

Statistical bulletin

# GDP first quarterly estimate, UK: October to December 2023

First quarterly estimate of gross domestic product (GDP). Contains current and constant price data on the value of goods and services to indicate the economic performance of the UK.



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# 1 . Main points

- UK gross domestic product (GDP) is estimated to have fallen by 0.3% in Quarter 4 (Oct to Dec) 2023, following an unrevised fall of 0.1% in the previous quarter.
- While the economy has now decreased for two consecutive quarters, across 2023, GDP is estimated to have increased by 0.1% compared with 2022.
- In output terms in Quarter 4 2023, there were falls in all three main sectors in the latest quarter with declines of 0.2% in services, 1.0% in production, and 1.3% in construction output.
- In expenditure terms, there was a fall in the volume of net trade, household spending and government consumption in Quarter 4 2023, partially offset by an increase in gross capital formation.
- This release includes revisions to periods Quarter 1 (Jan to Mar) to Quarter 3 (July to Sept) 2023, where growth in Quarter 1 2023 has been revised down by 0.1 percentage points, while total GDP in Quarter 2 (Apr to June) and Quarter 3 2023 are unrevised.
- Historically, the absolute average revision between the initial quarterly GDP estimate and the estimate three years later is 0.2 percentage points, when more detailed information is available through the comprehensive annual supply and use balancing process.

Head of National Accounts Craig McLaren explains the latest GDP findings in [our video](#).

## 2 . Headline GDP figures

UK real gross domestic product (GDP) is estimated to have fallen by 0.3% in Quarter 4 (Oct to Dec) 2023. This follows an unrevised estimated fall of 0.1% in the previous quarter. Across Quarter 3 (July to Sept) and Quarter 4 2023, we estimate that the UK economy contracted by a cumulative 0.5%. Compared with the same quarter a year ago, real GDP is estimated to have fallen by 0.2%.

As explained in our [Communicating the UK economic cycle methodology](#), the concept of a "technical" recession includes two or more consecutive quarters of contracting output. Most experts, as noted in our [recent blog](#), consider other factors in the broader picture while accounting for the latest data, such as the depth, diffusion (how widespread), and duration of the change in GDP.

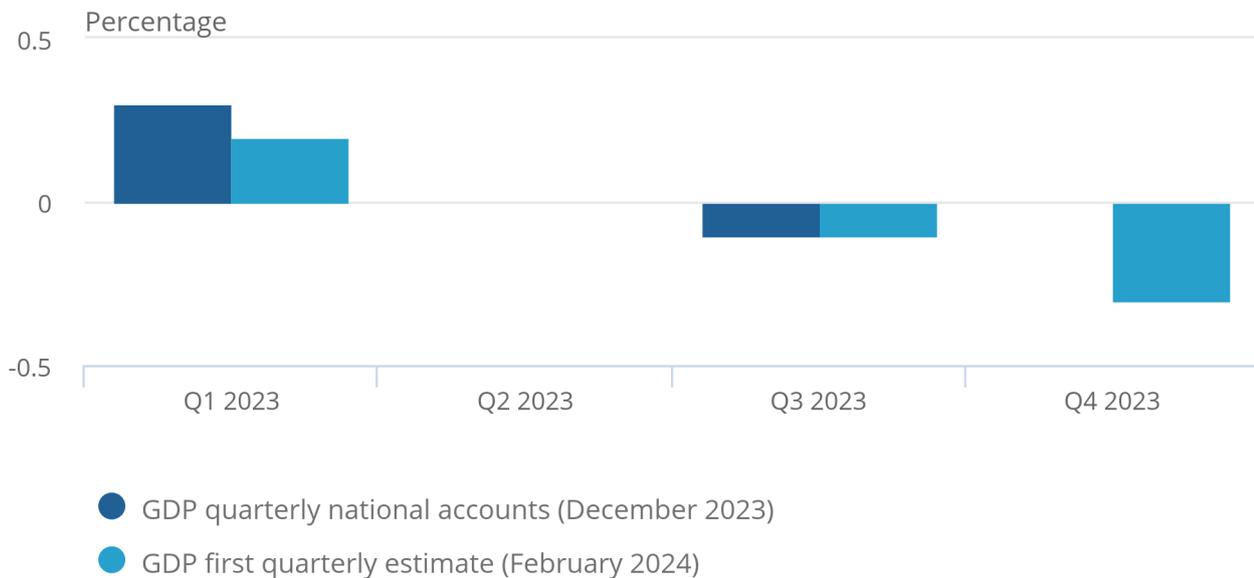
Also note that early estimates of GDP are subject to revision (positive or negative); for more information, please refer to our articles: [Why GDP figures are revised](#) and [GDP revisions in Blue book: 2023](#). The GDP growth vintages are shown in Table 4. In line with the [National Accounts Revision Policy](#), this dataset is open back to Quarter 1 (Jan to Mar) 2023. Figure 1 shows that growth in Quarter 1 2023 has been revised down by 0.1 percentage points, while total GDP in Quarter 2 (Apr to June) and Quarter 3 2023 are unrevised. There have been some revisions to individual components of GDP; for more information, see [Section 6: Revisions to GDP](#).

**Figure 1: Real GDP is estimated to have fallen by 0.3% in Quarter 4 (Oct to Dec) 2023, following an unrevised fall of 0.1% in Quarter 3 (July to Sept)**

UK, Quarter 1 (Jan to Mar) to Quarter 4 (Oct to Dec) 2023

Figure 1: Real GDP is estimated to have fallen by 0.3% in Quarter 4 (Oct to Dec) 2023, following an unrevised fall of 0.1% in Quarter 3 (July to Sept)

UK, Quarter 1 (Jan to Mar) to Quarter 4 (Oct to Dec) 2023



Source: GDP first quarterly estimate from the Office for National Statistics

Notes:

1. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept) and Q4 refers to Quarter 4 (Oct to Dec).
2. Chart shows the quarter on previous quarter growth (%).
3. This release sees revisions to Quarter 1 to Quarter 3 2023, while Quarter 4 (Oct to Dec) 2023 has been published for the first time.

UK GDP is estimated to have increased by 0.1% in 2023, following growth of 4.3% in 2022. This is the weakest annual change in real GDP since the financial crisis in 2009, excluding the year 2020, which was affected by the coronavirus (COVID-19) pandemic. Data up to 2021 have been reconciled through the supply and use tables (SUTs) framework to produce one coherent estimate of GDP, as explained in our [Impact of Blue Book 2023 changes on gross domestic product article](#).

Estimates of real GDP in 2022 and 2023 have not been fully reconciled in a SUTs framework, so this estimate of real GDP growth in 2023 reflects the average of the output, expenditure and income measures. There can be differences in the three approaches, reflecting data uncertainty at this stage. Statistical discrepancies published in our [GDP data tables](#) show how far apart the measures are at this stage in the production cycle (Figure 3). Further information on the three approaches to measuring GDP is discussed at the end of this section.

Nominal GDP is estimated to have fallen by 0.2% in Quarter 4 2023, attributed to a fall in gross operating surplus for corporations. Compared with the same quarter a year ago, nominal GDP is estimated to have increased by 5.0%.

Table 1: Headline National Accounts indicators for the UK  
% growth

	Chained volume measures		Current market prices	
	GDP per head [note 3]		GDP implied deflator	GDP
<b>Seasonally adjusted</b>				
<b>2023</b>	0.1	-0.7	7.2	7.3
<b>Q1 2023</b>	0.2	-0.1	1.7	2.0
<b>Q2 2023</b>	0.0	-0.2	2.4	2.4
<b>Q3 2023</b>	-0.1	-0.4	0.9	0.7
<b>Q4 2023</b>	-0.3	-0.6	0.2	-0.2

Source: GDP first quarterly estimate from the Office for National Statistics

#### Notes

1. Percentage change on previous period.
2. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept) and Q4 refers to Quarter 4 (Oct to Dec).
3. In line with National accounts revision policy, 2022 is consistent with 2020-based interim population projections as published on 27 January 2023; 2023 is now consistent with 2021-based interim population projection as published on 30 January 2024.

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. Note that the GDP deflator covers the whole of the domestic economy, not just consumer spending, and also reflects the change in the relative price of exports to imports. For more information on the implied GDP deflator, see our [Measuring price changes of the UK national accounts: February 2023 article](#).

The implied price of GDP rose by 0.2% in Quarter 4 2023, where the quarterly increase is primarily driven by higher prices in exports, government consumption and household consumption. These were partially offset by a fall in the implied price for gross capital formation, as well as an increase in the implied price of imports, which contributes negatively to the GDP implied deflator.

Compared with the same quarter a year ago, there was a continued easing in the GDP implied deflator, which increased by 5.2% (Figure 2).

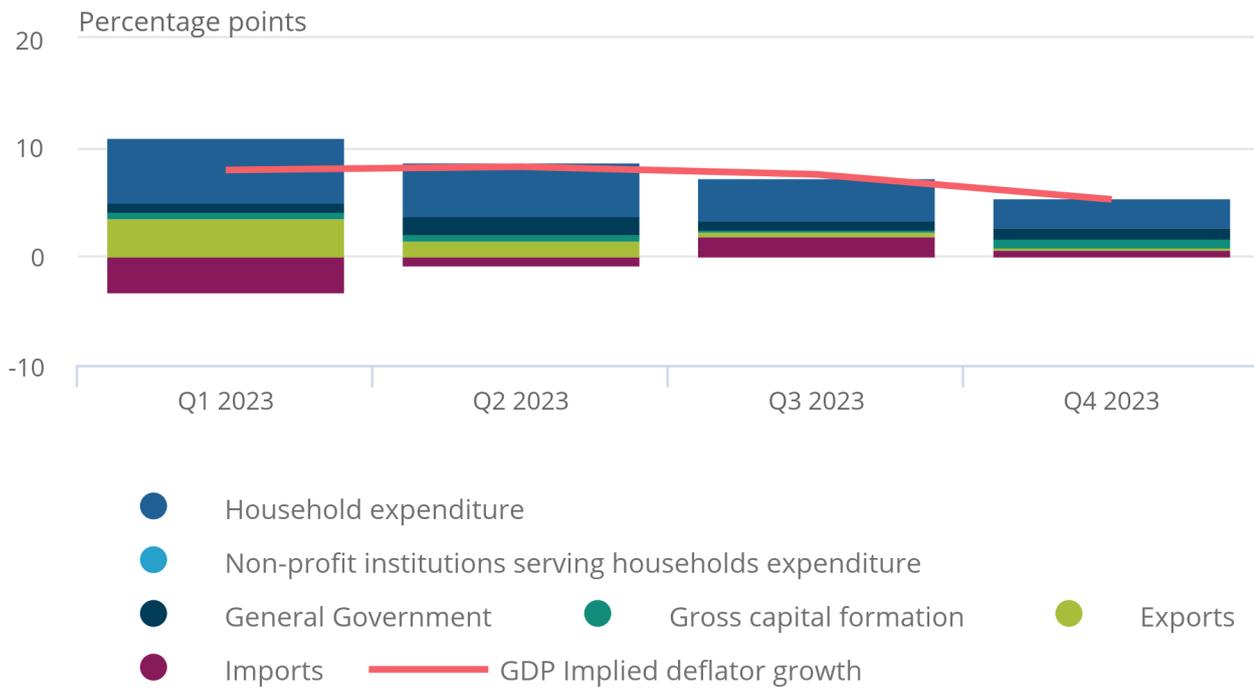
There have been revisions to the implied deflator from Quarter 1 2023, particularly in Quarter 3 2023, where the implied deflator is estimated to have increased by 0.9%, revised down from the previous estimate of 1.5%. This revision is because of downward revisions in gross capital formation and net trade.

**Figure 2: The implied price of GDP increased by 5.2% in Quarter 4 (Oct to Dec) 2023 compared with the same quarter a year ago**

UK, contributions to quarter on quarter a year ago growth in the implied price deflator, Quarter 1 (Jan to Mar) to Quarter 4 (Oct to Dec) 2023

Figure 2: The implied price of GDP increased by 5.2% in Quarter 4 (Oct to Dec) 2023 compared with the same quarter a year ago

UK, contributions to quarter on quarter a year ago growth in the implied price deflator, Quarter 1 (Jan to Mar) to Quarter 4 (Oct to Dec) 2023



Source: GDP first quarterly estimate from the Office for National Statistics

Notes:

1. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept) and Q4 refers to Quarter 4 (Oct to Dec).
2. Components contribution do not sum to total because of rounding.
3. An increase in import prices contributes negatively to the implied GDP deflator, while a decrease in import price contributes positively to the implied GDP deflator.

## The three approaches to measuring GDP

The three approaches to measuring GDP allow us to confront our data sources within the National Accounts framework. Real GDP is estimated to have increased by 0.1% in 2023 (Figure 3). However, there are differences in the three approaches at this stage in the production cycle. The differences in these approaches across 2022 and 2023 may be for various reasons.

In the output approach, we do not currently have final estimates for intermediate consumption (value of goods and services purchased to be used up in the production of goods and services). Initially, we use turnover and output as a proxy for changes in gross value added (GVA). We assume that the intermediate consumption ratio by industry, calculated in 2021, holds constant into 2022 onwards, such as assuming input costs as a proportion of turnover or output remain fixed. See Section 7 of our [Impact of Blue Book 2023 changes to gross domestic product article](#) for more information.

In the expenditure approach, we currently have lower response rates for areas such as the Living Costs and Foods Survey, which underpin our estimates of household consumption. As explained in our [GDP quarterly national accounts, UK: July to September 2023 bulletin](#), the 2022 annual benchmark data for the International Trade in Services Survey (ITIS) is not yet available. This is because we are improving sample methodology and require additional time to quality assure the data. However, the quarterly ITIS data for 2022 and 2023 were included in this dataset.

In the income approach, we currently do not have up to date quarterly information on the gross trading profits of businesses, as these data are collected from HM Revenue and Customs (HMRC) and are available with a lag of approximately two years. We rely on contextual data from other sources to inform these quarterly estimates, described in our [Profitability of UK companies Quality and Methodology Information \(QMI\)](#). There is currently more uncertainty around the compensation of employees figures in this publication because of lower response rates in our [Labour Force Survey](#). We have used additional information from our [Pay As You Earn Real Time Information bulletin](#) to help inform the estimates.

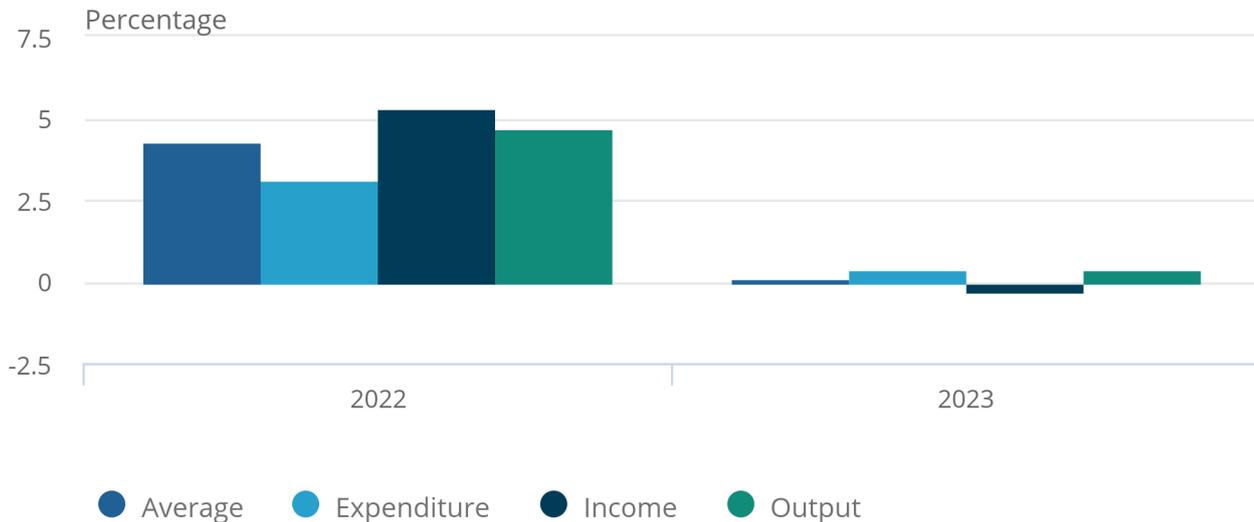
Estimates for 2023 will be open for revision as part of our March 2024 quarterly [National Accounts](#) publication, where we will have increased data content. In June 2024, 2022 data will be confronted through the SUTs framework for the first time and, as a result, there will be one single estimate of GDP.

**Figure 3: Real GDP is estimated to have increased by an average 0.1% in 2023 when looking across the three approaches to measuring GDP**

UK, three approaches to measuring GDP and average GDP growth, 2022 and 2023

Figure 3: Real GDP is estimated to have increased by an average 0.1% in 2023 when looking across the three approaches to measuring GDP

UK, three approaches to measuring GDP and average GDP growth, 2022 and 2023



Source: GDP first quarterly estimate from the Office for National Statistics

Notes:

1. Chart shows the annual on previous annual growth (%).

### 3 . Output

In Quarter 4 (Oct to Dec) 2023, output is estimated to have fallen by 0.3%, following an unrevised fall of 0.1% in Quarter 3 (July to Sept) 2023. In Quarter 4 2023 services, production, and construction contributed negatively to growth. Across Quarter 4, 12 out of 20 of the sub-sectors experienced a contraction, up from 10 sub-sectors in the previous quarter.

The services sector is estimated to have fallen by 0.2% in the fourth quarter of 2023, following a fall of 0.2% in Quarter 3 2023. The production sector is estimated to have fallen by 1.0%, following growth of 0.1% in the previous quarter. Construction output fell 1.3% in Quarter 4 2023, following growth of 0.1% in Quarter 3 2023.

Across 2023 as a whole, both services and construction grew by 0.3% and 2.0%, respectively, while there was a 0.3% fall in production output.

## Services

We now estimate that services output decreased for three consecutive quarters, with a fall of 0.2% in the latest quarter. Figure 4 shows that there were falls in 8 out of 14 sub-sectors in Quarter 4 2023.

The largest contributor to the fall in total services was a 0.6% fall in the wholesale and retail trade; repair of motor vehicles and motorcycles sub-sector. This was largely because of a 1.3% fall in wholesale trade, except of motor vehicles and motorcycles and a 0.9% fall in retail trade, except of motor vehicles and motorcycles. Our recent [Retail sales: December 2023 bulletin](#) shows that December 2023 was the largest monthly decrease in retail sales since January 2021, when coronavirus (COVID-19) restrictions were in place.

Education also contributed negatively to the fall in services in Quarter 4 2023, with a decline of 0.8% partially attributed to a drop in school attendance. We also estimate that other service activities decreased by 2.4%. This is the third consecutive quarterly fall and the largest quarterly decline in this sub-sector since Quarter 1 (Jan to Mar) 2021. The fall in Quarter 4 2023 was mainly driven by a 3.4% fall in other personal services, where we have seen particular weakness in hairdressing and other beauty treatment over the Christmas period compared with usual.

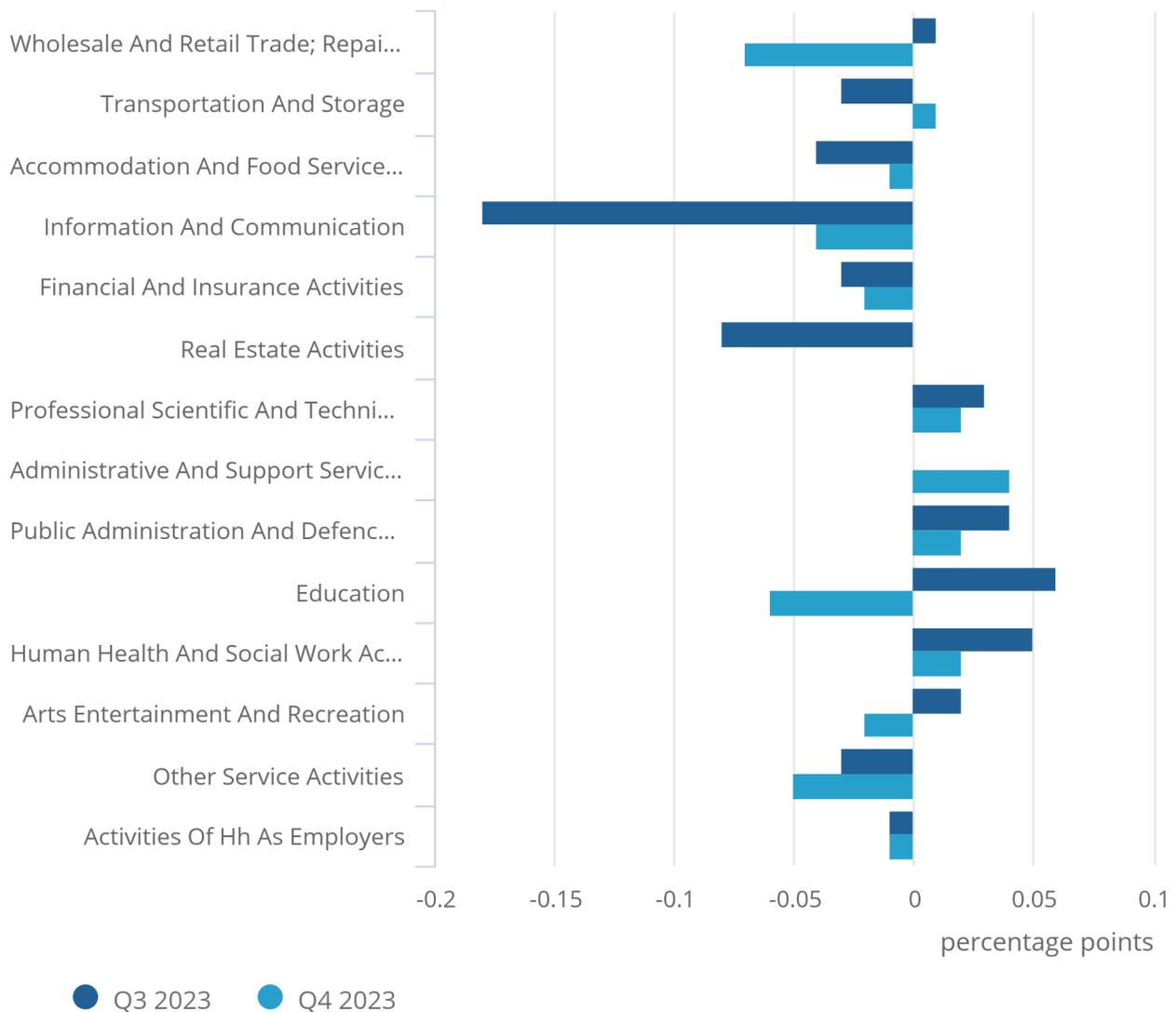
The largest positive contribution to services growth was from administrative and support service activities, which increased by 0.6%, driven by growth of 6.9% in rental and leasing activities.

**Figure 4: There were falls in 8 out of 14 services sub-sectors in Quarter 4 (Oct to Dec) 2023**

UK, contributions to services growth, Quarter 3 (July to Sept) and Quarter 4 (Oct to Dec) 2023

Figure 4: There were falls in 8 out of 14 services sub-sectors in Quarter 4 (Oct to Dec) 2023

UK, contributions to services growth, Quarter 3 (July to Sept) and Quarter 4 (Oct to Dec) 2023



Source: GDP first quarterly estimate from the Office for National Statistics

Notes:

1. Components contribution may not sum to total because of rounding.

Overall, consumer-facing services fell by 0.7% in Quarter 4 2023 and this was largely driven by falls in food and beverage service activities and retail trade, except of motor vehicles and motorcycles. This offset an increase in accommodation services, particularly hotels, which performed strongly in Quarter 4 2023. This follows an unrevised fall of 1.0% in consumer-facing services in Quarter 3 2023, which was the largest decline in consumer-facing services since Quarter 1 (Jan to Mar) 2021.

Annual service sector growth for 2023 is estimated at 0.3% with 7 of the 14 service subsectors showing growth across the year. The largest positive contributor was administrative and support service activities, which increased by 5.8% in 2023. However, this was partially offset by a 1.8% fall in wholesale and retail trade; repair of motor vehicles and motorcycles.

Across 2023, the services sector sees revisions for the following reasons, with only Quarter 1 2023 seeing growth revised from our previous publication, including:

- updated input data for the deflator used for telecommunications
- updated seasonal adjustment which now uses a complete year of data for 2023

## Production

The production sector is estimated to have decreased by 1.0% in the latest quarter after growth of 0.1% in Quarter 3 2023 (unrevised from our previous publication). This reflects a 1.4% fall in October, despite growth in November (0.5%) and December (0.6%). Further information is provided in our [GDP monthly estimate bulletins](#).

Within production, manufacturing was the largest contributor to the 1.0% fall, with 10 out of the 13 manufacturing sub-sectors performing negatively over this period.

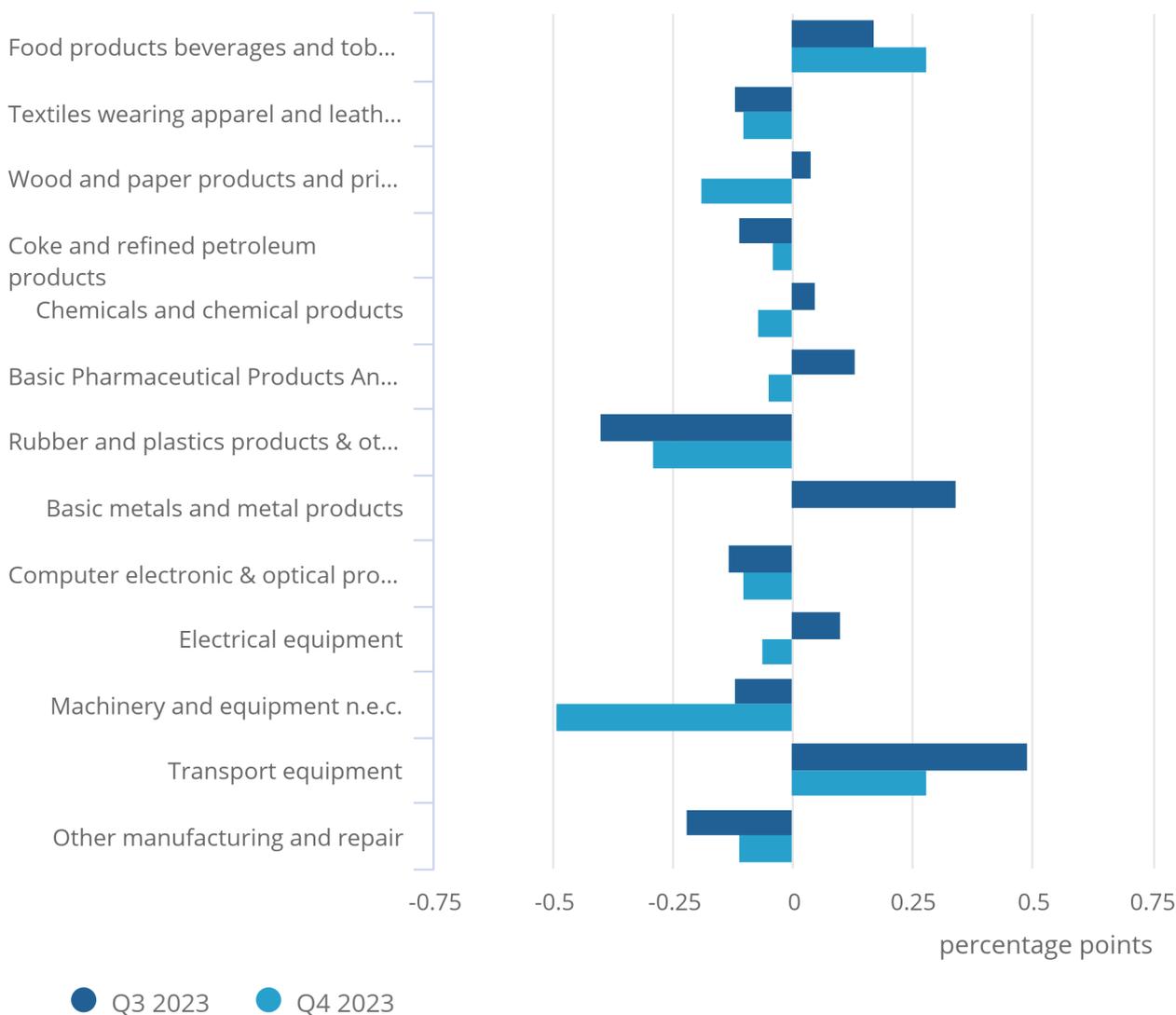
Manufacturing output is estimated to have fallen by 0.9% in Quarter 4 2023 after four consecutive quarters of growth. The largest negative contributors are a 7.0% decline in the manufacture of machinery and equipment n.e.c and a 4.7% fall in the manufacture of rubber and plastics products, and other non-metallic mineral products. However, there were some positive movements in manufacturing, as shown in Figure 5. In particular, the manufacture of transport equipment grew by 1.8%. Anecdotal evidence from the [Society of Motor Manufacturers and Traders \(SMMT\)](#) reported that car manufacturing for December 2023 was up 20.7% compared with the same month last year.

**Figure 5: There were falls in 10 out of 13 manufacturing sub-sectors in Quarter 4 (Oct to Dec) 2023**

UK, contributions to manufacturing growth, Quarter 3 (July to Sept) and Quarter 4 (Oct to Dec) 2023

**Figure 5: There were falls in 10 out of 13 manufacturing sub-sectors in Quarter 4 (Oct to Dec) 2023**

UK, contributions to manufacturing growth, Quarter 3 (July to Sept) and Quarter 4 (Oct to Dec) 2023



Source: GDP first quarterly estimate from the Office for National Statistics

Notes:

- 1. Components contribution may not sum to total because of rounding.

Elsewhere in the production sector, there was a 3.0% fall in mining and quarrying, which fell for the sixth consecutive quarter and a 2.6% fall in electricity, gas, steam and air conditioning supply. However, water supply; sewerage, waste management and remediation activities increased 0.5% on the quarter.

Annual production output is estimated to have fallen 0.3% in the year 2023. This was caused mostly by a 14.3% fall in mining and quarrying as well as falls in water supply; sewerage, waste management and remediation activities; and electricity, gas, steam and air conditioning supply, despite manufacturing showing 1.2% growth in 2023.

Across 2023, the production sector sees revisions to growth, mainly driven by manufacturing. Overall, the revisions to production reflect:

- late and updated monthly business survey data, particularly for the manufacturing sub-sector
- updated seasonal adjustment, accounting for a full year's worth of data for 2023

## **Construction**

Construction output is shown to have fallen by 1.3% in Quarter 4 2023 following growth of 0.1% (previously estimated to be 0.4%).

The fall reflects a fall in new work of 5.0%, though there was growth of 4.0% in repair and maintenance. Within new work, private housing sees its fifth consecutive quarterly decline, falling 8.0% in the latest quarter.

Revisions to construction from Quarter 1 2023 are attributed to new survey data and improvements to repair and maintenance deflators.

In the year 2023, construction is estimated to have grown 2.0%. Further detail on construction output can be found in our [Construction output in Great Britain releases](#).

## 4 . Expenditure

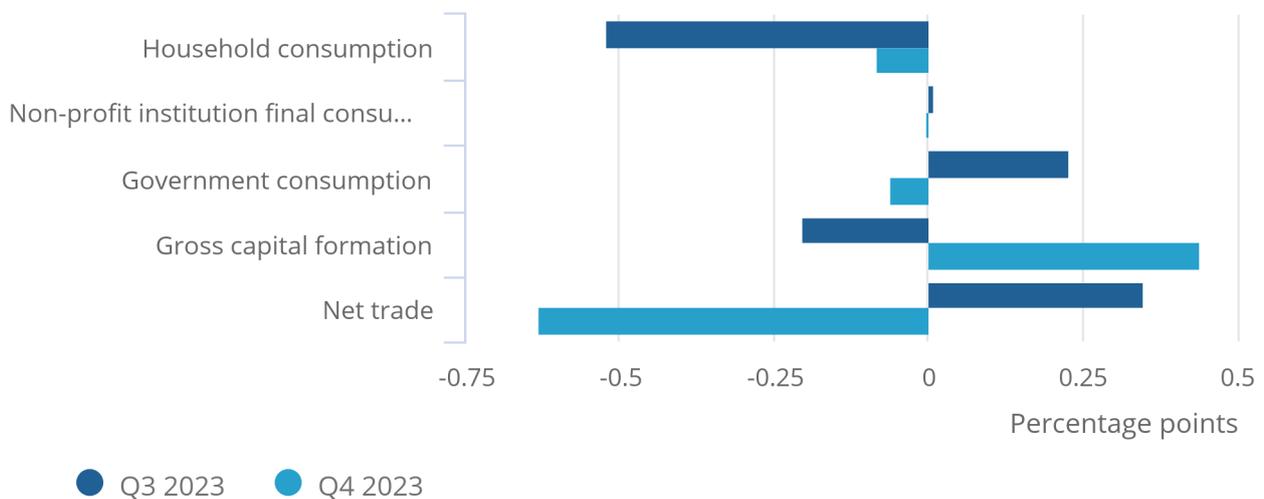
There was a fall in the volume of net trade, household spending and government consumption in Quarter 4 (Oct to Dec) 2023, partially offset by an increase in gross capital formation (Figure 6).

**Figure 6: There were falls in net trade, household spending and government expenditure in Quarter 4 (Oct to Dec) 2023**

UK, contributions by expenditure components, Quarter 3 (July to Sept) and Quarter 4 (Oct to Dec) 2023

### Figure 6: There were falls in net trade, household spending and government expenditure in Quarter 4 (Oct to Dec) 2023

UK, contributions by expenditure components, Quarter 3 (July to Sept) and Quarter 4 (Oct to Dec) 2023



Source: GDP first quarterly estimate from the Office for National Statistics

Notes:

1. Gross capital formation will include gross fixed capital formation, plus changes in inventories and acquisitions less disposable of assets, as well as the expenditure alignment adjustment.
2. Contributions may not sum to total because of rounding.

## Household consumption

There was a fall of 0.1% in real household expenditure in Quarter 4 2023, following a downwardly revised fall of 0.9% in Quarter 3 (July to Sept) 2023 (previously estimated as a 0.5% fall). In 2023, household consumption is estimated to have increased by 0.3%, following an increase of 4.8% in 2022.

Within household consumption, the largest contributions to the fall in the latest quarter were from lower spending on recreation and culture, miscellaneous goods and services, and transport. Net tourism contributed positively to growth in the latest quarter. Information on how we measure net tourism is provided in our [National Accounts articles: Treatment of tourism in the UK National Accounts article](#).

Revisions in household consumption reflect updated data on transport, housing, and water, gas and electricity spending. There are also revisions to net tourism because of updated International Passenger Survey data (see our [Definitions and conventions for UK household final consumption expenditure methodology](#)). While household consumption sees revisions because of net tourism, these are offset within trade and, therefore, there is no impact on the gross domestic product (GDP) aggregate.

## Consumption of government goods and services

Real government consumption expenditure fell by 0.3%, following a revised increase of 1.1% in Quarter 3 2023 (previously estimated to have increased 0.8%). In 2023, government consumption is estimated to have increased by 0.6%, following an increase of 2.3% in 2022.

The fall in government consumption in the latest quarter mainly reflects lower activity in education and health. The fall in health may reflect lower activity because of industrial action across the quarter. Further information is provided in our [GDP monthly estimate bulletins](#).

Revisions to government consumption reflect updated data on public administration and defence, and health.

## Gross capital formation

Gross fixed capital formation (GFCF) is estimated to have increased by 1.4% in the latest quarter, following a revised fall of 1.4% in the previous quarter (previously estimated as a 1.6% fall). Growth in the latest quarter was driven by increases in other buildings and structures. Within gross fixed capital formation, business investment is estimated to have increased by 1.5%, following a 2.8% fall in Quarter 3 2023.

Across 2023 as a whole, gross capital formation is estimated to have increased by 2.9% with a 6.1% increase in business investment. This reflects strong growth in Quarter 1 2023 as businesses brought forward investment in response to the super-deduction allowance expiring on 31 March 2023, as well as a large increase in transport investment (particularly aircraft imports from the United States) in Quarter 2 (Apr to June) 2023.

There have been revisions to the path of business investment in 2023, reflecting revised survey data and the latest seasonal adjustment.

Excluding the alignment and balancing adjustments, early estimates show that inventories increased by £1.8 billion in Quarter 4 2023. In current price terms, early estimates show that there was a fall of £3.6 billion in the latest quarter.

Table 2: Change in inventories, including and excluding balancing and alignment adjustments UK, Quarter 1 (Jan to Mar) to Quarter 4 (Oct to Dec) 2023

		<b>Change in Inventories</b>	<b>Of which alignment</b>	<b>Of which balancing</b>	<b>Change in Inventories excluding alignment and balancing</b>
<b>Q1 2023</b>	<b>Current price</b>	-601	-497		-104
<b>Q1 2023</b>	<b>Chained volume measure</b>	23	-431		454
<b>Q2 2023</b>	<b>Current price</b>	1,287	2,452		-1,165
<b>Q2 2023</b>	<b>Chained volume measure</b>	298	2,070		-1,772
<b>Q3 2023</b>	<b>Current price</b>	1,057	-3,588	-1,500	6,145
<b>Q3 2023</b>	<b>Chained volume measure</b>	-1,474	-3,004	1,200	330
<b>Q4 2023</b>	<b>Current price</b>	-304	1,633	1,700	-3,637
<b>Q4 2023</b>	<b>Chained volume measure</b>	1,300	1,365	-1,900	1,835

Source: GDP first quarterly estimate from the Office for National Statistics

#### Notes

1. Data are in £ millions.
2. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept) and Q4 refers to Quarter 4 (Oct to Dec).
3. Alignment adjustments typically have a target limit of plus or minus £3,000 million on any quarter. However, in periods where the data sources are particularly difficult to balance, larger alignment adjustments are sometimes needed.

## Net trade

The UK's trade deficit for goods and services was 1.6% of nominal gross domestic product (GDP) in Quarter 4 2023. However, this includes non-monetary gold, which is an erratic series so it can be useful to exclude this from the trade balance. Excluding non-monetary gold, the trade deficit was 2.2% of nominal GDP in Quarter 4 2023 (Figure 7).

### Figure 7: Excluding non-monetary gold, the trade deficit was 2.2% of nominal GDP in Quarter 4 (Oct to Dec) 2023

UK, trade balance as a percentage of nominal GDP, including and excluding non-monetary gold, Quarter 1 (Jan to Mar) 2021 to Quarter 4 (Oct to Dec) 2023

### Figure 7: Excluding non-monetary gold, the trade deficit was 2.2% of nominal GDP in Quarter 4 (Oct to Dec) 2023

UK, trade balance as a percentage of nominal GDP, including and excluding non-monetary gold, Quarter 1 (Jan to Mar) 2021 to Quarter 4 (Oct to Dec) 2023



Source: GDP first quarterly estimate from the Office for National Statistics

#### Notes:

1. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept) and Q4 refers to Quarter 4 (Oct to Dec).
2. [Non-monetary gold](#) (NMG) is an erratic series and so it can be useful to consider this excluded from the trade balance.

Export volumes fell by 2.9% in the latest quarter, following a fall of 0.8% in Quarter 3 2023. The fall was driven by a 6.0% decline in services exports, which offset a 0.8% increase in goods exports.

The decline in services exports was caused mainly by other business services (within this legal, accounting and management consulting, and advertising, market research and public opinion polling services) and travel.

The increase in goods exports was mainly driven by large movements in non-monetary gold. However, this series also appears within gross capital formation (GCF) as valuables, and so the effect is GDP neutral. Elsewhere there were falls in chemicals and miscellaneous manufactures.

Import volumes fell by 0.8% in the latest quarter, following a fall of 1.8% in Quarter 3 2023. The decline in the latest quarter was driven by a 0.7% fall in goods and 0.9% in services.

The fall in goods imports was driven by declines in miscellaneous manufacturers, particularly clothing and other consumer manufactures. The fall in services imports was mainly because of declines in other business services, particularly in advertising, market research and public opinion polling services.

## 5 . Income

Nominal gross domestic product (GDP) fell by 0.2% in Quarter 4 (Oct to Dec) 2023, following revised growth of 0.7% in Quarter 3 (July to Sept) (previously estimated as 1.4%). This is the weakest growth in nominal GDP since Quarter 2 (Apr to June) 2020.

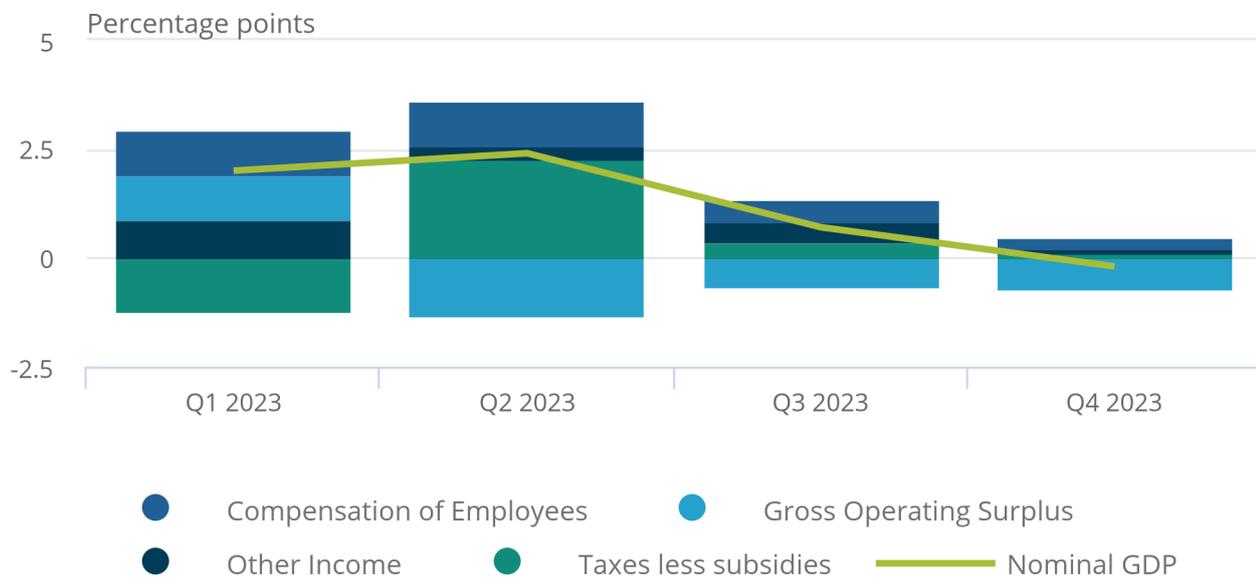
The quarterly fall was driven by a decline in gross operating surplus of corporations, which offset increases in compensation of employees, taxes less subsidies and other income (Figure 8).

**Figure 8: Nominal GDP fell by 0.2% in Quarter 4 (Oct to Dec) 2023**

UK, contributions to nominal GDP, Quarter 1 (Jan to Mar) to Quarter 4 (Oct to Dec) 2023

Figure 8: Nominal GDP fell by 0.2% in Quarter 4 (Oct to Dec) 2023

UK, contributions to nominal GDP, Quarter 1 (Jan to Mar) to Quarter 4 (Oct to Dec) 2023



Source: GDP first quarterly estimate from the Office for National Statistics

Notes:

1. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept) and Q4 refers to Quarter 4 (Oct to Dec).
2. Components contributions may not sum to total because of rounding.
3. Please note, the alignment adjustment is included in the Gross Operating Surplus of nominal GDP.

Compensation of employees increased by 0.5% in Quarter 4 2023, driven by an increase of 0.6% in wages and salaries and an increase of 0.2% in employers' social contributions. In 2023, compensation of employees is estimated to have increased by 7.1%, following growth of 7.5% in 2022, mainly because of increases in private sector wages and salaries. There have been revisions to estimates of compensation of employees across 2023 because of updated public sector data and new re-weighted labour force survey data, described in our [Impact of reweighting on Labour Force Survey key indicators article](#). Note that there is more uncertainty around the compensation of employees figures in this publication because of lower response rates in the [Labour Force Survey](#). We have used additional information from our [Pay As You Earn Real Time Information bulletin](#) to help inform the estimates.

Early estimates show that taxes less subsidies increased by 1.0% in Quarter 4 2023, following a revised increase of 3.9% in Quarter 3 2023 (previously estimated to be 5.9%). Growth in the latest quarter was driven by a 1.1% increase in taxes (mainly Value Added Tax (VAT)) and a 2.6% increase in subsidies. Overall, taxes less subsidies fell by 0.2% in 2023, reflecting a large increase in subsidies because of the Energy Price Guarantee scheme and the Energy Bill Relief Scheme as described in our [GDP quarterly national accounts bulletin](#).

Total gross operating surplus (GOS) of corporations excluding the alignment adjustment fell by 2.1% (Table 3), with falls in both non-financial corporations and financial corporations GOS. Within GOS of corporations, there continues to be uncertainty around the full impacts of the Energy Bill Relief and Energy Price Guarantee schemes that affect the first half of 2023.

Table 3: Gross operating surplus of corporations, including and excluding alignment adjustments UK, Quarter 1 (Jan to Mar) to Quarter 4 (Oct to Dec) 2023

	<b>Gross operating surplus of corporations</b>	<b>Of which alignment</b>	<b>Gross operating surplus of corporations excluding alignment</b>	<b>Gross operating surplus of corporations excluding alignment</b>	<b>Quarter-on-quarter growth</b>
<b>Q1 2023</b>	156,257	2,170	154,087		4.8
<b>Q2 2023</b>	147,561	1,508	146,053		-5.2
<b>Q3 2023</b>	143,116	-1,147	144,263		-1.2
<b>Q4 2023</b>	138,748	-2,531	141,279		-2.1

Source: GDP first quarterly estimate from the Office for National Statistics

#### Notes

1. Data are in £ millions unless labelled otherwise. Growth rates are percentage movements.
2. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept) and Q4 refers to Quarter 4 (Oct to Dec).
3. Alignment adjustments typically have a target limit of plus or minus £3,000 million on any quarter. However, in periods where the data sources are particularly difficult to balance, larger alignment adjustments are sometimes needed.

## 6 . Revisions to GDP

In line with our [National Accounts Revisions Policy](#), the dataset is open to revision back to Quarter 1 (Jan to Mar) 2023 as part of this publication. The revised estimates of average real gross domestic product (GDP) compared with the first estimate are shown in Figure 1, while Table 4 shows quarter-on-quarter growth at different publication vintages for real GDP. Revision triangles for GDP and components are available in our [GDP quarterly national accounts datasets](#).

Table 4: Quarter-on-quarter growth for real GDP at different publication vintages  
Quarter 1 (Jan to Mar) to Quarter 4 (Oct to Dec) 2023

Relating to Period	2023 Q1	2023 Q2	2023 Q3	2023 Q4
May 2023	0.1			
Jun 2023	0.1			
Aug 2023	0.1	0.2		
Sep 2023	0.3	0.2		
Nov 2023	0.3	0.2	0.0	
Dec 2023	0.3	0.0	-0.1	
Latest estimate: Feb 2024	0.2	0.0	-0.1	-0.3
Total revision between first and final estimate	0.1	-0.2	-0.1	

Source: GDP first quarterly estimate from the Office for National Statistics

### Notes

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

The revisions to quarter-on-quarter growth for the components of GDP are shown in Table 5. This release includes the processing of new and revised source data, and a review of GDP balancing.

There are also revisions in this release because of the replacement of forecasts with actual survey or external source data, such as energy data from Department for Energy Security and Net Zero (DESNZ) and new seasonal adjustment factors.

Table 5: Revisions to quarter-on-quarter growth for components of GDP  
Quarter 1 (Jan to Mar) to Quarter 3 (July to Sept) 2023

	<b>Q1</b>	<b>Q2</b>	<b>Q3</b>
	<b>2023</b>	<b>2023</b>	<b>2023</b>
<b>Average GDP in chained volume measures</b>	-0.1	0.0	0.0
<b>Output</b>			
<b>Production</b>	0.1	0.0	0.0
<b>Construction</b>	-0.4	-0.2	-0.3
<b>Services</b>	-0.1	0.0	0.0
<b>Expenditure</b>			
<b>Households</b>	0.1	0.0	-0.4
<b>Non-profit institutions serving households</b>	-0.1	-0.1	-0.1
<b>General government</b>	0.3	-0.2	0.3
<b>Gross fixed capital formation</b>	0.1	0.1	0.2
<b>Total exports</b>	0.1	-0.4	-0.2
<b>Total imports</b>	0.4	-0.1	-0.8
<b>Average GDP in current prices</b>	-0.2	0.0	-0.7
<b>Income</b>			
<b>Compensation of employees</b>	0.5	0.2	-0.4
<b>Gross operating surplus of corporations</b>	-0.8	-1.4	-1.0
<b>Other income</b>	0.0	0.0	-0.2
<b>Taxes on products &amp; production less subsidies</b>	-0.3	0.7	-2.0

Source: GDP first quarterly estimate from the Office for National Statistics

#### Notes

1. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June) Q3 refers to Quarter 3 (July to Sept) and Q4 refers to Quarter 4 (Oct to Dec).,Revisions are between the GDP quarterly national accounts published 22 December 2023 and GDP first quarterly estimate published on 15 February 2024.

## 7 . International comparisons

Table 6: Real GDP growth for the G7 economies  
Percentage change, quarter on quarter and annual growth, real gross domestic product (GDP) for 2022 to 2023

Country	Quarter on previous quarter (%)				Quarter on quarter growth (%), 2023 Q4 compared to prepandemic 2019 Q4	Annual growth (%)
	2023 Q1	2023 Q2	2023 Q3	2023 Q4	2023 Q4	2022
Canada	0.6	0.3	-0.3	0.3	4.5	3.8
France	0.0	0.7	0.0	0.0	1.8	2.5
Germany	0.1	0.0	0.0	-0.3	0.1	1.8
Italy	0.6	-0.3	0.1	0.2	3.6	3.7
Japan	1.2	0.9	-0.7			1
United Kingdom	0.2	0.0	-0.1	-0.3	1.0	4.3
United States	0.6	0.5	1.2	0.8	8.2	1.9

Source: GDP first quarterly estimate from the Office for National Statistics, and Organisation for Economic Co-operation and Development

### 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. The Group of Seven (G7) is an intergovernmental organisation, which consists of the United States, UK, France, Germany, Italy, Canada and Japan. Data for Japan for 2023 Q4 is currently unavailable.
3. Data accessed and retrieved from OECD website on 13th February 2024, where revision policies for published estimates can differ between countries. Quarter 4 2023 GDP estimates for Japan are not yet available. Annual growth estimates for 2023 are unavailable for some countries and so has not been included in this table.

## 8 . GDP first quarterly estimate data

### [GDP – data tables](#)

Dataset | Released 15 February 2024

Annual and quarterly data for UK gross domestic product (GDP) estimates, in chained volume measures and current market prices.

### [GDP in chained volume measures – real-time database \(ABMI\)](#)

Dataset | Released 15 February 2024

Quarterly levels for UK gross domestic product (GDP), in chained volume measures at market prices.

### [GDP at current prices – real-time database \(YBHA\)](#)

Dataset | Released 15 February 2024

Quarterly levels for UK gross domestic product (GDP) at current market prices.

## 9 . Glossary

## 10 . Measuring the data

## Reaching the GDP balance

The different data content and quality of the three approaches (the output approach, the expenditure approach and the income approach) dictate 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. To obtain the best estimate of gross domestic product (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 take the lead because of the larger data content.

Quarterly GDP is a balanced measure of the three approaches, while the GDP monthly estimate focuses on gross value added (GVA) and output as a proxy for GDP. This results in data differences (in both levels and growths terms) between our quarterly publications (average GDP) and our [GDP monthly estimate bulletin](#) (output approach to GDP). Quarterly GDP is the lead measure of GDP because of its higher data content and inclusion of variables, which enable the conversion from a GVA concept to a GDP basis.

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

Alignment adjustments, found in Table M of our [GDP first quarterly estimate data tables](#), have a target limit of plus or minus £3,000 million on any quarter. However, in periods where the data sources are particularly difficult to balance, larger alignment adjustments are sometimes needed, as explained in our article, [Recent challenges of balancing the three approaches of GDP](#). Our standard practice is to prefer that the alignment adjustment be out of tolerance rather than over-adjust individual GDP components to achieve a balance. This is most likely to occur in the latest quarter, where the constraints are larger, where we must align to the output estimate for the change in GDP, and where the data content is at its lowest.

To achieve a balanced GDP dataset through alignment, balancing adjustments are applied to the components of GDP where data content is particularly weak in a given quarter because of a higher level of forecast content. The balancing adjustments applied in this estimate are shown in Table 7. The resulting series should be considered accordingly.

Table 7: Balancing adjustments applied to the GDP first quarterly estimate dataset  
Quarter 1 (Jan to Mar) to Quarter 4 (Oct to Dec) 2023

<b>GDP measurement approach and component adjustment applied to</b>		<b>2023 Q1</b>	<b>2023 Q2</b>	<b>2023 Q3</b>	<b>2023 Q4</b>
<b>Expenditure</b>					
<b>Gross fixed capital formation</b>	<b>Current prices</b>	-300	-600	-400	-300
	<b>Chained volume measure</b>	350	400	200	100
<b>Change in inventories</b>	<b>Current prices</b>			-1500	1700
	<b>Chained volume measure</b>			1200	-1900
<b>Trade in services exports</b>	<b>Current prices</b>	500	-300	-300	
	<b>Chained volume measure</b>	200	-100	-750	-750
<b>Trade in services imports</b>	<b>Current prices</b>	-700	-500	-200	-800
	<b>Chained volume measure</b>	-900	-700	50	850
<b>Household consumption</b>	<b>Current prices</b>				-650
	<b>Chained volume measure</b>				-650
<b>Non-profit institution serving households</b>	<b>Current prices</b>				
	<b>Chained volume measure</b>	400	600	500	500

Source: GDP first quarterly estimate from the Office for National Statistics

#### Notes

- Adjustments are in £ million.
- 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).

## Office for Statistics Regulation Revisions of estimates of UK GDP review

The Office for Statistics Regulation (OSR) have completed a review of the practices around the preparation and release of information about revisions to estimates of GDP in our [Impact of Blue Book 2023 article](#) released on 1 September 2023, as announced on 6 September 2023 on the [OSR website](#). The outcome of this review can also be viewed on the [OSR website](#). This review covered:

- processes and quality assurance in making revisions to GDP
- potential improvements to early estimates of GDP enabled through enhanced access to data
- communication of revisions to GDP, the story behind the most recent set of revisions in particular, and uncertainty in early estimates of GDP

We have already started work looking into the recommendations of this review and have set out our plans on how we will improve the way we communicate uncertainty.

We published a [response to the OSR review into GDP](#) in January 2024, which was [positively received by the OSR](#).

### Net trade

HM Revenue and Customs (HMRC) implemented a data collection change affecting data on goods exports from Great Britain (GB) to the EU in January 2021, and data on goods imports from the EU to GB in January 2022. For more information, see [HMRC's Methodology changes to trade in goods statistics from March 2022 article](#). We have applied adjustments to our estimates of goods imports from the EU for 2021 to reflect this data collection change, which brought imports and exports statistics onto a like-for-like basis in 2021, as detailed in our [Trade in goods: Adjustments to 2021 EU imports estimates, by chapter dataset](#).

The full time series for goods imports from and exports to the EU contains a discontinuity from January 2021 resulting from the move from Intrastat to customs declarations, as detailed in our [Impact of trade in goods data collection changes on UK trade statistics: adjustments to 2021 EU imports estimates article](#). We are continuing to work with HMRC to consider possible options to account for this discontinuity.

Separately, in 2021, the use of Staged Customs Controls (SCC) allowed customs declarations to be reported up to 175 days after the date of import for imports of non-controlled goods from the EU to GB. [The UK government introduced full customs controls in January 2022](#), while July 2022 marked the first full month of data where delayed customs declarations submitted under SCC could not be included. Temporary arrangements still apply for imports of goods from Ireland to GB. In our article, [Impact of trade in goods data collection changes on UK trade statistics: further update on Staged Customs Controls](#) published on 3 July 2023, we presented analysis on the impact of SCC on trade in goods data for imports from the EU to GB in 2022. We have previously adjusted for the impact of SCC and have published the article [Impact of trade in goods data collection changes on UK trade statistics: adjustments to 2022 EU imports estimates](#), providing a detailed breakdown of the impact of these adjustments.

In our December 2023 [GDP quarterly national accounts bulletin](#), we incorporated a number of better quality but less timely annual datasets for 2022. However, annual data for 2022 from the International Trade in Services (ITIS) Survey has not been included in this dataset, as we have been developing and improving methodology for the sample and require additional time to quality assure the data. These will be incorporated in our June 2024 quarterly national accounts bulletin. Quarterly ITIS data for 2022 are included our current dataset.

## 11 . Strengths and limitations

The UK National Accounts are drawn together using data from many different sources. This ensures that they are comprehensive and provide different perspectives on the economy, for example, sales by retailers and purchases by households. Further information on measuring gross domestic product (GDP) can be found in our [Guide to the UK National Accounts](#), and more Quality and Methodology Information (QMI) is available in our [GDP QMI](#).

## 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 often 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 our GDP QMI](#) analyses the mean average revision and the mean absolute revision for GDP estimates over data publication iterations.

## 12 . Related links

### [GDP monthly estimates, UK: December 2023](#)

Bulletin | Released 15 February 2024

Gross domestic product (GDP) measures the value of goods and services produced in the UK. It estimates the size of and growth in the economy.

### [Construction output in Great Britain: December 2023, new orders and Construction Output Price Indices, October to December 2023](#)

Bulletin | Released 15 February 2024

Short-term measures of output by the construction industry, contracts awarded for new construction work in Great Britain and a summary of the Construction Output Price Indices (OPIs) in the UK for Quarter 4 (October to December) 2023.

### [Index of Production, UK: December 2023](#)

Bulletin | Released 15 February 2024

Movements in the volume of production for the UK production industries: manufacturing, mining and quarrying, energy supply, and water and waste management. Figures are seasonally adjusted.

### [Index of Services, UK: December 2023](#)

Bulletin | Released 15 February 2024

Monthly movements in output for the services industries. Figures are seasonally adjusted.

### [Measuring monthly and quarterly gross domestic product in the coronavirus \(COVID-19\) pandemic](#)

Article | Released 11 November 2021

How we produce monthly and quarterly estimates of UK gross domestic product and why this affects estimating where the economy is relative to its pre-coronavirus (COVID-19) pandemic level.

### [Communicating the UK Economic Cycle](#)

Article | Released 11 November 2022

Explanation of movement in gross domestic product (GDP) and wider considerations around technical recessions in the UK.

## 13 . Cite this statistical bulletin

Office for National Statistics (ONS), released 15 February 2024, ONS website, statistical bulletin, [GDP first quarterly estimate, UK: October to December 2023](#)

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

2019 = 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	Market sector gross value added	Gross national expenditure	Gross domestic product at market prices	Gross value added at basic prices
	YBEU	YBEX	YBEZ	CGCE	L48H	YBFV	YBGB	CGBV
2021	102.2	102.6	97.4	97.6	98.5	105.1	105.0	105.0
2022	112.2	112.5	101.6	101.6	102.3	111.4	110.4	110.8
2023	120.4	122.0	101.8	101.7	102.6	118.0	118.3	119.9
<b>Seasonally adjusted</b>								
2021 Q3	104.1	104.2	99.5	99.7	100.0	104.8	104.6	104.6
Q4	106.8	106.6	101.1	101.0	101.1	106.5	105.7	105.5
2022 Q1	108.9	108.7	101.6	101.5	101.9	108.1	107.2	107.1
Q2	111.2	111.2	101.7	101.6	102.3	110.3	109.4	109.4
Q3	112.9	112.6	101.6	101.5	102.2	113.4	111.1	110.9
Q4	115.6	117.6	101.7	101.7	102.7	114.2	113.7	115.7
2023 Q1	117.9	121.8	101.9	101.9	103.0	116.1	115.7	119.5
Q2	120.7	121.8	101.9	101.9	102.9	118.1	118.4	119.6
Q3	121.6	122.3	101.8	101.7	102.6	118.9	119.4	120.2
Q4	121.4	122.0	101.5	101.4	102.1	119.0	119.6	120.3
<b>Percentage change, latest year on previous year</b>								
	IHYM	KGL6	IHYP	KGM7	L489	KH7D	IHYS	KGM4
2021	8.5	7.8	8.7	8.4	6.8	0.3	-0.1	-0.5
2022	9.7	9.7	4.3	4.1	3.8	6.1	5.1	5.4
2023	7.3	8.4	0.1	0.1	0.4	5.9	7.2	8.2
<b>Percentage change, latest quarter on previous quarter</b>								
	IHYN	KGL8	IHYQ	KGM9		KH7E	IHYT	KGM5
2021 Q3	2.4	2.1	1.7	1.6	0.9	1.4	0.7	0.5
Q4	2.6	2.3	1.5	1.3	1.1	1.6	1.1	0.9
2022 Q1	2.0	1.9	0.5	0.5	0.8	1.5	1.4	1.4
Q2	2.1	2.3	0.1	0.1	0.4	2.0	2.0	2.2
Q3	1.5	1.3	-0.1	-0.1	-0.2	2.8	1.6	1.3
Q4	2.4	4.4	0.1	0.1	0.5	0.7	2.3	4.3
2023 Q1	2.0	3.5	0.2	0.2	0.3	1.7	1.7	3.3
Q2	2.4	0.1	-	-	-0.1	1.7	2.4	0.1
Q3	0.7	0.4	-0.1	-0.2	-0.3	0.7	0.9	0.5
Q4	-0.2	-0.2	-0.3	-0.3	-0.4	0.1	0.2	0.1
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>								
	IHYO	KGM2	IHYR	KGN3	L48D	KH7F	IHYU	KGM6
2021 Q3	9.0	7.8	9.5	9.1	6.4	0.1	-0.5	-1.3
Q4	10.8	9.9	9.7	9.0	6.7	1.9	1.0	0.8
2022 Q1	13.1	11.8	11.4	10.8	8.5	2.5	1.5	0.9
Q2	9.4	8.9	3.9	3.5	3.3	6.7	5.3	5.2
Q3	8.4	8.0	2.1	1.9	2.2	8.1	6.2	6.0
Q4	8.2	10.3	0.6	0.6	1.6	7.2	7.5	9.6
2023 Q1	8.3	12.0	0.3	0.4	1.1	7.4	7.9	11.6
Q2	8.5	9.6	0.3	0.3	0.5	7.1	8.2	9.3
Q3	7.7	8.6	0.2	0.2	0.4	4.9	7.5	8.4
Q4	5.0	3.7	-0.2	-0.3	-0.5	4.2	5.2	4.0

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 sum of expenditure components of GDP at current prices and at chained volume terms.

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

£ million

	Current prices			Chained volume measures (Reference year 2019)			
	Gross domestic product at market prices	less Basic price adjustment <sup>2</sup>	Gross value added at basic prices	Gross domestic product at market prices	less Basic price adjustment <sup>2</sup>	Gross value added at basic prices	Gross value added excluding oil & gas <sup>3</sup>
	YBHA	NTAP	ABML	ABMI	NTAO	ABMM	KLS2
2021	2 284 079	237 443	2 046 636	2 176 203	227 882	1 948 321	1 935 444
2022	2 505 981	260 336	2 245 645	2 270 764	243 429	2 027 335	2 014 752
2023	2 689 974	256 152	2 433 822	2 274 050	243 952	2 030 098	2 019 469
<b>Seasonally adjusted</b>							
2021 Q3	581 506	61 437	520 069	555 956	58 630	497 326	493 957
Q4	596 674	64 692	531 982	564 407	60 372	504 035	500 928
2022 Q1	608 329	66 026	542 303	567 396	60 854	506 542	503 382
Q2	621 272	66 474	554 798	567 889	60 901	506 988	503 710
Q3	630 575	68 785	561 790	567 445	60 860	506 585	503 423
Q4	645 805	59 051	586 754	568 034	60 814	507 220	504 237
2023 Q1	658 554	51 109	607 445	569 336	60 872	508 464	505 779
Q2	674 271	66 488	607 783	569 364	61 051	508 313	505 641
Q3	679 198	69 197	610 001	568 655	61 131	507 524	504 840
Q4	677 951	69 358	608 593	566 695	60 898	505 797	503 209
<b>Percentage change, latest year on previous year</b>							
	IHYM		KGL6	IHYP		KGM7	KLH8
2021	8.5		7.8	8.7		8.4	8.8
2022	9.7		9.7	4.3		4.1	4.1
2023	7.3		8.4	0.1		0.1	0.2
<b>Percentage change, latest quarter on previous quarter</b>							
	IHYN		KGL8	IHYQ		KGM9	
2021 Q3	2.4		2.1	1.7		1.6	1.4
Q4	2.6		2.3	1.5		1.3	1.4
2022 Q1	2.0		1.9	0.5		0.5	0.5
Q2	2.1		2.3	0.1		0.1	0.1
Q3	1.5		1.3	-0.1		-0.1	-0.1
Q4	2.4		4.4	0.1		0.1	0.2
2023 Q1	2.0		3.5	0.2		0.2	0.3
Q2	2.4		0.1	-		-	-
Q3	0.7		0.4	-0.1		-0.2	-0.2
Q4	-0.2		-0.2	-0.3		-0.3	-0.3
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>							
	IHYO		KGM2	IHYR		KGN3	KLH9
2021 Q3	9.0		7.8	9.5		9.1	9.5
Q4	10.8		9.9	9.7		9.0	9.2
2022 Q1	13.1		11.8	11.4		10.8	11.0
Q2	9.4		8.9	3.9		3.5	3.4
Q3	8.4		8.0	2.1		1.9	1.9
Q4	8.2		10.3	0.6		0.6	0.7
2023 Q1	8.3		12.0	0.3		0.4	0.5
Q2	8.5		9.6	0.3		0.3	0.4
Q3	7.7		8.6	0.2		0.2	0.3
Q4	5.0		3.7	-0.2		-0.3	-0.2

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

2 Taxes on products less subsidies.

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

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

2019 = 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	Trans-port storage and commu-nications	Business services and finance	Govern-ment and other services	Total		
<b>2019 Weights<sup>3</sup></b>	7	11	98	15	12	136	62	133	103	340	218	794	1000	991
	L2KL	L2KR	L2KX	L2MW	L2N2	L2KQ	L2N8	L2PZ	KI8M	KI8O	KI8Q	L2NC	CGCE	KLH7
2021	84.6	76.7	103.8	71.3	106.0	98.3	96.0	96.1	99.0	101.3	92.7	97.7	97.6	97.8
2022	85.8	75.9	100.4	63.4	106.4	95.0	102.5	101.0	107.3	104.0	101.4	103.2	101.6	101.8
2023	85.6	65.0	101.7	62.2	103.6	94.6	104.5	99.3	107.9	104.7	102.4	103.6	101.7	102.1
<b>Seasonally adjusted</b>														
2021 Q3	85.5	79.0	102.6	62.4	105.7	96.6	95.7	104.2	100.6	101.6	97.1	100.6	99.7	99.9
Q4	85.8	74.8	102.5	61.0	106.6	96.2	97.1	101.3	103.2	102.5	102.2	102.3	101.0	101.3
2022 Q1	85.5	77.1	101.8	64.1	106.6	96.1	100.1	101.5	106.6	102.8	102.6	103.0	101.5	101.8
Q2	86.1	78.5	100.7	63.7	107.5	95.5	101.9	101.8	106.4	104.0	101.0	103.1	101.6	101.8
Q3	86.0	76.2	99.3	63.2	106.1	94.1	103.0	100.3	108.1	104.2	100.8	103.2	101.5	101.8
Q4	85.6	71.9	99.9	62.5	105.2	94.1	105.0	100.5	108.2	104.8	101.3	103.5	101.7	102.0
2023 Q1	85.5	66.0	100.5	63.4	105.5	94.2	104.6	99.6	109.4	105.1	101.8	103.8	101.9	102.3
Q2	85.5	65.4	102.2	61.7	103.8	95.0	104.9	99.5	108.6	104.6	102.4	103.7	101.9	102.2
Q3	85.7	65.4	102.4	62.7	102.3	95.2	105.0	99.3	106.8	104.4	102.9	103.5	101.7	102.1
Q4	85.8	63.4	101.5	61.1	102.8	94.2	103.6	98.8	106.6	104.5	102.6	103.3	101.4	101.7
<b>Percentage change, latest year on previous year</b>														
	L3BB	L3BH	L3BN	L3DM	L3DQ	L3BG	L3DW	L3GP	KI8L	KI8N	KI8P	L3E2	KGM7	KLH8
2021	-6.8	-23.4	1.6	-32.1	4.4	-3.9	9.8	21.1	8.4	5.2	16.9	10.9	8.4	8.8
2022	1.5	-1.0	-3.3	-11.2	0.3	-3.4	6.8	5.1	8.5	2.7	9.4	5.6	4.1	4.1
2023	-0.2	-14.3	1.2	-1.8	-2.6	-0.3	2.0	-1.7	0.5	0.7	1.0	0.3	0.1	0.2
<b>Percentage change, latest quarter on previous quarter</b>														
													KGM9	
2021 Q3	2.1	15.4	-2.1	-18.4	-0.3	-2.4	-1.9	4.8	1.8	0.2	5.3	2.5	1.6	1.4
Q4	0.3	-5.3	-0.1	-2.2	0.8	-0.5	1.5	-2.8	2.5	0.9	5.3	1.6	1.3	1.4
2022 Q1	-0.4	3.0	-0.7	5.1	-	-	3.2	0.2	3.4	0.4	0.3	0.7	0.5	0.5
Q2	0.7	1.8	-1.0	-0.7	0.9	-0.6	1.8	0.3	-0.2	1.1	-1.5	0.1	0.1	0.1
Q3	-	-2.8	-1.4	-0.8	-1.4	-1.5	1.0	-1.4	1.6	0.2	-0.2	-	-0.1	-0.1
Q4	-0.5	-5.7	0.7	-1.0	-0.8	-	1.9	0.1	0.1	0.5	0.4	0.4	0.1	0.2
2023 Q1	-	-8.3	0.6	1.5	0.3	0.1	-0.4	-0.8	1.1	0.3	0.5	0.3	0.2	0.3
Q2	-	-0.9	1.7	-2.8	-1.6	0.9	0.2	-0.1	-0.8	-0.4	0.7	-0.1	-	-
Q3	0.2	-0.1	0.2	1.7	-1.5	0.1	0.1	-0.2	-1.6	-0.2	0.5	-0.2	-0.2	-0.2
Q4	0.2	-3.0	-0.9	-2.6	0.5	-1.0	-1.3	-0.5	-0.2	0.1	-0.4	-0.2	-0.3	-0.3
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>														
	L3ZZ	L427	L42D	L44C	L44G	L426	L44M	L47F	KI12	KI19	KI18	L44Q	KGN3	KLH9
2021 Q3	-4.4	-21.0	-4.9	-41.2	3.6	-9.3	5.1	18.8	9.9	6.3	25.3	13.4	9.1	9.5
Q4	-0.7	-18.7	-6.9	-37.7	1.7	-10.1	3.2	23.1	9.7	4.4	26.5	13.4	9.0	9.2
2022 Q1	2.8	-8.6	-3.5	-25.0	0.8	-5.4	7.0	27.3	14.4	3.2	29.7	14.7	10.8	11.0
Q2	2.7	14.6	-3.9	-16.6	1.4	-3.5	4.6	2.4	7.7	2.6	9.5	5.0	3.5	3.4
Q3	0.6	-3.5	-3.2	1.3	0.3	-2.6	7.7	-3.7	7.4	2.7	3.8	2.5	1.9	1.9
Q4	-0.3	-3.8	-2.5	2.4	-1.3	-2.1	8.1	-0.8	4.9	2.2	-1.0	1.2	0.6	0.7
2023 Q1	0.1	-14.4	-1.2	-1.1	-1.0	-2.0	4.5	-1.8	2.6	2.2	-0.8	0.8	0.4	0.5
Q2	-0.6	-16.6	1.5	-3.2	-3.5	-0.5	2.9	-2.2	2.0	0.6	1.4	0.5	0.3	0.4
Q3	-0.4	-14.3	3.2	-0.7	-3.6	1.1	2.0	-1.0	-1.2	0.2	2.1	0.3	0.2	0.3
Q4	0.3	-11.9	1.6	-2.3	-2.3	0.1	-1.3	-1.7	-1.4	-0.2	1.3	-0.2	-0.3	-0.2

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

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

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

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

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

2019 = 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>2019 Weights<sup>3</sup></b>	102	103	30	82	131	127	49	58	77	34	794
	L2NE	KI8M	L2NQ	L2O6	L2OC	L2OH	L2P8	L2PA	L2PC	L2Q5	L2NC
2021	100.4	99.0	81.6	103.8	101.1	99.8	96.8	90.5	94.5	86.4	97.7
2022	101.0	107.3	101.2	104.8	101.7	105.8	100.5	100.2	104.8	97.2	103.2
2023	99.1	107.9	99.9	104.1	101.2	108.6	101.2	102.3	104.0	101.0	103.6
<b>Seasonally adjusted</b>											
2021 Q3	104.4	100.6	103.5	102.9	100.9	101.3	98.1	95.6	101.6	88.2	100.6
Q4	103.8	103.2	92.6	106.1	101.2	101.4	98.1	95.9	113.3	94.2	102.3
2022 Q1	102.4	106.6	98.4	105.1	101.3	102.9	99.7	99.6	110.2	94.5	103.0
Q2	101.1	106.4	104.0	105.1	101.8	105.6	99.8	100.4	103.9	97.2	103.1
Q3	100.0	108.1	101.4	104.9	101.8	106.3	101.0	100.5	102.2	97.9	103.2
Q4	100.4	108.2	100.8	104.2	101.7	108.3	101.4	100.2	102.8	99.3	103.5
2023 Q1	99.5	109.4	100.3	105.1	101.6	108.6	100.7	101.7	102.8	101.2	103.8
Q2	99.2	108.6	100.6	104.0	101.4	108.4	100.8	102.2	103.9	101.9	103.7
Q3	99.2	106.8	99.5	103.7	100.9	108.6	101.5	103.1	104.4	101.4	103.5
Q4	98.6	106.6	99.3	103.5	100.9	109.0	101.8	102.3	104.7	99.3	103.3
<b>Percentage change, latest year on previous year</b>											
	L3E4	KI8L	L3EG	L3EU	L3F2	L3F7	L3FW	L3FY	L3G2	L3GT	L3E2
2021	18.9	8.4	31.3	5.4	1.6	9.2	2.0	13.7	35.0	11.7	10.9
2022	0.6	8.5	24.0	1.0	0.6	6.0	3.9	10.7	10.9	12.5	5.6
2023	-1.8	0.5	-1.2	-0.7	-0.5	2.7	0.7	2.1	-0.8	3.8	0.3
<b>Percentage change, latest quarter on previous quarter</b>											
2021 Q3	0.1	1.8	25.3	-0.4	-0.3	1.0	1.0	1.7	12.2	2.6	2.5
Q4	-0.5	2.5	-10.5	3.1	0.3	0.1	-	0.3	11.4	6.8	1.6
2022 Q1	-1.4	3.4	6.2	-0.9	0.1	1.5	1.6	3.9	-2.7	0.3	0.7
Q2	-1.3	-0.2	5.8	-	0.5	2.6	0.1	0.8	-5.7	2.9	0.1
Q3	-1.1	1.6	-2.5	-0.2	-	0.7	1.3	0.1	-1.6	0.7	-
Q4	0.4	0.1	-0.5	-0.6	-0.1	1.9	0.4	-0.2	0.5	1.4	0.4
2023 Q1	-0.9	1.1	-0.6	0.9	-0.1	0.3	-0.7	1.4	-	1.9	0.3
Q2	-0.3	-0.8	0.4	-1.1	-0.2	-0.2	0.1	0.6	1.0	0.7	-0.1
Q3	0.1	-1.6	-1.1	-0.3	-0.5	0.2	0.7	0.8	0.5	-0.5	-0.2
Q4	-0.6	-0.2	-0.2	-0.2	-	0.4	0.3	-0.8	0.2	-2.0	-0.2
<b>Percentage change, latest quarter on corresponding quarter of the previous year</b>											
	L44S	KI12	L456	L45K	L45Q	L45V	L46M	L46O	L46Q	L47J	L44Q
2021 Q3	16.4	9.9	27.8	5.4	1.9	11.9	4.6	16.7	61.3	11.4	13.4
Q4	14.9	9.7	69.1	4.4	1.8	7.1	5.3	8.8	70.1	14.1	13.4
2022 Q1	14.9	14.4	106.2	2.2	0.3	6.9	6.4	30.0	52.4	22.2	14.7
Q2	-3.0	7.7	25.9	1.7	0.6	5.3	2.7	6.8	14.7	13.1	5.0
Q3	-4.2	7.4	-2.0	1.9	0.9	4.9	3.0	5.1	0.6	11.1	2.5
Q4	-3.3	4.9	8.9	-1.7	0.5	6.8	3.4	4.5	-9.3	5.4	1.2
2023 Q1	-2.9	2.6	1.9	-	0.2	5.5	1.0	2.1	-6.7	7.1	0.8
Q2	-1.9	2.0	-3.3	-1.0	-0.4	2.6	1.0	1.8	-	4.8	0.5
Q3	-0.8	-1.2	-1.9	-1.1	-0.9	2.1	0.4	2.6	2.2	3.5	0.3
Q4	-1.7	-1.4	-1.6	-0.7	-0.8	0.6	0.4	2.1	1.9	0.1	-0.2

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

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

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

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

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

£ million

National expenditure on goods and services at market prices															
Final consumption expenditure					Gross capital formation										
	Households	Non-profit institutions <sup>2, 7</sup>	General government	Gross fixed capital formation	Of which business investment <sup>3</sup>	Change in inventories <sup>4</sup>	Of which alignment adjustment	Acquisitions less disposals of valuables <sup>5</sup>	Total exports	Gross final expenditure	less imports	Trade balance <sup>6</sup>	Statistical discrepancy (expenditure)	Gross domestic product at market prices	
	ABJQ	HAYE	NMRP	NPQS	NPEK	CAEX	DMUN	NPJQ	YBIL	IKBH	ABMF	IKBI	IKBJ	GIXM	YBHA
2021	1 322 966	46 370	508 716	403 847	215 979	-3 028	-	8 726	2 287 597	676 026	2 963 623	679 544	-3 518	-	2 284 079
2022	1 500 399	49 867	526 192	459 428	245 695	24 917	-	-18 147	2 542 656	837 761	3 380 417	904 589	-66 828	30 153	2 505 981
2023	1 612 540	52 853	556 162	492 795	268 850	1 439	-	-14 310	2 701 479	859 211	3 560 690	895 763	-36 552	25 047	2 689 974
<b>Seasonally adjusted</b>															
2021 Q3	345 193	11 910	126 347	104 563	56 612	585	277	3 684	592 282	163 010	755 292	173 786	-10 776	-	581 506
Q4	350 829	12 167	127 250	104 934	56 693	5 179	2 904	-2 959	597 400	186 322	783 722	187 048	-726	-	596 674
2022 Q1	361 326	12 186	133 146	110 419	58 771	9 731	-3 093	8 494	635 302	179 132	814 434	212 540	-33 408	6 435	608 329
Q2	373 379	12 367	128 435	113 290	61 007	10 918	3 171	2 581	640 970	199 081	840 051	226 693	-27 612	7 914	621 272
Q3	378 596	12 573	132 118	116 934	62 498	2 705	-1 347	-11 955	630 971	227 423	858 394	235 017	-7 594	7 198	630 575
Q4	387 098	12 741	132 493	118 785	63 419	1 563	1 269	-17 267	635 413	232 125	867 538	230 339	1 786	8 606	645 805
2023 Q1	397 807	12 951	133 657	122 836	66 723	-601	-497	-6 065	660 585	219 230	879 815	227 984	-8 754	6 723	658 554
Q2	405 102	13 148	139 874	122 728	67 655	1 287	2 452	-3 812	678 327	216 557	894 884	226 693	-10 136	6 080	674 271
Q3	404 086	13 317	140 487	122 203	66 426	1 057	-3 588	-1 288	679 862	213 456	893 318	220 248	-6 792	6 128	679 198
Q4	405 545	13 437	142 144	125 028	68 046	-304	1 633	-3 145	682 705	209 968	892 673	220 838	-10 870	6 116	677 951
<b>Percentage change, latest year on previous year</b>															
	KG Y7	KG Z8	KH 2C	KG 6O	KG 6N				KG X3	KH 2O	KG V7	KH 3H			IH YM
2021	10.1	4.7	7.0	9.9	4.2				9.4	8.2	9.1	11.0			8.5
2022	13.4	7.5	3.4	13.8	13.8				11.1	23.9	14.1	33.1			9.7
2023	7.5	6.0	5.7	7.3	9.4				6.2	2.6	5.3	-1.0			7.3
<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			IH YN
2021 Q3	4.2	4.0	0.3	5.4	7.5				5.8	-4.2	3.5	7.3			2.4
Q4	1.6	2.2	0.7	0.4	0.1				0.9	14.3	3.8	7.6			2.6
2022 Q1	3.0	0.2	4.6	5.2	3.7				6.3	-3.9	3.9	13.6			2.0
Q2	3.3	1.5	-3.5	2.6	3.8				0.9	11.1	3.1	6.7			2.1
Q3	1.4	1.7	2.9	3.2	2.4				-1.6	14.2	2.2	3.7			1.5
Q4	2.2	1.3	0.3	1.6	1.5				0.7	2.1	1.1	-2.0			2.4
2023 Q1	2.8	1.6	0.9	3.4	5.2				4.0	-5.6	1.4	-1.0			2.0
Q2	1.8	1.5	4.7	-0.1	1.4				2.7	-1.2	1.7	-0.6			2.4
Q3	-0.3	1.3	0.4	-0.4	-1.8				0.2	-1.4	-0.2	-2.8			0.7
Q4	0.4	0.9	1.2	2.3	2.4				0.4	-1.6	-0.1	0.3			-0.2
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>															
	KG Y9	KH 22	KH 2E	KG 76	KG 75				KG X5	KH 2Q	KG V9	KH 3J			IH YO
2021 Q3	11.9	10.5	4.1	13.2	10.7				11.1	10.3	10.9	18.1			9.0
Q4	15.8	10.2	2.7	8.4	6.8				8.0	17.8	10.2	8.5			10.8
2022 Q1	22.2	12.4	3.1	16.0	17.5				18.0	14.4	17.2	35.6			13.1
Q2	12.7	8.0	1.9	14.2	15.8				14.5	17.0	15.1	39.9			9.4
Q3	9.7	5.6	4.6	11.8	10.4				6.5	39.5	13.7	35.2			8.4
Q4	10.3	4.7	4.1	13.2	11.9				6.4	24.6	10.7	23.1			8.2
2023 Q1	10.1	6.3	0.4	11.2	13.5				4.0	22.4	8.0	7.3			8.3
Q2	8.5	6.3	8.9	8.3	10.9				5.8	8.8	6.5	-			8.5
Q3	6.7	5.9	6.3	4.5	6.3				7.7	-6.1	4.1	-6.3			7.7
Q4	4.8	5.5	7.3	5.3	7.3				7.4	-9.5	2.9	-4.1			5.0

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

2 Non-profit institutions serving households.

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

4 Quarterly alignment adjustment included in this series.

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

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

7 There is a small difference between the gross operating surplus of the Non-profit Institutions Serving households (NPISH) sector in the Table 6.3.3 of the UK Economic Accounts dataset, compared with the consumption of fixed capital for the NPISH sector published in the GDP release. This difference has been addressed from 2021 Q1. Remaining differences will be corrected when revisions policy allows. The latest figures can be found in the UK Economic Accounts dataset.

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

Reference year 2019, £ million

National expenditure on goods and services at market prices																
Final consumption expenditure						Gross capital formation								Statistical discrepancy (expenditure)	Gross domestic product at market prices	
Households	Non-profit institutions <sup>2, 7</sup>	General government	Gross fixed capital formation	Of which business investment <sup>3</sup>	Change in inventories <sup>4</sup>	Of which alignment adjustment	Acquisitions less disposals of valuables <sup>5</sup>	Total	Total exports	Gross final expenditure	less imports	Trade balance <sup>6</sup>	GIXS			ABMI
2021	ABJR	HAYO	NMRY	NPQT	NPBL	CAFU	DMUM	NPJR	YBIM	IKBK	ABMG	IKBL	IKBM	GIXS	ABMI	
2021	1 289 290	41 815	451 510	389 652	208 294	-1 714	-	6 959 2	177 512	656 554 2	834 066	657 863	-1 309	-	2 176 203	
2022	1 350 539	46 933	461 684	420 902	228 317	19 476	-	-17 540 2	281 994 715	449 2 997 443	753 962	-38 513	27 283	2 270 764		
2023	1 354 872	47 926	464 408	433 283	242 153	147	-	-11 858 2	288 778 705	718 2 994 496	741 635	-35 917	21 189	2 274 050		
<b>Seasonally adjusted</b>																
2021	Q3	335 438	10 905	115 146	98 233	53 035	2 108	281	3 118	564 948	159 497	724 445	168 489	-8 992	-	555 956
	Q4	336 309	11 022	116 404	98 770	53 441	1 016	2 761	-2 593	560 928	175 563	736 491	172 084	3 479	-	564 407
2022	Q1	338 499	11 498	117 600	103 833	55 098	10 097	-2 862	6 191	587 718	162 165	749 883	188 489	-26 324	6 002	567 396
	Q2	339 607	11 769	114 550	104 294	56 823	8 811	2 921	2 243	581 274	171 586	752 860	192 205	-20 619	7 234	567 889
	Q3	336 390	11 805	115 094	106 086	58 076	-1 804	-1 192	-10 971	556 600	190 525	747 125	186 157	4 368	6 477	567 445
	Q4	336 043	11 861	114 440	106 689	58 320	2 372	1 133	-15 003	556 402	191 173	747 575	187 111	4 062	7 570	568 034
2023	Q1	339 048	11 932	113 507	109 400	60 776	23	-431	-4 968	568 942	179 471	748 413	184 889	-5 418	5 812	569 336
	Q2	340 721	11 972	116 224	108 454	61 298	298	2 070	-3 135	574 534	178 070	752 604	188 374	-10 304	5 134	569 364
	Q3	337 788	12 018	117 520	106 955	59 581	-1 474	-3 004	-989	571 818	176 635	748 453	184 929	-8 294	5 131	568 655
	Q4	337 315	12 004	117 157	108 474	60 498	1 300	1 365	-2 766	573 484	171 542	745 026	183 443	-11 901	5 112	566 695
<b>Percentage change, latest year on previous year</b>																
2021	KGZ5	KH26	KH2I	KG7N	KG7M			KGX9	KH2U	KGW5	KH3N				IHYP	
2021	7.5	7.1	14.9	7.4	2.0			9.1	4.9	8.1	6.1				8.7	
2022	4.8	12.2	2.3	8.0	9.6			4.8	9.0	5.8	14.6				4.3	
2023	0.3	2.1	0.6	2.9	6.1			0.3	-1.4	-0.1	-1.6				0.1	
<b>Percentage change, latest quarter on previous quarter</b>																
2021	Q3	KGZ6	KH27	KH2J	KG7Q	KG7P		KGY2	KH2V	KGW6	KH3O				IHYQ	
2021	Q3	2.9	3.5	0.9	-0.6	-1.2		4.3	-4.4	2.3	4.2				1.7	
	Q4	0.3	1.1	1.1	0.5	0.8		-0.7	10.1	1.7	2.1				1.5	
2022	Q1	0.7	4.3	1.0	5.1	3.1		4.8	-7.6	1.8	9.5				0.5	
	Q2	0.3	2.4	-2.6	0.4	3.1		-1.1	5.8	0.4	2.0				0.1	
	Q3	-0.9	0.3	0.5	1.7	2.2		-4.2	11.0	-0.8	-3.1				-0.1	
	Q4	-0.1	0.5	-0.6	0.6	0.4		-	0.3	0.1	0.5				0.1	
2023	Q1	0.9	0.6	-0.8	2.5	4.2		2.3	-6.1	0.1	-1.2				0.2	
	Q2	0.5	0.3	2.4	-0.9	0.9		1.0	-0.8	0.6	-1.9				-	
	Q3	-0.9	0.4	1.1	-1.4	-2.8		-0.5	-0.8	-0.6	-1.8				-0.1	
	Q4	-0.1	-0.1	-0.3	1.4	1.5		0.3	-2.9	-0.5	-0.8				-0.3	
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>																
2021	Q3	KGZ7	KH28	KH2K	KG7T	KG7S		KGY3	KH2W	KGW7	KH3P				IHYR	
2021	Q3	9.2	13.0	15.2	8.2	5.8		11.0	7.1	10.1	12.1				9.5	
	Q4	11.5	8.8	11.0	2.7	1.0		6.0	11.4	7.2	-0.1				9.7	
2022	Q1	16.1	22.9	11.1	10.7	14.5		15.2	4.8	12.8	21.1				11.4	
	Q2	4.2	11.7	0.4	5.5	5.8		7.4	2.9	6.3	18.9				3.9	
	Q3	0.3	8.3	-	8.0	9.5		-1.5	19.5	3.1	10.5				2.1	
	Q4	-0.1	7.6	-1.7	8.0	9.1		-0.8	8.9	1.5	8.7				0.6	
2023	Q1	0.2	3.8	-3.5	5.4	10.3		-3.2	10.7	-0.2	-1.9				0.3	
	Q2	0.3	1.7	1.5	4.0	7.9		-1.2	3.8	-	-2.0				0.3	
	Q3	0.4	1.8	2.1	0.8	2.6		2.7	-7.3	0.2	-0.7				0.2	
	Q4	0.4	1.2	2.4	1.7	3.7		3.1	-10.3	-0.3	-2.0				-0.2	

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

2 Non-profit institutions serving households.

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

4 Quarterly alignment adjustment included in this series.

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

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

7 There is a small difference between the gross operating surplus of the Non-profit Institutions Serving households (NPISH) sector in the Table 6.3.3 of the UK Economic Accounts dataset, compared with the consumption of fixed capital for the NPISH sector published in the GDP release. This difference has been addressed from 2021 Q1. Remaining differences will be corrected when revisions policy allows. The latest figures can be found in the UK Economic Accounts dataset.

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

£ million

	Compen- sation of employees		Gross operating surplus of corporations							Taxes on production less subsidies			Statisti- cal discrepa- ncy (income)	Gross domestic product at market prices		
	Wages and Salaries	Employers social contri- butions	Total	Private non-fina- ncial corporat- ions <sup>2</sup>	Of which align- ment adjust- ment	Financial corporat- ions	Public corporat- ions	Total <sup>3</sup>	Other income <sup>4</sup>	Gross value added at factor cost	less				Total	
											Taxes	Subsidies				
	DTWL	DTWP	DTWM	CAER	DMUQ	NHCZ	CAEQ	CGBZ	CGBX	CGCB	NTAB	AAXW	CMVL	GIXQ	YBHA	
2021	949 974	206 178	1 156 152	394 531	-	96 433	13 091	504 055	412 913	2 073 120	283 726	72 767	210 959	-	2 284 079	
2022	1 020 391	222 785	1 243 176	432 645	-	110 507	14 002	557 154	445 966	2 246 296	324 903	42 593	282 310	-22 625	2 505 981	
2023	1 103 396	228 112	1 331 508	..	-	..	..	585 682	502 131	2 419 321	335 213	53 399	281 814	-11 161	2 689 974	
<b>Seasonally adjusted</b>																
2021	Q3	239 866	52 142	292 008	99 976	1 361	24 149	3 182	127 307	102 974	522 289	73 057	13 840	59 217	-	581 506
	Q4	243 770	51 459	295 229	99 831	-1 660	25 346	3 384	128 561	104 322	528 112	76 526	7 964	68 562	-	596 674
2022	Q1	249 635	53 790	303 425	102 227	-2 812	26 140	3 287	131 654	107 910	542 989	78 777	8 374	70 403	-5 063	608 329
	Q2	251 881	55 669	307 550	108 664	2 264	26 845	3 473	138 982	109 098	555 630	80 181	8 099	72 082	-6 440	621 272
	Q3	256 483	56 549	313 032	105 024	-2 241	28 038	3 635	136 697	112 134	561 863	82 650	8 109	74 541	-5 829	630 575
	Q4	262 392	56 777	319 169	116 730	2 789	29 484	3 607	149 821	116 824	585 814	83 295	18 011	65 284	-5 293	645 805
2023	Q1	269 169	56 492	325 661	123 115	2 170	29 364	3 778	156 257	122 533	604 451	82 944	25 404	57 540	-3 437	658 554
	Q2	275 323	57 021	332 344	116 173	1 508	27 945	3 443	147 561	124 303	604 208	84 237	11 608	72 629	-2 566	674 271
	Q3	278 639	57 240	335 879	112 104	-1 147	27 591	3 421	143 116	127 328	606 323	83 544	8 087	75 457	-2 582	679 198
	Q4	280 265	57 359	337 624	..	-2 531	..	..	138 748	127 967	604 339	84 488	8 300	76 188	-2 576	677 951
<b>Percentage change, latest year on previous year</b>																
		CWNH	CWNE	KG13	KH59		KH5L	KH53	KH4V	KH6T	KH6N	JJDC	JJDU	KH65		IHYM
2021		6.2	2.9	5.6	2.5		18.0	10.9	5.3	3.8	5.2	11.6	-40.0	58.7		8.5
2022		7.4	8.1	7.5	9.7		14.6	7.0	10.5	8.0	8.4	14.5	-41.5	33.8		9.7
2023		8.1	2.4	7.1	..		..	..	5.1	12.6	7.7	3.2	25.4	-0.2		7.3
<b>Percentage change, latest quarter on previous quarter</b>																
		CWNI	CWNF	KG14	KH5A		KH5M	KH54	KH4W	KH6U	KH6O	JJDH	JJDZ	KH66		IHYN
2021	Q3	1.4	0.6	1.2	-0.5		-2.4	-8.5	-1.1	-0.3	0.3	4.7	-38.2	24.9		2.4
	Q4	1.6	-1.3	1.1	-0.1		5.0	6.3	1.0	1.3	1.1	4.7	-42.5	15.8		2.6
2022	Q1	2.4	4.5	2.8	2.4		3.1	-2.9	2.4	3.4	2.8	2.9	5.1	2.7		2.0
	Q2	0.9	3.5	1.4	6.3		2.7	5.7	5.6	1.1	2.3	1.8	-3.3	2.4		2.1
	Q3	1.8	1.6	1.8	-3.3		4.4	4.7	-1.6	2.8	1.1	3.1	0.1	3.4		1.5
	Q4	2.3	0.4	2.0	11.1		5.2	-0.8	9.6	4.2	4.3	0.8	122.1	-12.4		2.4
2023	Q1	2.6	-0.5	2.0	5.5		-0.4	4.7	4.3	4.9	3.2	-0.4	41.0	-11.9		2.0
	Q2	2.3	0.9	2.1	-5.6		-4.8	-8.9	-5.6	1.4	-	1.6	-54.3	26.2		2.4
	Q3	1.2	0.4	1.1	-3.5		-1.3	-0.6	-3.0	2.4	0.4	-0.8	-30.3	3.9		0.7
	Q4	0.6	0.2	0.5	..		..	..	-3.1	0.5	-0.3	1.1	2.6	1.0		-0.2
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>																
		CWNJ	CWNG	KG15	KH5B		KH5N	KH55	KH4X	KH6V	KH6P	JJDS	JJG4	KH67		IHYO
2021	Q3	7.7	2.2	6.7	-2.9		22.3	5.6	1.2	3.4	4.7	16.1	-50.9	70.6		9.0
	Q4	6.4	-0.7	5.1	5.8		25.6	7.9	9.2	3.9	5.8	15.8	-69.8	72.6		10.8
2022	Q1	8.7	6.0	8.2	8.5		17.8	7.8	10.2	5.4	8.1	22.4	-70.7	96.8		13.1
	Q2	6.5	7.4	6.6	8.1		8.4	-0.1	7.9	5.6	6.8	14.9	-63.8	52.0		9.4
	Q3	6.9	8.5	7.2	5.0		16.1	14.2	7.4	8.9	7.6	13.1	-41.4	25.9		8.4
	Q4	7.6	10.3	8.1	16.9		16.3	6.6	16.5	12.0	10.9	8.8	126.2	-4.8		8.2
2023	Q1	7.8	5.0	7.3	20.4		12.3	14.9	18.7	13.6	11.3	5.3	203.4	-18.3		8.3
	Q2	9.3	2.4	8.1	6.9		4.1	-0.9	6.2	13.9	8.7	5.1	43.3	0.8		8.5
	Q3	8.6	1.2	7.3	6.7		-1.6	-5.9	4.7	13.5	7.9	1.1	-0.3	1.2		7.7
	Q4	6.8	1.0	5.8	..		..	..	-7.4	9.5	3.2	1.4	-53.9	16.7		5.0

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		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	tourism													
			0	01	02	03	04	05	06	07	08	09	10	11	12
	ABJQ	ABTF	ZAKV	ZWUM	ZAKX	ZAKZ	ZAVN	ZAVV	ZAWB	ZAWL	ZAVV	ZAWZ	ZWUS	ZAXR	ZAYF
2021	1 322 966	607	1 322 359	117 950	48 403	62 840	366 820	73 875	28 644	147 424	27 740	134 285	32 841	122 524	159 013
2022	1 500 396	16 778	1 483 621	123 476	45 921	70 039	393 430	76 359	29 851	190 786	27 297	143 636	35 321	165 762	181 743
2023	1 612 540	..	..	..	..	..	..	..	..	..	..	..	..	..	..
<b>Seasonally adjusted</b>															
2021 Q3	345 193	333	344 860	29 221	11 761	16 270	91 491	18 441	7 571	39 376	6 945	34 251	8 313	40 963	40 257
Q4	350 829	2 974	347 855	29 586	11 653	16 736	93 024	18 803	7 647	43 315	6 827	35 090	8 477	35 078	41 619
2022 Q1	361 326	2 667	358 659	29 316	11 435	17 364	93 635	19 231	7 492	46 398	7 030	35 852	8 615	39 263	43 028
Q2	373 379	5 011	368 368	30 212	11 509	17 276	97 762	18 923	7 338	47 290	6 835	35 726	8 756	42 397	44 344
Q3	378 596	4 644	373 952	31 452	11 525	17 496	99 956	19 101	7 338	48 011	6 849	35 953	8 901	41 767	45 603
Q4	387 098	4 456	382 642	32 496	11 452	17 903	102 077	19 104	7 683	49 087	6 583	36 105	9 049	42 335	48 768
2023 Q1	397 807	5 806	392 001	33 545	11 426	18 567	104 150	19 106	7 899	48 705	6 887	36 622	9 203	42 790	53 101
Q2	405 102	6 071	399 031	34 873	11 900	18 712	104 653	19 599	8 134	50 821	6 948	37 169	9 353	43 949	52 920
Q3	404 086	5 374	398 712	34 490	11 760	18 715	105 521	19 249	8 055	50 732	7 025	36 989	9 499	43 836	52 841
Q4	405 545	..	..	..	..	..	..	..	..	..	..	..	..	..	..
<b>Percentage change, latest year on previous year</b>															
	KG Y7		KG6U	KG9N	KG F3	KG F9	KG G7	KG H5	KG I6	KG J4	KG K2	KG K8	KG B2	KG C6	KG E2
2021	10.1		10.3	1.2	-2.0	12.0	3.4	8.5	26.3	19.6	-6.2	15.1	9.8	38.3	10.7
2022	13.4		12.2	4.7	-5.1	11.5	7.3	3.4	4.2	29.4	-1.6	7.0	7.6	35.3	14.3
2023	7.5		..	..	..	..	..	..	..	..	..	..	..	..	..
<b>Percentage change, quarter on previous quarter</b>															
	KG Y8		KG74	KG9R	KG F4	KG G2	KG G8	KG H6	KG I7	KG J5	KG K3	KG K9	KG B3	KG C7	KG E3
2021 Q3	4.2		3.7	-0.8	-5.3	-0.4	-0.2	-5.6	6.8	11.9	-1.1	0.4	2.3	31.5	-0.2
Q4	1.6		0.9	1.2	-0.9	2.9	1.7	2.0	1.0	10.0	-1.7	2.4	2.0	-14.4	3.4
2022 Q1	3.0		3.1	-0.9	-1.9	3.8	0.7	2.3	-2.0	7.1	3.0	2.2	1.6	11.9	3.4
Q2	3.3		2.7	3.1	0.6	-0.5	4.4	-1.6	-2.1	1.9	-2.8	-0.4	1.6	8.0	3.1
Q3	1.4		1.5	4.1	0.1	1.3	2.2	0.9	-	1.5	0.2	0.6	1.7	-1.5	2.8
Q4	2.2		2.3	3.3	-0.6	2.3	2.1	-	4.7	2.2	-3.9	0.4	1.7	1.4	6.9
2023 Q1	2.8		2.4	3.2	-0.2	3.7	2.0	-	2.8	-0.8	4.6	1.4	1.7	1.1	8.9
Q2	1.8		1.8	4.0	4.1	0.8	0.5	2.6	3.0	4.3	0.9	1.5	1.6	2.7	-0.3
Q3	-0.3		-0.1	-1.1	-1.2	-	0.8	-1.8	-1.0	-0.2	1.1	-0.5	1.6	-0.3	-0.1
Q4	0.4		..	..	..	..	..	..	..	..	..	..	..	..	..
<b>Percentage change, quarter on corresponding quarter of previous year</b>															
	KG Y9		KG7C	KG9V	KG F5	KG G3	KG G9	KG H7	KG I8	KG J6	KG K4	KG L2	KG B4	KG C8	KG E4
2021 Q3	11.9		11.7	1.5	-6.6	10.1	2.5	1.4	42.1	17.8	-8.7	20.4	11.9	58.3	8.9
Q4	15.8		14.9	4.0	-7.6	10.6	4.2	5.3	24.4	44.0	-9.0	14.2	10.1	66.2	14.7
2022 Q1	22.2		20.7	-1.3	-9.0	28.6	3.3	12.4	18.3	57.0	1.3	16.3	8.8	156.2	17.0
Q2	12.7		10.8	2.6	-7.3	5.8	6.6	-3.1	3.5	34.4	-2.7	4.7	7.7	36.1	9.9
Q3	9.7		8.4	7.6	-2.0	7.5	9.3	3.6	-3.1	21.9	-1.4	5.0	7.1	2.0	13.3
Q4	10.3		10.0	9.8	-1.7	7.0	9.7	1.6	0.5	13.3	-3.6	2.9	6.7	20.7	17.2
2023 Q1	10.1		9.3	14.4	-0.1	6.9	11.2	-0.6	5.4	5.0	-2.0	2.1	6.8	9.0	23.4
Q2	8.5		8.3	15.4	3.4	8.3	7.0	3.6	10.8	7.5	1.7	4.0	6.8	3.7	19.3
Q3	6.7		6.6	9.7	2.0	7.0	5.6	0.8	9.8	5.7	2.6	2.9	6.7	5.0	15.9
Q4	4.8		..	..	..	..	..	..	..	..	..	..	..	..	..

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	
2021	1 322 966	607	1 322 359	565 427	130 067	127 723	307 637	756 932	
2022	1 500 399	16 778	1 483 621	611 472	139 894	132 086	339 492	872 149	
2023	1 612 540	..	..	..	..	..	..	..	
<b>Seasonally adjusted</b>									
2021 Q3	345 193	333	344 860	142 399	33 337	32 561	76 501	202 461	
Q4	350 829	2 974	347 855	145 610	33 913	33 021	78 676	202 245	
2022 Q1	361 326	2 667	358 659	147 749	35 578	33 183	78 988	210 910	
Q2	373 379	5 011	368 368	151 201	34 509	32 773	83 919	217 167	
Q3	378 596	4 644	373 952	154 975	34 814	32 838	87 323	218 977	
Q4	387 098	4 456	382 642	157 547	34 993	33 292	89 262	225 095	
2023 Q1	397 807	5 806	392 001	160 018	35 047	33 772	91 199	231 983	
Q2	405 102	6 071	399 031	161 588	35 276	34 730	91 582	237 443	
Q3	404 086	5 374	398 712	160 195	34 858	34 478	90 859	238 517	
Q4	405 545	..	..	..	..	..	..	..	
<b>Percentage change, latest year on previous year</b>									
	KG7		KG6U	KHC9	KHB5	KHH5	KHE5	KHF9	
2021	10.1		10.3	7.9	5.6	12.8	7.0	12.1	
2022	13.4		12.2	8.1	7.6	3.4	10.4	15.2	
2023	7.5		..	..	..	..	..	..	
<b>Percentage change, quarter on previous quarter</b>									
	KG78		KG74	KHD2	KHB6	KHH6	KHE6	KHG2	
2021 Q3	4.2		3.7	-2.3	-3.6	-2.7	-1.5	8.4	
Q4	1.6		0.9	2.3	1.7	1.4	2.8	-0.1	
2022 Q1	3.0		3.1	1.5	4.9	0.5	0.4	4.3	
Q2	3.3		2.7	2.3	-3.0	-1.2	6.2	3.0	
Q3	1.4		1.5	2.5	0.9	0.2	4.1	0.8	
Q4	2.2		2.3	1.7	0.5	1.4	2.2	2.8	
2023 Q1	2.8		2.4	1.6	0.2	1.4	2.2	3.1	
Q2	1.8		1.8	1.0	0.7	2.8	0.4	2.4	
Q3	-0.3		-0.1	-0.9	-1.2	-0.7	-0.8	0.5	
Q4	0.4		..	..	..	..	..	..	
<b>Percentage change, quarter on corresponding quarter of previous year</b>									
	KG79		KG7C	KHD3	KHB7	KHH7	KHE7	KHG3	
2021 Q3	11.9		11.7	2.8	-8.4	9.5	5.8	19.0	
Q4	15.8		14.9	8.1	3.3	7.7	10.4	20.3	
2022 Q1	22.2		20.7	12.2	26.1	15.7	5.6	27.5	
Q2	12.7		10.8	3.7	-0.3	-2.0	8.0	16.3	
Q3	9.7		8.4	8.8	4.4	0.9	14.1	8.2	
Q4	10.3		10.0	8.2	3.2	0.8	13.5	11.3	
2023 Q1	10.1		9.3	8.3	-1.5	1.8	15.5	10.0	
Q2	8.5		8.3	6.9	2.2	6.0	9.1	9.3	
Q3	6.7		6.6	3.4	0.1	5.0	4.0	8.9	
Q4	4.8		..	..	..	..	..	..	

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 2019, £ million

UK NATIONAL <sup>2</sup>															
UK DOMESTIC <sup>3</sup>															
COICOP <sup>1</sup>	Total	Net tourism	Total	Food & drink	Alcohol & tobacco	Clothing & footwear	Housing	Household goods & services	Health	Transport	Communication	Recreation & culture	Education	Restaurants & hotels	Miscellaneous
				01	02	03	04	05	06	07	08	09	10	11	12
	ABJR	ABTH	ZAKW	ZWUN	ZAKY	ZALA	ZAVO	ZAVW	ZAWC	ZAWM	ZAWW	ZAXA	ZWUT	ZAXS	ZAYG
2021	1 289 290	2 282	1 287 008	116 158	46 367	63 239	359 458	71 531	27 333	136 792	34 543	128 694	31 190	116 224	155 479
2022	1 350 539	18 159	1 332 380	109 581	42 567	65 723	357 049	67 011	27 498	158 453	34 440	131 303	32 281	148 691	157 783
2023	1 354 872	23 286	1 331 586	106 447	40 909	65 701	358 959	63 955	28 100	165 578	35 296	128 552	33 256	148 367	156 466
<b>Seasonally adjusted</b>															
2021 Q3	335 438	1 063	334 375	28 820	11 280	16 178	89 047	17 754	7 182	36 591	8 713	32 636	7 957	38 138	40 079
Q4	336 309	3 974	332 335	28 629	10 981	16 157	89 539	17 652	7 243	38 821	8 723	33 141	7 793	34 139	39 517
2022 Q1	338 499	3 099	335 400	27 751	10 749	16 977	89 456	17 447	7 011	39 466	8 857	33 200	7 959	36 309	40 218
Q2	339 607	5 274	334 333	27 515	10 691	16 293	89 328	16 784	6 809	39 643	8 543	32 910	8 024	38 195	39 598
Q3	336 390	4 844	331 546	27 320	10 652	16 211	89 256	16 536	6 732	39 082	8 605	32 838	8 110	37 194	39 010
Q4	336 043	4 942	331 101	26 995	10 475	16 242	89 009	16 244	6 946	40 262	8 435	32 355	8 188	36 993	38 957
2023 Q1	339 048	5 300	333 748	26 955	10 330	16 898	89 256	15 969	6 949	41 106	8 903	32 612	8 239	37 266	39 265
Q2	340 721	5 748	334 973	26 905	10 375	16 507	89 590	16 265	7 081	41 740	8 765	32 377	8 303	37 374	39 691
Q3	337 788	5 662	332 126	26 433	10 124	16 283	89 738	15 961	6 913	41 536	8 830	32 104	8 351	36 917	38 936
Q4	337 315	6 576	330 739	26 154	10 080	16 013	90 375	15 760	7 157	41 196	8 798	31 459	8 363	36 810	38 574
<b>Percentage change, latest year on previous year</b>															
2021	KGZ5	KG7O	KG9Y	KGF6	KGG4	KGH2	KGH8	KGJ9	KGJ7	KGK5	KGL3	KGB8	KGD4	KGE8	
	7.5	7.5	0.8	-4.0	11.7	1.7	5.2	23.3	12.3	0.2	12.1	12.7	32.6	5.8	
2022	4.8	3.5	-5.7	-8.2	3.9	-0.7	-6.3	0.6	15.8	-0.3	2.0	3.5	27.9	1.5	
2023	0.3	-0.1	-2.9	-3.9	-	0.5	-4.6	2.2	4.5	2.5	-2.1	3.0	-0.2	-0.8	
<b>Percentage change, quarter on previous quarter</b>															
2021 Q3	KGZ6	KG7R	KGA3	KGF7	KGG5	KGH3	KGH9	KGJ2	KGJ8	KGK6	KGL4	KGB9	KGD5	KGE9	
	2.9	2.3	-1.5	-6.1	-2.1	-2.1	-7.3	6.0	8.5	0.3	-1.0	1.8	30.5	1.1	
Q4	0.3	-0.6	-0.7	-2.7	-0.1	0.6	-0.6	0.8	6.1	0.1	1.5	-2.1	-10.5	-1.4	
2022 Q1	0.7	0.9	-3.1	-2.1	5.1	-0.1	-1.2	-3.2	1.7	1.5	0.2	2.1	6.4	1.8	
Q2	0.3	-0.3	-0.9	-0.5	-4.0	-0.1	-3.8	-2.9	0.4	-3.5	-0.9	0.8	5.2	-1.5	
Q3	-0.9	-0.8	-0.7	-0.4	-0.5	-0.1	-1.5	-1.1	-1.4	0.7	-0.2	1.1	-2.6	-1.5	
Q4	-0.1	-0.1	-1.2	-1.7	0.2	-0.3	-1.8	3.2	3.0	-2.0	-1.5	1.0	-0.5	-0.1	
2023 Q1	0.9	0.8	-0.1	-1.4	4.0	0.3	-1.7	-	2.1	5.5	0.8	0.6	0.7	0.8	
Q2	0.5	0.4	-0.2	0.4	-2.3	0.4	1.9	1.9	1.5	-1.6	-0.7	0.8	0.3	1.1	
Q3	-0.9	-0.8	-1.8	-2.4	-1.4	0.2	-1.9	-2.4	-0.5	0.7	-0.8	0.6	-1.2	-1.9	
Q4	-0.1	-0.4	-1.1	-0.4	-1.7	0.7	-1.3	3.5	-0.8	-0.4	-2.0	0.1	-0.3	-0.9	
<b>Percentage change, quarter on corresponding quarter of previous year</b>															
2021 Q3	KGZ7	KG7U	KGA6	KGF8	KGG6	KGH4	KGJ2	KGJ3	KGJ9	KGK7	KGL5	KGC2	KGD6	KGF2	
	9.2	8.8	1.0	-8.6	8.5	0.6	-2.2	39.1	11.7	-2.6	16.8	16.3	49.6	6.4	
Q4	11.5	10.3	1.5	-10.1	8.0	0.4	-0.6	20.2	32.7	-1.8	10.3	10.2	61.1	7.9	
2022 Q1	16.1	14.3	-5.8	-11.1	18.1	-0.5	2.7	14.3	42.8	5.2	10.9	4.4	146.5	11.0	
Q2	4.2	2.3	-5.9	-11.0	-1.4	-1.8	-12.3	0.5	17.5	-1.7	-0.2	2.6	30.7	-0.1	
Q3	0.3	-0.8	-5.2	-5.6	0.2	0.2	-6.9	-6.3	6.8	-1.2	0.6	1.9	-2.5	-2.7	
Q4	-0.1	-0.4	-5.7	-4.6	0.5	-0.6	-8.0	-4.1	3.7	-3.3	-2.4	5.1	8.4	-1.4	
2023 Q1	0.2	-0.5	-2.9	-3.9	-0.5	-0.2	-8.5	-0.9	4.2	0.5	-1.8	3.5	2.6	-2.4	
Q2	0.3	0.2	-2.2	-3.0	1.3	0.3	-3.1	4.0	5.3	2.6	-1.6	3.5	-2.1	0.2	
Q3	0.4	0.2	-3.2	-5.0	0.4	0.5	-3.5	2.7	6.3	2.6	-2.2	3.0	-0.7	-0.2	
Q4	0.4	-0.1	-3.1	-3.8	-1.4	1.5	-3.0	3.0	2.3	4.3	-2.8	2.1	-0.5	-1.0	

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 2019, £ 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
					D	SD	ND	S	
COICOP <sup>1</sup>		ABJR	ABTH	ZAKW	UTIH	UTID	UTIT	UTIL	UTIP
2021		1 289 290	2 282	1 287 008	547 755	120 748	126 482	300 525	739 253
2022		1 350 539	18 159	1 332 380	528 050	120 332	122 540	285 178	804 330
2023		1 354 872	23 286	1 331 586	..	..	..	..	..
<b>Seasonally adjusted</b>									
2021	Q3	335 438	1 063	334 375	136 958	30 699	31 933	74 326	197 417
	Q4	336 309	3 974	332 335	136 861	30 900	31 741	74 220	195 474
2022	Q1	338 499	3 099	335 400	135 366	30 917	31 615	72 834	200 034
	Q2	339 607	5 274	334 333	132 225	30 043	30 529	71 653	202 108
	Q3	336 390	4 844	331 546	130 592	29 662	30 217	70 713	200 954
	Q4	336 043	4 942	331 101	129 867	29 710	30 179	69 978	201 234
2023	Q1	339 048	5 300	333 748	130 159	29 436	30 587	70 136	203 589
	Q2	340 721	5 748	334 973	130 143	29 283	30 640	70 220	204 830
	Q3	337 788	5 662	332 126	128 514	29 112	30 089	69 313	203 612
	Q4	337 315	6 576	330 739	..	..	..	..	..
<b>Percentage change, year on previous year</b>									
2021		KGZ5		KG7O	KHD7	KHC3	KHI3	KHF3	KHG7
		7.5		7.5	5.1	0.7	11.6	4.4	9.3
2022		4.8		3.5	-3.6	-0.3	-3.1	-5.1	8.8
2023		0.3		-0.1	..	..	..	..	..
<b>Percentage change, quarter on previous quarter</b>									
2021	Q3	KGZ6		KG7R	KHD8	KHC4	KHI4	KHF4	KHG8
		2.9		2.3	-4.7	-6.3	-4.2	-4.3	7.9
	Q4	0.3		-0.6	-0.1	0.7	-0.6	-0.1	-1.0
2022	Q1	0.7		0.9	-1.1	0.1	-0.4	-1.9	2.3
	Q2	0.3		-0.3	-2.3	-2.8	-3.4	-1.6	1.0
	Q3	-0.9		-0.8	-1.2	-1.3	-1.0	-1.3	-0.6
	Q4	-0.1		-0.1	-0.6	0.2	-0.1	-1.0	0.1
2023	Q1	0.9		0.8	0.2	-0.9	1.4	0.2	1.2
	Q2	0.5		0.4	-	-0.5	0.2	0.1	0.6
	Q3	-0.9		-0.8	-1.3	-0.6	-1.8	-1.3	-0.6
	Q4	-0.1		-0.4	..	..	..	..	..
<b>Percentage change, quarter on corresponding quarter of previous year</b>									
2021	Q3	KGZ7		KG7U	KHD9	KHC5	KHI5	KHF5	KHG9
		9.2		8.8	-0.2	-12.5	7.4	2.6	16.1
	Q4	11.5		10.3	2.3	-2.4	4.5	3.3	16.6
2022	Q1	16.1		14.3	4.0	17.2	7.3	-2.0	22.4
	Q2	4.2		2.3	-8.0	-8.3	-8.4	-7.7	10.5
	Q3	0.3		-0.8	-4.6	-3.4	-5.4	-4.9	1.8
	Q4	-0.1		-0.4	-5.1	-3.9	-4.9	-5.7	2.9
2023	Q1	0.2		-0.5	-3.8	-4.8	-3.3	-3.7	1.8
	Q2	0.3		0.2	-1.6	-2.5	0.4	-2.0	1.3
	Q3	0.4		0.2	-1.6	-1.9	-0.4	-2.0	1.3
	Q4	0.4		-0.1	..	..	..	..	..

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						Total
	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		
	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								
2021	NPEK	RPZG	L62R	L62S	L62T	L62U	NPQS	TLPX	TLPW	GGAE	EQED	TLPK	NPQS		
2022	215 979	71 712	5 197	636	88 931	21 392	403 847	17 208	63 941	94 316	131 273	97 111	403 847		
2023	245 695	77 593	6 324	725	105 771	23 320	459 428	27 569	69 449	112 192	147 970	102 248	459 428		
	268 850	90 133	6 554	597	106 438	20 223	492 795	37 626	74 810	113 081	161 619	105 659	492 795		
<b>Seasonally adjusted</b>															
2021 Q3	56 612	18 066	1 336	163	22 838	5 548	104 563	4 544	17 055	24 213	33 680	25 071	104 563		
2021 Q4	56 693	17 928	1 410	174	23 066	5 663	104 934	5 194	16 176	24 528	33 907	25 129	104 934		
2022 Q1	58 771	19 375	1 504	174	24 759	5 836	110 419	6 050	17 701	26 306	35 231	25 131	110 419		
2022 Q2	61 007	18 267	1 533	195	26 262	6 026	113 290	6 796	16 899	27 803	36 576	25 216	113 290		
2022 Q3	62 498	19 225	1 633	190	27 363	6 025	116 934	6 952	17 352	29 008	37 799	25 823	116 934		
2022 Q4	63 419	20 726	1 654	166	27 387	5 433	118 785	7 771	17 497	29 075	38 364	26 078	118 785		
2023 Q1	66 723	21 935	1 744	148	27 079	5 207	122 836	8 662	19 160	28 899	40 147	25 968	122 836		
2023 Q2	67 655	21 568	1 549	152	26 773	5 031	122 728	10 069	18 766	28 324	39 283	26 286	122 728		
2023 Q3	66 426	22 583	1 633	152	26 380	5 029	122 203	9 269	18 169	28 014	40 073	26 678	122 203		
2023 Q4	68 046	24 047	1 628	145	26 206	4 956	125 028	9 626	18 715	27 844	42 116	26 727	125 028		
<b>Percentage change, latest year on previous year</b>															
2021	KG6N	KH7N	L64E	L64H	L64K	L64N	KG6O	KG6T	KG6S	KH7X	KH7W	KG6R	KG6O		
2022	4.2	8.5	21.4	-19.2	24.4	22.3	9.9	-9.4	9.5	22.9	8.9	4.6	9.9		
2023	13.8	8.2	21.7	14.0	18.9	9.0	13.8	60.2	8.6	19.0	12.7	5.3	13.8		
	9.4	16.2	3.6	-17.7	0.6	-13.3	7.3	36.5	7.7	0.8	9.2	3.3	7.3		
<b>Percentage change, latest quarter on previous quarter</b>															
2021 Q3	KG6V	KH7P	L64F	L64I	L64L	L64O	KG6W	KG73	KG72	KH83	KH82	KG6Z	KG6W		
2021 Q4	7.5	2.2	3.8	5.8	3.1	5.6	5.4	17.2	10.0	3.2	5.4	2.7	5.4		
2022 Q1	0.1	-0.8	5.5	6.7	1.0	2.1	0.4	14.3	-5.2	1.3	0.7	0.2	0.4		
2022 Q2	3.7	8.1	6.7	-	7.3	3.1	5.2	16.5	9.4	7.2	3.9	-	5.2		
2022 Q3	3.8	-5.7	1.9	12.1	6.1	3.3	2.6	12.3	-4.5	5.7	3.8	0.3	2.6		
2022 Q4	2.4	5.2	6.5	-2.6	4.2	-	3.2	2.3	2.7	4.3	3.3	2.4	3.2		
2023 Q1	1.5	7.8	1.3	-12.6	0.1	-9.8	1.6	11.8	0.8	0.2	1.5	1.0	1.6		
2023 Q2	5.2	5.8	5.4	-10.8	-1.1	-4.2	3.4	11.5	9.5	-0.6	4.6	-0.4	3.4		
2023 Q3	1.4	-1.7	-11.2	2.7	-1.1	-3.4	-0.1	16.2	-2.1	-2.0	-2.2	1.2	-0.1		
2023 Q4	-1.8	4.7	5.4	-	-1.5	-	-0.4	-7.9	-3.2	-1.1	2.0	1.5	-0.4		
	2.4	6.5	-0.3	-4.6	-0.7	-1.5	2.3	3.9	3.0	-0.6	5.1	0.2	2.3		
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>															
2021 Q3	KG75	KH7R	L64G	L64J	L64M	L64P	KG76	KG7B	KG7A	KH87	KH86	KG79	KG76		
2021 Q4	10.7	6.9	28.6	43.0	18.6	43.2	13.2	-18.3	18.7	17.5	16.0	10.1	13.2		
2022 Q1	6.8	4.5	25.9	31.8	12.3	19.6	8.4	-15.7	5.1	13.9	10.0	9.9	8.4		
2022 Q2	17.5	7.4	29.2	20.0	18.6	18.5	16.0	68.4	16.4	19.0	11.0	11.7	16.0		
2022 Q3	15.8	3.3	19.1	26.6	18.6	14.7	14.2	75.2	9.0	18.5	14.5	3.3	14.2		
2022 Q4	10.4	6.4	22.2	16.6	19.8	8.6	11.8	53.0	1.7	19.8	12.2	3.0	11.8		
2023 Q1	11.9	15.6	17.3	-4.6	18.7	-4.1	13.2	49.6	8.2	18.5	13.1	3.8	13.2		
2023 Q2	13.5	13.2	16.0	-14.9	9.4	-10.8	11.2	43.2	8.2	9.9	14.0	3.3	11.2		
2023 Q3	10.9	18.1	1.0	-22.1	1.9	-16.5	8.3	48.2	11.0	1.9	7.4	4.2	8.3		
2023 Q4	6.3	17.5	-	-20.0	-3.6	-16.5	4.5	33.3	4.7	-3.4	6.0	3.3	4.5		
	7.3	16.0	-1.6	-12.7	-4.3	-8.8	5.3	23.9	7.0	-4.2	9.8	2.5	5.3		

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.

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

## Chained volume measures

Reference year 2019, £ million

	Analysis by sector								Analysis by asset					Total
	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	
	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	NPQT							
2021	NPEL	DLWF	L634	L635	L636	L637	NPQT	DLWL	DLWO	DFEG	DLWT	EQDO	NPQT	
2022	208 294	70 851	5 000	602	85 557	19 349	389 652	17 173	64 375	90 736	124 638	92 729	389 652	
2023	228 317	71 478	5 626	648	94 373	20 460	420 902	27 256	66 961	100 085	131 265	95 335	420 902	
	242 153	78 064	5 482	519	89 306	17 759	433 283	35 679	69 728	94 864	135 767	97 245	433 283	
<b>Seasonally adjusted</b>														
2021 Q3	53 035	17 338	1 286	154	21 455	4 965	98 233	4 488	16 840	22 778	31 053	23 073	98 233	
2021 Q4	53 441	17 339	1 303	163	21 374	5 151	98 770	5 270	16 251	22 725	31 351	23 173	98 770	
2022 Q1	55 098	19 268	1 361	159	22 699	5 248	103 833	6 097	17 329	24 099	32 997	23 311	103 833	
2022 Q2	56 823	16 854	1 412	175	23 683	5 347	104 294	6 577	16 452	25 102	32 596	23 567	104 294	
2022 Q3	58 076	17 009	1 432	167	24 159	5 243	106 086	6 806	16 762	25 602	32 774	24 142	106 086	
2022 Q4	58 320	18 347	1 421	147	23 832	4 622	106 689	7 776	16 418	25 282	32 898	24 315	106 689	
2023 Q1	60 776	19 220	1 451	131	23 232	4 590	109 400	8 427	17 740	24 748	34 337	24 148	109 400	
2023 Q2	61 298	18 751	1 338	133	22 459	4 475	108 454	9 382	17 526	23 799	33 487	24 260	108 454	
2023 Q3	59 581	19 483	1 358	132	21 951	4 450	106 955	8 750	17 045	23 310	33 395	24 455	106 955	
2023 Q4	60 498	20 610	1 335	123	21 664	4 244	108 474	9 120	17 417	23 007	34 548	24 382	108 474	
<b>Percentage change, latest year on previous year</b>														
2021	KG7M	KH92	L64T	L64W	L654	L64Z	KG7N	KH95	KH96	KH8Y	KH97	KH98	KG7N	
2022	2.0	10.0	17.8	22.6	19.6	9.5	7.4	-7.5	11.0	19.4	4.7	1.8	7.4	
2023	9.6	0.9	12.5	7.6	10.3	5.7	8.0	58.7	4.0	10.3	5.3	2.8	8.0	
	6.1	9.2	-2.6	-19.9	-5.4	-13.2	2.9	30.9	4.1	-5.2	3.4	2.0	2.9	
<b>Percentage change, latest quarter on previous quarter</b>														
2021 Q3	KG7P	KH9C	L64U	L64X	L655	L652	KG7Q	KH9F	KH9G	KH9A	KH9H	KH9I	KG7Q	
2021 Q4	-1.2	2.6	-0.5	4.8	-3.0	5.4	-0.6	21.7	4.0	-2.8	0.3	-6.1	-0.6	
2022 Q1	0.8	-	1.3	5.8	-0.4	3.7	0.5	17.4	-3.5	-0.2	1.0	0.4	0.5	
2022 Q2	3.1	11.1	4.5	-2.5	6.2	1.9	5.1	15.7	6.6	6.0	5.3	0.6	5.1	
2022 Q3	3.1	-12.5	3.7	10.1	4.3	1.9	0.4	7.9	-5.1	4.2	-1.2	1.1	0.4	
2022 Q4	2.2	0.9	1.4	-4.6	2.0	-1.9	1.7	3.5	1.9	2.0	0.5	2.4	1.7	
2023 Q1	0.4	7.9	-0.8	-12.0	-1.4	-11.8	0.6	14.3	-2.1	-1.2	0.4	0.7	0.6	
2023 Q2	4.2	4.8	2.1	-10.9	-2.5	-0.7	2.5	8.4	8.1	-2.1	4.4	-0.7	2.5	
2023 Q3	0.9	-2.4	-7.8	1.5	-3.3	-2.5	-0.9	11.3	-1.2	-3.8	-2.5	0.5	-0.9	
2023 Q4	-2.8	3.9	1.5	-0.8	-2.3	-0.6	-1.4	-6.7	-2.7	-2.1	-0.3	0.8	-1.4	
	1.5	5.8	-1.7	-6.8	-1.3	-4.6	1.4	4.2	2.2	-1.3	3.5	-0.3	1.4	
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>														
2021 Q3	KG7S	KH9M	L64V	L64Y	L656	L653	KG7T	KH9P	KH9Q	KH9K	KH9R	KH9S	KG7T	
2021 Q4	5.8	6.5	25.7	37.5	10.8	29.7	8.2	-14.9	19.1	11.5	8.6	3.3	8.2	
2022 Q1	1.0	1.7	18.9	26.4	5.5	9.7	2.7	-16.9	4.6	6.2	3.1	3.2	2.7	
2022 Q2	14.5	-0.1	21.6	15.2	10.2	16.1	10.7	63.5	14.9	10.6	5.5	6.4	10.7	
2022 Q3	5.8	-0.2	9.3	19.0	7.0	13.5	5.5	78.4	1.6	7.1	5.2	-4.1	5.5	
2022 Q4	9.5	-1.9	11.4	8.4	12.6	5.6	8.0	51.6	-0.5	12.4	5.5	4.6	8.0	
2023 Q1	9.1	5.8	9.1	-9.8	11.5	-10.3	8.0	47.6	1.0	11.3	4.9	4.9	8.0	
2023 Q2	10.3	-0.2	6.6	-17.6	2.3	-12.5	5.4	38.2	2.4	2.7	4.1	3.6	5.4	
2023 Q3	7.9	11.3	-5.2	-24.0	-5.2	-16.3	4.0	42.6	6.5	-5.2	2.7	2.9	4.0	
2023 Q4	2.6	14.5	-5.2	-21.0	-9.1	-15.1	0.8	28.6	1.7	-9.0	1.9	1.3	0.8	
	3.7	12.3	-6.1	-16.3	-9.1	-8.2	1.7	17.3	6.1	-9.0	5.0	0.3	1.7	

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

	Mining and quarrying	Manufacturing industries				Electricity, gas and water supply	Distributive trades			Changes in inventories <sup>3</sup>
		Materials and fuel	Work in progress	Finished goods	Total		Wholesale <sup>2</sup>	Retail <sup>2</sup>	Other industries <sup>3</sup>	
<b>Level of inventories held at end-December 2019</b>	442	28 421	20 090	22 084	70 595	567	43 807	34 323	57 637	207 371
2021	FAHS -1 457	FAGF -1 734	FADY 424	FALR 394	NZTP -916	FAGI -1 975	FBHE 2 534	FAHA 3 222	CWVD -4 436	CAEX -3 028
2022	-1 760	643	511	5 445	6 599	-1 238	17 634	3 482	200	24 917
2023	..	..	..	..	..	..	..	..	..	1 439
<b>Seasonally adjusted</b>										
2021 Q3	-65	704	-267	-116	321	-1 188	1 012	953	-448	585
Q4	-248	-524	-332	95	-761	-136	1 465	486	4 373	5 179
2022 Q1	-1 107	745	300	3 005	4 050	-488	5 345	4 346	-2 415	9 731
Q2	-529	-195	333	3 167	3 305	-2 369	5 667	2 012	2 832	10 918
Q3	-134	725	-562	-118	45	1 289	6 287	-1 670	-3 112	2 705
Q4	10	-632	440	-609	-801	330	335	-1 206	2 895	1 563
2023 Q1	225	98	652	-865	-115	482	-743	-2 913	2 463	-601
Q2	372	720	492	827	2 039	30	-3 448	-743	3 037	1 287
Q3	-233	566	647	1 341	2 554	248	2 933	-892	-3 553	1 057
Q4	..	..	..	..	..	..	..	..	..	-304

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 2019, £ million

	Mining and quarrying	Manufacturing industries				Electricity, gas and water supply	Distributive trades		Other industries <sup>3</sup>	Changes in inventories <sup>3</sup>
		Materials and fuel	Work in progress	Finished goods	Total		Wholesale <sup>2</sup>	Retail <sup>2</sup>		
<b>Level of inventories held at end-December 2019</b>	442	28 421	20 090	22 084	70 595	567	43 807	34 323	57 637	207 371
2021	FAEA -1 043	FBNF -2 133	FBNG 3 591	FBNH 4 521	DHBM 5 979	FAEB -343	FAJX 1 447	FBYN 692	DLWX -8 445	CAFU -1 714
2022	-1 535	-1 308	-400	4 648	2 940	-158	14 094	4 123	12	19 476
2023	..	..	..	..	..	..	..	..	..	147
<b>Seasonally adjusted</b>										
2021 Q3	575	-98	1 039	741	1 682	836	824	393	-2 202	2 108
Q4	-625	-550	230	881	561	-815	511	-478	1 863	1 016
2022 Q1	-827	1 163	-75	4 046	5 134	-502	4 105	3 415	-1 228	10 097
Q2	-147	-1 661	-523	3 639	1 455	-1 168	3 855	2 730	2 086	8 811
Q3	-303	1 002	-852	-1 365	-1 215	1 846	5 607	-1 685	-6 054	-1 804
Q4	-258	-1 812	1 050	-1 672	-2 434	-334	527	-337	5 208	2 372
2023 Q1	136	402	636	-1 056	-18	1 145	-254	-2 229	1 243	23
Q2	209	16	159	629	804	-1 744	-848	-418	2 295	298
Q3	80	98	273	1 122	1 493	687	958	-558	-4 134	-1 474
Q4	..	..	..	..	..	..	..	..	..	1 300

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
2021	331 240	344 786	676 026	494 666	184 878	679 544	-163 426	159 908	-3 518
2022	425 434	412 327	837 761	642 479	262 110	904 589	-217 045	150 217	-66 828
2023	392 651	466 560	859 211	581 464	314 299	895 763	-188 813	152 261	-36 552
<b>Seasonally adjusted</b>									
2021									
Q3	79 075	83 935	163 010	127 251	46 535	173 786	-48 176	37 400	-10 776
Q4	91 919	94 403	186 322	132 396	54 652	187 048	-40 477	39 751	-726
2022									
Q1	88 385	90 747	179 132	156 104	56 436	212 540	-67 719	34 311	-33 408
Q2	99 605	99 476	199 081	160 630	66 063	226 693	-61 025	33 413	-27 612
Q3	118 175	109 248	227 423	167 118	67 899	235 017	-48 943	41 349	-7 594
Q4	119 269	112 856	232 125	158 627	71 712	230 339	-39 358	41 144	1 786
2023									
Q1	102 547	116 683	219 230	151 395	76 589	227 984	-48 848	40 094	-8 754
Q2	100 075	116 482	216 557	147 674	79 019	226 693	-47 599	37 463	-10 136
Q3	94 136	119 320	213 456	140 694	79 554	220 248	-46 558	39 766	-6 792
Q4	95 893	114 075	209 968	141 701	79 137	220 838	-45 808	34 938	-10 870
<b>Percentage change, latest year on previous year</b>									
	KG9K	KH35	KH2O	KG9L	KH3W	KH3H			
2021	5.4	11.0	8.2	12.0	8.5	11.0			
2022	28.4	19.6	23.9	29.9	41.8	33.1			
2023	-7.7	13.2	2.6	-9.5	19.9	-1.0			
<b>Percentage change, latest quarter on previous quarter</b>									
	KG9O	KH36	KH2P	KG9P	KH3X	KH3I			
2021									
Q3	-7.8	-0.6	-4.2	6.5	9.3	7.3			
Q4	16.2	12.5	14.3	4.0	17.4	7.6			
2022									
Q1	-3.8	-3.9	-3.9	17.9	3.3	13.6			
Q2	12.7	9.6	11.1	2.9	17.1	6.7			
Q3	18.6	9.8	14.2	4.0	2.8	3.7			
Q4	0.9	3.3	2.1	-5.1	5.6	-2.0			
2023									
Q1	-14.0	3.4	-5.6	-4.6	6.8	-1.0			
Q2	-2.4	-0.2	-1.2	-2.5	3.2	-0.6			
Q3	-5.9	2.4	-1.4	-4.7	0.7	-2.8			
Q4	1.9	-4.4	-1.6	0.7	-0.5	0.3			
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>									
	KG9S	KH37	KH2Q	KG9T	KH3Y	KH3J			
2021									
Q3	5.3	15.4	10.3	16.9	21.4	18.1			
Q4	12.1	24.0	17.8	-	36.3	8.5			
2022									
Q1	18.6	10.7	14.4	35.1	37.2	35.6			
Q2	16.2	17.8	17.0	34.5	55.2	39.9			
Q3	49.4	30.2	39.5	31.3	45.9	35.2			
Q4	29.8	19.5	24.6	19.8	31.2	23.1			
2023									
Q1	16.0	28.6	22.4	-3.0	35.7	7.3			
Q2	0.5	17.1	8.8	-8.1	19.6	-			
Q3	-20.3	9.2	-6.1	-15.8	17.2	-6.3			
Q4	-19.6	1.1	-9.5	-10.7	10.4	-4.1			

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

# H2 Exports and imports of goods and services

## Chained volume measures

Reference year 2019, £ million

	Exports			Imports			Balance
	Goods	Services	Total	Goods	Services	Total	Total <sup>1</sup>
	BQKQ	IKBE	IKBK	BQKO	IKBF	IKBL	IKBM
2021	326 582	329 972	656 554	475 535	182 328	657 863	-1 309
2022	358 176	357 273	715 449	519 471	234 491	753 962	-38 513
2023	329 350	376 368	705 718	475 870	265 765	741 635	-35 917
<b>Seasonally adjusted</b>							
2021 Q3	78 523	80 974	159 497	122 216	46 273	168 489	-8 992
Q4	86 758	88 805	175 563	120 505	51 579	172 084	3 479
2022 Q1	78 743	83 422	162 165	135 389	53 100	188 489	-26 324
Q2	83 057	88 529	171 586	132 063	60 142	192 205	-20 619
Q3	97 911	92 614	190 525	125 854	60 303	186 157	4 368
Q4	98 465	92 708	191 173	126 165	60 946	187 111	4 062
2023 Q1	85 029	94 442	179 471	120 158	64 731	184 889	-5 418
Q2	83 946	94 124	178 070	121 668	66 706	188 374	-10 304
Q3	79 852	96 783	176 635	117 449	67 480	184 929	-8 294
Q4	80 523	91 019	171 542	116 595	66 848	183 443	-11 901
<b>Percentage change, latest year on previous year</b>							
	KG9X	KH3B	KH2U	KG9W	KH44	KH3N	
2021	1.1	9.0	4.9	5.8	7.1	6.1	
2022	9.7	8.3	9.0	9.2	28.6	14.6	
2023	-8.0	5.3	-1.4	-8.4	13.3	-1.6	
<b>Percentage change, latest quarter on previous quarter</b>							
	KGA2	KH3C	KH2V	KG9Z	KH45	KH3O	
2021 Q3	-8.1	-0.5	-4.4	3.5	6.2	4.2	
Q4	10.5	9.7	10.1	-1.4	11.5	2.1	
2022 Q1	-9.2	-6.1	-7.6	12.4	2.9	9.5	
Q2	5.5	6.1	5.8	-2.5	13.3	2.0	
Q3	17.9	4.6	11.0	-4.7	0.3	-3.1	
Q4	0.6	0.1	0.3	0.2	1.1	0.5	
2023 Q1	-13.6	1.9	-6.1	-4.8	6.2	-1.2	
Q2	-1.3	-0.3	-0.8	1.3	3.1	1.9	
Q3	-4.9	2.8	-0.8	-3.5	1.2	-1.8	
Q4	0.8	-6.0	-2.9	-0.7	-0.9	-0.8	
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>							
	KGA5	KH3D	KH2W	KGA4	KH46	KH3P	
2021 Q3	1.7	12.9	7.1	9.5	19.4	12.1	
Q4	3.5	20.4	11.4	-9.0	29.7	-0.1	
2022 Q1	3.8	5.8	4.8	18.0	29.8	21.1	
Q2	-2.8	8.8	2.9	11.9	38.0	18.9	
Q3	24.7	14.4	19.5	3.0	30.3	10.5	
Q4	13.5	4.4	8.9	4.7	18.2	8.7	
2023 Q1	8.0	13.2	10.7	-11.2	21.9	-1.9	
Q2	1.1	6.3	3.8	-7.9	10.9	-2.0	
Q3	-18.4	4.5	-7.3	-6.7	11.9	-0.7	
Q4	-18.2	-1.8	-10.3	-7.6	9.7	-2.0	

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

# H3 Breakdown of exports and imports of goods

## Current Prices SA

£ million

	Trade in goods					
	Non-EU Exports	Non-EU Imports	Non-EU Balance	EU Exports	EU Imports	EU Balance
	L87M	L87O	L87K	L87S	L87U	L87Q
2021	173 888	257 042	-83 154	157 352	237 624	-80 272
2022	228 673	334 767	-106 094	196 761	307 712	-110 951
2023	207 328	262 499	-55 171	185 323	318 965	-133 642
2021 Q3	39 657	65 566	-25 909	39 418	61 685	-22 267
Q4	47 620	70 083	-22 463	44 299	62 313	-18 014
2022 Q1	44 557	84 497	-39 940	43 828	71 607	-27 779
Q2	49 791	82 457	-32 666	49 814	78 173	-28 359
Q3	65 755	90 834	-25 079	52 420	76 284	-23 864
Q4	68 570	76 979	-8 409	50 699	81 648	-30 949
2023 Q1	54 468	70 959	-16 491	48 079	80 436	-32 357
Q2	53 683	66 790	-13 107	46 392	80 884	-34 492
Q3	48 655	62 619	-13 964	45 481	78 075	-32 594
Q4	50 522	62 131	-11 609	45 371	79 570	-34 199

# H4 Breakdown of exports and imports of goods

## Chained Volume Measures SA

£ million

	Trade in Goods					
	Non-EU Exports	Non-EU Imports	Non-EU Balance	EU Exports	EU Imports	EU Balance
	LGEB	LGEU	CTVU	LGCN	LGDF	CTVT
2021	173 529	242 767	-69 238	153 053	232 768	-79 715
2022	197 190	248 685	-51 495	160 986	270 786	-109 800
2023	175 777	208 652	-32 875	153 573	267 218	-113 645
2021 Q3	39 868	61 920	-22 052	38 655	60 296	-21 641
Q4	45 247	60 893	-15 646	41 511	59 612	-18 101
2022 Q1	40 457	68 569	-28 112	38 286	66 820	-28 534
Q2	42 807	62 672	-19 865	40 250	69 391	-29 141
Q3	55 855	59 840	-3 985	42 056	66 014	-23 958
Q4	58 071	57 604	467	40 394	68 561	-28 167
2023 Q1	45 666	54 057	-8 391	39 363	66 101	-26 738
Q2	45 166	53 557	-8 391	38 780	68 111	-29 331
Q3	41 797	51 116	-9 319	38 055	66 333	-28 278
Q4	43 148	49 922	-6 774	37 375	66 673	-29 298

# K1 General government Final Consumption: Current Prices SA Summary by Function

£ million

	Health	Education	Social Protection	Justice and Fire	Military Defence	Central Government Other	Local Government Other	Total
	KSP4	KSP3	KSP7	KSP6	KSP5	KSQ2	KSQ3	NMRP
2021	210 823	79 906	53 406	11 422	45 737	58 533	48 889	508 716
2022	209 240	83 911	53 738	12 171	47 808	66 969	52 355	526 192
2023	219 224	88 941	55 688	14 224	51 837	71 577	54 671	556 162
2021 Q3	51 571	20 000	13 379	2 902	11 245	14 994	12 256	126 347
Q4	51 904	20 384	13 633	2 771	11 578	14 715	12 265	127 250
2022 Q1	55 244	20 515	13 569	2 938	11 860	16 476	12 544	133 146
Q2	50 370	20 690	13 166	3 043	11 607	16 474	13 085	128 435
Q3	51 959	21 306	13 451	3 048	12 199	16 895	13 260	132 118
Q4	51 667	21 400	13 552	3 142	12 142	17 124	13 466	132 493
2023 Q1	52 842	21 614	13 720	3 315	11 808	16 691	13 667	133 657
Q2	55 667	22 197	13 832	3 433	13 120	17 992	13 633	139 874
Q3	54 851	22 538	14 037	3 490	13 451	18 460	13 660	140 487
Q4	55 864	22 592	14 099	3 986	13 458	18 434	13 711	142 144

# K2 General government Final Consumption: Chained Volume Measures SA Summary by Function

£ million

	Health	Education	Social Protection	Justice and Fire	Military Defence	Central Government Other	Local Government Other	Total
	KSR6	KSR5	KSR9	KSR8	KSR7	KSS4	KSS5	NMRY
2021	184 321	64 970	48 932	9 339	42 694	55 384	45 870	451 510
2022	176 558	74 986	49 882	9 861	42 666	60 664	47 067	461 684
2023	174 874	75 562	50 851	9 983	44 927	61 692	46 519	464 408
2021 Q3	46 790	17 442	12 346	2 327	10 463	14 224	11 554	115 146
Q4	48 739	17 579	12 061	2 363	10 587	13 705	11 370	116 404
2022 Q1	46 486	18 613	12 398	2 457	10 738	15 605	11 303	117 600
Q2	43 481	18 834	12 434	2 424	10 461	14 843	12 073	114 550
Q3	43 151	18 954	12 511	2 554	10 771	15 137	12 016	115 094
Q4	43 440	18 585	12 539	2 426	10 696	15 079	11 675	114 440
2023 Q1	43 155	18 610	12 590	2 448	10 254	14 706	11 744	113 507
Q2	43 710	18 902	12 701	2 476	11 387	15 412	11 636	116 224
Q3	44 074	19 107	12 752	2 533	11 647	15 777	11 630	117 520
Q4	43 935	18 943	12 808	2 526	11 639	15 797	11 509	117 157

# Gross value added at basic prices: individual measures

	£ million				Index numbers (2019 = 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
2021	1 948 321	2 046 636	2 046 636	–	102.6	102.6	97.6	97.6	97.6
2022	2 000 052	2 215 492	2 268 270	–52 778	111.0	113.7	100.2	102.6	101.9
2023	2 008 909	2 408 775	2 444 983	–36 208	120.7	122.5	100.7	102.2	102.3
<b>Seasonally adjusted</b>									
2021 Q3	497 326	520 069	520 069	–	104.2	104.2	99.7	99.7	99.7
Q4	504 035	531 982	531 982	–	106.6	106.6	101.0	101.0	101.0
2022 Q1	500 540	535 868	547 366	–11 498	107.4	109.7	100.3	102.5	101.8
Q2	499 754	546 884	561 238	–14 354	109.6	112.5	100.2	102.8	101.9
Q3	500 108	554 592	567 619	–13 027	111.2	113.8	100.2	102.6	101.8
Q4	499 650	578 148	592 047	–13 899	115.9	118.7	100.1	102.6	102.2
2023 Q1	502 652	600 722	610 882	–10 160	120.4	122.4	100.7	102.5	102.4
Q2	503 179	601 703	610 349	–8 646	120.6	122.3	100.9	102.3	102.5
Q3	502 393	603 873	612 583	–8 710	121.0	122.8	100.7	102.1	102.3
Q4	500 685	602 477	611 169	–8 692	120.8	122.5	100.4	101.8	102.0
<b>Percentage change, latest year on previous year</b>									
	KH4D	KH47	KH68		KH47	KH68	KH4D	KH6E	GDPQ
2021	8.4	7.8	7.8		7.8	7.8	8.4	8.4	8.4
2022	2.7	8.3	10.8		8.3	10.8	2.7	5.1	4.4
2023	0.4	8.7	7.8		8.7	7.8	0.4	–0.4	0.4
<b>Percentage change, latest quarter on previous quarter</b>									
	KH4F	KH49	KH6A		KH49	KH6A	KH4F	KH6G	
2021 Q3	1.6	2.1	2.1		2.1	2.1	1.6	1.5	1.6
Q4	1.3	2.3	2.3		2.3	2.3	1.3	1.4	1.4
2022 Q1	–0.7	0.7	2.9		0.7	2.9	–0.7	1.4	0.8
Q2	–0.2	2.1	2.5		2.1	2.5	–0.2	0.3	0.1
Q3	0.1	1.4	1.1		1.4	1.1	0.1	–0.2	–0.1
Q4	–0.1	4.2	4.3		4.2	4.3	–0.1	–	0.4
2023 Q1	0.6	3.9	3.2		3.9	3.2	0.6	–0.1	0.2
Q2	0.1	0.2	–0.1		0.2	–0.1	0.1	–0.2	–
Q3	–0.2	0.4	0.4		0.4	0.4	–0.2	–0.1	–0.1
Q4	–0.3	–0.2	–0.2		–0.2	–0.2	–0.3	–0.3	–0.3
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>									
	KH4H	KH4B	KH6C		KH4B	KH6C	KH4H	KH6I	GDPR
2021 Q3	9.1	7.8	7.8		7.8	7.8	9.1	9.1	9.1
Q4	9.0	9.9	9.9		9.9	9.9	9.0	9.0	9.0
2022 Q1	9.5	10.5	12.8		10.5	12.8	9.5	11.8	11.1
Q2	2.0	7.3	10.2		7.3	10.2	2.0	4.7	3.8
Q3	0.6	6.6	9.1		6.6	9.1	0.6	2.9	2.1
Q4	–0.9	8.7	11.3		8.7	11.3	–0.9	1.5	1.2
2023 Q1	0.4	12.1	11.6		12.1	11.6	0.4	–	0.6
Q2	0.7	10.0	8.8		10.0	8.8	0.7	–0.5	0.6
Q3	0.5	8.9	7.9		8.9	7.9	0.5	–0.4	0.5
Q4	0.2	4.2	3.2		4.2	3.2	0.2	–0.7	–0.3

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 2019)	
<b>Seasonally adjusted</b>			
2021 Q3	DMUN 277	DMUM 281	DMUQ 1 361
Q4	2 904	2 761	-1 660
2022 Q1	-3 093	-2 862	-2 812
Q2	3 171	2 921	2 264
Q3	-1 347	-1 192	-2 241
Q4	1 269	1 133	2 789
2023 Q1	-497	-431	2 170
Q2	2 452	2 070	1 508
Q3	-3 588	-3 004	-1 147
Q4	1 633	1 365	-2 531

<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 2022/2023 = 100

	Current prices					Chained Volume Measures (reference year 2019)				
	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
2020/21	2 086 121	2 085 084	1 884 602	495 816	68 953	1 966 153	1 765 089	395 257	68 922	94.4473
2021/22	2 354 396	2 361 920	2 103 851	512 763	73 048	2 234 338	1 997 635	463 246	70 836	93.6735
2022/23	2 556 206	2 553 880	2 310 787	526 703	80 153	2 272 704	2 029 257	457 591	71 430	100.0000
<b>Seasonally adjusted</b>										
2021 Q3	581 506	574 173	520 069	126 347	18 066	555 956	497 326	115 146	17 338	92.9972
Q4	596 674	608 389	531 982	127 250	17 928	564 407	504 035	116 404	17 339	93.9942
2022 Q1	608 329	614 472	542 303	133 146	19 375	567 396	506 542	117 600	19 268	95.3254
Q2	621 272	613 002	554 798	128 435	18 267	567 889	506 988	114 550	16 854	97.2690
Q3	630 575	628 962	561 790	132 118	19 225	567 445	506 585	115 094	17 009	98.8028
Q4	645 805	649 545	586 754	132 493	20 726	568 034	507 220	114 440	18 347	101.0842
2023 Q1	658 554	662 371	607 445	133 657	21 935	569 336	508 464	113 507	19 220	102.8440
Q2	674 271	667 844	607 783	139 874	21 568	569 364	508 313	116 224	18 751	105.2933
Q3	679 198	676 297	610 001	140 487	22 583	568 655	507 524	117 520	19 483	106.1949
Q4	677 951	683 462	608 593	142 144	24 047	566 695	505 797	117 157	20 610	106.3666
<b>Percentage change, latest financial year on previous financial year</b>										
2020/21	-6.9	-7.1	-6.0	14.6	11.9	-11.6	-11.3	-7.0	13.8	5.4
2021/22	12.9	13.3	11.6	3.4	5.9	13.6	13.2	17.2	2.8	-0.8
2022/23	8.6	8.1	9.8	2.7	9.7	1.7	1.6	-1.2	0.8	6.8
<b>Percentage change, latest quarter on previous quarter</b>										
	IHYN	A8L9	KGL8	KH2D	KH7P	IHYQ	KGM9	KH2J	KH9C	L8GH
2021 Q3	2.4	1.6	2.1	0.3	2.2	1.7	1.6	0.9	2.6	0.7
Q4	2.6	6.0	2.3	0.7	-0.8	1.5	1.3	1.1	-	1.1
2022 Q1	2.0	1.0	1.9	4.6	8.1	0.5	0.5	1.0	11.1	1.4
Q2	2.1	-0.2	2.3	-3.5	-5.7	0.1	0.1	-2.6	-12.5	2.0
Q3	1.5	2.6	1.3	2.9	5.2	-0.1	-0.1	0.5	0.9	1.6
Q4	2.4	3.3	4.4	0.3	7.8	0.1	0.1	-0.6	7.9	2.3
2023 Q1	2.0	2.0	3.5	0.9	5.8	0.2	0.2	-0.8	4.8	1.7
Q2	2.4	0.8	0.1	4.7	-1.7	-	-	2.4	-2.4	2.4
Q3	0.7	1.3	0.4	0.4	4.7	-0.1	-0.2	1.1	3.9	0.9
Q4	-0.2	1.1	-0.2	1.2	6.5	-0.3	-0.3	-0.3	5.8	0.2
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>										
	IHYO	A8LA	KGM2	KH2E	KH7R	IHYR	KGN3	KH2K	KH9M	L8GI
2021 Q3	9.0	9.7	7.8	4.1	6.9	9.5	9.1	15.2	6.5	-0.5
Q4	10.8	9.7	9.9	2.7	4.5	9.7	9.0	11.0	1.7	1.0
2022 Q1	13.1	14.5	11.8	3.1	7.4	11.4	10.8	11.1	-0.1	1.5
Q2	9.4	8.5	8.9	1.9	3.3	3.9	3.5	0.4	-0.2	5.3
Q3	8.4	9.5	8.0	4.6	6.4	2.1	1.9	-	-1.9	6.2
Q4	8.2	6.8	10.3	4.1	15.6	0.6	0.6	-1.7	5.8	7.5
2023 Q1	8.3	7.8	12.0	0.4	13.2	0.3	0.4	-3.5	-0.2	7.9
Q2	8.5	8.9	9.6	8.9	18.1	0.3	0.3	1.5	11.3	8.2
Q3	7.7	7.5	8.6	6.3	17.5	0.2	0.2	2.1	14.5	7.5
Q4	5.0	5.2	3.7	7.3	16.0	-0.2	-0.3	2.4	12.3	5.2

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 2022/2023 = 100 for presentational purposes, whereas in table A1 it is expressed as 2019 = 100.

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

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

2023 = 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
2021	89.0050	88.7332	87.6335
2022	94.4537	93.2927	92.3923
2023	100.0000	100.0000	100.0000
<b>Seasonally adjusted</b>			
2021 Q3	88.8247	88.4217	87.2259
Q4	90.2344	89.3696	88.0363
2022 Q1	91.5851	90.6353	89.3001
Q2	93.4266	92.4833	91.2773
Q3	96.0462	93.9416	92.5012
Q4	96.7567	96.1108	96.4907
2023 Q1	98.3727	97.7840	99.6489
Q2	100.0316	100.1128	99.7339
Q3	100.7342	100.9700	100.2535
Q4	100.8615	101.1332	100.3636
<b>Percentage change, latest year on previous year</b>			
	MNE3	MNF3	MNX6
2021	-	-0.3	-0.8
2022	6.1	5.1	5.4
2023	5.9	7.2	8.2
<b>Percentage change, latest quarter on previous quarter</b>			
	MNE4	MNF4	MNX7
2021 Q3	1.4	0.7	0.5
Q4	1.6	1.1	0.9
2022 Q1	1.5	1.4	1.4
Q2	2.0	2.0	2.2
Q3	2.8	1.6	1.3
Q4	0.7	2.3	4.3
2023 Q1	1.7	1.7	3.3
Q2	1.7	2.4	0.1
Q3	0.7	0.9	0.5
Q4	0.1	0.2	0.1
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>			
	MNE5	MNF5	MNX8
2021 Q3	0.1	-0.5	-1.3
Q4	1.9	1.0	0.8
2022 Q1	2.5	1.5	0.9
Q2	6.7	5.3	5.2
Q3	8.1	6.2	6.0
Q4	7.2	7.5	9.6
2023 Q1	7.4	7.9	11.6
Q2	7.1	8.2	9.3
Q3	4.9	7.5	8.4
Q4	4.2	5.2	4.0

1 Implied deflator is expressed in terms of 2023 = 100, whereas in table A1 it is expressed as 2019 = 100. This deflator is calculated in a different way to the deflators in table A1 therefore there may be slight discrepancies, as such we recommend using the deflators in table A1 where possible.

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 2019)	
		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
2021	67 026	2 284 079	34 078	2 176 203	32 468
2022	67 791	2 505 981	36 966	2 270 764	33 497
2023	68 350	2 689 974	39 356	2 274 050	33 271
<b>Seasonally adjusted</b>					
2021 Q3	67 218	581 506	8 651	555 956	8 271
Q4	67 409	596 674	8 852	564 407	8 373
2022 Q1	67 600	608 329	8 999	567 396	8 393
Q2	67 791	621 272	9 165	567 889	8 377
Q3	67 874	630 575	9 290	567 445	8 360
Q4	67 957	645 805	9 503	568 034	8 359
2023 Q1	68 211	658 554	9 655	569 336	8 347
Q2	68 350	674 271	9 865	569 364	8 330
Q3	68 519	679 198	9 913	568 655	8 299
Q4	68 688	677 951	9 870	566 695	8 250
<b>Percentage change, latest year on previous year</b>					
		IHYM	N3Y3	IHYP	N3Y6
2021		8.5	8.6	8.7	8.8
2022		9.7	8.5	4.3	3.2
2023		7.3	6.5	0.1	-0.7
<b>Percentage change, latest quarter on previous quarter</b>					
		IHYN	N3Y4	IHYQ	N3Y7
2021 Q3		2.4	2.1	1.7	1.4
Q4		2.6	2.3	1.5	1.2
2022 Q1		2.0	1.7	0.5	0.2
Q2		2.1	1.8	0.1	-0.2
Q3		1.5	1.4	-0.1	-0.2
Q4		2.4	2.3	0.1	-
2023 Q1		2.0	1.6	0.2	-0.1
Q2		2.4	2.2	-	-0.2
Q3		0.7	0.5	-0.1	-0.4
Q4		-0.2	-0.4	-0.3	-0.6
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>					
		IHYO	N3Y5	IHYR	N3Y8
2021 Q3		9.0	8.7	9.5	9.3
Q4		10.8	10.2	9.7	9.1
2022 Q1		13.1	12.1	11.4	10.5
Q2		9.4	8.2	3.9	2.7
Q3		8.4	7.4	2.1	1.1
Q4		8.2	7.4	0.6	-0.2
2023 Q1		8.3	7.3	0.3	-0.5
Q2		8.5	7.6	0.3	-0.6
Q3		7.7	6.7	0.2	-0.7
Q4		5.0	3.9	-0.2	-1.3

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 In line with National accounts revision policy (<https://www.ons.gov.uk/methodology/methodologytopicsandstatisticalconcepts/revisions/revisionspoliciesforeconomicstatistics/nationalaccountsrevisionspolicyupdateddecember2017>), 2022 is consistent with 2020-based interim population projection as published on 27 January 2023. 2023 is now consistent with 2021-based interim population projection as published on 30 January 2024 <https://www.ons.gov.uk/peoplepopulationandcommunity/populationandmigration/populationprojections/datasets/tablea11principalprojectionuksummary>.

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

# R Revisions Analysis

## Revisions since previously published estimates<sup>1</sup>

continued

£ million

		2023 Q1	2023 Q2	2023 Q3
<b>Latest less previously published levels of GDP</b>				
<b>at current market prices</b>				
<b>National accounts aggregates</b>				
<b>at current prices (Table A2)</b>				
Gross domestic product at market prices	KB7D	-1 370	-1 557	-6 006
less Basic price adjustment	KB7E	-186	150	-1 311
Gross value added at basic prices	KB7F	-1 184	-1 707	-4 695
<b>Gross domestic product:</b>				
<b>expenditure at current prices (Table C1)</b>				
National expenditure on goods and services				
at market prices				
Households	KB7K	238	798	-1 045
Non-profit institutions serving households	KB7L	-21	-27	-34
General government	KB7M	524	-229	349
Gross fixed capital formation	KB7N	216	422	805
Changes in inventories	KB7O	-1 112	334	-3 969
Acquisitions less disposals of valuables	KB7P	-669	-706	-859
Total	KB7Q	-824	592	-4 753
Total exports	KB7R	-73	-971	-681
Total imports	KB7S	1 683	1 608	971
Statistical discrepancy (expenditure)	KB7T	1 210	430	399
<b>Gross domestic product:</b>				
<b>income at current prices (Table D)</b>				
Compensation of employees	KB7U	1 700	2 316	897
Gross operating surplus of corporations	KB7V	-1 176	-3 328	-4 725
Other income	KB7W	17	88	-74
Gross value added at factor cost	KB7X	541	-924	-3 902
Taxes on products & production less Subsidies	KB7Y	-149	217	-1 261
Statistical discrepancy (income)	KB7Z	-1 762	-850	-843
		2023 Q1	2023 Q2	2023 Q3
<b>Latest less previously published growth rates</b>				
<b>for GDP in chained volume terms</b>				
<b>Percentage changes in volume of GDP (Table A2)</b>				
Gross domestic product chained volume measures				
Quarter on quarter growth	KB82	-0.1	-	-
Quarter on same quarter a year earlier	KB94	-0.1	-	-0.1
<b>Percentage changes in volume</b>				
<b>of GVA output components (Table B1)</b>				
GVA at basic prices quarter on quarter growth				
Agriculture, forestry and fishing	KB83	-	-	-
Mining and quarrying inc oil & gas extraction	KB84	-1.0	-0.2	-0.3
Manufacturing	KB85	0.2	-	0.1
Electricity, gas, steam and air	KB86	-0.1	-0.4	-0.2
Water supply, sewerage	KNT7	0.1	-	-0.4
Total Production	KB87	0.1	-	-
Construction	KB88	-0.4	-0.2	-0.3
Distribution, hotels and catering; repairs	KB89	-0.4	-	-0.1
Transport storage and communications	KB8A	-0.3	-0.5	-0.4
Business services and finance	KB8B	-	0.1	-
Government and other services	KB8C	-	0.2	0.3
Total services	KB8D	-0.1	-	-
Total GVA	KB8E	-0.1	-	-0.1
Total GVA excluding Oil	KB8F	-	-	-
<b>Percentage changes in volume of GDP</b>				
<b>expenditure components (Table C2)</b>				
National expenditure on goods and services				
at market prices quarter on quarter growth				
Households	KB8G	0.1	-	-0.4
Non-profit institutions serving households	KB8H	-0.1	-0.1	-0.1
General government	KB8I	0.3	-0.2	0.3
Gross fixed capital formation	KB8J	0.1	0.1	0.2
Total	KB8K	-	0.2	-0.2
Total exports	KB8L	0.1	-0.4	-0.2
Total imports	KB8M	0.4	-0.1	-0.8

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

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

## Chained Volume Measures

Seasonally adjusted data

Reference year 2019

	Agri- culture, forestry, and fishing	Total Production	Mining & quarrying inc oil & gas extract	Manu- facturing	Electric, gas, steam & air	Water supply, sewerage	Constr uction <sup>3</sup>	Total Services	Distri- bution, hotels & catering	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>												
2021	L3BB -6.8	L3BG -3.9	L3BH -23.4	L3BN 1.6	L3DM -32.1	L3DQ 4.4	L3DW 9.8	L3E2 10.9	L3GP 21.1	KI8L 8.4	KI8N 5.2	KI8P 16.9
2022	1.5	-3.4	-1.0	-3.3	-11.2	0.3	6.8	5.6	5.1	8.5	2.7	9.4
2023	-0.2	-0.3	-14.3	1.2	-1.8	-2.6	2.0	0.3	-1.7	0.5	0.7	1.0
<b>Contributions to growth<sup>2</sup></b>												
2021	ZZ3V -0.05	ZZ3W -0.61	ZZ3Y -0.27	ZZ3X 0.18	ZZ3Z -0.57	ZZ42 0.06	ZZ43 0.59	ZZ44 8.49	ZZ45 2.46	ZZ46 0.88	ZZ47 1.90	ZZ48 3.24
2022	0.01	-0.47	-0.01	-0.35	-0.12	-	0.42	4.45	0.66	0.89	0.94	1.96
2023	-	-0.04	-0.11	0.12	-0.02	-0.03	0.12	0.28	-0.22	0.05	0.23	0.22
<b>Percentage change, latest quarter on previous quarter</b>												
<b>Growth</b>												
2021 Q3	L3BB 2.1	L3BG -2.4	L3BH 15.4	L3BN -2.1	L3DM -18.4	L3DQ -0.3	L3DW -1.9	L3E2 2.5	L3GP 4.8	KI8L 1.8	KI8N 0.2	KI8P 5.3
Q4	0.3	-0.5	-5.3	-0.1	-2.2	0.8	1.5	1.6	-2.8	2.5	0.9	5.3
2022 Q1	-0.4	-	3.0	-0.7	5.1	-	3.2	0.7	0.2	3.4	0.4	0.3
Q2	0.7	-0.6	1.8	-1.0	-0.7	0.9	1.8	0.1	0.3	-0.2	1.1	-1.5
Q3	-	-1.5	-2.8	-1.4	-0.8	-1.4	1.0	-	-1.4	1.6	0.2	-0.2
Q4	-0.5	-	-5.7	0.7	-1.0	-0.8	1.9	0.4	0.1	0.1	0.5	0.4
2023 Q1	-	0.1	-8.3	0.6	1.5	0.3	-0.4	0.3	-0.8	1.1	0.3	0.5
Q2	-	0.9	-0.9	1.7	-2.8	-1.6	0.2	-0.1	-0.1	-0.8	-0.4	0.7
Q3	0.2	0.1	-0.1	0.2	1.7	-1.5	0.1	-0.2	-0.2	-1.6	-0.2	0.5
Q4	0.2	-1.0	-3.0	-0.9	-2.6	0.5	-1.3	-0.2	-0.5	-0.2	0.1	-0.4
<b>Contributions to growth<sup>2</sup></b>												
2021 Q3	ZZ2F 0.01	ZZ2G -0.33	ZZ2I 0.11	ZZ2H -0.22	ZZ2J -0.22	ZZ2K -	ZZ2L -0.12	ZZ2M 1.99	ZZ2N 0.65	ZZ2O 0.19	ZZ2P 0.06	ZZ2Q 1.08
Q4	-	-0.06	-0.04	-0.01	-0.02	0.01	0.09	1.32	-0.38	0.26	0.31	1.12
2022 Q1	-	-	0.02	-0.07	0.05	-	0.19	0.57	0.03	0.35	0.12	0.07
Q2	-	-0.08	0.01	-0.10	-0.01	0.01	0.11	0.07	0.04	-0.02	0.39	-0.34
Q3	-	-0.19	-0.02	-0.14	-0.01	-0.02	0.07	0.02	-0.19	0.17	0.08	-0.04
Q4	-	-	-0.04	0.06	-0.01	-0.01	0.12	0.30	0.02	0.01	0.18	0.09
2023 Q1	-	0.01	-0.06	0.06	0.01	-	-0.02	0.23	-0.11	0.13	0.10	0.11
Q2	-	0.11	-0.01	0.17	-0.03	-0.02	0.02	-0.11	-0.02	-0.09	-0.14	0.14
Q3	-	0.02	-	0.02	0.02	-0.02	0.01	-0.17	-0.03	-0.18	-0.07	0.10
Q4	-	-0.13	-0.02	-0.09	-0.02	0.01	-0.08	-0.13	-0.07	-0.02	0.03	-0.08
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>												
<b>Growth</b>												
2021 Q3	L3ZZ -4.4	L426 -9.3	L427 -21.0	L42D -4.9	L44C -41.2	L44G 3.6	L44M 5.1	L44Q 13.4	L47F 18.8	KI12 9.9	KI19 6.3	KI18 25.3
Q4	-0.7	-10.1	-18.7	-6.9	-37.7	1.7	3.2	13.4	23.1	9.7	4.4	26.5
2022 Q1	2.8	-5.4	-8.6	-3.5	-25.0	0.8	7.0	14.7	27.3	14.4	3.2	29.7
Q2	2.7	-3.5	14.6	-3.9	-16.6	1.4	4.6	5.0	2.4	7.7	2.6	9.5
Q3	0.6	-2.6	-3.5	-3.2	1.3	0.3	7.7	2.5	-3.7	7.4	2.7	3.8
Q4	-0.3	-2.1	-3.8	-2.5	2.4	-1.3	8.1	1.2	-0.8	4.9	2.2	-1.0
2023 Q1	0.1	-2.0	-14.4	-1.2	-1.1	-1.0	4.5	0.8	-1.8	2.6	2.2	-0.8
Q2	-0.6	-0.5	-16.6	1.5	-3.2	-3.5	2.9	0.5	-2.2	2.0	0.6	1.4
Q3	-0.4	1.1	-14.3	3.2	-0.7	-3.6	2.0	0.3	-1.0	-1.2	0.2	2.1
Q4	0.3	0.1	-11.9	1.6	-2.3	-2.3	-1.3	-0.2	-1.7	-1.4	-0.2	1.3
<b>Contributions to growth<sup>2</sup></b>												
2021 Q3	ZZ36 -0.03	ZZ37 -1.48	ZZ39 -0.24	ZZ38 -0.57	ZZ3A -0.72	ZZ3B 0.05	ZZ3C 0.31	ZZ3D 10.35	ZZ3E 2.39	ZZ3F 1.03	ZZ3G 2.23	ZZ3H 4.70
Q4	-	-1.58	-0.20	-0.81	-0.60	0.02	0.20	10.35	2.71	1.02	1.57	5.05
2022 Q1	0.02	-0.82	-0.08	-0.39	-0.35	0.01	0.44	11.43	3.15	1.51	1.17	5.60
Q2	0.02	-0.48	0.11	-0.41	-0.20	0.02	0.28	3.99	0.33	0.80	0.92	1.95
Q3	-	-0.34	-0.03	-0.33	0.01	-	0.46	2.00	-0.51	0.78	0.92	0.81
Q4	-	-0.28	-0.03	-0.25	0.02	-0.02	0.49	0.97	-0.11	0.51	0.77	-0.21
2023 Q1	-	-0.26	-0.12	-0.12	-0.01	-0.01	0.27	0.62	-0.24	0.28	0.74	-0.17
Q2	-	-0.06	-0.14	0.15	-0.03	-0.05	0.18	0.44	-0.30	0.22	0.20	0.31
Q3	-	0.14	-0.11	0.31	-0.01	-0.05	0.12	0.25	-0.14	-0.13	0.06	0.45
Q4	-	0.01	-0.09	0.15	-0.02	-0.03	-0.08	-0.18	-0.22	-0.16	-0.09	0.28

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 Short Guide to National Accounts

3 For the most accurate figures on construction, please refer to the Construction output in Great Britain release.

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

## Chained Volume Measures

Seasonally adjusted data

Reference year 2019

	Final consumption expenditure								Net trade
	Households	Non-profit institutions <sup>3,4</sup>	General government	Gross capital formation	Gross fixed capital formation	Business investment	Total exports	less Total imports	
<b>Percentage change, latest year on previous year</b>									
<b>Growth</b>									
	KGZ5	KH26	KH2I	ZZ6H	KG7N	KG7M	KH2U	KH3N	
2021	7.5	7.1	14.9	8.3	7.4	2.0	4.9	6.1	
2022	4.8	12.2	2.3	7.1	8.0	9.6	9.0	14.6	
2023	0.3	2.1	0.6	-0.3	2.9	6.1	-1.4	-1.6	
<b>Contributions to growth</b>									
	ZZ6M	ZZ6N	ZZ6O	ZZ6P	ZZ6Q	ZZ6R	ZZ6S	ZZ6T	ZZ6U
2021	4.46	0.14	2.92	1.51	1.35	0.20	1.54	1.90	-0.36
2022	2.81	0.24	0.47	1.28	1.44	0.92	2.71	4.42	-1.71
2023	0.19	0.04	0.12	-0.06	0.55	0.61	-0.43	-0.54	0.11
<b>Percentage change, latest quarter on previous quarter</b>									
<b>Growth</b>									
	KGZ6	KH27	KH2J	ZZ5H	KG7Q	KG7P	KH2V	KH3O	
2021 Q3	2.9	3.5	0.9	13.9	-0.6	-1.2	-4.4	4.2	
Q4	0.3	1.1	1.1	-6.1	0.5	0.8	10.1	2.1	
2022 Q1	0.7	4.3	1.0	23.6	5.1	3.1	-7.6	9.5	
Q2	0.3	2.4	-2.6	-4.0	0.4	3.1	5.8	2.0	
Q3	-0.9	0.3	0.5	-19.1	1.7	2.2	11.0	-3.1	
Q4	-0.1	0.5	-0.6	0.8	0.6	0.4	0.3	0.5	
2023 Q1	0.9	0.6	-0.8	11.1	2.5	4.2	-6.1	-1.2	
Q2	0.5	0.3	2.4	1.1	-0.9	0.9	-0.8	1.9	
Q3	-0.9	0.4	1.1	-1.1	-1.4	-2.8	-0.8	-1.8	
Q4	-0.1	-0.1	-0.3	2.4	1.4	1.5	-2.9	-0.8	
<b>Contributions to growth</b>									
	ZZ5M	ZZ5N	ZZ5O	ZZ5P	ZZ5Q	ZZ5R	ZZ5S	ZZ5T	ZZ5U
2021 Q3	1.74	0.07	0.19	2.30	-0.12	-0.12	-1.33	1.26	-2.59
Q4	0.16	0.02	0.23	-1.13	0.10	0.07	2.89	0.65	2.24
2022 Q1	0.39	0.08	0.21	4.06	0.90	0.29	-2.37	2.91	-5.28
Q2	0.20	0.05	-0.54	-0.84	0.08	0.30	1.66	0.65	1.01
Q3	-0.57	0.01	0.10	-3.88	0.32	0.22	3.34	-1.07	4.40
Q4	-0.06	0.01	-0.12	0.13	0.11	0.04	0.11	0.17	-0.05
2023 Q1	0.53	0.01	-0.16	1.83	0.48	0.43	-2.06	-0.39	-1.67
Q2	0.29	0.01	0.48	0.20	-0.17	0.09	-0.25	0.61	-0.86
Q3	-0.52	0.01	0.23	-0.20	-0.26	-0.30	-0.25	-0.61	0.35
Q4	-0.08	-	-0.06	0.44	0.27	0.16	-0.90	-0.26	-0.63
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>									
<b>Growth</b>									
	KGZ7	KH28	KH2K	ZZ5Y	KG7T	KG7S	KH2W	KH3P	
2021 Q3	9.2	13.0	15.2	12.1	8.2	5.8	7.1	12.1	
Q4	11.5	8.8	11.0	-13.6	2.7	1.0	11.4	-0.1	
2022 Q1	16.1	22.9	11.1	16.2	10.7	14.5	4.8	21.1	
Q2	4.2	11.7	0.4	26.9	5.5	5.8	2.9	18.9	
Q3	0.3	8.3	-	-9.8	8.0	9.5	19.5	10.5	
Q4	-0.1	7.6	-1.7	-3.2	8.0	9.1	8.9	8.7	
2023 Q1	0.2	3.8	-3.5	-13.0	5.4	10.3	10.7	-1.9	
Q2	0.3	1.7	1.5	-8.4	4.0	7.9	3.8	-2.0	
Q3	0.4	1.8	2.1	12.0	0.8	2.6	-7.3	-0.7	
Q4	0.4	1.2	2.4	13.8	1.7	3.7	-10.3	-2.0	
<b>Contributions to growth</b>									
	ZZ65	ZZ66	ZZ67	ZZ68	ZZ69	ZZ6A	ZZ6B	ZZ6C	ZZ6D
2021 Q3	5.56	0.25	3.00	2.19	1.47	0.57	2.09	3.57	-1.48
Q4	6.74	0.17	2.25	-2.98	0.51	0.10	3.49	-0.03	3.52
2022 Q1	9.20	0.42	2.30	3.29	1.97	1.37	1.46	6.45	-4.98
Q2	2.51	0.23	0.08	4.48	0.99	0.57	0.88	5.59	-4.72
Q3	0.17	0.16	-0.01	-1.83	1.41	0.91	5.58	3.18	2.40
Q4	-0.05	0.15	-0.35	-0.56	1.40	0.86	2.77	2.66	0.10
2023 Q1	0.10	0.08	-0.72	-2.76	0.98	1.00	3.05	-0.63	3.68
Q2	0.20	0.04	0.29	-1.71	0.73	0.79	1.14	-0.67	1.82
Q3	0.25	0.04	0.43	1.97	0.15	0.27	-2.45	-0.22	-2.23
Q4	0.22	0.03	0.48	2.28	0.31	0.38	-3.46	-0.65	-2.81

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

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

3 Non-profit institutions serving households

4 There is a small difference between the gross operating surplus of the Non-profit Institutions Serving households (NPISH) sector in the Table 6.3.3 of the UK Economic Accounts dataset, compared with the consumption of fixed capital for the NPISH sector published in the GDP release. This difference has been addressed from 2021 Q1. Remaining differences will be corrected when revisions policy allows. The latest figures can be found in the UK Economic Accounts dataset.



# 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>				
	KG13	KH4V	KH6T	KH65
2021	5.6	5.3	3.8	58.7
2022	7.5	10.5	8.0	33.8
2023	7.1	5.1	12.6	-0.2
<b>Contributions to growth</b>				
	ZZ7H	ZZ7I	ZZ7J	ZZ7K
2021	2.89	1.21	0.71	3.69
2022	3.80	2.32	1.44	3.12
2023	3.50	1.13	2.23	-0.02
<b>Percentage change, latest quarter on previous quarter</b>				
<b>Growth</b>				
	KG14	KH4W	KH6U	KH66
2021 Q3	1.2	-1.1	-0.3	24.9
Q4	1.1	1.0	1.3	15.8
2022 Q1	2.8	2.4	3.4	2.7
Q2	1.4	5.6	1.1	2.4
Q3	1.8	-1.6	2.8	3.4
Q4	2.0	9.6	4.2	-12.4
2023 Q1	2.0	4.3	4.9	-11.9
Q2	2.1	-5.6	1.4	26.2
Q3	1.1	-3.0	2.4	3.9
Q4	0.5	-3.1	0.5	1.0
<b>Contributions to growth</b>				
	ZZ6Z	ZZ72	ZZ73	ZZ74
2021 Q3	0.63	-0.26	-0.05	2.08
Q4	0.55	0.22	0.23	1.60
2022 Q1	1.41	0.53	0.62	0.32
Q2	0.67	1.19	0.19	0.27
Q3	0.88	-0.37	0.49	0.40
Q4	0.97	2.07	0.74	-1.46
2023 Q1	1.02	1.01	0.90	-1.21
Q2	1.02	-1.33	0.27	2.30
Q3	0.50	-0.63	0.43	0.40
Q4	0.28	-0.70	0.10	0.12
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>				
<b>Growth</b>				
	KG15	KH4X	KH6V	KH67
2021 Q3	6.7	1.2	3.4	70.6
Q4	5.1	9.2	3.9	72.6
2022 Q1	8.2	10.2	5.4	96.8
Q2	6.6	7.9	5.6	52.0
Q3	7.2	7.4	8.9	25.9
Q4	8.1	16.5	12.0	-4.8
2023 Q1	7.3	18.7	13.6	-18.3
Q2	8.1	6.2	13.9	0.8
Q3	7.3	4.7	13.5	1.2
Q4	5.8	-7.4	9.5	16.7
<b>Contributions to growth</b>				
	ZZ79	ZZ7A	ZZ7B	ZZ7C
2021 Q3	3.46	0.29	0.64	4.61
Q4	2.67	2.02	0.74	5.37
2022 Q1	4.28	2.28	1.04	6.45
Q2	3.36	1.80	1.03	4.34
Q3	3.60	1.61	1.57	2.62
Q4	4.00	3.55	2.09	-0.55
2023 Q1	3.67	4.07	2.42	-2.13
Q2	3.98	1.38	2.44	0.09
Q3	3.62	1.02	2.41	0.15
Q4	2.87	-1.72	1.73	1.70

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 2019

	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
2021	2.5	-2.2	-6.9	2.3	2.3	3.1	4.6
2022	8.3	-4.2	1.2	6.3	5.3	13.7	16.2
2023	7.1	3.8	5.1	3.3	4.2	4.0	0.7
<b>Percentage change, latest quarter on previous quarter</b>							
	ZZ8N	ZZ8O	ZZ8P	ZZ8Q	ZZ8R	ZZ8S	ZZ8T
2021 Q3	1.2	0.5	-0.7	5.1	6.1	0.2	2.9
Q4	1.4	1.1	-0.4	4.8	-0.2	3.8	5.4
2022 Q1	2.3	-4.0	3.6	-2.9	0.1	4.1	3.7
Q2	3.0	-0.9	-1.0	2.6	2.1	5.0	4.6
Q3	2.4	1.4	2.4	5.0	1.5	2.9	7.0
Q4	2.4	0.9	0.9	-5.0	1.0	1.7	-2.5
2023 Q1	1.9	1.0	1.7	1.5	0.8	0.6	0.2
Q2	1.3	1.2	2.2	2.3	0.8	-0.4	-2.4
Q3	0.6	0.9	-0.7	2.6	1.0	-0.6	-1.0
Q4	0.5	1.0	1.5	-2.7	0.9	1.3	1.1
<b>Percentage change, latest quarter on corresponding quarter of previous year</b>							
	ZZ8U	ZZ8V	ZZ8W	ZZ8X	ZZ8Y	ZZ8Z	ZZ92
2021 Q3	2.5	-2.2	-9.6	4.9	4.6	2.9	5.4
Q4	3.9	1.3	-7.5	7.9	5.6	5.7	8.6
2022 Q1	5.3	-8.6	-7.2	7.9	4.8	9.2	12.0
Q2	8.2	-3.3	1.5	9.8	8.3	13.7	17.7
Q3	9.4	-2.5	4.6	9.7	3.6	16.8	22.4
Q4	10.4	-2.7	5.9	-0.6	4.8	14.4	13.3
2023 Q1	9.9	2.4	4.0	3.8	5.6	10.6	9.4
Q2	8.1	4.5	7.3	3.5	4.2	4.8	2.0
Q3	6.3	4.0	4.1	1.1	3.7	1.2	-5.7
Q4	4.4	4.2	4.8	3.7	3.5	0.8	-2.2

<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 2019

	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 & catering	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
2021	-6.8	-3.9	-23.4	1.6	-32.1	4.4	9.8	10.9	21.1	8.4	5.2	16.9
2022	1.5	-3.4	-1.0	-3.3	-11.2	0.3	6.8	5.6	5.1	8.5	2.7	9.4
2023	-0.2	-0.3	-14.3	1.2	-1.8	-2.6	2.0	0.3	-1.7	0.5	0.7	1.0
<b>Previous estimates<sup>2</sup></b>												
	A2EQ	A2ER	A2ET	A2ES	A2EU	A2EV	A2EW	A2EY	A2F2	A2F3	A2F4	A2F5
2020	-9.3	2.3	0.1	2.2	5.0	1.6	-12.6	-11.9	-20.6	-8.8	-3.7	-20.7
2021	-6.8	-3.9	-23.4	1.6	-32.1	4.4	9.8	10.9	21.1	8.4	5.2	16.9
2022	1.5	-3.4	-1.0	-3.3	-11.2	0.3	6.8	5.6	5.1	8.5	2.7	9.4
<b>Revisions</b>												
	ZZ52	ZZ53	ZZ55	ZZ54	ZZ56	ZZ57	ZZ58	ZZ59	ZZ5A	ZZ5B	ZZ5C	ZZ5D
2020	-	-	-	-	-	-	-	-	-	-	-	-
2021	-	-	-	-	-	-	-	-	-	-	-	-
2022	-	-	-	-	-	-	-	-	-	-	-	-
<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
2021 Q3	2.1	-2.4	15.4	-2.1	-18.4	-0.3	-1.9	2.5	4.8	1.8	0.2	5.3
Q4	0.3	-0.5	-5.3	-0.1	-2.2	0.8	1.5	1.6	-2.8	2.5	0.9	5.3
2022 Q1	-0.4	-	3.0	-0.7	5.1	-	3.2	0.7	0.2	3.4	0.4	0.3
Q2	0.7	-0.6	1.8	-1.0	-0.7	0.9	1.8	0.1	0.3	-0.2	1.1	-1.5
Q3	-	-1.5	-2.8	-1.4	-0.8	-1.4	1.0	-	-1.4	1.6	0.2	-0.2
Q4	-0.5	-	-5.7	0.7	-1.0	-0.8	1.9	0.4	0.1	0.1	0.5	0.4
2023 Q1	-	0.1	-8.3	0.6	1.5	0.3	-0.4	0.3	-0.8	1.1	0.3	0.5
Q2	-	0.9	-0.9	1.7	-2.8	-1.6	0.2	-0.1	-0.1	-0.8	-0.4	0.7
Q3	0.2	0.1	-0.1	0.2	1.7	-1.5	0.1	-0.2	-0.2	-1.6	-0.2	0.5
Q4	0.2	-1.0	-3.0	-0.9	-2.6	0.5	-1.3	-0.2	-0.5	-0.2	0.1	-0.4
<b>Previous estimates<sup>2</sup></b>												
	A2CX	A2CY	A2DO	A2DL	A2DR	A2DS	A2DT	A2DU	A2DV	A2DW	A2DX	A2DY
2021 Q3	2.1	-2.4	15.4	-2.1	-18.4	-0.3	-1.9	2.5	4.8	1.8	0.2	5.3
Q4	0.3	-0.5	-5.3	-0.1	-2.2	0.8	1.5	1.6	-2.8	2.5	0.9	5.3
2022 Q1	-0.4	-	3.0	-0.7	5.1	-	3.2	0.7	0.2	3.4	0.4	0.3
Q2	0.7	-0.6	1.8	-1.0	-0.7	0.9	1.8	0.1	0.3	-0.2	1.1	-1.5
Q3	-	-1.5	-2.8	-1.4	-0.8	-1.4	1.0	-	-1.4	1.6	0.2	-0.2
Q4	-0.5	-	-5.7	0.7	-1.0	-0.8	1.9	0.4	0.1	0.1	0.5	0.4
2023 Q1	-	-	-7.3	0.4	1.6	0.2	-	0.4	-0.4	1.4	0.3	0.5
Q2	-	0.9	-0.7	1.7	-2.4	-1.6	0.4	-0.1	-0.1	-0.3	-0.5	0.5
Q3	0.2	0.1	0.2	0.1	1.9	-1.1	0.4	-0.2	-0.1	-1.2	-0.2	0.2
<b>Revisions</b>												
	ZZ4A	ZZ4B	ZZ4D	ZZ4C	ZZ4E	ZZ4F	ZZ4G	ZZ4H	ZZ4I	ZZ4J	ZZ4K	ZZ4L
2021 Q3	-	-	-	-	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-	-	-	-	-
2022 Q1	-	-	-	-	-	-	-	-	-	-	-	-
Q2	-	-	-	-	-	-	-	-	-	-	-	-
Q3	-	-	-	-	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-	-	-	-	-
2023 Q1	-	0.1	-1.0	0.2	-0.1	0.1	-0.4	-0.1	-0.4	-0.3	-	-
Q2	-	-	-0.2	-	-0.4	-	-0.2	-	-	-0.5	0.1	0.2
Q3	-	-	-0.3	0.1	-0.2	-0.4	-0.3	-	-0.1	-0.4	-	0.3

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

2 Previous estimate refers to estimates from the Quarterly National Accounts

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

# 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 2019

	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 & catering	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>												
2021 Q3	L3ZZ -4.4	L426 -9.3	L427 -21.0	L42D -4.9	L44C -41.2	L44G 3.6	L44M 5.1	L44Q 13.4	L47F 18.8	KII2 9.9	KIH9 6.3	KIH8 25.3
Q4	-0.7	-10.1	-18.7	-6.9	-37.7	1.7	3.2	13.4	23.1	9.7	4.4	26.5
2022 Q1	2.8	-5.4	-8.6	-3.5	-25.0	0.8	7.0	14.7	27.3	14.4	3.2	29.7
Q2	2.7	-3.5	14.6	-3.9	-16.6	1.4	4.6	5.0	2.4	7.7	2.6	9.5
Q3	0.6	-2.6	-3.5	-3.2	1.3	0.3	7.7	2.5	-3.7	7.4	2.7	3.8
Q4	-0.3	-2.1	-3.8	-2.5	2.4	-1.3	8.1	1.2	-0.8	4.9	2.2	-1.0
2023 Q1	0.1	-2.0	-14.4	-1.2	-1.1	-1.0	4.5	0.8	-1.8	2.6	2.2	-0.8
Q2	-0.6	-0.5	-16.6	1.5	-3.2	-3.5	2.9	0.5	-2.2	2.0	0.6	1.4
Q3	-0.4	1.1	-14.3	3.2	-0.7	-3.6	2.0	0.3	-1.0	-1.2	0.2	2.1
Q4	0.3	0.1	-11.9	1.6	-2.3	-2.3	-1.3	-0.2	-1.7	-1.4	-0.2	1.3
<b>Previous estimates<sup>2</sup></b>												
2021 Q3	A2DZ -4.4	A2E2 -9.3	A2E4 -21.0	A2E3 -4.9	A2E5 -41.2	A2EE 3.6	A2EK 5.1	A2EL 13.4	A2EM 18.8	A2EN 9.9	A2EO 6.3	A2EP 25.3
Q4	-0.7	-10.1	-18.7	-6.9	-37.7	1.7	3.2	13.4	23.1	9.7	4.4	26.5
2022 Q1	2.8	-5.4	-8.6	-3.5	-25.0	0.8	7.0	14.7	27.3	14.4	3.2	29.7
Q2	2.7	-3.5	14.6	-3.9	-16.6	1.4	4.6	5.0	2.4	7.7	2.6	9.5
Q3	0.6	-2.6	-3.5	-3.2	1.3	0.3	7.7	2.5	-3.7	7.4	2.7	3.8
Q4	-0.3	-2.1	-3.8	-2.5	2.4	-1.3	8.1	1.2	-0.8	4.9	2.2	-1.0
2023 Q1	0.1	-2.1	-13.5	-1.4	-0.9	-1.1	4.9	0.9	-1.4	2.9	2.2	-0.8
Q2	-0.6	-0.5	-15.6	1.3	-2.6	-3.6	3.4	0.7	-1.8	2.8	0.5	1.3
Q3	-0.3	1.1	-12.9	2.9	0.1	-3.4	2.8	0.4	-0.5	-	-	1.7
<b>Revisions</b>												
2021 Q3	ZZ4N -	ZZ4O -	ZZ4Q -	ZZ4P -	ZZ4R -	ZZ4S -	ZZ4T -	ZZ4U -	ZZ4V -	ZZ4W -	ZZ4X -	ZZ4Y -
Q4	-	-	-	-	-	-	-	-	-	-	-	-
2022 Q1	-	-	-	-	-	-	-	-	-	-	-	-
Q2	-	-	-	-	-	-	-	-	-	-	-	-
Q3	-	-	-	-	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-	-	-	-	-
2023 Q1	-	0.1	-0.9	0.2	-0.2	0.1	-0.4	-0.1	-0.4	-0.3	-	-
Q2	-	-	-1.0	0.2	-0.6	0.1	-0.5	-0.2	-0.4	-0.8	0.1	0.1
Q3	-0.1	-	-1.4	0.3	-0.8	-0.2	-0.8	-0.1	-0.5	-1.2	0.2	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 Quarterly National Accounts

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

# 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 2019

	Final consumption expenditure							
	Households	Non-profit institutions <sup>3,5</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
2021	7.5	7.1	14.9	8.3	7.4	2.0	4.9	6.1
2022	4.8	12.2	2.3	7.1	8.0	9.6	9.0	14.6
2023	0.3	2.1	0.6	-0.3	2.9	6.1	-1.4	-1.6
<b>Previous estimates<sup>2</sup></b>								
	A275	A276	A289	A28J	A28L	A29D	A29F	A2CK
2020	-13.0	-20.8	-7.9	-11.2	-10.8	-10.6	-11.5	-16.0
2021	7.5	7.1	14.9	8.3	7.4	2.0	4.9	6.1
2022	4.8	12.2	2.3	7.1	8.0	9.6	9.0	14.6
<b>Revisions</b>								
	ZZ83	ZZ84	ZZ85	ZZ86	ZZ87	ZZ88	ZZ89	ZZ8A
2020	-	-	-	-	-	-	-	-
2021	-	-	-	-	-	-	-	-
2022	-	-	-	-	-	-	-	-
<b>Percentage change, latest quarter on previous quarter</b>								
<b>Current estimates<sup>4</sup></b>								
	KGZ6	KH27	KH2J	ZZ5H	KG7Q	KG7P	KH2V	KH3O
2021 Q3	2.9	3.5	0.9	13.9	-0.6	-1.2	-4.4	4.2
Q4	0.3	1.1	1.1	-6.1	0.5	0.8	10.1	2.1
2022 Q1	0.7	4.3	1.0	23.6	5.1	3.1	-7.6	9.5
Q2	0.3	2.4	-2.6	-4.0	0.4	3.1	5.8	2.0
Q3	-0.9	0.3	0.5	-19.1	1.7	2.2	11.0	-3.1
Q4	-0.1	0.5	-0.6	0.8	0.6	0.4	0.3	0.5
2023 Q1	0.9	0.6	-0.8	11.1	2.5	4.2	-6.1	-1.2
Q2	0.5	0.3	2.4	1.1	-0.9	0.9	-0.8	1.9
Q3	-0.9	0.4	1.1	-1.1	-1.4	-2.8	-0.8	-1.8
Q4	-0.1	-0.1	-0.3	2.4	1.4	1.5	-2.9	-0.8
<b>Previous estimates<sup>2</sup></b>								
	A24M	A24X	A24Y	A25I	A25J	A25M	A264	A268
2021 Q3	2.9	3.5	0.9	13.9	-0.6	-1.2	-4.4	4.2
Q4	0.3	1.1	1.1	-6.1	0.5	0.8	10.1	2.1
2022 Q1	0.7	4.3	1.0	23.6	5.1	3.1	-7.6	9.5
Q2	0.3	2.4	-2.6	-4.0	0.4	3.1	5.8	2.0
Q3	-0.9	0.3	0.5	-19.1	1.7	2.2	11.0	-3.1
Q4	-0.1	0.5	-0.6	0.8	0.6	0.4	0.3	0.5
2023 Q1	0.8	0.7	-1.1	12.2	2.4	3.8	-6.2	-1.6
Q2	0.5	0.4	2.6	-0.1	-1.0	1.4	-0.4	2.0
Q3	-0.5	0.5	0.8	-0.8	-1.6	-3.2	-0.6	-1.0
<b>Revisions</b>								
	ZZ7L	ZZ7M	ZZ7N	ZZ7O	ZZ7P	ZZ7Q	ZZ7R	ZZ7S
2021 Q3	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-
2022 Q1	-	-	-	-	-	-	-	-
Q2	-	-	-	-	-	-	-	-
Q3	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-
2023 Q1	0.1	-0.1	0.3	-1.1	0.1	0.4	0.1	0.4
Q2	-	-0.1	-0.2	1.2	0.1	-0.5	-0.4	-0.1
Q3	-0.4	-0.1	0.3	-0.3	0.2	0.4	-0.2	-0.8

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

2 Previous estimates refers to estimates from the Quarterly National Accounts

3 Non-profit institutions serving households

4 Current estimates refers to the estimates within this publication (GDP first quarterly estimate)

5 There is a small difference between the gross operating surplus of the Non-profit Institutions Serving households (NPISH) sector in the Table 6.3.3 of the UK Economic Accounts dataset, compared with the consumption of fixed capital for the NPISH sector published in the GDP release. This difference has been addressed from 2021 Q1. Remaining differences will be corrected when revisions policy allows. The latest figures can be found in the UK Economic Accounts dataset.

# 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 2019

	Final consumption expenditure							Total exports	less Total imports
	Households	Non-profit institutions <sup>3, 5</sup>	General government	Gross capital formation	Gross fixed capital formation	Business investment			
<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	
2021 Q3	9.2	13.0	15.2	12.1	8.2	5.8	7.1	12.1	
Q4	11.5	8.8	11.0	-13.6	2.7	1.0	11.4	-0.1	
2022 Q1	16.1	22.9	11.1	16.2	10.7	14.5	4.8	21.1	
Q2	4.2	11.7	0.4	26.9	5.5	5.8	2.9	18.9	
Q3	0.3	8.3	-	-9.8	8.0	9.5	19.5	10.5	
Q4	-0.1	7.6	-1.7	-3.2	8.0	9.1	8.9	8.7	
2023 Q1	0.2	3.8	-3.5	-13.0	5.4	10.3	10.7	-1.9	
Q2	0.3	1.7	1.5	-8.4	4.0	7.9	3.8	-2.0	
Q3	0.4	1.8	2.1	12.0	0.8	2.6	-7.3	-0.7	
Q4	0.4	1.2	2.4	13.8	1.7	3.7	-10.3	-2.0	
<b>Previous estimates<sup>2</sup></b>									
	A26C	A26H	A26I	A26J	A26K	A26L	A26M	A26N	
2021 Q3	9.2	13.0	15.2	12.1	8.2	5.8	7.1	12.1	
Q4	11.5	8.8	11.0	-13.6	2.7	1.0	11.4	-0.1	
2022 Q1	16.1	22.9	11.1	16.2	10.7	14.5	4.8	21.1	
Q2	4.2	11.7	0.4	26.9	5.5	5.8	2.9	18.9	
Q3	0.3	8.3	-	-9.8	8.0	9.5	19.5	10.5	
Q4	-0.1	7.6	-1.7	-3.2	8.0	9.1	8.9	8.7	
2023 Q1	0.1	3.9	-3.7	-12.1	5.3	9.9	10.6	-2.3	
Q2	0.2	1.9	1.4	-8.6	3.8	8.0	4.1	-2.3	
Q3	0.7	2.1	1.7	12.2	0.4	2.3	-6.8	-0.1	
<b>Revisions</b>									
	ZZ7T	ZZ7U	ZZ7V	ZZ7W	ZZ7X	ZZ7Y	ZZ7Z	ZZ82	
2021 Q3	-	-	-	-	-	-	-	-	
Q4	-	-	-	-	-	-	-	-	
2022 Q1	-	-	-	-	-	-	-	-	
Q2	-	-	-	-	-	-	-	-	
Q3	-	-	-	-	-	-	-	-	
Q4	-	-	-	-	-	-	-	-	
2023 Q1	0.1	-0.1	0.2	-0.9	0.1	0.4	0.1	0.4	
Q2	0.1	-0.2	0.1	0.2	0.2	-0.1	-0.3	0.3	
Q3	-0.3	-0.3	0.4	-0.2	0.4	0.3	-0.5	-0.6	

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 estimates refers to the estimates from Quarterly National Accounts

3 Non-profit institutions serving households

4 Current estimates refers to the estimates within this publication (GDP first quarterly estimate)

5 There is a small difference between the gross operating surplus of the Non-profit Institutions Serving households (NPISH) sector in the Table 6.3.3 of the UK Economic Accounts dataset, compared with the consumption of fixed capital for the NPISH sector published in the GDP release. This difference has been addressed from 2021 Q1. Remaining differences will be corrected when revisions policy allows. The latest figures can be found in the UK Economic Accounts dataset.

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

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
2021	5.6	5.3	3.8	58.7
2022	7.5	10.5	8.0	33.8
2023	7.1	5.1	12.6	-0.2
<b>Previous estimates<sup>2</sup></b>				
	A2CT	A2CU	A2CV	A2CW
2020	0.7	-1.3	0.5	-49.9
2021	5.6	5.3	3.8	58.7
2022	7.5	10.5	8.0	33.8
<b>Revisions</b>				
	ZZ8J	ZZ8K	ZZ8L	ZZ8M
2020	-	-	-	-
2021	-	-	-	-
2022	-	-	-	-
<b>Percentage change, latest quarter on previous quarter</b>				
<b>Current estimates<sup>3</sup></b>				
	KGI4	KH4W	KH6U	KH66
2021 Q3	1.2	-1.1	-0.3	24.9
Q4	1.1	1.0	1.3	15.8
2022 Q1	2.8	2.4	3.4	2.7
Q2	1.4	5.6	1.1	2.4
Q3	1.8	-1.6	2.8	3.4
Q4	2.0	9.6	4.2	-12.4
2023 Q1	2.0	4.3	4.9	-11.9
Q2	2.1	-5.6	1.4	26.2
Q3	1.1	-3.0	2.4	3.9
Q4	0.5	-3.1	0.5	1.0
<b>Previous estimates<sup>2</sup></b>				
	A2CL	A2CM	A2CN	A2CO
2021 Q3	1.2	-1.1	-0.3	24.9
Q4	1.1	1.0	1.3	15.8
2022 Q1	2.8	2.4	3.4	2.7
Q2	1.4	5.6	1.1	2.4
Q3	1.8	-1.6	2.8	3.4
Q4	2.0	9.6	4.2	-12.4
2023 Q1	1.5	5.1	4.9	-11.6
Q2	1.9	-4.2	1.4	25.5
Q3	1.5	-2.0	2.6	5.9
<b>Revisions</b>				
	ZZ8B	ZZ8C	ZZ8D	ZZ8E
2021 Q3	-	-	-	-
Q4	-	-	-	-
2022 Q1	-	-	-	-
Q2	-	-	-	-
Q3	-	-	-	-
Q4	-	-	-	-
2023 Q1	0.5	-0.8	-	-0.3
Q2	0.2	-1.4	-	0.7
Q3	-0.4	-1.0	-0.2	-2.0

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 estimates refers to estimates from the Quarterly National Accounts

3 Current estimates refers to estimates within this publication (GDP first quarterly estimate)

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

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>				
	KG15	KH4X	KH6V	KH67
2021 Q3	6.7	1.2	3.4	70.6
Q4	5.1	9.2	3.9	72.6
2022 Q1	8.2	10.2	5.4	96.8
Q2	6.6	7.9	5.6	52.0
Q3	7.2	7.4	8.9	25.9
Q4	8.1	16.5	12.0	-4.8
2023 Q1	7.3	18.7	13.6	-18.3
Q2	8.1	6.2	13.9	0.8
Q3	7.3	4.7	13.5	1.2
Q4	5.8	-7.4	9.5	16.7
<b>Previous estimates<sup>2</sup></b>				
	A2CP	A2CQ	A2CR	A2CS
2021 Q3	6.7	1.2	3.4	70.6
Q4	5.1	9.2	3.9	72.6
2022 Q1	8.2	10.2	5.4	96.8
Q2	6.6	7.9	5.6	52.0
Q3	7.2	7.4	8.9	25.9
Q4	8.1	16.5	12.0	-4.8
2023 Q1	6.8	19.6	13.5	-18.1
Q2	7.3	8.6	13.9	0.5
Q3	7.0	8.2	13.6	2.9
<b>Revisions</b>				
	ZZ8F	ZZ8G	ZZ8H	ZZ8I
2021 Q3	-	-	-	-
Q4	-	-	-	-
2022 Q1	-	-	-	-
Q2	-	-	-	-
Q3	-	-	-	-
Q4	-	-	-	-
2023 Q1	0.5	-0.9	0.1	-0.2
Q2	0.8	-2.4	-	0.3
Q3	0.3	-3.5	-0.1	-1.7

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 estimates refers to estimates from the Quarterly National Accounts

3 Current estimate refers to estimates within this publication (GDP first quarterly estimate)