.0	0.6	0.4
Q2		0.7	0.6	-0.2	-0.4
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>					
		IHYO	N3Y5	IHYR	N3Y8
2016 Q1		3.7	2.9	2.1	1.2
Q2		3.8	2.9	1.9	1.1
Q3		4.1	3.3	1.9	1.1
Q4		4.8	4.1	1.8	1.1
2017 Q1		4.8	4.1	2.2	1.6
Q2		3.6	3.0	1.9	1.3
Q3		3.4	2.8	1.8	1.2
Q4		3.5	2.8	1.6	1.0
2018 Q1		2.8	2.2	1.1	0.5
Q2		3.3	2.7	1.3	0.7
Q3		4.0	3.4	1.6	1.0
Q4		3.1	2.5	1.5	0.9
2019 Q1		3.8	3.2	2.1	1.4
Q2		3.7	3.0	1.3	0.7

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

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

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

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

## Revisions since previously published estimates

£ million

		2017	2018
<b>Latest less previously published levels of GDP at current market prices</b>			
<b>National accounts aggregates at current prices (Table A2)</b>			
Gross domestic product at market prices	KB7D	22 038	22 554
less Basic price adjustment	KB7E	1 008	1 071
Gross value added at basic prices	KB7F	21 030	21 483
<b>Gross domestic product: expenditure at current prices (Table C1)</b>			
National expenditure on goods and services at market prices			
Households	KB7K	11 321	12 880
Non-profit institutions serving households	KB7L	-11 426	-10 866
General government	KB7M	11 448	9 896
Gross fixed capital formation	KB7N	5 787	3 911
Changes in inventories	KB7O	3 123	-462
Acquisitions less disposals of valuables	KB7P	886	883
Total	KB7Q	21 139	16 242
Total exports	KB7R	11 546	8 168
Total imports	KB7S	12 740	14 928
Statistical discrepancy (expenditure)	KB7T	2 093	13 072
<b>Gross domestic product: income at current prices (Table D)</b>			
Compensation of employees	KB7U	5 213	6 610
Gross operating surplus of corporations	KB7V	-3 683	-154
Other income	KB7W	26 484	30 281
Gross value added at factor cost	KB7X	28 014	36 737
Taxes on products & production less Subsidies	KB7Y	1 006	573
Statistical discrepancy (income)	KB7Z	-6 982	-14 756

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

		2017	2018
<b>Latest less previously published growth rates for GDP in chained volume terms</b>			
<b>Percentage changes in volume of GDP (Table A2)</b>			
Gross domestic product chained volume measures			
Year on year growth	KB82	0.1	-
<b>Percentage changes in volume of GVA output components (Table B1)</b>			
GVA at basic prices			
Agriculture, forestry and fishing	KB83	2.7	-1.7
Mining and quarrying inc oil & gas extraction	KB84	2.3	0.5
Manufacturing	KB85	-0.3	-0.5
Electricity, gas, steam and air	KB86	-0.2	-1.3
Water supply, sewerage	KNT7	-1.4	-0.4
Total Production	KB87	-0.1	-0.7
Construction	KB88	-0.7	-0.7
Distribution, hotels and restaurants	KB89	0.2	-
Transport storage and communications	KB8A	-1.3	-0.6
Business services and finance	KB8B	-1.2	0.5
Government and other services	KB8C	0.6	0.8
Total services	KB8D	-0.4	0.4
Total GVA	KB8E	-0.1	-
Total GVA excluding Oil	KB8F	-0.1	-0.1
<b>Percentage changes in volume of GDP expenditure components (Table C2)</b>			
National expenditure on goods and services at market prices			
Households	KB8G	0.1	-0.2
Non-profit institutions serving households	KB8H	0.1	2.0
General government	KB8I	0.5	0.2
Gross fixed capital formation	KB8J	-1.9	-0.3
Total	KB8K	-0.2	-0.2
Total exports	KB8L	0.5	-1.0
Total imports	KB8M	-	-

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

## Revisions since previously published estimates

continued

£ million

		2017	2017	2017	2017	2018	2018	2018	2018	2019	2019
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
<b>Latest less previously published levels of GDP at current market prices</b>											
<b>National accounts aggregates at current prices (Table A2)</b>											
Gross domestic product at market prices	KB7D	6 430	6 665	3 530	5 413	4 872	5 994	6 312	5 376	6 863	8 741
less Basic price adjustment	KB7E	681	282	-78	123	-310	459	156	766	300	17
Gross value added at basic prices	KB7F	5 749	6 383	3 608	5 290	5 182	5 535	6 156	4 610	6 563	8 724
<b>Gross domestic product: expenditure at current prices (Table C1)</b>											
National expenditure on goods and services at market prices											
Households	KB7K	3 476	3 128	2 172	2 545	3 346	3 817	3 593	2 124	1 384	509
Non-profit institutions serving households	KB7L	-2 975	-2 887	-2 816	-2 748	-2 756	-2 717	-2 686	-2 707	-2 696	-2 667
General government	KB7M	3 449	2 466	2 775	2 758	2 554	2 191	2 293	2 858	2 455	3 635
Gross fixed capital formation	KB7N	2 195	1 467	1 292	833	416	1 324	956	1 215	1 937	2 134
Changes in inventories	KB7O	931	1 131	-297	1 358	-290	3 025	-1 871	-1 326	1 409	6 351
Acquisitions less disposals of valuables	KB7P	215	111	323	237	239	114	293	237	282	1 330
Total	KB7Q	7 291	5 416	3 449	4 983	3 509	7 754	2 578	2 401	4 771	11 292
Total exports	KB7R	1 954	4 611	2 795	2 186	2 362	-9	2 765	3 050	2 609	-3 704
Total imports	KB7S	2 699	3 464	3 362	3 215	2 925	4 587	2 806	4 610	5 091	3 418
Statistical discrepancy (expenditure)	KB7T	-116	102	648	1 459	1 926	2 836	3 775	4 535	4 574	4 571
<b>Gross domestic product: income at current prices (Table D)</b>											
Compensation of employees	KB7U	779	1 114	2 102	1 218	1 438	1 357	1 074	2 741	2 632	3 335
Gross operating surplus of corporations	KB7V	-288	560	-3 204	-751	-674	30	1 900	-1 410	-392	2 238
Other income	KB7W	6 285	6 324	6 713	7 162	7 066	7 495	7 421	8 299	9 257	8 133
Gross value added at factor cost	KB7X	6 776	7 998	5 611	7 629	7 830	8 882	10 395	9 630	11 497	13 706
Taxes on products & production less Subsidies	KB7Y	708	262	-77	113	-241	349	-74	539	474	79
Statistical discrepancy (income)	KB7Z	-1 054	-1 595	-2 004	-2 329	-2 717	-3 237	-4 009	-4 793	-5 108	-5 044

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

		2017	2017	2017	2017	2018	2018	2018	2018	2019	2019
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
<b>Latest less previously published growth rates for GDP in chained volume terms</b>											
<b>Percentage changes in volume of GDP (Table A2)</b>											
Gross domestic product chained volume measures											
Quarter on quarter growth	KB82	0.2	-	-0.2	-	-	0.1	-0.1	0.1	0.1	-
Quarter on same quarter a year earlier	KB94	0.4	-	-0.2	-	-0.1	-0.1	-	0.1	0.3	0.1
<b>Percentage changes in volume of GVA output components (Table B1)</b>											
GVA at basic prices quarter on quarter growth											
Agriculture, forestry and fishing	KB83	2.6	-0.5	-	-0.9	-0.9	-	-0.2	0.2	-	-
Mining and quarrying inc oil & gas extraction	KB84	0.4	-0.5	1.2	1.9	-3.8	2.5	1.2	-0.9	-1.8	-0.7
Manufacturing	KB85	0.4	-0.2	-0.2	-	-0.4	-0.1	-0.1	0.1	0.1	-0.5
Electricity, gas, steam and air	KB86	-0.2	-	-1.9	0.6	0.1	-1.4	-0.4	1.3	-	0.3
Water supply, sewerage	KNT7	-0.1	-3.2	1.5	0.6	-0.4	-0.3	-	-0.8	0.2	0.2
Total Production	KB87	0.4	-0.7	-0.1	0.5	-0.6	-0.1	-0.1	0.1	-	-0.4
Construction	KB88	1.0	0.1	-0.6	0.4	-0.7	0.2	-0.6	0.7	0.2	0.1
Distribution, hotels and restaurants	KB89	0.4	0.2	-0.1	-	-0.1	0.2	0.1	0.4	-0.3	-
Transport storage and communications	KB8A	-0.2	0.4	-0.1	-0.3	-1.0	0.4	-	0.5	0.5	-0.4
Business services and finance	KB8B	-1.1	-0.4	-0.1	0.1	0.5	0.3	-0.1	-0.1	-0.2	-
Government and other services	KB8C	0.4	0.2	-0.1	0.1	0.6	0.2	0.1	-0.3	0.4	0.4
Total services	KB8D	-0.3	-	-0.1	0.1	0.2	0.2	-	-	-	-
Total GVA	KB8E	0.2	-	-0.2	-	-	0.1	-0.1	0.1	0.1	-
Total GVA excluding Oil	KB8F	0.2	-	-0.2	-0.1	-	0.1	-0.1	0.1	0.1	-
<b>Percentage changes in volume of GDP expenditure components (Table C2)</b>											
National expenditure on goods and services at market prices quarter on quarter growth											
Households	KB8G	-0.2	-0.1	-0.1	-	-	-	-0.1	-0.1	-0.3	-0.1
Non-profit institutions serving households	KB8H	1.1	0.6	0.3	0.8	0.9	-0.2	0.8	0.3	0.6	-0.5
General government	KB8I	0.5	-0.5	0.2	0.2	-0.4	0.4	0.5	0.3	-	0.4
Gross fixed capital formation	KB8J	-1.0	-0.5	-0.7	0.4	-0.1	0.2	-0.4	0.5	-0.3	0.1
Total	KB8K	-0.4	-	-	0.2	-0.3	0.4	-0.8	0.5	-	0.8
Total exports	KB8L	0.2	1.2	-0.9	-1.6	0.6	-1.6	2.5	-1.1	0.1	-3.3
Total imports	KB8M	-1.6	1.4	-	-0.4	-0.3	-	0.2	0.7	-0.5	-0.1

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

## Chained Volume Measures

Seasonally adjusted data

Reference year 2016

	Agri- culture, forestry, and fishing	Total Production	Mining & quarrying inc oil & gas extract	Manu- facturing	Electric, gas, steam & air	Water supply, sewerage	Constr uction	Total Services	Distri- bution, hotels & restaurants	Transport storage and commu- nications	Business services and finance	Govern- ment and other services
<b>Percentage change, latest year on previous year</b>												
<b>Growth</b>												
2016	L3BB -5.5	L3BG 1.1	L3BH -2.0	L3BN 0.2	L3DM 3.7	L3DQ 7.1	L3DW 3.9	L3E2 2.0	L3GP 3.7	KI8L 2.8	KI8N 2.7	KI8P -0.5
2017	5.7	1.7	1.7	2.2	-1.8	2.0	6.4	1.7	2.4	3.6	1.0	1.2
2018	-4.0	0.1	4.8	0.4	-1.9	-1.8	-0.4	2.1	2.8	3.2	2.1	1.1
<b>Contributions to growth</b>												
2016	ZZ3V -0.04	ZZ3W 0.16	ZZ3Y -0.02	ZZ3X 0.02	ZZ3Z 0.06	ZZ42 0.09	ZZ43 0.24	ZZ44 1.58	ZZ45 0.49	ZZ46 0.29	ZZ47 0.90	ZZ48 -0.10
2017	0.04	0.24	0.01	0.23	-0.03	0.03	0.39	1.32	0.32	0.39	0.35	0.26
2018	-0.03	0.02	0.04	0.04	-0.03	-0.02	-0.02	1.70	0.38	0.36	0.72	0.24
<b>Percentage change, latest quarter on previous quarter</b>												
<b>Growth</b>												
2017 Q1	L3BB 4.7	L3BG 0.7	L3BH 3.0	L3BN 0.9	L3DM -4.1	L3DQ 3.0	L3DW 4.2	L3E2 0.2	L3GP 0.2	KI8L 0.2	KI8N -0.3	KI8P 0.9
Q2	0.1	-0.4	1.0	-0.1	0.9	-4.0	0.3	0.4	0.5	1.6	-0.2	0.5
Q3	0.6	0.9	1.3	0.9	0.3	1.0	0.1	0.3	0.4	0.6	0.5	-0.2
Q4	-1.0	1.1	-2.6	1.5	-0.2	0.6	0.7	0.4	0.2	1.0	0.5	-0.2
2018 Q1	-3.0	-0.5	0.8	-0.7	1.2	-2.3	-2.2	0.5	0.2	-0.8	1.0	0.7
Q2	-0.9	-0.7	5.0	-0.6	-5.1	0.3	0.7	0.8	1.9	1.6	0.5	0.3
Q3	-0.3	0.5	3.4	0.1	1.2	1.6	1.2	0.6	1.1	1.8	0.2	0.4
Q4	0.8	-0.7	-1.7	-0.6	-0.2	-1.7	0.2	0.5	0.7	1.3	0.3	0.3
2019 Q1	-1.4	1.1	-0.9	2.0	-2.8	-0.6	1.6	0.4	0.9	1.5	-0.3	0.6
Q2	-0.4	-1.8	-1.1	-2.8	2.8	1.2	-1.2	0.1	-	0.6	-	0.2
<b>Contributions to growth</b>												
2017 Q1	ZZ2F 0.03	ZZ2G 0.09	ZZ2I 0.02	ZZ2H 0.10	ZZ2J -0.06	ZZ2K 0.04	ZZ2L 0.26	ZZ2M 0.16	ZZ2N 0.03	ZZ2O 0.03	ZZ2P -0.09	ZZ2Q 0.20
Q2	-	-0.05	0.01	-0.01	0.01	-0.05	0.02	0.28	0.06	0.18	-0.06	0.10
Q3	-	0.12	0.01	0.10	-	0.01	0.01	0.24	0.05	0.06	0.17	-0.05
Q4	-0.01	0.14	-0.02	0.16	-	0.01	0.05	0.28	0.02	0.12	0.18	-0.04
2018 Q1	-0.02	-0.07	0.01	-0.07	0.02	-0.03	-0.14	0.42	0.03	-0.08	0.32	0.15
Q2	-0.01	-0.10	0.04	-0.06	-0.07	-	0.04	0.67	0.25	0.18	0.16	0.08
Q3	-	0.07	0.03	0.01	0.02	0.02	0.07	0.52	0.15	0.21	0.08	0.08
Q4	0.01	-0.10	-0.01	-0.06	-	-0.02	0.01	0.42	0.09	0.15	0.11	0.07
2019 Q1	-0.01	0.15	-0.01	0.19	-0.04	-0.01	0.10	0.32	0.12	0.17	-0.10	0.12
Q2	-	-0.24	-0.01	-0.28	0.04	0.02	-0.07	0.12	-	0.07	-	0.04
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>												
<b>Growth</b>												
2017 Q1	L3ZZ 4.9	L426 2.5	L427 1.70	L42D 2.4	L44C 0.3	L44G 6.2	L44M 8.0	L44Q 1.8	L47F 2.9	KII2 3.1	KIH9 1.7	KIH8 0.8
Q2	6.6	0.2	2.80	0.6	-3.7	0.2	6.5	2.1	2.8	4.6	1.3	1.6
Q3	7.1	2.0	-0.40	2.6	-0.4	1.2	5.9	1.5	2.9	3.2	0.6	1.4
Q4	4.4	2.3	2.70	3.3	-3.1	0.5	5.4	1.2	1.3	3.5	0.6	1.0
2018 Q1	-3.3	1.1	0.50	1.7	2.3	-4.7	-1.1	1.5	1.3	2.5	1.8	0.8
Q2	-4.3	0.7	4.50	1.2	-3.8	-0.4	-0.6	2.0	2.7	2.5	2.5	0.6
Q3	-5.1	0.3	6.70	0.4	-3.0	0.2	0.4	2.4	3.4	3.8	2.2	1.2
Q4	-3.5	-1.5	7.60	-1.7	-3.0	-2.1	-0.2	2.6	4.0	4.1	2.0	1.7
2019 Q1	-1.9	0.2	5.80	0.9	-6.9	-0.4	3.7	2.4	4.7	6.5	0.8	1.6
Q2	-1.4	-0.9	-0.30	-1.3	0.9	0.5	1.8	1.7	2.7	5.4	0.3	1.4
<b>Contributions to growth</b>												
2017 Q1	ZZ36 0.03	ZZ37 0.35	ZZ39 0.01	ZZ38 0.25	ZZ3A -	ZZ3B 0.08	ZZ3C 0.48	ZZ3D 1.45	ZZ3E 0.38	ZZ3F 0.33	ZZ3G 0.56	ZZ3H 0.17
Q2	0.04	0.02	0.02	0.06	-0.06	-	0.40	1.63	0.37	0.49	0.43	0.35
Q3	0.05	0.27	-	0.26	-0.01	0.02	0.36	1.23	0.38	0.35	0.21	0.30
Q4	0.03	0.31	0.02	0.33	-0.05	0.01	0.33	0.97	0.17	0.38	0.20	0.22
2018 Q1	-0.02	0.14	-	0.17	0.03	-0.06	-0.07	1.23	0.17	0.27	0.62	0.17
Q2	-0.03	0.09	0.03	0.12	-0.05	-0.01	-0.04	1.62	0.36	0.28	0.84	0.14
Q3	-0.04	0.04	0.05	0.04	-0.04	-	0.02	1.90	0.46	0.42	0.75	0.27
Q4	-0.03	-0.20	0.06	-0.17	-0.04	-0.03	-0.01	2.03	0.53	0.45	0.68	0.37
2019 Q1	-0.01	0.02	0.05	0.09	-0.11	-	0.23	1.94	0.62	0.71	0.26	0.35
Q2	-0.01	-0.12	-	-0.14	0.01	0.01	0.11	1.38	0.37	0.61	0.10	0.31

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

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

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

## Chained Volume Measures

Seasonally adjusted data

Reference year 2016

Final consumption expenditure									
	Households	Non-profit institutions <sup>3</sup>	General government	Gross capital formation	Gross fixed capital formation	Business investment	Total exports	less Total imports	Net trade
<b>Percentage change, latest year on previous year</b>									
<b>Growth</b>									
	KGZ5	KH26	KH2I	ZZ6H	KG7N	KG7M	KH2U	KH3N	
2016	3.8	-1.5	1.0	-0.6	3.6	4.3	2.7	4.4	
2017	2.3	-0.2	0.3	-1.7	1.6	2.9	6.1	3.5	
2018	1.6	0.7	0.6	1.4	-0.1	-1.6	-0.9	0.7	
<b>Contributions to growth</b>									
	ZZ6M	ZZ6N	ZZ6O	ZZ6P	ZZ6Q	ZZ6R	ZZ6S	ZZ6T	ZZ6U
2016	2.39	-0.04	0.19	-0.10	0.62	0.41	0.76	1.28	-0.52
2017	1.44	-	0.05	-0.29	0.28	0.29	1.74	1.05	0.68
2018	1.01	0.02	0.12	0.24	-0.01	-0.16	-0.26	0.23	-0.49
<b>Percentage change, latest quarter on previous quarter</b>									
<b>Growth</b>									
	KGZ6	KH27	KH2J	ZZ5H	KG7Q	KG7P	KH2V	KH3O	
2017 Q1	0.5	0.7	-0.1	2.1	-	2.3	0.4	-0.7	
Q2	0.3	0.5	-	0.3	1.4	1.2	2.4	2.3	
Q3	0.4	-0.3	0.3	-0.5	-0.4	0.2	1.0	0.6	
Q4	0.3	0.7	0.2	1.3	1.1	0.2	-1.5	-1.0	
2018 Q1	0.5	0.7	-0.2	-2.7	-0.9	-1.0	-0.7	-0.9	
Q2	0.5	-0.8	-	5.6	-0.4	-0.6	-2.6	0.4	
Q3	0.3	0.3	0.4	-2.9	0.5	-0.8	3.4	0.9	
Q4	0.2	0.1	1.6	2.6	-0.1	-1.0	0.5	2.8	
2019 Q1	0.3	-0.1	0.8	17.4	0.9	0.8	1.6	10.3	
Q2	0.4	-1.1	1.1	-15.6	-0.9	-0.4	-6.6	-13.0	
<b>Contributions to growth</b>									
	ZZ5M	ZZ5N	ZZ5O	ZZ5P	ZZ5Q	ZZ5R	ZZ5S	ZZ5T	ZZ5U
2017 Q1	-0.08	0.02	-0.01	0.35	0.01	0.22	0.13	-0.20	0.33
Q2	0.18	0.01	0.01	0.05	0.24	0.11	0.70	0.69	0.01
Q3	0.25	-0.01	0.05	-0.08	-0.07	0.02	0.31	0.20	0.11
Q4	0.19	0.02	0.04	0.21	0.19	0.02	-0.45	-0.30	-0.14
2018 Q1	0.34	0.02	-0.04	-0.48	-0.16	-0.10	-0.21	-0.29	0.07
Q2	0.34	-0.02	-0.01	0.96	-0.07	-0.06	-0.77	0.13	-0.90
Q3	0.16	0.01	0.08	-0.52	0.08	-0.08	1.00	0.29	0.70
Q4	0.11	-	0.30	0.45	-0.02	-0.10	0.14	0.87	-0.73
2019 Q1	0.19	-	0.15	3.03	0.15	0.08	0.47	3.33	-2.86
Q2	0.22	-0.03	0.20	-3.18	-0.16	-0.04	-2.01	-4.61	2.60
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>									
<b>Growth</b>									
	KGZ7	KH28	KH2K	ZZ5Y	KG7T	KG7S	KH2W	KH3P	
2017 Q1	3.7	-2.5	0.1	-2.2	1.7	3.0	5.6	4.0	
Q2	2.5	-0.2	0.2	0.9	2.2	3.1	6.4	5.6	
Q3	1.6	0.5	0.4	-7.9	0.5	1.7	10.3	3.2	
Q4	1.5	1.6	0.4	3.2	2.2	3.9	2.4	1.3	
2018 Q1	1.5	1.6	0.3	-1.7	1.2	0.6	1.2	1.0	
Q2	1.8	0.3	0.2	3.6	-0.6	-1.2	-3.7	-0.8	
Q3	1.6	0.8	0.3	1.1	0.2	-2.3	-1.4	-0.5	
Q4	1.5	0.2	1.8	2.4	-1.0	-3.4	0.5	3.2	
2019 Q1	1.3	-0.6	2.8	23.6	0.8	-1.6	2.8	14.9	
Q2	1.1	-0.9	4.0	-1.3	0.3	-1.4	-1.4	-0.4	
<b>Contributions to growth</b>									
	ZZ65	ZZ66	ZZ67	ZZ68	ZZ69	ZZ6A	ZZ6B	ZZ6C	ZZ6D
2017 Q1	2.28	-0.06	0.01	-0.38	0.29	0.29	1.59	1.19	0.40
Q2	1.63	-	0.03	0.15	0.38	0.31	1.82	1.66	0.15
Q3	1.34	0.01	0.07	-1.46	0.08	0.17	2.85	0.98	1.87
Q4	0.54	0.04	0.09	0.53	0.38	0.38	0.70	0.38	0.31
2018 Q1	0.95	0.04	0.05	-0.30	0.20	0.05	0.36	0.31	0.05
Q2	1.12	0.01	0.04	0.63	-0.11	-0.12	-1.13	-0.26	-0.87
Q3	1.03	0.02	0.06	0.19	0.04	-0.22	-0.44	-0.17	-0.27
Q4	0.95	0.01	0.33	0.42	-0.17	-0.34	0.16	1.02	-0.86
2019 Q1	0.81	-0.01	0.53	3.97	0.14	-0.16	0.86	4.70	-3.84
Q2	0.69	-0.02	0.73	-0.23	0.05	-0.14	-0.42	-0.14	-0.28

1 Estimates are accurate to 1 decimal place and contributions are available for this component are available in table C2 from 1997. Expenditure data are available from 1948 annually and 1955 quarterly in table C2

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

3 Non-profit institutions serving households

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

## Current Prices

### Seasonally adjusted data

	Compen- sation of employees	Gross operating surplus of corporations <sup>3</sup>	Other income <sup>4</sup>	Taxes on products & production less subsidies
<b>Percentage change, latest year on previous year</b>				
<b>Growth</b>				
	KGI3	KH4V	KH6T	KH65
2016	4.1	3.8	4.5	4.0
2017	4.3	4.0	2.4	3.8
2018	4.3	0.9	5.2	2.7
<b>Contributions to growth</b>				
	ZZ7H	ZZ7I	ZZ7J	ZZ7K
2016	2.00	0.81	0.80	0.49
2017	2.07	0.84	0.42	0.46
2018	2.11	0.20	0.90	0.32
<b>Percentage change, latest quarter on previous quarter</b>				
<b>Growth</b>				
	KGI4	KH4W	KH6U	KH66
2017 Q1	0.8	3.8	0.2	-0.1
Q2	1.6	-3.2	0.3	2.2
Q3	1.1	-2.0	0.6	1.7
Q4	0.7	4.4	1.0	-0.3
2018 Q1	1.1	0.1	1.4	-1.6
Q2	0.9	-1.9	1.9	5.1
Q3	1.5	2.9	1.2	-1.5
Q4	1.4	-2.5	2.2	0.6
2019 Q1	0.3	3.6	1.9	-
Q2	1.5	-0.9	-0.4	2.0
<b>Contributions to growth</b>				
	ZZ6Z	ZZ72	ZZ73	ZZ74
2017 Q1	0.36	0.81	0.03	-0.01
Q2	0.78	-0.70	0.05	0.26
Q3	0.49	-0.38	0.10	0.19
Q4	0.33	0.94	0.19	-0.04
2018 Q1	0.47	0.03	0.22	-0.18
Q2	0.45	-0.42	0.34	0.62
Q3	0.73	0.60	0.21	-0.19
Q4	0.73	-0.54	0.40	0.08
2019 Q1	0.17	0.73	0.34	-
Q2	0.72	-0.19	-0.06	0.23
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>				
<b>Growth</b>				
	KGI5	KH4X	KH6V	KH67
2017 Q1	4.6	7.4	3.8	2.6
Q2	4.2	4.0	1.5	3.6
Q3	4.1	1.6	2.2	5.4
Q4	4.2	2.8	2.1	3.5
2018 Q1	4.5	-0.8	3.3	1.9
Q2	3.7	0.6	5.0	4.8
Q3	4.1	5.5	5.5	1.5
Q4	5.0	-1.4	6.7	2.4
2019 Q1	4.2	1.9	7.3	4.1
Q2	4.9	2.9	5.0	1.1
<b>Contributions to growth</b>				
	ZZ79	ZZ7A	ZZ7B	ZZ7C
2017 Q1	2.22	1.59	0.67	0.31
Q2	2.03	0.85	0.27	0.44
Q3	2.00	0.34	0.39	0.65
Q4	2.06	0.62	0.38	0.44
2018 Q1	2.19	-0.17	0.59	0.23
Q2	1.84	0.12	0.88	0.60
Q3	2.01	1.14	0.97	0.18
Q4	2.39	-0.31	1.17	0.29
2019 Q1	2.06	0.41	1.29	0.49
Q2	2.41	0.61	0.90	0.14

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

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

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

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

# AD Annex D - Implied GDP deflator growths- Expenditure components of GDP<sup>1</sup>

Seasonally adjusted data

Reference year 2016

	Final consumption expenditure							less Total imports
	House- holds	Non-prof- it instit- utions <sup>2</sup>	General govern- ment	Gross capital formation	Gross fixed capital formation	Total exports		
<b>Percentage change, latest year on previous year</b>								
	ZZ93	ZZ94	ZZ95	ZZ96	ZZ97	ZZ98	ZZ99	
2016	1.5	0.4	1.1	4.6	2.2	4.2	3.2	
2017	1.4	1.1	1.1	6.3	2.2	4.5	5.4	
2018	2.5	1.0	1.8	0.4	1.8	3.0	3.2	
<b>Percentage change, latest quarter on previous quarter</b>								
	ZZ8N	ZZ8O	ZZ8P	ZZ8Q	ZZ8R	ZZ8S	ZZ8T	
2017 Q1	1.0	-0.3	0.6	0.9	0.7	-0.1	2.1	
Q2	0.2	0.6	-0.7	-0.9	0.1	0.4	-0.6	
Q3	-0.1	0.7	0.6	0.9	1.0	-0.2	0.3	
Q4	0.9	-	0.8	0.6	-0.2	1.5	1.0	
2018 Q1	1.1	-0.5	0.8	-1.5	0.3	-0.1	-	
Q2	0.5	1.3	0.1	1.5	1.3	1.9	2.7	
Q3	0.6	-	0.5	1.4	0.2	0.2	0.6	
Q4	0.3	-	-	-1.9	0.3	1.6	0.4	
2019 Q1	0.2	0.3	0.7	-1.2	1.6	-0.8	-2.7	
Q2	0.4	1.5	1.1	5.1	0.1	0.7	2.0	
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>								
	ZZ8U	ZZ8V	ZZ8W	ZZ8X	ZZ8Y	ZZ8Z	ZZ92	
2017 Q1	1.5	1.2	1.9	9.7	2.9	8.5	9.6	
Q2	1.3	0.9	0.5	6.0	2.1	6.2	6.6	
Q3	0.9	1.4	0.7	8.1	2.3	2.1	3.1	
Q4	2.0	1.0	1.2	1.6	1.7	1.6	2.7	
2018 Q1	2.1	0.9	1.4	-0.9	1.2	1.6	0.6	
Q2	2.5	1.5	2.2	1.4	2.4	3.2	4.0	
Q3	3.1	0.8	2.1	1.9	1.5	3.5	4.4	
Q4	2.5	0.8	1.3	-0.6	2.0	3.6	3.7	
2019 Q1	1.5	1.5	1.3	-0.3	3.4	2.8	0.9	
Q2	1.4	1.7	2.3	3.3	2.2	1.6	0.2	

<sup>1</sup> Estimates are accurate to 1 decimal place and are available from 1997.  
Current price and chained volume measure data are available from 1948  
annually and 1955 quarterly in tables C1 and C2 respectively

<sup>2</sup> Non-profit institutions serving households

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

Seasonally adjusted data

Reference year 2016

	Agri- culture, forestry, and fishing	Total Production	Mining & quarrying & gas extract	Manu- facturing	Electric, gas, steam & air	Water supply, sewerage	Constr- uction	Total Services	Distri- bution, hotels & restaurants	Transport, storage and commu- nications	Business services and finance	Govern- ment & other services
<b>Percentage change, latest year on previous year</b>												
<b>Current estimates<sup>3</sup></b>												
	L3BB	L3BG	L3BH	L3BN	L3DM	L3DQ	L3DW	L3E2	L3GP	KI8L	KI8N	KI8P
2016	-5.5	1.1	-2.0	0.2	3.7	7.1	3.9	2.0	3.7	2.8	2.7	-0.5
2017	5.7	1.7	1.7	2.2	-1.8	2.0	6.4	1.7	2.4	3.6	1.0	1.2
2018	-4.0	0.1	4.8	0.4	-1.9	-1.8	-0.4	2.1	2.8	3.2	2.1	1.1
<b>Previous estimates<sup>2</sup></b>												
	A2EQ	A2ER	A2ET	A2ES	A2EU	A2EV	A2EW	A2EY	A2F2	A2F3	A2F4	A2F5
2016	-5.6	1.0	0.3	0.4	2.1	5.6	4.1	1.9	3.8	3.4	2.1	-
2017	3.0	1.8	-0.6	2.5	-1.6	3.4	7.1	2.1	2.2	4.9	2.2	0.6
2018	-2.3	0.8	4.3	0.9	-0.6	-1.4	0.3	1.7	2.8	3.8	1.6	0.3
<b>Revisions</b>												
	ZZ52	ZZ53	ZZ55	ZZ54	ZZ56	ZZ57	ZZ58	ZZ59	ZZ5A	ZZ5B	ZZ5C	ZZ5D
2016	0.1	0.1	-2.3	-0.2	1.6	1.5	-0.2	0.1	-0.1	-0.6	0.6	-0.5
2017	2.7	-0.1	2.3	-0.3	-0.2	-1.4	-0.7	-0.4	0.2	-1.3	-1.2	0.6
2018	-1.7	-0.7	0.5	-0.5	-1.3	-0.4	-0.7	0.4	-	-0.6	0.5	0.8
<b>Percentage change, latest quarter on previous quarter</b>												
<b>Current estimates<sup>3</sup></b>												
	L3BB	L3BG	L3BH	L3BN	L3DM	L3DQ	L3DW	L3E2	L3GP	KI8L	KI8N	KI8P
2017 Q1	4.7	0.7	3.0	0.9	-4.1	3.0	4.2	0.2	0.2	0.2	-0.3	0.9
Q2	0.1	-0.4	1.0	-0.1	0.9	-4.0	0.3	0.4	0.5	1.6	-0.2	0.5
Q3	0.6	0.9	1.3	0.9	0.3	1.0	0.1	0.3	0.4	0.6	0.5	-0.2
Q4	-1.0	1.1	-2.6	1.5	-0.2	0.6	0.7	0.4	0.2	1.0	0.5	-0.2
2018 Q1	-3.0	-0.5	0.8	-0.7	1.2	-2.3	-2.2	0.5	0.2	-0.8	1.0	0.7
Q2	-0.9	-0.7	5.0	-0.6	-5.1	0.3	0.7	0.8	1.9	1.6	0.5	0.3
Q3	-0.3	0.5	3.4	0.1	1.2	1.6	1.2	0.6	1.1	1.8	0.2	0.4
Q4	0.8	-0.7	-1.7	-0.6	-0.2	-1.7	0.2	0.5	0.7	1.3	0.3	0.3
2019 Q1	-1.4	1.1	-0.9	2.0	-2.8	-0.6	1.6	0.4	0.9	1.5	-0.3	0.6
Q2	-0.4	-1.8	-1.1	-2.8	2.8	1.2	-1.2	0.1	-	0.6	-	0.2
<b>Previous estimates<sup>2</sup></b>												
	A2CX	A2CY	A2DO	A2DL	A2DR	A2DS	A2DT	A2DU	A2DV	A2DW	A2DX	A2DY
2017 Q1	2.1	0.3	2.6	0.5	-3.9	3.1	3.2	0.5	-0.2	0.4	0.8	0.5
Q2	0.6	0.3	1.5	0.1	0.9	-0.8	0.2	0.4	0.3	1.2	0.2	0.3
Q3	0.6	1.0	0.1	1.1	2.2	-0.5	0.7	0.4	0.5	0.7	0.6	-0.1
Q4	-0.1	0.6	-4.5	1.5	-0.8	-	0.3	0.3	0.2	1.3	0.4	-0.3
2018 Q1	-2.1	0.1	4.6	-0.3	1.1	-1.9	-1.5	0.3	0.3	0.2	0.5	0.1
Q2	-0.9	-0.6	2.5	-0.5	-3.7	0.6	0.5	0.6	1.7	1.2	0.2	0.1
Q3	-0.1	0.6	2.2	0.2	1.6	1.6	1.8	0.6	1.0	1.8	0.3	0.3
Q4	0.6	-0.8	-0.8	-0.7	-1.5	-0.9	-0.5	0.5	0.3	0.8	0.4	0.6
2019 Q1	-1.4	1.1	0.9	1.9	-2.8	-0.8	1.4	0.4	1.2	1.0	-0.1	0.2
Q2	-0.4	-1.4	-0.4	-2.3	2.5	1.0	-1.3	0.1	-	1.0	-	-0.2
<b>Revisions</b>												
	ZZ4A	ZZ4B	ZZ4D	ZZ4C	ZZ4E	ZZ4F	ZZ4G	ZZ4H	ZZ4I	ZZ4J	ZZ4K	ZZ4L
2017 Q1	2.6	0.4	0.4	0.4	-0.2	-0.1	1.0	-0.3	0.4	-0.2	-1.1	0.4
Q2	-0.5	-0.7	-0.5	-0.2	-	-3.2	0.1	-	0.2	0.4	-0.4	0.2
Q3	-	-0.1	1.2	-0.2	-1.9	1.5	-0.6	-0.1	-0.1	-0.1	-0.1	-0.1
Q4	-0.9	0.5	1.9	-	0.6	0.6	0.4	0.1	-	-0.3	0.1	0.1
2018 Q1	-0.9	-0.6	-3.8	-0.4	0.1	-0.4	-0.7	0.2	-0.1	-1.0	0.5	0.6
Q2	-	-0.1	2.5	-0.1	-1.4	-0.3	0.2	0.2	0.2	0.4	0.3	0.2
Q3	-0.2	-0.1	1.2	-0.1	-0.4	-	-0.6	-	0.1	-	-0.1	0.1
Q4	0.2	0.1	-0.9	0.1	1.3	-0.8	0.7	-	0.4	0.5	-0.1	-0.3
2019 Q1	-	-	-1.8	0.1	-	0.2	0.2	-	-0.3	0.5	-0.2	0.4
Q2	-	-0.4	-0.7	-0.5	0.3	0.2	0.1	-	-	-0.4	-	0.4

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

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

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

continued

Seasonally adjusted data

Reference year 2016

	Agri- culture, forestry, and fishing	Total Production	Mining & quarrying & gas extract	Manu- facturing	Electric, gas, steam & air	Water supply, sewerage	Constr- uction	Total Services	Distri- bution, hotels & restaurants	Transport, storage and commu- nications	Business services and finance	Govern- ment & other services
<b>Percentage growths, latest quarter on corresponding quarter of previous year</b>												
<b>Current estimates<sup>3</sup></b>												
	L3ZZ	L426	L427	L42D	L44C	L44G	L44M	L44Q	L47F	KII2	KIH9	KIH8
2017 Q1	4.9	2.5	1.70	2.4	0.3	6.2	8.0	1.8	2.9	3.1	1.7	0.8
Q2	6.6	0.2	2.80	0.6	-3.7	0.2	6.5	2.1	2.8	4.6	1.3	1.6
Q3	7.1	2.0	-0.40	2.6	-0.4	1.2	5.9	1.5	2.9	3.2	0.6	1.4
Q4	4.4	2.3	2.70	3.3	-3.1	0.5	5.4	1.2	1.3	3.5	0.6	1.0
2018 Q1	-3.3	1.1	0.50	1.7	2.3	-4.7	-1.1	1.5	1.3	2.5	1.8	0.8
Q2	-4.3	0.7	4.50	1.2	-3.8	-0.4	-0.6	2.0	2.7	2.5	2.5	0.6
Q3	-5.1	0.3	6.70	0.4	-3.0	0.2	0.4	2.4	3.4	3.8	2.2	1.2
Q4	-3.5	-1.5	7.60	-1.7	-3.0	-2.1	-0.2	2.6	4.0	4.1	2.0	1.7
2019 Q1	-1.9	0.2	5.80	0.9	-6.9	-0.4	3.7	2.4	4.7	6.5	0.8	1.6
Q2	-1.4	-0.9	-0.30	-1.3	0.9	0.5	1.8	1.7	2.7	5.4	0.3	1.4
<b>Previous estimates<sup>2</sup></b>												
	A2DZ	A2E2	A2E4	A2E3	A2E5	A2EE	A2EK	A2EL	A2EM	A2EN	A2EO	A2EP
2017 Q1	1.5	2.3	1.6	2.5	-1.2	6.7	9.2	2.2	3.0	5.4	2.3	0.2
Q2	3.2	0.7	0.9	1.4	-4.6	2.9	7.6	2.5	2.7	6.4	2.2	0.8
Q3	4.0	2.2	-4.0	3.0	1.4	2.3	7.1	2.1	2.4	4.2	2.1	0.8
Q4	3.2	2.2	-0.5	3.2	-1.7	1.7	4.5	1.6	0.8	3.7	2.0	0.4
2018 Q1	-1.0	2.0	1.4	2.3	3.5	-3.2	-0.3	1.4	1.4	3.4	1.7	-
Q2	-2.5	1.1	2.5	1.7	-1.3	-1.8	-	1.6	2.9	3.4	1.7	-0.1
Q3	-3.2	0.8	4.6	0.9	-1.9	0.2	1.2	1.9	3.4	4.5	1.4	0.3
Q4	-2.5	-0.7	8.7	-1.3	-2.5	-0.7	0.3	2.0	3.5	3.9	1.4	1.1
2019 Q1	-1.8	0.3	4.9	0.9	-6.3	0.5	3.2	2.1	4.4	4.8	0.8	1.2
Q2	-1.3	-0.5	1.9	-0.9	-0.3	0.9	1.4	1.6	2.6	4.6	0.7	0.9
<b>Revisions</b>												
	ZZ4N	ZZ4O	ZZ4Q	ZZ4P	ZZ4R	ZZ4S	ZZ4T	ZZ4U	ZZ4V	ZZ4W	ZZ4X	ZZ4Y
2017 Q1	3.4	0.2	0.1	-0.1	1.5	-0.5	-1.2	-0.4	-0.1	-2.3	-0.6	0.6
Q2	3.4	-0.5	1.9	-0.8	0.9	-2.7	-1.1	-0.4	0.1	-1.8	-0.9	0.8
Q3	3.1	-0.2	3.6	-0.4	-1.8	-1.1	-1.2	-0.6	0.5	-1.0	-1.5	0.6
Q4	1.2	0.1	3.2	0.1	-1.4	-1.2	0.9	-0.4	0.5	-0.2	-1.4	0.6
2018 Q1	-2.3	-0.9	-0.9	-0.6	-1.2	-1.5	-0.8	0.1	-0.1	-0.9	0.1	0.8
Q2	-1.8	-0.4	2.0	-0.5	-2.5	1.4	-0.6	0.4	-0.2	-0.9	0.8	0.7
Q3	-1.9	-0.5	2.1	-0.5	-1.1	-	-0.8	0.5	-	-0.7	0.8	0.9
Q4	-1.0	-0.8	-1.1	-0.4	-0.5	-1.4	-0.5	0.6	0.5	0.2	0.6	0.6
2019 Q1	-0.1	-0.1	0.9	-	-0.6	-0.9	0.5	0.3	0.3	1.7	-	0.4
Q2	-0.1	-0.4	-2.2	-0.4	1.2	-0.4	0.4	0.1	0.1	0.8	-0.4	0.5

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

2 Previous estimate refers to estimates from the GDP first quarterly estimate

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

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

Seasonally adjusted data

Reference year 2016

	Final consumption expenditure							
	Households	Non-profit institutions <sup>3</sup>	General government	Gross Capital Formation	Gross Fixed Capital Formation	Business investment	Total exports	less Total imports
<b>Percentage change, latest year on previous year</b>								
<b>Current estimates<sup>4</sup></b>								
	KGZ5	KH26	KH2I	ZZ6H	KG7N	KG7M	KH2U	KH3N
2016	3.8	-1.5	1.0	-0.6	3.6	4.3	2.7	4.4
2017	2.3	-0.2	0.3	-1.7	1.6	2.9	6.1	3.5
2018	1.6	0.7	0.6	1.4	-0.1	-1.6	-0.9	0.7
<b>Previous estimates<sup>2</sup></b>								
	A275	A276	A289	A28J	A28L	A29D	A29F	A2CK
2016	3.2	0.8	0.8	1.6	2.3	-0.2	1.0	3.3
2017	2.2	-0.3	-0.2	0.3	3.5	1.5	5.6	3.5
2018	1.8	-1.3	0.4	2.7	0.2	-0.4	0.1	0.7
<b>Revisions</b>								
	ZZ83	ZZ84	ZZ85	ZZ86	ZZ87	ZZ88	ZZ89	ZZ8A
2016	0.6	-2.3	0.2	-2.2	1.3	4.5	1.7	1.1
2017	0.1	0.1	0.5	-2.0	-1.9	1.4	0.5	-
2018	-0.2	2.0	0.2	-1.3	-0.3	-1.2	-1.0	-
<b>Percentage change, latest quarter on previous quarter</b>								
<b>Current estimates<sup>4</sup></b>								
	KGZ6	KH27	KH2J	ZZ5H	KG7Q	KG7P	KH2V	KH3O
2017 Q1	0.5	0.7	-0.1	2.1	-	2.3	0.4	-0.7
Q2	0.3	0.5	-	0.3	1.4	1.2	2.4	2.3
Q3	0.4	-0.3	0.3	-0.5	-0.4	0.2	1.0	0.6
Q4	0.3	0.7	0.2	1.3	1.1	0.2	-1.5	-1.0
2018 Q1	0.5	0.7	-0.2	-2.7	-0.9	-1.0	-0.7	-0.9
Q2	0.5	-0.8	-	5.6	-0.4	-0.6	-2.6	0.4
Q3	0.3	0.3	0.4	-2.9	0.5	-0.8	3.4	0.9
Q4	0.2	0.1	1.6	2.6	-0.1	-1.0	0.5	2.8
2019 Q1	0.3	-0.1	0.8	17.4	0.9	0.8	1.6	10.3
Q2	0.4	-1.1	1.1	-15.6	-0.9	-0.4	-6.6	-13.0
<b>Previous estimates<sup>2</sup></b>								
	A24M	A24X	A24Y	A25I	A25J	A25M	A264	A268
2017 Q1	0.7	-0.4	-0.6	1.4	1.0	-0.2	0.2	0.9
Q2	0.4	-0.1	0.5	-0.7	1.9	1.3	1.2	0.9
Q3	0.5	-0.6	0.1	-0.6	0.3	0.9	1.9	0.6
Q4	0.3	-0.1	-	0.3	0.7	0.4	0.1	-0.6
2018 Q1	0.5	-0.2	0.2	-0.7	-0.8	-0.6	-1.3	-0.6
Q2	0.5	-0.6	-0.4	3.3	-0.6	-0.4	-1.0	0.4
Q3	0.4	-0.5	-0.1	2.5	0.9	-0.6	0.9	0.7
Q4	0.3	-0.2	1.3	-0.4	-0.6	-0.9	1.6	2.1
2019 Q1	0.6	-0.7	0.8	16.3	1.2	0.4	1.5	10.8
Q2	0.5	-0.6	0.7	-19.9	-1.0	-0.5	-3.3	-12.9
<b>Revisions</b>								
	ZZ7L	ZZ7M	ZZ7N	ZZ7O	ZZ7P	ZZ7Q	ZZ7R	ZZ7S
2017 Q1	-0.2	1.1	0.5	0.7	-1.0	2.5	0.2	-1.6
Q2	-0.1	0.6	-0.5	1.0	-0.5	-0.1	1.2	1.4
Q3	-0.1	0.3	0.2	0.1	-0.7	-0.7	-0.9	-
Q4	-	0.8	0.2	1.0	0.4	-0.2	-1.6	-0.4
2018 Q1	-	0.9	-0.4	-2.0	-0.1	-0.4	0.6	-0.3
Q2	-	-0.2	0.4	2.3	0.2	-0.2	-1.6	-
Q3	-0.1	0.8	0.5	-5.4	-0.4	-0.2	2.5	0.2
Q4	-0.1	0.3	0.3	3.0	0.5	-0.1	-1.1	0.7
2019 Q1	-0.3	0.6	-	1.1	-0.3	0.4	0.1	-0.5
Q2	-0.1	-0.5	0.4	4.3	0.1	0.1	-3.3	-0.1

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

2 Previous estimate refers to estimates from the GDP first quarterly estimate

3 Non-profit institutions serving households

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

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

continued Seasonally adjusted data

Reference year 2016

	Final consumption expenditure							
	Households	Non-profit institutions <sup>3</sup>	General government <sup>5</sup>	Gross capital formation	Gross fixed capital formation	Business investment	Total exports	less Total imports
<b>Percentage change, latest quarter on corresponding quarter of the previous year</b>								
<b>Current estimates<sup>4</sup></b>								
	KGZ7	KH28	KH2K	ZZ5Y	KG7T	KG7S	KH2W	KH3P
2017 Q1	3.7	-2.5	0.1	-2.2	1.7	3.0	5.6	4.0
Q2	2.5	-0.2	0.2	0.9	2.2	3.1	6.4	5.6
Q3	1.6	0.5	0.4	-7.9	0.5	1.7	10.3	3.2
Q4	1.5	1.6	0.4	3.2	2.2	3.9	2.4	1.3
2018 Q1	1.5	1.6	0.3	-1.7	1.2	0.6	1.2	1.0
Q2	1.8	0.3	0.2	3.6	-0.6	-1.2	-3.7	-0.8
Q3	1.6	0.8	0.3	1.1	0.2	-2.3	-1.4	-0.5
Q4	1.5	0.2	1.8	2.4	-1.0	-3.4	0.5	3.2
2019 Q1	1.3	-0.6	2.8	23.6	0.8	-1.6	2.8	14.9
Q2	1.1	-0.9	4.0	-1.3	0.3	-1.4	-1.4	-0.4
<b>Previous estimates<sup>2</sup></b>								
	A26C	A26H	A26I	A26J	A26K	A26L	A26M	A26N
2017 Q1	2.8	0.7	-0.7	2.2	3.5	1.2	4.4	4.8
Q2	2.3	-0.1	-0.1	4.1	3.8	1.6	4.7	5.1
Q3	1.6	-0.6	-	-5.1	2.6	0.9	10.2	2.5
Q4	2.0	-1.2	-	0.5	3.9	2.4	3.5	1.8
2018 Q1	1.7	-1.0	0.8	-1.7	2.1	1.9	1.9	0.3
Q2	1.9	-1.5	-0.1	2.2	-0.4	0.2	-0.3	-0.2
Q3	1.8	-1.4	-0.3	5.4	0.2	-1.3	-1.3	-0.1
Q4	1.7	-1.4	1.0	4.7	-1.1	-2.5	0.2	2.6
2019 Q1	1.9	-2.0	1.6	22.6	0.9	-1.5	3.0	14.3
Q2	1.8	-2.0	2.7	-4.9	0.5	-1.6	0.5	-0.8
<b>Revisions</b>								
	ZZ7T	ZZ7U	ZZ7V	ZZ7W	ZZ7X	ZZ7Y	ZZ7Z	ZZ82
2017 Q1	0.9	-3.2	0.8	-4.4	-1.8	1.8	1.2	-0.8
Q2	0.2	-0.1	0.3	-3.2	-1.6	1.5	1.7	0.5
Q3	-	1.1	0.4	-2.8	-2.1	0.8	0.1	0.7
Q4	-0.5	2.8	0.4	2.7	-1.7	1.5	-1.1	-0.5
2018 Q1	-0.2	2.6	-0.5	-	-0.9	-1.3	-0.7	0.7
Q2	-0.1	1.8	0.3	1.4	-0.2	-1.4	-3.4	-0.6
Q3	-0.2	2.2	0.6	-4.3	-	-1.0	-0.1	-0.4
Q4	-0.2	1.6	0.8	-2.3	0.1	-0.9	0.3	0.6
2019 Q1	-0.6	1.4	1.2	1.0	-0.1	-0.1	-0.2	0.6
Q2	-0.7	1.1	1.3	3.6	-0.2	0.2	-1.9	0.4

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

2 Previous estimate refers to estimates from the GDP first quarterly estimate

3 Non-profit institutions serving households

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

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

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

Seasonally adjusted data

	Compen- sation of employees	Gross operating surplus of corporations	Other income	Taxes on products & production less subsidies
<b>Percentage change, latest year on previous year</b>				
<b>Current estimates<sup>3</sup></b>				
	KGI3	KH4V	KH6T	KH65
2016	4.1	3.8	4.5	4.0
2017	4.3	4.0	2.4	3.8
2018	4.3	0.9	5.2	2.7
<b>Previous estimates<sup>2</sup></b>				
	A2CT	A2CU	A2CV	A2CW
2016	3.8	4.5	3.4	4.0
2017	4.2	3.7	1.3	5.0
2018	4.2	0.1	4.4	2.8
<b>Revisions</b>				
	ZZ8J	ZZ8K	ZZ8L	ZZ8M
2016	0.3	-0.7	1.1	-
2017	0.1	0.3	1.1	-1.2
2018	0.1	0.8	0.8	-0.1
<b>Percentage change, latest quarter on previous quarter</b>				
<b>Current estimates<sup>3</sup></b>				
	KGI4	KH4W	KH6U	KH66
2017 Q1	0.8	3.8	0.2	-0.1
Q2	1.6	-3.2	0.3	2.2
Q3	1.1	-2.0	0.6	1.7
Q4	0.7	4.4	1.0	-0.3
2018 Q1	1.1	0.1	1.4	-1.6
Q2	0.9	-1.9	1.9	5.1
Q3	1.5	2.9	1.2	-1.5
Q4	1.4	-2.5	2.2	0.6
2019 Q1	0.3	3.6	1.9	-
Q2	1.5	-0.9	-0.4	2.0
<b>Previous estimates<sup>2</sup></b>				
	A2CL	A2CM	A2CN	A2CO
2017 Q1	0.8	2.2	0.7	-0.3
Q2	1.5	-3.9	0.3	2.9
Q3	0.7	1.5	0.2	2.3
Q4	1.0	2.1	0.6	-0.6
2018 Q1	1.0	0.1	1.6	-1.1
Q2	0.9	-2.5	1.5	4.1
Q3	1.6	1.2	1.4	-0.9
Q4	0.8	0.4	1.4	-0.3
2019 Q1	0.4	2.6	1.0	0.1
Q2	1.3	-3.2	0.8	2.6
<b>Revisions</b>				
	ZZ8B	ZZ8C	ZZ8D	ZZ8E
2017 Q1	-	1.6	-0.5	0.2
Q2	0.1	0.7	-	-0.7
Q3	0.4	-3.5	0.4	-0.6
Q4	-0.3	2.3	0.4	0.3
2018 Q1	0.1	-	-0.2	-0.5
Q2	-	0.6	0.4	1.0
Q3	-0.1	1.7	-0.2	-0.6
Q4	0.6	-2.9	0.8	0.9
2019 Q1	-0.1	1.0	0.9	-0.1
Q2	0.2	2.3	-1.2	-0.6

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

2 Previous estimate refers to estimates from the GDP first quarterly estimate

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

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

continued

Seasonally adjusted data

	Compen- sation of employees	Gross operating surplus of corporations	Other income	Taxes on products & production less subsidies
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>				
<b>Current estimates<sup>3</sup></b>				
	KGI5	KH4X	KH6V	KH67
2017 Q1	4.6	7.4	3.8	2.6
Q2	4.2	4.0	1.5	3.6
Q3	4.1	1.6	2.2	5.4
Q4	4.2	2.8	2.1	3.5
2018 Q1	4.5	-0.8	3.3	1.9
Q2	3.7	0.6	5.0	4.8
Q3	4.1	5.5	5.5	1.5
Q4	5.0	-1.4	6.7	2.4
2019 Q1	4.2	1.9	7.3	4.1
Q2	4.9	2.9	5.0	1.1
<b>Previous estimates<sup>2</sup></b>				
	A2CP	A2CQ	A2CR	A2CS
2017 Q1	5.7	3.3	1.9	3.4
Q2	4.2	3.9	0.6	5.1
Q3	2.9	5.9	1.0	7.3
Q4	4.1	1.7	1.8	4.3
2018 Q1	4.3	-0.4	2.7	3.5
Q2	3.7	1.1	3.9	4.7
Q3	4.6	0.8	5.1	1.5
Q4	4.4	-0.9	6.0	1.8
2019 Q1	3.8	1.7	5.4	3.0
Q2	4.1	0.9	4.7	1.5
<b>Revisions</b>				
	ZZ8F	ZZ8G	ZZ8H	ZZ8I
2017 Q1	-1.1	4.1	1.9	-0.8
Q2	-	0.1	0.9	-1.5
Q3	1.2	-4.3	1.2	-1.9
Q4	0.1	1.1	0.3	-0.8
2018 Q1	0.2	-0.4	0.6	-1.6
Q2	-	-0.5	1.1	0.1
Q3	-0.5	4.7	0.4	-
Q4	0.6	-0.5	0.7	0.6
2019 Q1	0.4	0.2	1.9	1.1
Q2	0.8	2.0	0.3	-0.4

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

2 Previous estimate refers to estimates from the GDP first quarterly estimate

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