

Statistical bulletin

GDP quarterly national accounts, UK: October to December 2023

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



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1 . Main points

- UK gross domestic product (GDP) is estimated to have fallen by an unrevised 0.3% in Quarter 4 (Oct to Dec) 2023, following an unrevised fall of 0.1% in the previous quarter.
- The economy decreased for two consecutive quarters, while GDP for 2023 as a whole is estimated to have increased by an unrevised 0.1% compared with 2022.
- In output terms in Quarter 4 2023 there were falls in all three main sectors with declines of 0.1% in services, 1.1% in production, and 0.9% in construction output.
- In expenditure terms there was a fall in the volume of net trade, household consumption, and gross capital formation in Quarter 4 2023, partially offset by an increase in government consumption.
- This release includes revisions to periods Quarter 1 (Jan to Mar) to Quarter 4 2023 where total GDP growth is unrevised across all quarters, although there has been some revision to underlying components.
- The household saving ratio is estimated at 10.2% in the latest quarter, up from 10.1% in Quarter 3 (July to Sept) 2023.
- Real households' disposable income (RHDI) is estimated to have grown by 0.7% following broadly flat growth in Quarter 3 (July to September) 2023.

2 . Headline GDP figures

UK real gross domestic product (GDP) is estimated to have fallen by an unrevised 0.3% in Quarter 4 (Oct to Dec) 2023. This follows an unrevised fall of 0.1% in the previous quarter. Across Quarter 3 (July to Sept) and Quarter 4 2023 the UK economy is estimated to have decreased by a cumulative 0.4%, revised up from our first estimate of a 0.5% fall as the level of GDP has seen small revisions. 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](#) article, the concept of a "technical" recession comprises two or more consecutive quarters of contracting output. Most experts consider the broader picture such as the depth, diffusion (spread) and duration of the change in GDP, as noted in our [Uncertainty and the "r" word: What exactly is a "recession"?](#) blog,.

It is also important to note that early estimates of GDP are [subject to revision](#) (positive or negative), for more information please refer to our [GDP revisions in Blue book: 2023 article](#). In the past the absolute average revision between the first 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.

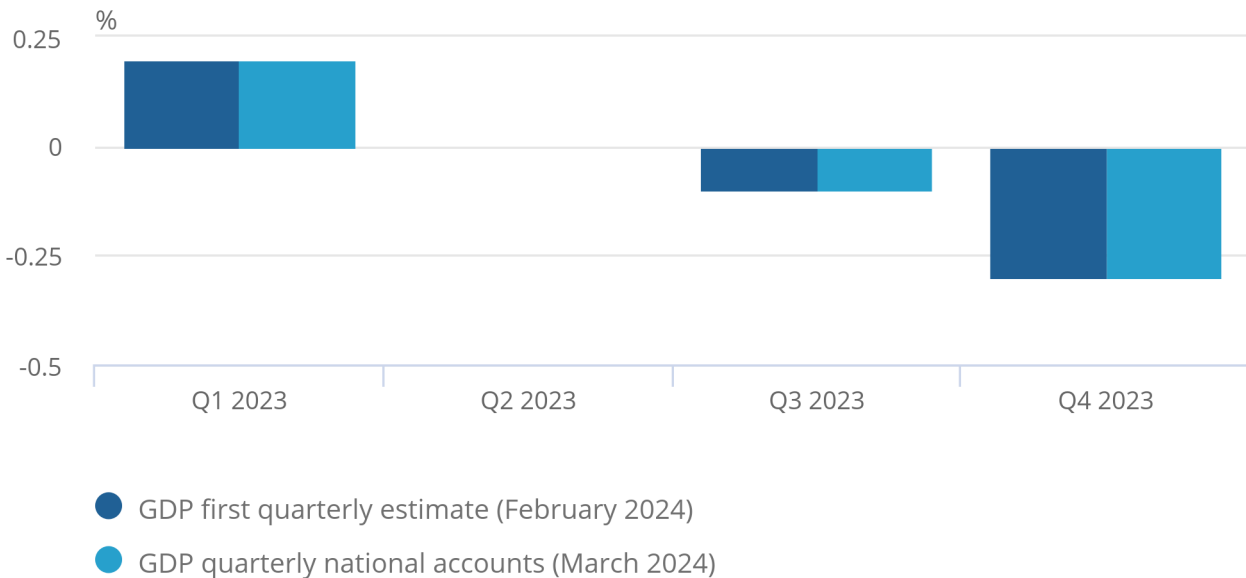
The GDP growth vintages are shown in Table 4. In line with the [National Accounts Revision Policy](#), this dataset is open back to Quarter 1 (Jan to Mar) 2023. Figure 1 shows total GDP growth is unrevised across all quarters, although there have been some revisions to individual components of GDP. For more information, see [Section 6: Revisions to GDP](#).

Figure 1: Real GDP is estimated to have fallen by an unrevised 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 an unrevised 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 quarterly national accounts 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 (%).

GDP is estimated to have increased by an unrevised 0.1% in 2023, following growth of 4.3% in 2022. Excluding the year 2020, which was affected by the coronavirus (COVID-19) pandemic, this is the weakest annual change in real GDP since the financial crisis in 2009. Our [Impact of Blue Book 2023 changes on gross domestic product article](#) explains that data up to 2021 have been reconciled through the supply and use (SUTs) framework to produce one coherent estimate of GDP. Estimates of real GDP in 2022 and 2023 have not yet 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 to measuring GDP, 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 an unrevised 0.2% in Quarter 4 2023 driven by a fall in gross operating surplus for corporations. Compared with the same quarter a year ago, nominal GDP is estimated to have increased by 4.9%.

As well as producing estimates of GDP, the Office for National Statistics (ONS) also produces estimates of GDP per capita (or per head), which divides UK GDP by the total UK population. As the UK population is growing, this means that growth in GDP per capita is showing a different trend to growth headline GDP.

Real GDP per head is estimated to have fallen by 0.6% in Quarter 4 2023 and has not grown since Quarter 1 (Jan to Mar) 2022. Across 2023 as a whole, GDP per head is estimated to have fallen by 0.7%.

It is important to note that estimates of GDP per head up to 2021 are based on [population estimates](#), whereas data for 2022 and 2023 are based on [interim population projections](#). In our June quarterly national accounts, we will update our estimates of GDP per head for 2022 in line with the latest [mid-year population estimates](#). Data for 2023 will be updated later in line with mid-year estimates which are expected to be published in summer 2024.

Table 1: Headline national accounts indicators for the UK

	GDP (Chained volume measures)	GDP per head (Chained volume measures) [Note 3]	GDP (current market prices)	GDP implied deflator
Seasonally adjusted				
2023	0.1	-0.7	7.2	7.1
Q1 2023	0.2	-0.2	1.9	1.7
Q2 2023	0.0	-0.2	2.5	2.4
Q3 2023	-0.1	-0.4	0.7	0.8
Q4 2023	-0.3	-0.6	-0.2	0.1

Source: GDP quarterly national accounts 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 projections 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. It is important to 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 0.1% in Quarter 4 2023 (previously 0.2%), 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 growth of the GDP implied deflator which increased by 5.1% (Figure 2).

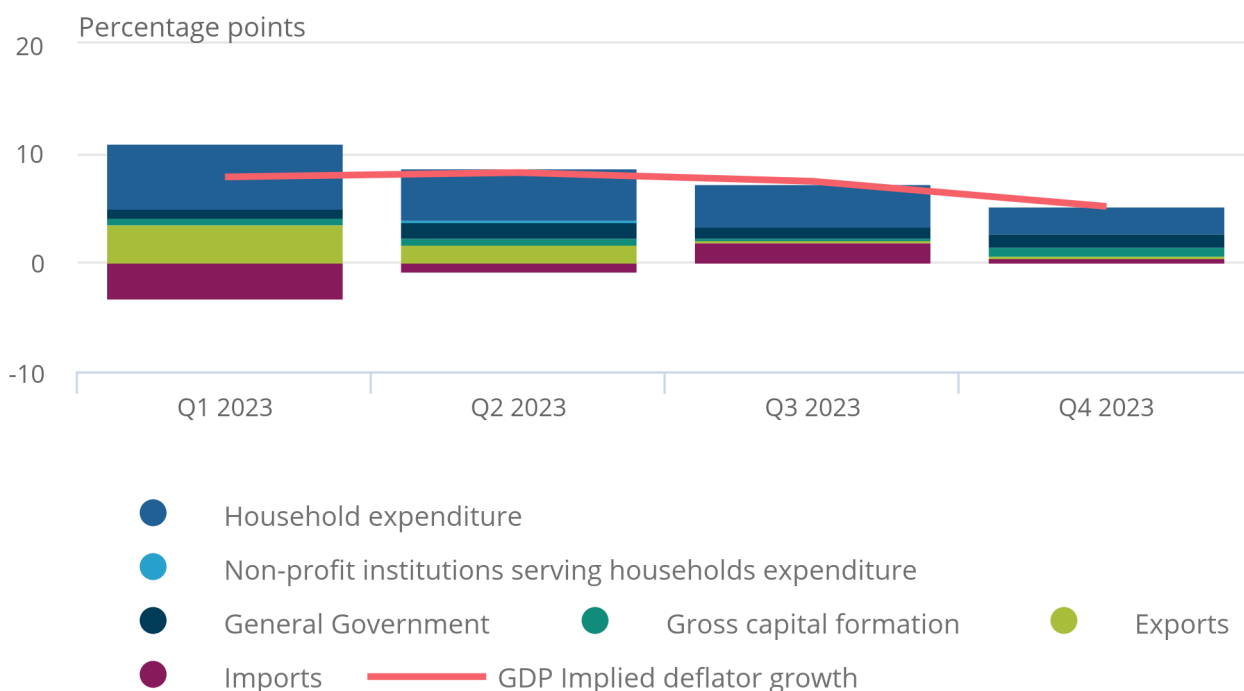
There have been minimal revisions to the total GDP implied deflator across 2023, however there have been larger revisions to the implied price of gross capital formation and exports, reflecting revised and new data. For example there are revised current price estimates of [Financial intermediation services indirectly measured \(FISIM\)](#) which affect services exports. As part of this release we have also reviewed previously applied balancing adjustments.

Figure 2: The implied price of GDP increased by 5.1% in Quarter 4 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 5.1% in Quarter 4 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 quarterly national accounts 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. Figure 3 shows that real GDP is estimated to have increased by 0.1% in 2023, however there are differences in the three approaches to measuring GDP at this stage in the production cycle. The differences in these approaches across 2022 and 2023 may be for various reasons.

Output approach

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) as outlined in our [Impact of Blue Book 2023 changes on gross domestic product article](#). Initially, we use turnover and output as a proxy for changes in gross value added and assume that the intermediate consumption ratio by industry, calculated in 2021, holds constant into 2022 onwards. For example input costs as a proportion of turnover or output remain fixed. In June 2024, data will be confronted through the SUTs framework for the first time, and as a result we will have estimates for intermediate consumption for 2022.

Expenditure approach

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 release](#), the 2022 annual benchmark data for the International Trade in Services (ITIS) survey is not yet available because of improving sample methodology and requiring additional time to quality assure the data. However, the quarterly ITIS data for 2022 and 2023 were included in this dataset.

Income approach

In the income approach, we do not have up to date quarterly information on the gross trading profits of businesses as these data are collected from HMRC and are available with a lag of approximately two years. We rely on contextual data (as outlined in our [Profitability of UK companies QMI](#)) from other sources to inform these quarterly estimates. There is currently 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.

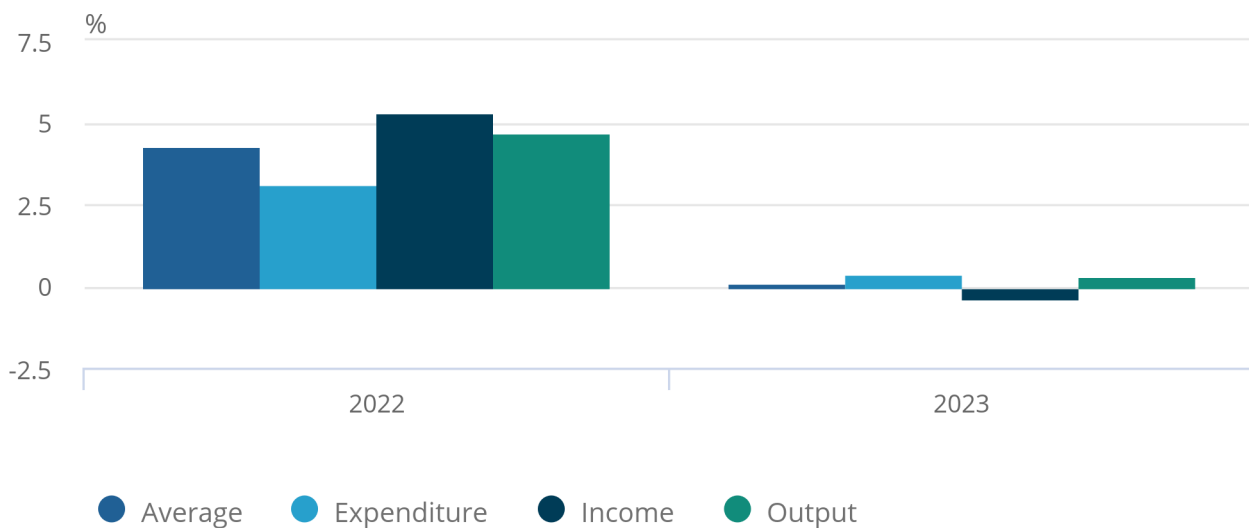
Estimates for 2023 will next be open for revision in June 2024 where 2022 data will also be confronted through the SUTs framework for the first time and, as a result there will be one single estimate of GDP for 2022. This release will also incorporate changes from 2020 onwards as well as updating the base year from 2019 to 2022. Further information is provided in our [Proposed changes to be implemented in Blue Book and Pink Book: 2024 article](#).

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

UK, the three approaches that measure 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 that measure GDP

UK, the three approaches that measure GDP and average GDP growth, 2022 and 2023



Source: GDP quarterly national accounts from the Office for National Statistics

Notes:

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

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- View [all economic data](#).

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 all contributed negatively to growth. Across Quarter 4 2023, 12 out of 20 of the sub-sectors experienced a contraction, compared with 7 sub-sectors contracting in the previous quarter.

The services sector is estimated to have fallen by 0.1% 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 1.1%, following no growth in the previous quarter. Construction output fell 0.9% in Quarter 4 2023, following growth of 0.6% in Quarter 3 2023.

Across 2023 as a whole, both services and construction grew by 0.3% and 2.1%, respectively, while there was a 0.4% fall in production output.

Services

Services output is now estimated to have fallen for three consecutive quarters with a fall of 0.1% (previously a 0.2% fall) 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 0.9% fall in information and communication. This was largely driven by falls in computer programming, consultancy and related activities which fell 1.0% on the quarter, alongside publishing activities which fell 4.5% on the quarter. 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.

The third largest contributor to the fall in services was the wholesale and retail trade; repair of motor vehicles and motorcycles subsector which fell by 0.4%. This was largely driven by a 0.9% fall in wholesale trade, except of motor vehicles and motorcycles and a 0.7% fall in retail trade, except of motor vehicles and motorcycles. Our Retail sales publication shows that December 2023 was the largest monthly decrease in retail sales since January 2021 when coronavirus (COVID-19) restrictions were in place. However, our most recent [Retail Sales, Great Britain: February 2024 bulletin](#) showed a rebound of 3.6% into January 2024. Our [latest GDP monthly estimate, UK: January 2024 bulletin](#) explains how the UK economy performed in January 2024, taking into account all output sectors.

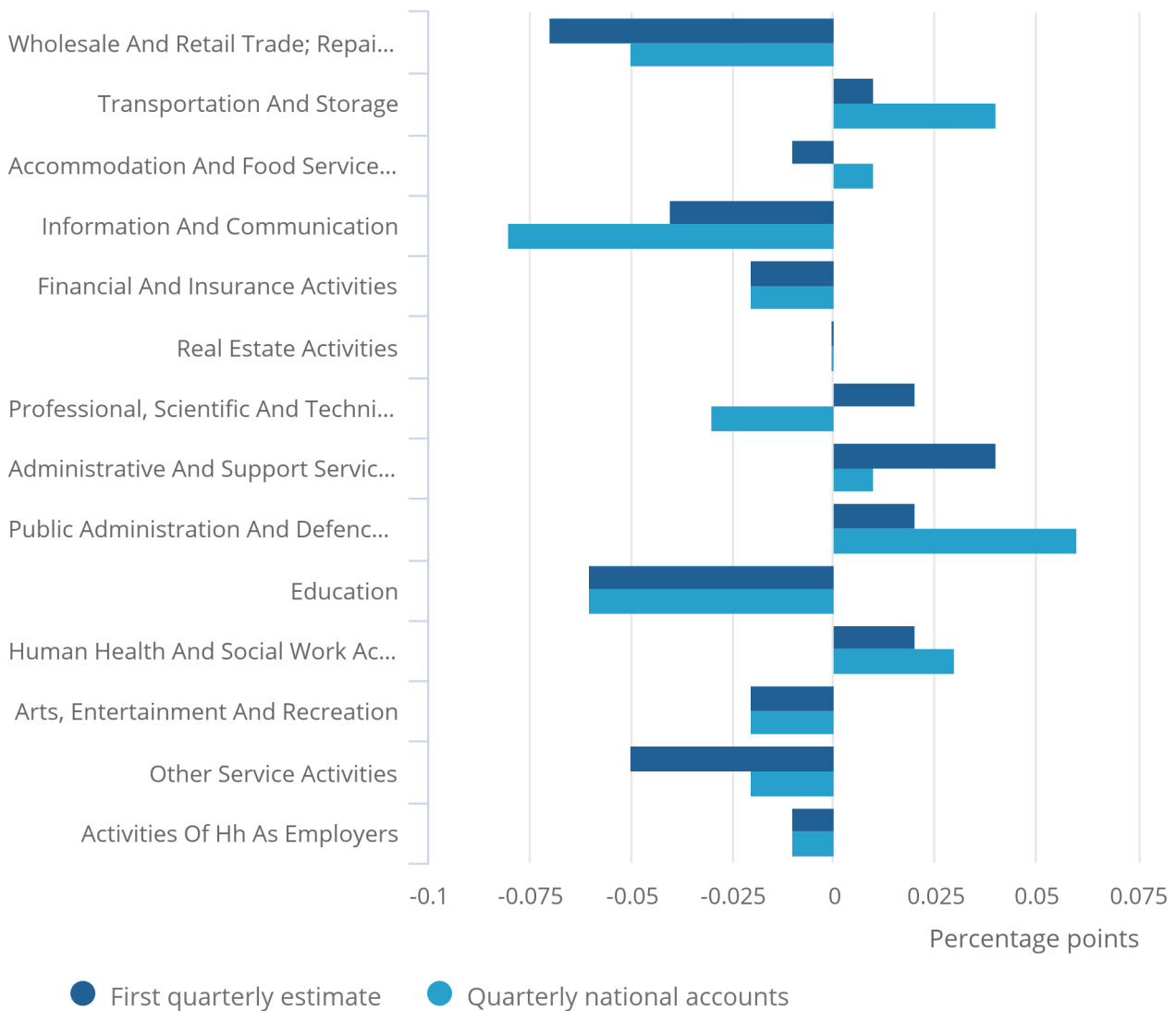
The largest positive contribution to services growth was from public administration and defence; compulsory social security subsector which increased by 1.0%.

Figure 4: There were falls in 8 out of 14 services sub-sectors in Quarter 4 2023

UK, contributions to services growth, Quarter 4 (Oct to Dec) 2023

Figure 4: There were falls in 8 out of 14 services sub-sectors in Quarter 4 2023

UK, contributions to services growth, Quarter 4 (Oct to Dec) 2023



Source: GDP quarterly national accounts from the Office for National Statistics

Notes:

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

Overall, consumer-facing services fell by 0.4% (previously 0.7% fall) 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 follows a fall of 0.7% (previously a 1.0% fall) in consumer-facing services in Quarter 3 2023.

Annual service sector growth for 2023 is estimated to have increased by an unrevised 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 5.5% in 2023. However, this was partially offset by a 1.8% fall in wholesale and retail trade and the repair of motor vehicles and motorcycles.

Across 2023, the services sector sees revisions for the following reasons:

- VAT data for Quarter 3 2023 have been incorporated for the first time. There is no revision to total services growth; there are a number of offsetting revisions at industry level, most notably to other personal services where our estimate of output is revised up, and is the main reason for the upwards revisions to consumer facing service growth
- late and updated monthly business survey returns, particularly impacting professional, scientific and technical activities sub-sector
- updated public sector employment data impacting public administration and defence; compulsory social security sub-sector
- updated seasonal adjustment which now uses a complete year of data for 2023

Production

The production sector is estimated to have decreased by 1.1% in the latest quarter after no growth in Quarter 3 2023 (revised down from 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 bulletin](#).

Manufacturing output is estimated to have fallen by 1.0% in Quarter 4 2023, with 10 of the 13 manufacturing subsectors declining, and this was the largest contributor to the fall in production over this period. This follows four consecutive quarters of manufacturing growth.

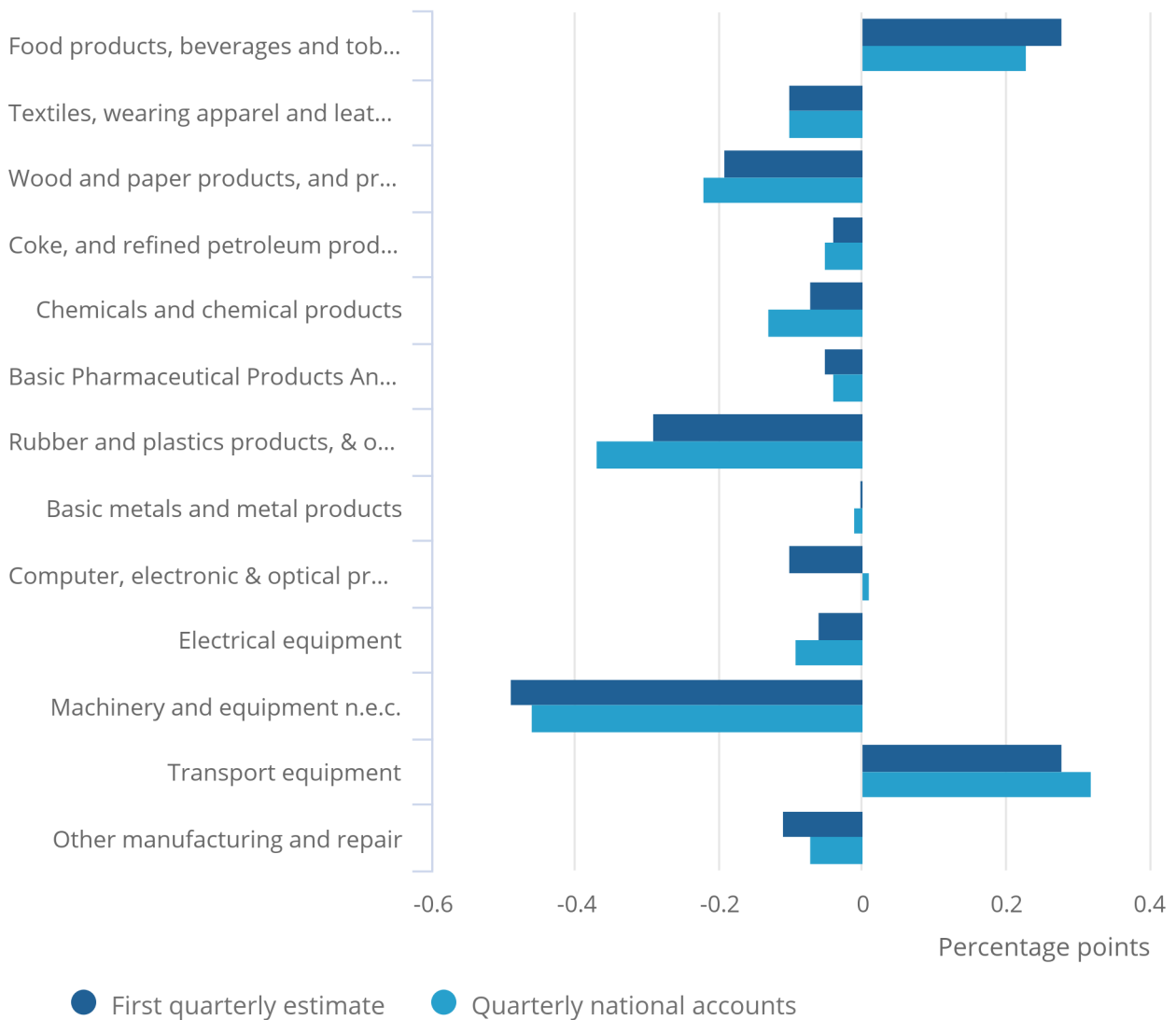
The largest negative contributors are a 6.5% decline in the manufacture of machinery and equipment n.e.c and a 5.9% fall in the manufacture of rubber and plastics products, and other non-metallic mineral products. However, there were some positive movements in manufacturing as shown in Figure 5, such as the manufacture of transport equipment which grew 2.1%. 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 2023

UK, contributions to manufacturing growth, Quarter 4 (Oct to Dec) 2023

Figure 5: There were falls in 10 out of 13 manufacturing sub-sectors in Quarter 4 2023

UK, contributions to manufacturing growth, Quarter 4 (Oct to Dec) 2023



Source: GDP quarterly national accounts 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 2.7% fall (revised up from a previous 3.0% fall) in mining and quarrying and a 2.7% fall in electricity, gas, steam and air conditioning supply (revised down from a 2.6% fall). Water supply (sewerage, waste management, and remediation activities) has shown no growth in the quarter (revised down from a previous growth of 0.5%).

Annual production output is estimated to have fallen 0.4% in the year 2023, driven mostly by a 13.7% (previously 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, with manufacturing showing revised growth of 1.1% in 2023 (previously 1.2%).

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

- late and updated monthly business survey data
- new VAT turnover data for Quarter 3 2023
- updated seasonal adjustment, taking into account a full year's worth of data for 2023

Construction

Construction output is shown to have fallen by 0.9% (revised from a previous estimate fall of 1.3%) in Quarter 4 2023, following growth of 0.6% (previously estimated increase of 0.1%).

The fall in the latest quarter reflects a fall in new work of 4.5%, though there was growth of 4.3% in repair and maintenance. Within new work, private housing sees its fifth consecutive quarterly decline, falling 7.4% in the latest quarter.

Revisions to construction in the latest quarter are driven by new survey data and new VAT turnover data for Quarter 3 2023.

4 . Expenditure

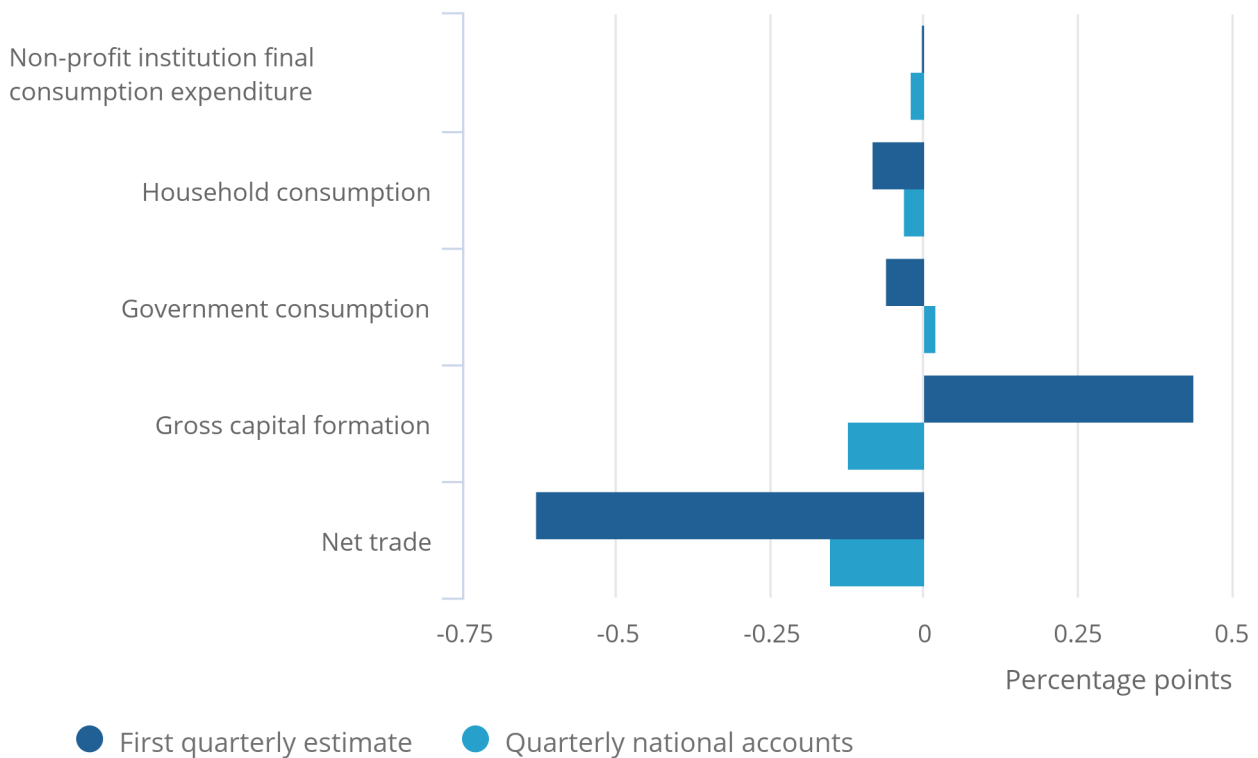
There was a fall in the volume of net trade, gross capital formation, and household consumption in Quarter 4 (Oct to Dec) 2023, partially offset by an increase in government consumption. Figure 6 shows the previous and latest contributions to expenditure growth in Quarter 4 2023. These revisions to components are discussed in more detail in this section.

Figure 6: There were falls in net trade, gross capital formation and household consumption

UK, contributions by expenditure components, Quarter 4 (Oct to Dec) 2023

Figure 6: There were falls in net trade, gross capital formation and household consumption

UK, contributions by expenditure components, Quarter 4 (Oct to Dec) 2023



Source: GDP quarterly national accounts 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, unrevised from the first estimate. This follows an unrevised fall of 0.9% in Quarter 3 (Jul to Sept) 2023. Across 2023 as a whole, household consumption is estimated to have increased by 0.2% (revised down from the first estimate of 0.3% increase), 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, household goods and services, transport, and clothing and footwear. Anecdotal evidence from our [Economic activity and social change in the UK, real-time indicators bulletin](#) further showed a lower level of card spending on delayables in the second half of 2023.

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](#).

There have been small revisions to household consumption growth across 2023 with only growth in Quarter 2 (Apr to June) being revised down 0.1 percentage points. Revisions at the lower categories of consumption include updated data on electricity, gas, and transport spending.

Within household consumption, there are downward revisions to net tourism because of updated International Passenger Survey data. These are offset within trade and therefore there is no impact on the gross domestic product (GDP) aggregate. More information can be found in our [Definitions and conventions for UK household final consumption expenditure methodology](#).

Consumption of government goods and services

Real government consumption expenditure increased by 0.1% in Quarter 4 2023 (previously estimated to have fallen by 0.3%). Across 2023, government consumption is estimated to have increased by 0.5%, following an increase of 2.3% in 2022.

The increase in government consumption in the latest quarter mainly reflects higher spending on public administration and defence which offset 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 estimates bulletin](#) as well as working days lost to industrial action as published in our [Labour market statistics time series](#).

Revisions to government consumption reflect new deflator data replacing forecasts for public administration and defence. There are also revisions to health data with updated volume data for hospital services, prescriptions and GPs.

Gross capital formation

Within gross capital formation, gross fixed capital formation (GFCF) is estimated to have increased by 0.9% in the latest quarter (previously estimated as an increase of 1.4%), following an unrevised fall of 1.4% in the previous quarter. Growth in the latest quarter was driven by increases in other buildings and transport. Within GFCF, business investment is estimated to have increased by 1.4%, following a 2.8% fall in Quarter 3 2023.

Across 2023 as a whole, GFCF is estimated to have increased by 2.2% with a 5.5% increase in business investment. This reflects strong growth in Quarter 1 (Jan to Mar) 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 (in particular aircraft imports from the United States) in Quarter 2 2023.

There have been revisions to the path of GFCF and business investment across 2023, reflecting revised survey data; latest seasonal adjustment and the removal of previous balancing adjustments.

Excluding the alignment and balancing adjustments, early estimates show that inventories fell by £734m in Quarter 4 2023 (revised down from a first estimate increase of £1.8 billion). The downward revision in the latest quarter reflects revised survey data, in particular in manufacturing.

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

		Change in Inventories	Of which alignment	Of which balancing	Change in Inventories excluding alignment and balancing
Q1 2023	Current price	447	179		268
	Chained volume measure	1113	149		964
Q2 2023	Current price	1436	2987	-600	-951
	Chained volume measure	956	2516		-1560
Q3 2023	Current price	1023	-3513	-1000	5536
	Chained volume measure	-1748	-2950	-1000	2202
Q4 2023	Current price	-1360	347	700	-2407
	Chained volume measure	-449	285		-734

Source: GDP quarterly national accounts 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

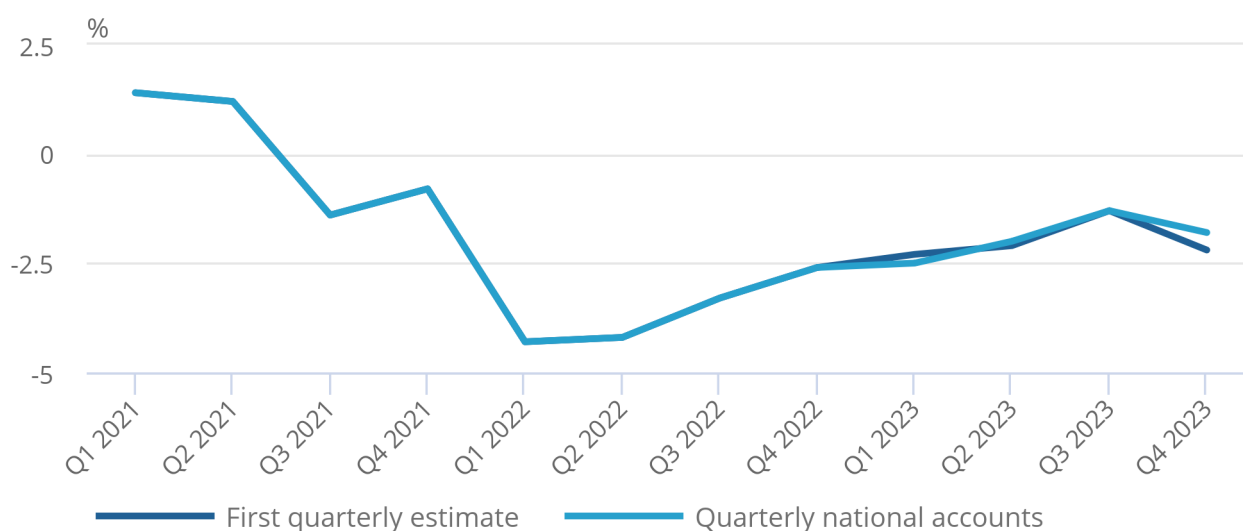
The UK's trade deficit for goods and services was 1.1% of nominal gross domestic product (GDP) in Quarter 4 2023, revised up from a first estimate deficit of 1.6%. However, this includes non-monetary gold which is an erratic series so it can be useful to exclude this from the trade balance. Excluding non-monetary gold, the UK's trade deficit for goods and services is estimated at 1.8% of nominal GDP.

Figure 7: The trade deficit excluding non-monetary gold was 1.8% of nominal GDP in Quarter 4 2023, revised up from a deficit of 2.2%

UK, trade balance as a percentage of nominal GDP, Quarter 1 (Jan to Mar) 2021 to Quarter 4 2023

Figure 7: The trade deficit excluding non-monetary gold was 1.8% of nominal GDP in Quarter 4 2023, revised up from a deficit of 2.2%

UK, trade balance as a percentage of nominal GDP, Quarter 1 (Jan to Mar) 2021 to Quarter 4 2023



Source: GDP quarterly national accounts 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 0.8% in the latest quarter, revised up from a first estimate fall of 2.9%. This fall was driven by a 2.4% decline in services exports (previously a 6.0% fall), which offset a 1.2% increase in goods exports (previously a 0.8% increase).

The decline in services exports were driven mainly by travel services and insurance and pension services.

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, so the effect is GDP neutral. Elsewhere there were falls in fuels and machinery and transport equipment.

The upward revision to exports volumes in the latest quarter is mainly driven by services exports, which saw upward revisions because of updated quarterly International Trade in Services Survey (ITIS) data, as well the replacement of forecasts with actual external source data such as Chamber of Shipping and Civil Aviation Authority.

Import volumes fell by 0.3% in the latest quarter, revised up from a first estimate fall of 0.8%. The decline in the latest quarter was driven by a 0.8% fall in goods (previously 0.7% fall) which offset an increase of 0.6% in services (previously estimated as a 0.9% fall).

The fall in goods imports was driven by declines in miscellaneous manufacturers, in particular clothing and other consumer manufactures. The increase in services imports was mainly because of increases in other business services, in particular in insurance and pension services and other business services (within this services between affiliated enterprises).

The upward revision in import volumes is because of stronger estimates of services imports with updated quarter ITIS data, as well the replacement of forecasts with actual external source data such as Chamber of Shipping and Civil Aviation Authority.

5 . Income

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

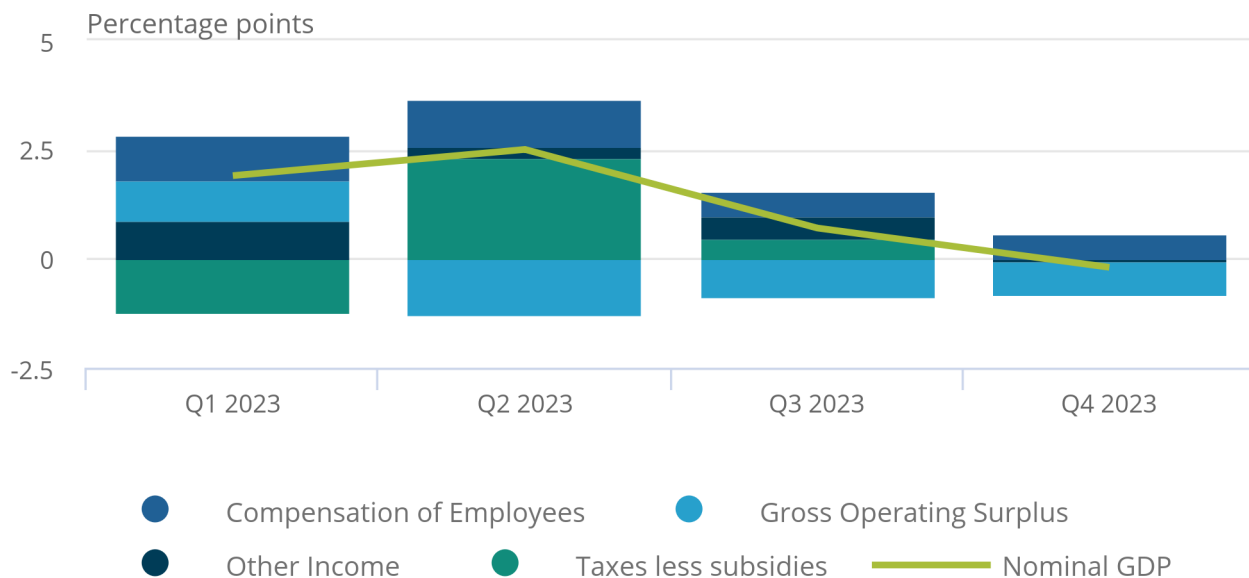
The quarterly fall was driven by a decline in gross operating surplus of corporations, and other income, which offset increases in compensation of employees (Figure 8).

Figure 8: Nominal GDP fell by an unrevised 0.2% in Quarter 4 2023

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

Figure 8: Nominal GDP fell by an unrevised 0.2% in Quarter 4 2023

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



Source: GDP quarterly national accounts 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 1.0% in Quarter 4 2023 (previously estimated as a 0.5% increase), driven by an increase of 0.5% in wages and salaries, and of 3.4% in employers' social contributions. Compensation of employees is estimated to have increased by 7.4% in 2023 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 employers' social contributions, which have seen revisions to National Insurance contributions and new pensions contributions survey data. It is important to 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 [Pay As You Earn Real Time Information](#) to help inform the estimates.

Revised estimates show that taxes less subsidies showed no growth in Quarter 4 2023 (previously estimated growth of 1.0%). In the latest quarter, there was a 0.3% increase in taxes (mainly Value Added Tax), which offset a 3.6% increase in subsidies. Overall, taxes less subsidies fell by 0.5% 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 [previous GDP quarterly national accounts releases](#).

Total gross operating surplus (GOS) of corporations excluding the alignment adjustment fell by 1.7% (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

	Gross operating surplus of corporations	Of which alignment	Gross operating surplus of corporations excluding alignment	Gross operating surplus of corporations excluding alignment	Quarter-on-quarter growth
Q1 2023	155481	1814	153667		4.5
Q2 2023	147206	1550	145656		-5.2
Q3 2023	141856	-714	142570		-2.1
Q4 2023	137437	-2650	140087		-1.7

Source: GDP quarterly national accounts 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 the [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 alongside the [Quarterly national accounts publication](#).

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-23	0.1			
Jun-23	0.1			
Aug-23	0.1	0.2		
Sep-23	0.3	0.2		
Nov-23	0.3	0.2	0.0	
Dec-23	0.3	0.0	-0.1	
Feb-24	0.2	0.0	-0.1	-0.3
Latest estimate: Mar-24	0.2	0.0	-0.1	-0.3
Total revision between first and latest estimate	0.1	-0.2	-0.1	0.0

Source: GDP quarterly national accounts 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, replacement of forecasts with actual survey or external source data, new seasonal adjustment factors, and a review of GDP balancing.

Table 5: Revisions to quarter-on-quarter growth for components of GDP
Quarter 1 (Jan to Mar) to Quarter 4 (Oct to Dec) 2023

	2023 Q1	2023 Q2	2023 Q3	2023 Q4
Average GDP in chained volume measures	0.0	0.0	0.0	0.0
Output				
Production	0.1	-0.1	-0.1	-0.1
Construction	-0.3	0.3	0.5	0.4
Services	-0.1	0.0	0.0	0.1
Expenditure				
Households	0.0	-0.1	0.0	0.0
Non-profit institutions serving households	0.8	0.6	-0.6	-0.6
General government	0.0	-0.2	0.0	0.4
Gross fixed capital formation	-0.3	-0.3	0.0	-0.5
Total exports	-0.4	0.5	0.7	2.1
Total imports	0.1	-0.2	0.0	0.5
Average GDP in current prices	-0.1	0.1	0.0	0.0
Income				
Compensation of employees	0.1	0.0	0.0	0.5
Gross operating surplus of corporations	-0.5	0.3	-0.6	0.0
Other income	-0.1	-0.1	0.1	-0.5
Taxes on products & production less subsidies	0.0	-0.2	0.2	-1.0

Source: GDP quarterly national accounts 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. Revisions are between the first quarterly estimate published 15 February 2024 and GDP quarterly national accounts published 28 March 2024.

7 . Quarterly sector accounts

Because of recent technical challenges in processing data from the Office for National Statistics (ONS) Foreign Direct Investment (FDI) surveys, we have temporarily paused processing of these data. This pause will allow us to address the underlying challenges, and safeguard timely and quality data going forward. As a result of the pause, Foreign Direct Investment-related estimates for Quarter 3 (July to Sept) and Quarter 4 (Oct to Dec) 2023 are subject to more uncertainty than usual. Elements that are drawn from the ONS FDI survey are based on Quarter 2 (Apr to Jun) 2023 data. As a result, users should be cautious when interpreting recent FDI data that are part of the UK sector accounts and UK balance of payments (BoP) statistics. Users should also note that we have not yet included annual benchmark data for 2022 estimates. We expect to resume processing of the FDI survey data later in 2024. For further information please contact bop@ons.gov.uk.

Household saving ratio

The household saving ratio is estimated at 10.2% in Quarter 4 (Oct to Dec) 2023, up from 10.1% in Quarter 3 (July to Sept) 2023. Following seven quarters of greater pension saving contributing to the savings ratio, this quarter non-pension savings contributed more to the savings ratio.

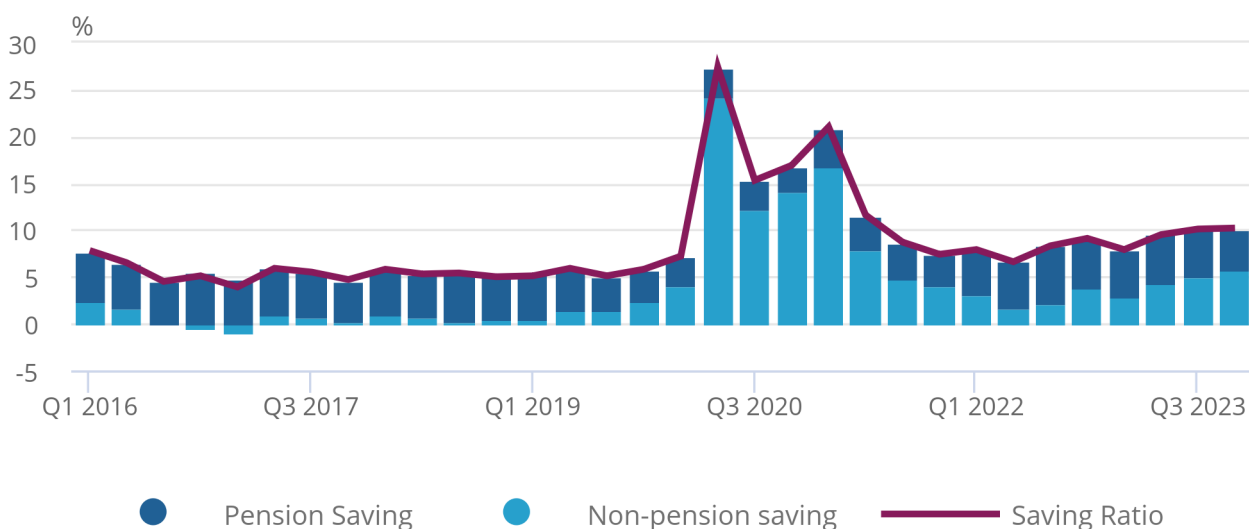
This upward movement was driven by a rise in net social benefits other than social transfers in kind of £3.9 billion together with increased employers' social contributions of £2.0 billion and wages and salaries of £1.4 billion. This was offset by a fall in the adjustment for pension entitlements of £2.7 billion and net property income of £2.4 billion, and a rise in nominal final consumption expenditure of £1.3 billion. The largest contributor to final consumption expenditure was higher expenditure in restaurants and hotels.

Figure 9: Non-pension savings contributed 5.7 percentage points to the savings ratio in the latest quarter, up from 5.0 percentage points in Quarter 3 (July to Sept) 2023

Savings ratio, seasonally adjusted, Quarter 1 (Jan to Mar) 2016 to Quarter 4 (Oct to Dec) 2023

Figure 9: Non-pension savings contributed 5.7 percentage points to the savings ratio in the latest quarter, up from 5.0 percentage points in Quarter 3 (July to Sept) 2023

Savings ratio, seasonally adjusted, Quarter 1 (Jan to Mar) 2016 to Quarter 4 (Oct to Dec) 2023



Source: Quarterly sector accounts from the Office for National Statistics

Real households' disposable income (seasonally adjusted)

Real households' disposable income (RHDI) is estimated to have grown by 0.7% following broadly flat growth in Quarter 3 2023. Within RHDI, nominal gross disposable income saw growth at 1.1%, because of the drivers described in the previous section on the households saving ratio. This was offset by the fall in property income and an increase in the implied deflator of 0.4%.

Real households' disposable income was revised down 0.4 percentage points, from 0.4% to broadly flat growth in Quarter 3 2023. This is driven mainly by an upward revision in taxes on income and wealth of £1.2 billion and a downward revision in net social benefits other than social transfers in kind of £0.7 billion.

Real households' disposable income per head (RHDI divided by population) grew 0.4% in Quarter 4 2023 and fell 0.3% in Quarter 3 2023. This was revised downwards from positive 0.3% in Quarter 3 because of a downward revision in real households' disposable income of £1.0 billion, and an upward revision in population projections of 319,000.

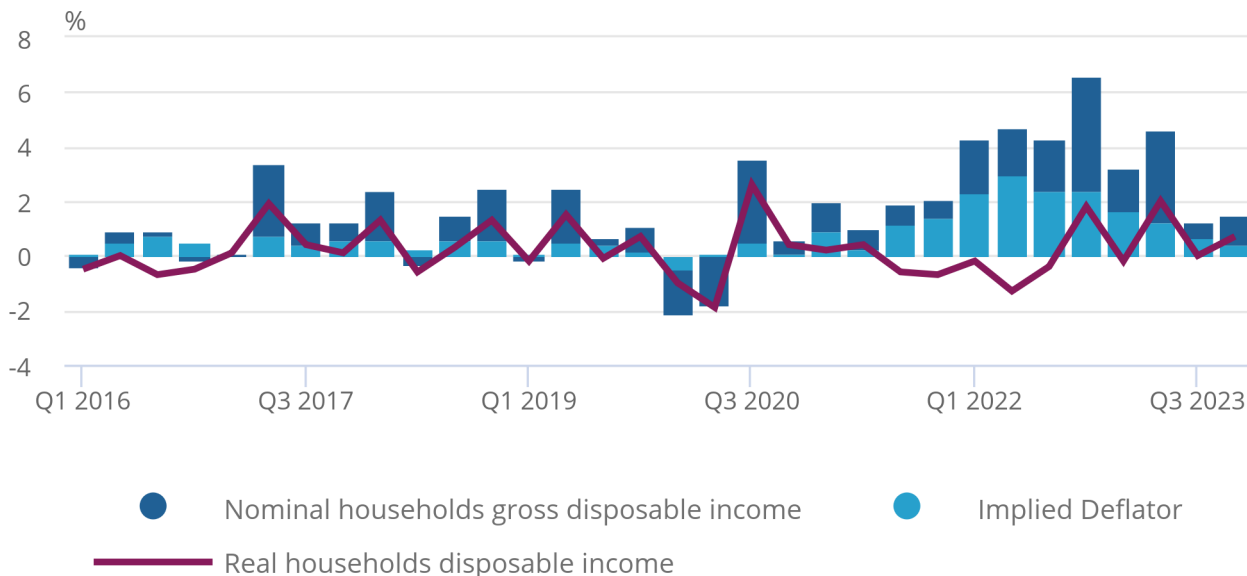
It is important to note the population data for 2022 and 2023 are based on [interim population projections](#). In our June release, we will update our estimates of RHDI per head for 2022 in line with the latest [mid-year population estimates](#). Data for 2023 will be updated later in line with mid-year estimates which are expected to be published in summer 2024.

Figure 10: Real households disposable income is estimated to have grown by 0.7% in Quarter 4 2023, up from broadly flat growth in the previous quarter

Real household disposable income, seasonally adjusted, Quarter 1 (Jan to Mar) 2016 to Quarter 4 (Oct to Dec) 2023

Figure 10: Real households disposable income is estimated to have grown by 0.7% in Quarter 4 2023, up from broadly flat growth in the previous quarter

Real household disposable income, seasonally adjusted, Quarter 1 (Jan to Mar) 2016 to Quarter 4 (Oct to Dec) 2023



Source: Quarterly sector accounts from the Office for National Statistics

Notes:

1. RHDI growth may not equal the gross disposable income growth minus the implied deflator growth because of rounding.

Non-financial account net lending and borrowing (seasonally adjusted)

The UK's borrowing position with the rest of the world as a percentage of gross domestic product (GDP) is estimated to have increased to 3.3% in Quarter 4 2023 compared with 2.9% of GDP in Quarter 3 2023.

Financial corporations increased their net lending position to 2.0% of GDP, from 1.4% of GDP in Quarter 3 2023. This was driven by a rise in net property income of £5.7 billion together with falls in gross capital formation of £3.2 billion and the adjustment for pensions entitlements of £2.7 billion, partially offset by falls in net capital transfers of £5.2 billion and in social contributions of £2.5 billion.

Non-financial corporations increased their net borrowing to 2.7% of GDP, from 1.5% of GDP in Quarter 3 2023. Within non-financial corporations, private non-financial corporations (PNFCs) increased their net borrowing to £18.6 billion, up from £10.2 billion in the previous quarter. This increase was driven by a fall in gross operating surplus of £4.2 billion and in net property income of £3.8 billion, partially offset by an increase in net capital transfers of £0.4 billion.

Households decreased their net lending position to 2.9% of GDP, down from 3.1% of GDP in Quarter 3 2023. This was driven by falls in net capital transfers of £2.8 billion, the adjustment for pension entitlements of £2.7 billion, and net property income of £2.4 billion. Partially offsetting this was a rise in social benefits other than social transfers in kind of £3.9 billion and compensation of employees of £3.3 billion.

General government decreased net borrowing to 4.6% of GDP in Quarter 4 2023, from 4.8% of GDP in Quarter 3 2023. Within general government, central government increased net borrowing to £30.4 billion following £30.1 billion in the previous quarter. This decrease was driven by a fall in other current transfers of £3.4 billion, a rise in final consumption expenditure of £1.3 billion and a fall in net social contributions and other benefits of £1.2 billion. This was partially offset by a rise in net capital transfers of £6.3 billion.

Financial account net lending and borrowing (not seasonally adjusted)

Households saw an increase in their net lending as a percentage of GDP in the latest quarter, at an estimated 5.1%, from 2.2% in Quarter 3 2023. This was driven by a rise in currency and deposits of £19.3 billion and net loans of £7.2 billion, offset by a fall in net other accounts of £4.9 billion and in insurance, pensions, and the standardised guarantees of £2.0 billion.

Financial corporations are estimated to have held their net lending as a percentage of GDP at 2.9% in the latest quarter. Their financial account saw a fall in net currency and deposits of £153.0 billion. Offsetting this were rises in net equity and investment fund shares and units of £65.8 billion, net debt securities of £35.1 billion, and net loans of £31.7 billion.

Non-financial corporations have seen a fall in net borrowing as a percentage of GDP to 3.5% in the latest quarter, down from 3.8% in Quarter 3 2023. Within this sector, private non-financial corporations (PNFCs) decreased their net borrowing to £24.2 billion, from £24.6 billion in the previous quarter. This was driven by a decrease in loan liabilities of £16.6 billion, rises in net debt securities of £9.2 billion and equity and investment fund shares and units of £5.6 billion, partially offset by a fall in net other accounts of £28.9 billion.

General government increased their net borrowing as a percentage of GDP to an estimated 6.0% in the latest quarter, from 5.2% in Quarter 3 2023. Within general government, central government increase was driven by a rise in long-term debt securities issued by UK central government of £81.5 billion. This was partially offset by a rise in net other accounts of £23.2 billion, and currency and deposits of £17.1 billion.

8 . 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	2023
Canada	0.6	0.2	-0.1	0.2	4.4	3.8	1.1
France	0.0	0.6	0.0	0.1	1.9	2.5	0.7
Germany	0.1	0.0	0.0	-0.3	0.1	1.8	-0.3
Italy	0.5	-0.2	0.2	0.2	4.2	4.0	0.9
Japan	1.0	1.0	-0.8	0.1	3.1	1.0	..
United Kingdom	0.2	0.0	-0.1	-0.3	1.0	4.3	0.1
United States	0.6	0.5	1.2	0.8	8.2	1.9	..

Source: GDP quarterly national accounts 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 US, UK, France, Germany, Italy, Canada and Japan.
3. Data accessed and retrieved from OECD website on 25 March 2024, where revision policies for published estimates can differ between countries. Annual growth estimates for 2023 are unavailable for some countries.

9 . GDP quarterly national accounts data

[GDP – data tables](#)

Dataset | Released 28 March 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 28 March 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 28 March 2024

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

10 . Glossary

11 . 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 the quarterly publications (average GDP) and the [GDP monthly estimate](#) (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.

Alignment adjustments, found in Table M of our [GDP 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 data series should be considered accordingly.

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

GDP measurement approach and component adjustment applied to		2023 Q1	2023 Q2	2023 Q3	2023 Q4
Expenditure					
Non-profit institution serving households	Current prices				
	Chained volume measure	400	600	500	500
Change in inventories	Current prices		-600	-1000	700
	Chained volume measure			-1000	
Trade in services exports	Current prices			-900	
	Chained volume measure	200	300	-900	
Trade in services imports	Current prices	-500	-500	500	-1000
	Chained volume measure	-500	-500	500	-200
Household consumption	Current prices	100	200	-200	300
	Chained volume measure	100	200	-200	300
Income					
Mixed income	Current prices				600

Source: GDP quarterly national accounts from the Office for National Statistics

Notes

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

Office for Statistics Regulation (OSR) 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. The [outcome of this review](#) can 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 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 data 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 an 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 the December 2023 [Quarterly national accounts](#) release, 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. Quarterly ITIS data for 2022 are included in our current dataset.

12 . 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 the [Guide to the UK National Accounts](#), and more quality and methodology information (QMI) is available in the [Gross domestic product \(GDP\) 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 the [Gross domestic product \(GDP\) QMI](#) analyses the mean average revision and the mean absolute revision for GDP estimates over data publication iterations.

13 . Related links

[GDP first quarterly estimate, UK: October to December 2023](#)

Bulletin | Released 15 February 2024

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.

[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.

14 . Cite this statistical bulletin

Office for National Statistics (ONS), released 28 March 2024, ONS website, statistical bulletin, [GDP quarterly national accounts, UK: October to December 2023](#)

A1 National accounts aggregates^{1,2}

2019 = 100

	Value indices at current prices		Chained volume indices				Implied deflators ³			
	Gross domestic product at market prices	Gross value added at basic prices	Gross domestic product at market prices	Gross value added at basic prices	Gross national disposable income at market prices	Market sector gross value added	Gross national expenditure	Gross domestic product at market prices	Gross value added at basic prices	
	YBEU	YBEX	YBEZ	CGCE	YBFP	L48H	YBFV	YBGB	CGBV	
2021	102.2	102.6	97.4	97.6	98.3	98.5	105.1	105.0	105.0	
2022	112.2	112.5	101.6	101.6	101.8	102.3	111.4	110.4	110.8	
2023	120.3	121.9	101.8	101.7	101.1	102.6	118.1	118.2	119.8	
Seasonally adjusted										
2021 Q3	104.1	104.2	99.5	99.7	100.0	100.0	104.8	104.6	104.6	
Q4	106.8	106.6	101.1	101.0	102.1	101.1	106.5	105.7	105.5	
2022 Q1	108.9	108.7	101.6	101.5	100.3	101.9	108.1	107.2	107.1	
Q2	111.2	111.2	101.7	101.6	103.2	102.3	110.3	109.4	109.4	
Q3	112.9	112.6	101.6	101.5	100.5	102.2	113.4	111.1	110.9	
Q4	115.6	117.6	101.7	101.7	103.0	102.7	114.2	113.7	115.7	
2023 Q1	117.8	121.6	101.9	101.9	101.2	102.9	116.1	115.6	119.4	
Q2	120.7	121.8	101.9	101.8	100.8	102.8	118.0	118.4	119.6	
Q3	121.5	122.1	101.8	101.7	101.5	102.5	119.1	119.3	120.0	
Q4	121.3	121.9	101.5	101.4	101.0	102.1	119.2	119.5	120.3	
Percentage change, latest year on previous year										
	IHYM	KGL6	IHYP	KGM7	KH6X	L489	KH7D	IHYS	KGM4	
2021	8.5	7.8	8.7	8.4	11.7	6.8	0.3	-0.1	-0.5	
2022	9.7	9.7	4.3	4.1	3.6	3.8	6.1	5.1	5.4	
2023	7.2	8.3	0.1	0.1	-0.6	0.3	6.0	7.1	8.2	
Percentage change, latest quarter on previous quarter										
	IHYN	KGL8	IHYQ	KGM9	KH6Z		KH7E	IHYT	KGM5	
2021 Q3	2.4	2.1	1.7	1.6	0.7	0.9	1.4	0.7	0.5	
Q4	2.6	2.3	1.5	1.3	2.1	1.1	1.6	1.1	0.9	
2022 Q1	2.0	1.9	0.5	0.5	-1.7	0.8	1.5	1.4	1.4	
Q2	2.1	2.3	0.1	0.1	2.9	0.4	2.0	2.0	2.2	
Q3	1.5	1.3	-0.1	-0.1	-2.7	-0.2	2.8	1.6	1.3	
Q4	2.4	4.4	0.1	0.1	2.6	0.5	0.7	2.3	4.3	
2023 Q1	1.9	3.4	0.2	0.2	-1.8	0.2	1.6	1.7	3.2	
Q2	2.5	0.1	-	-	-0.4	-0.1	1.7	2.4	0.2	
Q3	0.7	0.3	-0.1	-0.1	0.7	-0.3	0.9	0.8	0.4	
Q4	-0.2	-0.1	-0.3	-0.3	-0.5	-0.4	0.1	0.1	0.2	
Percentage change, latest quarter on corresponding quarter of previous year										
	IHYO	KGM2	IHYR	KGN3	KH73	L48D	KH7F	IHYU	KGM6	
2021 Q3	9.0	7.8	9.5	9.1	10.5	6.4	0.1	-0.5	-1.3	
Q4	10.8	9.9	9.7	9.0	12.9	6.7	1.9	1.0	0.8	
2022 Q1	13.1	11.8	11.4	10.8	9.4	8.5	2.5	1.5	0.9	
Q2	9.4	8.9	3.9	3.5	4.0	3.3	6.7	5.3	5.2	
Q3	8.4	8.0	2.1	1.9	0.5	2.2	8.1	6.2	6.0	
Q4	8.2	10.3	0.6	0.6	0.9	1.6	7.2	7.5	9.6	
2023 Q1	8.1	11.9	0.3	0.3	0.8	1.0	7.4	7.8	11.5	
Q2	8.5	9.5	0.2	0.2	-2.4	0.5	7.0	8.2	9.3	
Q3	7.6	8.4	0.2	0.2	1.1	0.4	5.0	7.4	8.3	
Q4	4.9	3.7	-0.2	-0.3	-2.0	-0.5	4.4	5.1	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 the sum of expenditure components of GDP at current prices and in chained volume terms.

A2 National accounts aggregates¹

£ million

	Current prices					Chained Volume Measures (Reference year 2019)				
	Gross national income at market prices	Net income from abroad ²	Gross domestic product at market prices	less Basic price adjustment ³	Gross value added at basic prices	Gross domestic product at market prices	less Basic price adjustment ³	Gross value added at basic prices	Gross value added excluding oil & gas ⁴	
	ABMZ	CAES	YBHA	NTAP	ABML	ABMI	NTAO	ABMM	KLS2	
2021	2 296 612	12 533	2 284 079	237 443	2 046 636	2 176 203	227 882	1 948 321	1 935 444	
2022	2 518 331	12 350	2 505 981	260 336	2 245 645	2 270 764	243 429	2 027 335	2 014 752	
2023	2 652 321	-34 866	2 687 186	255 318	2 431 868	2 273 126	243 532	2 029 594	2 018 915	
Seasonally adjusted										
2021 Q3	583 950	2 444	581 506	61 437	520 069	555 956	58 630	497 326	493 957	
Q4	605 668	8 994	596 674	64 692	531 982	564 407	60 372	504 035	500 928	
2022 Q1	601 960	-6 369	608 329	66 026	542 303	567 396	60 854	506 542	503 382	
Q2	630 944	9 672	621 272	66 474	554 798	567 889	60 901	506 988	503 710	
Q3	631 386	811	630 575	68 785	561 790	567 445	60 860	506 585	503 423	
Q4	654 041	8 236	645 805	59 051	586 754	568 034	60 814	507 220	504 237	
2023 Q1	651 897	-5 897	657 793	51 078	606 715	569 027	60 807	508 220	505 528	
Q2	660 453	-13 461	673 914	66 289	607 625	569 076	61 017	508 059	505 375	
Q3	671 335	-6 975	678 310	69 158	609 152	568 397	60 968	507 429	504 734	
Q4	668 636	-8 533	677 169	68 793	608 376	566 626	60 740	505 886	503 278	
Percentage change, latest year on previous year										
	KH74		IHYM		KGL6	IHYP		KGM7	KLH8	
2021	11.5		8.5		7.8	8.7		8.4	8.8	
2022	9.7		9.7		9.7	4.3		4.1	4.1	
2023	5.3		7.2		8.3	0.1		0.1	0.2	
Percentage change, latest quarter on previous quarter										
	KH75		IHYN		KGL8	IHYQ		KGM9		
2021 Q3	2.5		2.4		2.1	1.7		1.6	1.4	
Q4	3.7		2.6		2.3	1.5		1.3	1.4	
2022 Q1	-0.6		2.0		1.9	0.5		0.5	0.5	
Q2	4.8		2.1		2.3	0.1		0.1	0.1	
Q3	0.1		1.5		1.3	-0.1		-0.1	-0.1	
Q4	3.6		2.4		4.4	0.1		0.1	0.2	
2023 Q1	-0.3		1.9		3.4	0.2		0.2	0.3	
Q2	1.3		2.5		0.1	-		-	-	
Q3	1.6		0.7		0.3	-0.1		-0.1	-0.1	
Q4	-0.4		-0.2		-0.1	-0.3		-0.3	-0.3	
Percentage change, latest quarter on corresponding quarter of previous year										
	KH76		IHYO		KGM2	IHYR		KGN3	KLH9	
2021 Q3	10.6		9.0		7.8	9.5		9.1	9.5	
Q4	14.2		10.8		9.9	9.7		9.0	9.2	
2022 Q1	12.1		13.1		11.8	11.4		10.8	11.0	
Q2	10.7		9.4		8.9	3.9		3.5	3.4	
Q3	8.1		8.4		8.0	2.1		1.9	1.9	
Q4	8.0		8.2		10.3	0.6		0.6	0.7	
2023 Q1	8.3		8.1		11.9	0.3		0.3	0.4	
Q2	4.7		8.5		9.5	0.2		0.2	0.3	
Q3	6.3		7.6		8.4	0.2		0.2	0.3	
Q4	2.2		4.9		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 Includes employment, entrepreneurial and property income.

3 Taxes on products less subsidies.

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

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

2019 = 100

	Production						Service industries						Gross value added ⁴	Gross value added excluding oil & gas
	Agri-culture, forestry, and fishing	Mining & quarrying inc oil & gas extract	Manu-facturing	Electric, gas, steam & air	Water supply, sewerage	Total	Constru-ction	Distri-bution, hotels & restaura-nts	Transport storage and commu-nications	Business services and finance	Govern-ment and other services	Total		
2019 Weights³	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	85.8	65.5	101.5	62.1	103.9	94.6	104.6	99.3	107.7	104.5	102.7	103.5	101.7	102.1
Seasonally adjusted														
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	85.6	66.2	100.5	63.5	105.9	94.3	104.2	99.5	109.1	105.1	101.8	103.8	101.9	102.2
Q2	85.6	65.8	102.2	61.5	104.1	95.0	104.7	99.4	108.5	104.6	102.5	103.7	101.8	102.2
Q3	85.9	65.9	102.2	62.6	102.8	95.1	105.3	99.3	106.8	104.2	103.2	103.4	101.7	102.0
Q4	86.1	64.1	101.2	60.9	102.8	94.0	104.4	99.0	106.5	104.1	103.2	103.3	101.4	101.8
Percentage change, latest year on previous year														
	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	-	-13.7	1.1	-1.9	-2.3	-0.4	2.1	-1.7	0.4	0.5	1.3	0.3	0.1	0.2
Percentage change, latest quarter on previous quarter														
													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	-	-8.0	0.6	1.6	0.7	0.2	-0.7	-1.0	0.8	0.3	0.6	0.2	0.2	0.3
Q2	-	-0.7	1.6	-3.1	-1.7	0.8	0.5	-0.1	-0.5	-0.5	0.7	-0.1	-	-
Q3	0.4	0.2	-	1.7	-1.3	-	0.6	-0.1	-1.6	-0.3	0.7	-0.2	-0.1	-0.1
Q4	0.2	-2.7	-1.0	-2.7	-	-1.1	-0.9	-0.3	-0.3	-0.1	-0.1	-0.1	-0.3	-0.3
Percentage change, latest quarter on corresponding quarter of previous year														
	L3ZZ	L427	L42D	L44C	L44G	L426	L44M	L47F	KII2	KIH9	KIH8	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	-14.1	-1.2	-1.0	-0.6	-1.9	4.0	-2.0	2.3	2.2	-0.7	0.7	0.3	0.4
Q2	-0.6	-16.2	1.5	-3.4	-3.2	-0.5	2.7	-2.4	2.0	0.5	1.5	0.5	0.2	0.3
Q3	-0.2	-13.5	2.9	-0.9	-3.1	1.0	2.3	-1.0	-1.2	-	2.4	0.3	0.2	0.3
Q4	0.6	-10.8	1.3	-2.5	-2.3	-0.1	-0.6	-1.5	-1.6	-0.6	1.9	-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 at chained volume measures basic prices, by category of output^{1,2}

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 ⁴	Total services
2019 Weights³	102	103	30	82	131	127	49	58	76.9	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	99.2	107.7	99.6	104.1	101.2	108.2	101.7	102.4	103.9	101.9	103.5
Seasonally adjusted											
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	99.3	109.1	100.0	105.3	101.6	108.7	100.9	101.7	102.8	101.3	103.8
Q2	99.2	108.5	100.1	104.2	101.4	108.1	101.1	102.3	103.8	102.1	103.7
Q3	99.4	106.8	99.0	103.5	100.9	108.1	101.9	103.2	104.3	102.7	103.4
Q4	98.9	106.5	99.2	103.3	100.9	108.0	102.9	102.4	104.6	101.5	103.3
Percentage change, latest year on previous year											
	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	0.4	-1.6	-0.7	-0.5	2.3	1.2	2.2	-0.9	4.8	0.3
Percentage change, latest quarter on previous quarter											
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	-1.0	0.8	-0.8	1.0	-0.1	0.3	-0.6	1.5	-	2.1	0.2
Q2	-0.2	-0.5	0.1	-1.1	-0.2	-0.5	0.3	0.6	1.0	0.7	-0.1
Q3	0.2	-1.6	-1.1	-0.6	-0.5	-0.1	0.7	0.9	0.5	0.6	-0.2
Q4	-0.4	-0.3	0.2	-0.2	-	-0.1	1.0	-0.8	0.3	-1.1	-0.1
Percentage change, latest quarter on corresponding quarter of the previous year											
2021 Q3	L44S	KI12	L456	L45K	L45Q	L45V	L46M	L46O	L46Q	L47J	L44Q
Q4	16.4	9.9	27.8	5.4	1.9	11.9	4.6	16.7	61.3	11.4	13.4
2022 Q1	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	-3.0	2.3	1.7	0.2	0.2	5.6	1.2	2.1	-6.7	7.2	0.7
Q2	-1.9	2.0	-3.8	-0.9	-0.4	2.4	1.4	1.9	-0.1	5.0	0.5
Q3	-0.7	-1.2	-2.4	-1.3	-0.9	1.6	0.8	2.8	2.0	4.8	0.3
Q4	-1.4	-1.6	-1.6	-0.8	-0.8	-0.3	1.4	2.1	1.8	2.2	-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 prices¹

£ 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 ^{2,7}	General government	Gross fixed capital formation	Of which business investment ³	Of which changes in inventories ⁴	Of which alignment adjustments	Acquisitions less disposals of valuables ⁵	Total	Total exports	Gross final expenditure	less imports	Trade balance ⁶				
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	-	8 726 228	597 676	2 963 623	679 544	-3 518	-	2 284 079		
2022	1 500 399	49 867	526 192	459 428	245 695	24 917	-	-18 147 254	656 837	761 380	417 904	589 -66 828	30 153	2 505 981		
2023	1 608 247	53 076	557 076	490 910	269 257	1 546	-	-15 396 269	459 864	539 355	998 897	916 -33 377	25 104	2 687 186		
Seasonally adjusted																
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	397 244	12 987	133 498	122 832	67 271	447	179	-5 979	661 029	218 104	879 133	228 094	-9 990	6 754	657 793	
Q2	403 862	13 192	139 935	122 528	67 812	1 436	2 987	-3 790	677 163	217 103	894 266	226 445	-9 342	6 093	673 914	
Q3	402 907	13 386	140 973	121 893	66 539	1 023	-3 513	-1 314	678 868	213 701	892 569	220 393	-6 692	6 134	678 310	
Q4	404 234	13 511	142 670	123 657	67 635	-1 360	347	-4 313	678 399	215 631	894 030	222 984	-7 353	6 123	677 169	
Percentage change, latest year on previous year																
2021	KG77	KGZ8	KH2C	KG6O	KG6N			KGX3	KH2O	KG7V	KH3H			IHYM		
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	7.2	6.4	5.9	6.9	9.6			6.0	3.2	5.3	-0.7			7.2		
Percentage change, latest quarter on previous quarter																
2021 Q3	KG78	KGZ9	KH2D	KG6W	KG6V			KGX4	KH2P	KG78	KH3I			IHYN		
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	2.6	1.9	0.8	3.4	6.1			4.0	-6.0	1.3	-1.0			1.9		
Q2	1.7	1.6	4.8	-0.2	0.8			2.4	-0.5	1.7	-0.7			2.5		
Q3	-0.2	1.5	0.7	-0.5	-1.9			0.3	-1.6	-0.2	-2.7			0.7		
Q4	0.3	0.9	1.2	1.4	1.6			-0.1	0.9	0.2	1.2			-0.2		
Percentage change, latest quarter on corresponding quarter of previous year																
2021 Q3	KG79	KH22	KH2E	KG76	KG75			KGX5	KH2Q	KG79	KH3J			IHYO		
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	9.9	6.6	0.3	11.2	14.5			4.0	21.8	7.9	7.3			8.1		
Q2	8.2	6.7	9.0	8.2	11.2			5.6	9.1	6.5	-0.1			8.5		
Q3	6.4	6.5	6.7	4.2	6.5			7.6	-6.0	4.0	-6.2			7.6		
Q4	4.4	6.0	7.7	4.1	6.6			6.8	-7.1	3.1	-3.2			4.9		

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 measures¹

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 ^{2,7}	General government	Gross fixed capital formation	Of which business investment ³	Of which changes in inventories ⁴	Of which alignment	Acquisitions less disposals of valuables ⁵	Total	Total exports	Gross final expenditure	less imports	Total	Trade balance ⁶		
ABJR	HAYO	NMRY	NPQT	NPEL	CAFU	DMUM	NPJR	YBIM	IKBK	ABMG	IKBL	IKBM	GIXS	ABMI	
2021	1 289 290	41 815	451 510	389 652	208 294	-1 714	-	6 959 217	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	-	-17 540 281	994 715 449 299	747 125 186 157	4 368	6 477	567 889		
2023	1 353 287	48 326	464 102	430 107	240 929	-128	-	-12 880 228	814 711 785 299	443 753 962	-30 939	21 251	568 397		
Seasonally adjusted															
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	338 991	12 029	113 488	108 986	60 904	1 113	149	-5 073	569 534 178	739 748 273 185	089 -6 350	5 843	569 027		
Q2	340 193	12 143	116 016	107 707	60 887	956	2 516	-3 060	573 955 178	292 752 247 188	316 -10 024	5 145	569 076		
Q3	337 146	12 120	117 255	106 244	59 159	-1 748	-2 950	-913	570 104 178	081 748 185 184	928 -6 847	5 140	568 397		
Q4	336 957	12 034	117 343	107 170	59 979	-449	285	-3 834	569 221 176	673 745 894 184	391 -7 718	5 123	566 626		
Percentage change, latest year on previous year															
2021	KGZ5	KH26	KH2I	KG7N	KG7M			KGX9	KH2U	KGW5	KH3N			IHP	
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	0.2	3.0	0.5	2.2	5.5			-	-0.5	-0.1	-1.5			0.1	
Percentage change, latest quarter on previous quarter															
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	1.4	-0.8	2.2	4.4			2.4	-6.5	0.1	-1.1			0.2	
Q2	0.4	0.9	2.2	-1.2	-			0.8	-0.3	0.5	1.7			-	
Q3	-0.9	-0.2	1.1	-1.4	-2.8			-0.7	-0.1	-0.5	-1.8			-0.1	
Q4	-0.1	-0.7	0.1	0.9	1.4			-0.2	-0.8	-0.3	-0.3			-0.3	
Percentage change, latest quarter on corresponding quarter of previous year															
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	0.1	4.6	-3.5	5.0	10.5			-3.1	10.2	-0.2	-1.8			0.3	
Q2	0.2	3.2	1.3	3.3	7.2			-1.3	3.9	-0.1	-2.0			0.2	
Q3	0.2	2.7	1.9	0.1	1.9			2.4	-6.5	0.1	-0.7			0.2	
Q4	0.3	1.5	2.5	0.5	2.8			2.3	-7.6	-0.2	-1.5			-0.2	

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2 Non-profit institutions serving households.

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D Gross domestic product by category of income: current prices¹

£ 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	Private non-fina- ncial corporat- ions ²	Of which align- ment adjust- ment	Financial corporat- ions	Public corporat- ions	Total ³	Other income ⁴	Gross value added at factor cost	Taxes	less Subsidies	Total				
													DTWL			DTWP
2021	949 974	206 178	1 556 152	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	1 103 213	231 499	1 334 712	457 811	-	110 022	14 147	581 980	500 620	2 417	312 334	470	53 633	280 837	-10 963	2 687 186
Seasonally adjusted																
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	269 181	56 598	325 779	122 114	1 814	29 529	3 838	155 481	122 425	603 685	82 909	25 399	57 510	-3 402	657 793	
Q2	275 306	57 473	332 779	115 694	1 550	28 026	3 486	147 206	123 983	603 968	84 191	11 733	72 458	-2 512	673 914	
Q3	278 677	57 735	336 412	112 077	-714	26 322	3 457	141 856	127 123	605 391	83 550	8 103	75 447	-2 528	678 310	
Q4	280 049	59 693	339 742	107 926	-2 650	26 145	3 366	137 437	127 089	604 268	83 820	8 398	75 422	-2 521	677 169	
Percentage change, latest year on previous year																
2021	CWNH	CWNE	KGI3	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	3.9	7.4	5.8	-0.4	1.0	4.5	12.3	7.6	2.9	25.9	-0.5	7.2			
Percentage change, latest quarter on previous quarter																
2021 Q3	CWNI	CWNF	KGI4	KH5A	KH5M	KH54	KH4W	KH6U	KH6O	JJDH	JJZD	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	-0.3	2.1	4.6	0.2	6.4	3.8	4.8	3.1	-0.5	41.0	-11.9	1.9			
Q2	2.3	1.5	2.1	-5.3	-5.1	-9.2	-5.3	1.3	-	1.5	-53.8	26.0	2.5			
Q3	1.2	0.5	1.1	-3.1	-6.1	-0.8	-3.6	2.5	0.2	-0.8	-30.9	4.1	0.7			
Q4	0.5	3.4	1.0	-3.7	-0.7	-2.6	-3.1	-	-0.2	0.3	3.6	-	-0.2			
Percentage change, latest quarter on corresponding quarter of previous year																
2021 Q3	CWNJ	CWNG	KGI5	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	5.2	7.4	19.5	13.0	16.8	18.1	13.5	11.2	5.2	203.3	-18.3	8.1			
Q2	9.3	3.2	8.2	6.5	4.4	0.4	5.9	13.6	8.7	5.0	44.9	0.5	8.5			
Q3	8.7	2.1	7.5	6.7	-6.1	-4.9	3.8	13.4	7.7	1.1	-0.1	1.2	7.6			
Q4	6.7	5.1	6.4	-7.5	-11.3	-6.7	-8.3	8.8	3.2	0.6	-53.4	15.5	4.9			

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 ²															
UK DOMESTIC ³															
COICOP ¹	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
	ABJQ	ABTF	ZAKV	ZWUM	ZAKX	ZAKZ	ZAVN	ZAVV	ZAWB	ZAWL	ZAWV	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	1 608 247	21 883	1 586 364	137 297	46 875	75 523	418 978	76 748	32 339	199 746	27 935	147 627	37 693	175 406	210 197
Seasonally adjusted															
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	397 244	5 567	391 677	33 535	11 426	18 750	104 087	19 111	7 896	48 556	6 897	36 615	9 203	42 800	52 801
Q2	403 862	5 713	398 149	34 908	11 900	18 921	104 220	19 613	8 024	50 363	6 964	37 174	9 353	44 096	52 613
Q3	402 907	5 018	397 889	34 457	11 760	18 909	105 192	19 200	8 058	50 644	7 047	37 041	9 499	43 599	52 483
Q4	404 234	5 585	398 649	34 397	11 789	18 943	105 479	18 824	8 361	50 183	7 027	36 797	9 638	44 911	52 300
Percentage change, latest year on previous year															
2021	KG Y7		KG 6U	KG 9N	KG F3	KG F9	KG G7	KG H5	KG I6	KG J4	KG K2	KG K8	KG B2	KG C6	KG E2
	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	7.2		6.9	11.2	2.1	7.8	6.5	0.5	8.3	4.7	2.3	2.8	6.7	5.8	15.7
Percentage change, latest quarter on previous quarter															
2021 Q3	KG Y8		KG 74	KG 9R	KG F4	KG G2	KG G8	KG H6	KG I7	KG J5	KG K3	KG K9	KG B3	KG C7	KG E3
	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	2.6		2.4	3.2	-0.2	4.7	2.0	-	2.8	-1.1	4.8	1.4	1.7	1.1	8.3
Q2	1.7		1.7	4.1	4.1	0.9	0.1	2.6	1.6	3.7	1.0	1.5	1.6	3.0	-0.4
Q3	-0.2		-0.1	-1.3	-1.2	-0.1	0.9	-2.1	0.4	0.6	1.2	-0.4	1.6	-1.1	-0.2
Q4	0.3		0.2	-0.2	0.2	0.2	0.3	-2.0	3.8	-0.9	-0.3	-0.7	1.5	3.0	-0.3
Percentage change, latest quarter on corresponding quarter of previous year															
2021 Q3	KG Y9		KG 7C	KG 9V	KG F5	KG G3	KG G9	KG H7	KG I8	KG J6	KG K4	KG L2	KG B4	KG C8	KG E4
	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	9.9		9.2	14.4	-0.1	8.0	11.2	-0.6	5.4	4.7	-1.9	2.1	6.8	9.0	22.7
Q2	8.2		8.1	15.5	3.4	9.5	6.6	3.6	9.3	6.5	1.9	4.1	6.8	4.0	18.6
Q3	6.4		6.4	9.6	2.0	8.1	5.2	0.5	9.8	5.5	2.9	3.0	6.7	4.4	15.1
Q4	4.4		4.2	5.8	2.9	5.8	3.3	-1.5	8.8	2.2	6.7	1.9	6.5	6.1	7.2

1 ESA 10 Classification of Individual Consumption by Purpose.

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

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

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

£ million

		UK NATIONAL ²							
		UK DOMESTIC ³							
				Goods					
		Total	Net tourism	Total	Total	Durable goods	Semi- durable goods	Non- durable goods	Services
COICOP ¹					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		1 608 247	21 883	1 586 364	639 213	138 938	137 827	362 448	947 151
Seasonally adjusted									
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	397 244	5 567	391 677	160 127	35 017	33 962	91 148	231 550
	Q2	403 862	5 713	398 149	161 303	35 118	34 958	91 227	236 846
	Q3	402 907	5 018	397 889	159 882	34 749	34 666	90 467	238 007
	Q4	404 234	5 585	398 649	157 901	34 054	34 241	89 606	240 748
Percentage change, latest year on previous year									
2021		KG7		KG6U	KHC9	KHB5	KHH5	KHE5	KHF9
		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		7.2		6.9	4.5	-0.7	4.3	6.8	8.6
Percentage change, latest quarter on previous quarter									
2021	Q3	KG78		KG74	KHD2	KHB6	KHH6	KHE6	KHG2
	Q4	4.2		3.7	-2.3	-3.6	-2.7	-1.5	8.4
		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	2.6		2.4	1.6	0.1	2.0	2.1	2.9
	Q2	1.7		1.7	0.7	0.3	2.9	0.1	2.3
	Q3	-0.2		-0.1	-0.9	-1.1	-0.8	-0.8	0.5
	Q4	0.3		0.2	-1.2	-2.0	-1.2	-1.0	1.2
Percentage change, latest quarter on corresponding quarter of previous year									
2021	Q3	KG79		KG7C	KHD3	KHB7	KHH7	KHE7	KHG3
	Q4	11.9		11.7	2.8	-8.4	9.5	5.8	19.0
		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	9.9		9.2	8.4	-1.6	2.3	15.4	9.8
	Q2	8.2		8.1	6.7	1.8	6.7	8.7	9.1
	Q3	6.4		6.4	3.2	-0.2	5.6	3.6	8.7
	Q4	4.4		4.2	0.2	-2.7	2.9	0.4	7.0

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 ²															
UK DOMESTIC ³															
COICOP ¹	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	1 353 287	22 059	1 331 228	106 540	40 909	66 453	358 084	63 698	27 867	165 116	35 378	128 770	33 256	148 424	156 733
Seasonally adjusted															
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	338 991	5 090	333 901	26 937	10 330	17 071	89 224	15 972	6 947	41 104	8 910	32 586	8 239	37 296	39 285
Q2	340 193	5 459	334 734	26 925	10 375	16 694	89 340	16 270	6 981	41 423	8 780	32 386	8 303	37 533	39 724
Q3	337 146	5 349	331 797	26 411	10 124	16 448	89 577	15 920	6 914	41 481	8 842	32 131	8 351	36 657	38 941
Q4	336 957	6 161	330 796	26 267	10 080	16 240	89 943	15 536	7 025	41 108	8 846	31 667	8 363	36 938	38 783
Percentage change, latest year on previous year															
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	0.2	-0.1	-2.8	-3.9	1.1	0.3	-4.9	1.3	4.2	2.7	-1.9	3.0	-0.2	-0.7	
Percentage change, latest quarter on previous quarter															
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	-0.2	-1.4	5.1	0.2	-1.7	-	2.1	5.6	0.7	0.6	0.8	0.8	
Q2	0.4	0.2	-	0.4	-2.2	0.1	1.9	0.5	0.8	-1.5	-0.6	0.8	0.6	1.1	
Q3	-0.9	-0.9	-1.9	-2.4	-1.5	0.3	-2.2	-1.0	0.1	0.7	-0.8	0.6	-2.3	-2.0	
Q4	-0.1	-0.3	-0.5	-0.4	-1.3	0.4	-2.4	1.6	-0.9	-	-1.4	0.1	0.8	-0.4	
Percentage change, latest quarter on corresponding quarter of previous year															
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	0.1	-0.4	-2.9	-3.9	0.6	-0.3	-8.5	-0.9	4.2	0.6	-1.8	3.5	2.7	-2.3	
Q2	0.2	0.1	-2.1	-3.0	2.5	-	-3.1	2.5	4.5	2.8	-1.6	3.5	-1.7	0.3	
Q3	0.2	0.1	-3.3	-5.0	1.5	0.4	-3.7	2.7	6.1	2.8	-2.2	3.0	-1.4	-0.2	
Q4	0.3	-0.1	-2.7	-3.8	-	1.0	-4.4	1.1	2.1	4.9	-2.1	2.1	-0.1	-0.4	

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 ²							
		UK DOMESTIC ³							
				Goods					
		Total	Net tourism	Total	Total	Durable goods	Semi- durable goods	Non- durable goods	Services
COICOP ¹					D	SD	ND	S	
	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	1 353 287	22 059	1 331 228	515 826	116 356	121 417	278 053	815 402	
Seasonally adjusted									
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	338 991	5 090	333 901	130 273	29 437	30 756	70 080	203 628	
Q2	340 193	5 459	334 734	130 031	29 218	30 841	69 972	204 703	
Q3	337 146	5 349	331 797	128 293	29 020	30 256	69 017	203 504	
Q4	336 957	6 161	330 796	127 229	28 681	29 564	68 984	203 567	
Percentage change, latest year on previous year									
	KGZ5		KG7O	KHD7	KHC3	KHI3	KHF3	KHG7	
2021	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	0.2		-0.1	-2.3	-3.3	-0.9	-2.5	1.4	
Percentage change, latest quarter on previous quarter									
	KGZ6		KG7R	KHD8	KHC4	KHI4	KHF4	KHG8	
2021 Q3	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	0.3	-0.9	1.9	0.1	1.2	
Q2	0.4		0.2	-0.2	-0.7	0.3	-0.2	0.5	
Q3	-0.9		-0.9	-1.3	-0.7	-1.9	-1.4	-0.6	
Q4	-0.1		-0.3	-0.8	-1.2	-2.3	-	-	
Percentage change, latest quarter on corresponding quarter of previous year									
	KGZ7		KG7U	KHD9	KHC5	KHI5	KHF5	KHG9	
2021 Q3	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	0.1		-0.4	-3.8	-4.8	-2.7	-3.8	1.8	
Q2	0.2		0.1	-1.7	-2.7	1.0	-2.3	1.3	
Q3	0.2		0.1	-1.8	-2.2	0.1	-2.4	1.3	
Q4	0.3		-0.1	-2.0	-3.5	-2.0	-1.4	1.2	

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 ²				Private Sector				Transport equipment	ICT equipment and other machinery and equipment ³	Dwellings ⁴	Other buildings and structures ⁵	Intellectual Property Products		
	Business investment ¹	General government	Dwellings ⁴	Costs of transfer of ownership of non-produced assets	Dwellings ⁴	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		
	269 257	88 890	6 645	597	105 298	20 223	490 910	36 748	74 928	112 024	161 586	105 624	490 910		
Seasonally adjusted															
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	67 271	21 689	1 788	148	26 729	5 207	122 832	8 620	19 286	28 593	40 286	26 047	122 832		
2023 Q2	67 812	21 526	1 554	152	26 453	5 031	122 528	9 876	18 804	28 009	39 553	26 286	122 528		
2023 Q3	66 539	22 425	1 639	152	26 109	5 029	121 893	9 056	18 385	27 749	40 051	26 652	121 893		
2023 Q4	67 635	23 250	1 664	145	26 007	4 956	123 657	9 196	18 453	27 673	41 696	26 639	123 657		
Percentage change, latest year on previous year															
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		
	9.6	14.6	5.1	-17.7	-0.4	-13.3	6.9	33.3	7.9	-0.1	9.2	3.3	6.9		
Percentage change, latest quarter on previous quarter															
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	6.1	4.6	8.1	-10.8	-2.4	-4.2	3.4	10.9	10.2	-1.7	5.0	-0.1	3.4		
2023 Q3	0.8	-0.8	-13.1	2.7	-1.0	-3.4	-0.2	14.6	-2.5	-2.0	-1.8	0.9	-0.2		
2023 Q4	-1.9	4.2	5.5	-	-1.3	-	-0.5	-8.3	-2.2	-0.9	1.3	1.4	-0.5		
	1.6	3.7	1.5	-4.6	-0.4	-1.5	1.4	1.5	0.4	-0.3	4.1	-	1.4		
Percentage change, latest quarter on corresponding quarter of previous year															
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	14.5	11.9	18.9	-14.9	8.0	-10.8	11.2	42.5	9.0	8.7	14.3	3.6	11.2		
2023 Q3	11.2	17.8	1.4	-22.1	0.7	-16.5	8.2	45.3	11.3	0.7	8.1	4.2	8.2		
2023 Q4	6.5	16.6	0.4	-20.0	-4.6	-16.5	4.2	30.3	6.0	-4.3	6.0	3.2	4.2		
	6.6	12.2	0.6	-12.7	-5.0	-8.8	4.1	18.3	5.5	-4.8	8.7	2.2	4.1		

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 ²				Private Sector				Transport equipment	ICT equipment and other machinery and equipment ³	Dwellings ⁴	Other buildings and structures ⁵	Intellectual Property Products		
	Business investment ¹	General government	Dwellings ⁴	Costs of transfer of ownership of non-produced assets	Dwellings ⁴	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		
	240 929	76 994	5 557	519	88 351	17 757	430 107	35 229	69 054	93 978	134 703	97 143	430 107		
Seasonally adjusted															
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		
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		
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		
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		
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	60 904	18 965	1 457	131	22 941	4 588	108 986	8 426	17 679	24 463	34 218	24 200	108 986		
Q2	60 887	18 674	1 343	133	22 195	4 475	107 707	9 394	17 364	23 540	33 192	24 217	107 707		
Q3	59 159	19 405	1 365	132	21 733	4 450	106 244	8 591	16 925	23 099	33 170	24 459	106 244		
Q4	59 979	19 950	1 392	123	21 482	4 244	107 170	8 818	17 086	22 876	34 123	24 267	107 170		
Percentage change, latest year on previous year															
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		
	5.5	7.7	-1.2	-19.9	-6.4	-13.2	2.2	29.3	3.1	-6.1	2.6	1.9	2.2		
Percentage change, latest quarter on previous quarter															
2021 Q3	KG7P	KH9C	L64U	L64X	L655	L652	KG7Q	KH9F	KH9G	KH9A	KH9H	KH9I	KG7Q		
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		
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		
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	4.4	3.4	2.5	-10.9	-3.7	-0.7	2.2	8.4	7.7	-3.2	4.0	-0.5	2.2		
Q3	-	-1.5	-7.8	1.5	-3.3	-2.5	-1.2	11.5	-1.8	-3.8	-3.0	0.1	-1.2		
Q4	-2.8	3.9	1.6	-0.8	-2.1	-0.6	-1.4	-8.5	-2.5	-1.9	-0.1	1.0	-1.4		
	1.4	2.8	2.0	-6.8	-1.2	-4.6	0.9	2.6	1.0	-1.0	2.9	-0.8	0.9		
Percentage change, latest quarter on corresponding quarter of previous year															
2021 Q3	KG7S	KH9M	L64V	L64Y	L656	L653	KG7T	KH9P	KH9Q	KH9K	KH9R	KH9S	KG7T		
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		
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		
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	10.5	-1.6	7.1	-17.6	1.1	-12.6	5.0	38.2	2.0	1.5	3.7	3.8	5.0		
Q3	7.2	10.8	-4.9	-24.0	-6.3	-16.3	3.3	42.8	5.5	-6.2	1.8	2.8	3.3		
Q4	1.9	14.1	-4.7	-21.0	-10.0	-15.1	0.1	26.2	1.0	-9.8	1.2	1.3	0.1		
	2.8	8.7	-2.0	-16.3	-9.9	-8.2	0.5	13.4	4.1	-9.5	3.7	-0.2	0.5		

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

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

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

4 Includes new dwellings and improvements to dwellings.

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

G1 Changes in inventories at current prices ¹

£ million

	Mining and quarrying	Manufacturing industries				Electricity, gas and water supply	Distributive trades			Changes in inventories ³
		Materials and fuel	Work in progress	Finished goods	Total		Wholesale ²	Retail ²	Other industries ³	
Level of inventories held at end-December 2019	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	373	1 566	1 516	1 529	4 611	658	-2 485	-4 974	3 363	1 546
Seasonally adjusted										
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	213	188	694	-826	56	482	-838	-2 835	3 369	447
Q2	357	560	645	648	1 853	-46	-3 456	-760	3 488	1 436
Q3	-251	744	369	1 498	2 611	263	3 001	-866	-3 735	1 023
Q4	54	74	-192	209	91	-41	-1 192	-513	241	-1 360

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 measures¹

Reference year 2019, £ million

	Mining and quarrying	Manufacturing industries				Electricity, gas and water supply	Distributive trades			Changes in inventories ³
		Materials and fuel	Work in progress	Finished goods	Total		Wholesale ²	Retail ²	Other industries ³	
Level of inventories held at end-December 2019	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	456	725	1 219	732	2 676	26	-431	-2 775	-80	-128
Seasonally adjusted										
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	123	570	646	-1 057	159	1 146	-212	-2 235	2 132	1 113
Q2	193	181	305	594	1 080	-1 820	-793	-412	2 708	956
Q3	104	345	262	1 108	1 715	701	751	-554	-4 465	-1 748
Q4	36	-371	6	87	-278	-1	-177	426	-455	-449

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 ¹
	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	394 764	469 775	864 539	581 483	316 433	897 916	-186 719	153 342	-33 377
Seasonally adjusted									
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	101 481	116 623	218 104	151 538	76 556	228 094	-50 057	40 067	-9 990
Q2	99 861	117 242	217 103	147 658	78 787	226 445	-47 797	38 455	-9 342
Q3	95 617	118 084	213 701	140 677	79 716	220 393	-45 060	38 368	-6 692
Q4	97 805	117 826	215 631	141 610	81 374	222 984	-43 805	36 452	-7 353
Percentage change, latest year on previous year									
	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	-7.2	13.9	3.2	-9.5	20.7	-0.7			
Percentage change, latest quarter on previous quarter									
	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	-14.9	3.3	-6.0	-4.5	6.8	-1.0			
Q2	-1.6	0.5	-0.5	-2.6	2.9	-0.7			
Q3	-4.2	0.7	-1.6	-4.7	1.2	-2.7			
Q4	2.3	-0.2	0.9	0.7	2.1	1.2			
Percentage change, latest quarter on corresponding quarter of previous year									
	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	14.8	28.5	21.8	-2.9	35.7	7.3			
Q2	0.3	17.9	9.1	-8.1	19.3	-0.1			
Q3	-19.1	8.1	-6.0	-15.8	17.4	-6.2			
Q4	-18.0	4.4	-7.1	-10.7	13.5	-3.2			

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

H2 Exports and imports of goods and services

Chained volume measures

Reference year 2019, £ million

	Exports			Imports			Balance
	Goods	Services	Total	Goods	Services	Total	Total ¹
	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	330 681	381 104	711 785	475 937	266 787	742 724	-30 939
Seasonally adjusted							
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	84 211	94 528	178 739	120 230	64 859	185 089	-6 350
Q2	83 709	94 583	178 292	121 678	66 638	188 316	-10 024
Q3	80 908	97 173	178 081	117 469	67 459	184 928	-6 847
Q4	81 853	94 820	176 673	116 560	67 831	184 391	-7 718
Percentage change, latest year on previous year							
	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	-7.7	6.7	-0.5	-8.4	13.8	-1.5	
Percentage change, latest quarter on previous quarter							
	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	-14.5	2.0	-6.5	-4.7	6.4	-1.1	
Q2	-0.6	0.1	-0.3	1.2	2.7	1.7	
Q3	-3.3	2.7	-0.1	-3.5	1.2	-1.8	
Q4	1.2	-2.4	-0.8	-0.8	0.6	-0.3	
Percentage change, latest quarter on corresponding quarter of previous year							
	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	6.9	13.3	10.2	-11.2	22.1	-1.8	
Q2	0.8	6.8	3.9	-7.9	10.8	-2.0	
Q3	-17.4	4.9	-6.5	-6.7	11.9	-0.7	
Q4	-16.9	2.3	-7.6	-7.6	11.3	-1.5	

¹ 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	208 711	262 528	-53 817	186 053	318 955	-132 902
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	54 496	71 101	-16 605	46 985	80 437	-33 452
Q2	53 690	66 782	-13 092	46 171	80 876	-34 705
Q3	49 260	62 605	-13 345	46 357	78 072	-31 715
Q4	51 265	62 040	-10 775	46 540	79 570	-33 030

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	176 886	208 681	-31 795	153 795	267 256	-113 461
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	45 723	54 127	-8 404	38 488	66 103	-27 615
Q2	45 152	53 559	-8 407	38 557	68 119	-29 562
Q3	42 242	51 147	-8 905	38 666	66 322	-27 656
Q4	43 769	49 848	-6 079	38 084	66 712	-28 628

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	219 467	89 053	56 247	13 651	51 963	71 825	54 870	557 076
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	52 844	21 620	13 748	3 257	11 945	16 415	13 669	133 498
Q2	55 732	22 208	13 820	3 417	13 094	18 011	13 653	139 935
Q3	55 065	22 542	14 234	3 465	13 426	18 533	13 708	140 973
Q4	55 826	22 683	14 445	3 512	13 498	18 866	13 840	142 670

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	174 215	75 563	50 846	9 827	45 035	61 916	46 700	464 102
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	43 129	18 615	12 589	2 440	10 253	14 710	11 752	113 488
Q2	43 540	18 903	12 696	2 446	11 396	15 363	11 672	116 016
Q3	43 840	19 107	12 754	2 455	11 665	15 791	11 643	117 255
Q4	43 706	18 938	12 807	2 486	11 721	16 052	11 633	117 343

Gross value added at basic prices: individual measures

	£ million				Index numbers (2019 = 100) ³				
	Expenditure-based estimate at chained volume measures	At current prices			Value indices at current prices		Chained volume indices		
		Expenditure-based estimate	Income-based estimate	Residual error ¹	Expenditure-based estimate	Income-based estimate	Expenditure-based estimate	Income-based estimate ²	Output-based estimate
	CAGR	CAGQ	CAGS	DJDS	IHYA	IHYB	IHYC	IHYD	YBFR
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	2 008 343	2 406 764	2 442 831	–36 067	120.6	122.4	100.6	102.1	102.3
Seasonally adjusted									
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	502 377	599 961	610 117	–10 156	120.3	122.3	100.7	102.4	102.4
Q2	502 914	601 532	610 137	–8 605	120.6	122.3	100.8	102.2	102.4
Q3	502 289	603 018	611 680	–8 662	120.9	122.6	100.7	102.1	102.3
Q4	500 763	602 253	610 897	–8 644	120.7	122.4	100.4	101.8	102.0
Percentage change, latest year on previous year									
	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	8.6	7.7		8.6	7.7	0.4	–0.5	0.3
Percentage change, latest quarter on previous quarter									
	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	0.5	3.8	3.1		3.8	3.1	0.5	–0.2	0.2
Q2	0.1	0.3	–		0.3	–	0.1	–0.2	–
Q3	–0.1	0.2	0.3		0.2	0.3	–0.1	–0.1	–0.1
Q4	–0.3	–0.1	–0.1		–0.1	–0.1	–0.3	–0.3	–0.3
Percentage change, latest quarter on corresponding quarter of previous year									
	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	12.0	11.5		12.0	11.5	0.4	–0.1	0.6
Q2	0.6	10.0	8.7		10.0	8.7	0.6	–0.5	0.5
Q3	0.4	8.7	7.8		8.7	7.8	0.4	–0.5	0.5
Q4	0.2	4.2	3.2		4.2	3.2	0.2	–0.7	–0.2

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 adjustments¹

£ million

	Changes in inventories		Gross operating surplus of non-financial corporations at current prices
	At current prices	Chained volume measures (Reference year 2019)	
Seasonally adjusted			
	DMUN	DMUM	DMUQ
2021 Q3	277	281	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	179	149	1 814
Q2	2 987	2 516	1 550
Q3	-3 513	-2 950	-714
Q4	347	285	-2 650

¹ 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 2022/23 = 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 ^{3,4}
	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	94.4622
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	93.6883
2022/23	2 555 445	2 553 253	2 310 057	526 544	79 907	2 272 395	2 029 013	457 572	71 175	100.0000
Seasonally adjusted										
2021 Q3	581 506	574 173	520 069	126 347	18 066	555 956	497 326	115 146	17 338	93.0119
Q4	596 674	608 389	531 982	127 250	17 928	564 407	504 035	116 404	17 339	94.0090
2022 Q1	608 329	614 472	542 303	133 146	19 375	567 396	506 542	117 600	19 268	95.3404
Q2	621 272	613 002	554 798	128 435	18 267	567 889	506 988	114 550	16 854	97.2844
Q3	630 575	628 962	561 790	132 118	19 225	567 445	506 585	115 094	17 009	98.8184
Q4	645 805	649 545	586 754	132 493	20 726	568 034	507 220	114 440	18 347	101.1001
2023 Q1	657 793	661 744	606 715	133 498	21 689	569 027	508 220	113 488	18 965	102.7971
Q2	673 914	667 297	607 625	139 935	21 526	569 076	508 059	116 016	18 674	105.3074
Q3	678 310	674 808	609 152	140 973	22 425	568 397	507 429	117 255	19 405	106.1209
Q4	677 169	683 337	608 376	142 670	23 250	566 626	505 886	117 343	19 950	106.2736
Percentage change, latest financial year on previous financial year										
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	8.5	8.1	9.8	2.7	9.4	1.7	1.6	-1.2	0.5	6.7
Percentage change, latest quarter on previous quarter										
	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	1.9	1.9	3.4	0.8	4.6	0.2	0.2	-0.8	3.4	1.7
Q2	2.5	0.8	0.1	4.8	-0.8	-	-	2.2	-1.5	2.4
Q3	0.7	1.1	0.3	0.7	4.2	-0.1	-0.1	1.1	3.9	0.8
Q4	-0.2	1.3	-0.1	1.2	3.7	-0.3	-0.3	0.1	2.8	0.1
Percentage change, latest quarter on corresponding quarter of previous year										
	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	8.1	7.7	11.9	0.3	11.9	0.3	0.3	-3.5	-1.6	7.8
Q2	8.5	8.9	9.5	9.0	17.8	0.2	0.2	1.3	10.8	8.2
Q3	7.6	7.3	8.4	6.7	16.6	0.2	0.2	1.9	14.1	7.4
Q4	4.9	5.2	3.7	7.7	12.2	-0.2	-0.3	2.5	8.7	5.1

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 deflators¹

2023 = 100

	Implied deflators ²		
	Gross national expenditure	Gross domestic product at market prices ³	Gross value added at basic prices
	MNE2	MNF2	MNX5
2021	88.9688	88.7893	87.6822
2022	94.4154	93.3517	92.4437
2023	100.0000	100.0000	100.0000
Seasonally adjusted			
2021 Q3	88.7887	88.4776	87.2744
Q4	90.1977	89.4261	88.0853
2022 Q1	91.5480	90.6926	89.3498
Q2	93.3887	92.5418	91.3281
Q3	96.0072	94.0010	92.5526
Q4	96.7175	96.1716	96.5443
2023 Q1	98.2966	97.7859	99.6323
Q2	99.9201	100.1737	99.8133
Q3	100.8483	100.9476	100.1884
Q4	100.9350	101.0928	100.3660
Percentage change, latest year on previous year			
	MNE3	MNF3	MNX6
2021	-	-0.3	-0.8
2022	6.1	5.1	5.4
2023	5.9	7.1	8.2
Percentage change, latest quarter on previous quarter			
	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	1.6	1.7	3.2
Q2	1.7	2.4	0.2
Q3	0.9	0.8	0.4
Q4	0.1	0.1	0.2
Percentage change, latest quarter on corresponding quarter of previous year			
	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	7.8	11.5
Q2	7.0	8.2	9.3
Q3	5.0	7.4	8.3
Q4	4.4	5.1	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 Head¹

£

	UK resident population mid-year estimates (persons thousands) ²	Current Prices		Chained volume measures (Reference year 2019)	
		Gross domestic product at market prices ³	Gross domestic product per head	Gross domestic product at market prices ³	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	2 687 186	39 315	2 273 126	33 257
Seasonally adjusted					
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	657 793	9 644	569 027	8 342
Q2	68 350	673 914	9 860	569 076	8 326
Q3	68 519	678 310	9 900	568 397	8 295
Q4	68 688	677 169	9 859	566 626	8 249
Percentage change, latest year on previous year					
		IHYM	N3Y3	IHYP	N3Y6
2021		8.5	8.6	8.7	8.8
2022		9.7	8.5	4.3	3.2
2023		7.2	6.4	0.1	-0.7
Percentage change, latest quarter on previous quarter					
		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		1.9	1.5	0.2	-0.2
Q2		2.5	2.2	-	-0.2
Q3		0.7	0.4	-0.1	-0.4
Q4		-0.2	-0.4	-0.3	-0.6
Percentage change, latest quarter on corresponding quarter of previous year					
		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		8.1	7.2	0.3	-0.6
Q2		8.5	7.6	0.2	-0.6
Q3		7.6	6.6	0.2	-0.8
Q4		4.9	3.7	-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/nationalaccountsrevisionspolicyupdated-december2017>), 2022 is now 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/tablea11principalprojectionuk-summary>

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

R Revisions Analysis¹

Revisions since previously published estimates

£ million

2023

Latest less previously published levels of GDP at current market prices

National accounts aggregates at current prices (Table A2)

Gross domestic product at market prices	KB7D	-2 788
less Basic price adjustment	KB7E	-834
Gross value added at basic prices	KB7F	-1 954

Gross domestic product:

expenditure at current prices (Table C1)

National expenditure on goods and services at market prices		
Households	KB7K	-4 293
Non-profit institutions serving households	KB7L	223
General government	KB7M	914
Gross fixed capital formation	KB7N	-1 885
Changes in inventories	KB7O	107
Acquisitions less disposals of valuables	KB7P	-1 086
Total	KB7Q	-6 020
Total exports	KB7R	5 328
Total imports	KB7S	2 153
Statistical discrepancy (expenditure)	KB7T	57

Gross domestic product:

income at current prices (Table D)

Compensation of employees	KB7U	3 204
Gross operating surplus of corporations	KB7V	-3 702
Other income	KB7W	-1 511
Gross value added at factor cost	KB7X	-2 009
Taxes on products & production less Subsidies	KB7Y	-977
Statistical discrepancy (income)	KB7Z	198

2023

Latest less previously published growth rates for GDP in chained volume terms

Percentage changes in volume of GDP (Table A2)

Gross domestic product chained volume measures Year on year growth	KB82	-
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Percentage changes in volume

of GVA output components (Table B1)

GVA at basic prices		
Agriculture, forestry and fishing	KB83	0.2
Mining and quarrying inc oil & gas extraction	KB84	0.6
Manufacturing	KB85	-0.1
Electricity, gas, steam and air	KB86	-0.1
Water supply, sewerage	KNT7	0.3
Total Production	KB87	-0.1
Construction	KB88	0.1
Distribution, hotels and restaurants	KB89	-
Transport storage and communications	KB8A	-0.1
Business services and finance	KB8B	-0.2
Government and other services	KB8C	0.3
Total services	KB8D	-
Total GVA	KB8E	-
Total GVA excluding Oil	KB8F	-

Percentage changes in volume

of GDP expenditure components (Table C2)

National expenditure on goods and services at market prices		
Households	KB8G	-0.1
Non-profit institutions serving households	KB8H	0.9
General government	KB8I	-0.1
Gross fixed capital formation	KB8J	-0.7
Total	KB8K	-0.3
Total exports	KB8L	0.9
Total imports	KB8M	0.1

R Revisions Analysis¹

Revisions since previously published estimates

continued

£ million

		2023 Q1	2023 Q2	2023 Q3	2023 Q4
Latest less previously published levels of GDP					
at current market prices					
National accounts aggregates					
at current prices (Table A2)					
Gross domestic product at market prices	KB7D	-761	-357	-888	-782
less Basic price adjustment	KB7E	-31	-199	-39	-565
Gross value added at basic prices	KB7F	-730	-158	-849	-217
Gross domestic product:					
expenditure at current prices (Table C1)					
National expenditure on goods and services					
at market prices					
Households	KB7K	-563	-1 240	-1 179	-1 311
Non-profit institutions serving households	KB7L	36	44	69	74
General government	KB7M	-159	61	486	526
Gross fixed capital formation	KB7N	-4	-200	-310	-1 371
Changes in inventories	KB7O	1 048	149	-34	-1 056
Acquisitions less disposals of valuables	KB7P	86	22	-26	-1 168
Total	KB7Q	444	-1 164	-994	-4 306
Total exports	KB7R	-1 126	546	245	5 663
Total imports	KB7S	110	-248	145	2 146
Statistical discrepancy (expenditure)	KB7T	31	13	6	7
Gross domestic product:					
income at current prices (Table D)					
Compensation of employees	KB7U	118	435	533	2 118
Gross operating surplus of corporations	KB7V	-776	-355	-1 260	-1 311
Other income	KB7W	-108	-320	-205	-878
Gross value added at factor cost	KB7X	-766	-240	-932	-71
Taxes on products & production less Subsidies	KB7Y	-30	-171	-10	-766
Statistical discrepancy (income)	KB7Z	35	54	54	55

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

		2023 Q1	2023 Q2	2023 Q3	2023 Q4
Latest less previously published growth rates					
for GDP in chained volume terms					
Percentage changes in volume of GDP (Table A2)					
Gross domestic product chained volume measures					
Quarter on quarter growth	KB82	-	-	-	-
Quarter on same quarter a year earlier	KB94	-	-0.1	-	-
Percentage changes in volume					
of GVA output components (Table B1)					
GVA at basic prices quarter on quarter growth					
Agriculture, forestry and fishing	KB83	-	-	0.2	-
Mining and quarrying inc oil & gas extraction	KB84	0.3	0.2	0.3	0.3
Manufacturing	KB85	-	-0.1	-0.2	-0.1
Electricity, gas, steam and air	KB86	0.1	-0.3	-	-0.1
Water supply, sewerage	KNT7	0.4	-0.1	0.2	-0.5
Total Production	KB87	0.1	-0.1	-0.1	-0.1
Construction	KB88	-0.3	0.3	0.5	0.4
Distribution, hotels and restaurants	KB89	-0.2	-	0.1	0.2
Transport storage and communications	KB8A	-0.3	0.3	-	-0.1
Business services and finance	KB8B	-	-0.1	-0.1	-0.2
Government and other services	KB8C	0.1	-	0.2	0.3
Total services	KB8D	-0.1	-	-	0.1
Total GVA	KB8E	-	-	0.1	-
Total GVA excluding Oil	KB8F	-	-	0.1	-
Percentage changes in volume of GDP					
expenditure components (Table C2)					
National expenditure on goods and services					
at market prices quarter on quarter growth					
Households	KB8G	-	-0.1	-	-
Non-profit institutions serving households	KB8H	0.8	0.6	-0.6	-0.6
General government	KB8I	-	-0.2	-	0.4
Gross fixed capital formation	KB8J	-0.3	-0.3	-	-0.5
Total	KB8K	0.1	-0.2	-0.2	-0.5
Total exports	KB8L	-0.4	0.5	0.7	2.1
Total imports	KB8M	0.1	-0.2	-	0.5



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

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 ³	Total Services	Distri- bution, hotels & restaurants	Transport storage and commu- nications	Business services and finance	Govern- ment and other services
Percentage change, latest year on previous year												
Growth												
	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	-	-0.4	-13.7	1.1	-1.9	-2.3	2.1	0.3	-1.7	0.4	0.5	1.3
Contributions to growth												
	ZZ3V	ZZ3W	ZZ3Y	ZZ3X	ZZ3Z	ZZ42	ZZ43	ZZ44	ZZ45	ZZ46	ZZ47	ZZ48
2021	-0.05	-0.61	-0.27	0.18	-0.57	0.06	0.59	8.49	2.46	0.88	1.90	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	-	-0.05	-0.11	0.11	-0.02	-0.03	0.13	0.26	-0.23	0.04	0.18	0.27
Percentage change, latest quarter on previous quarter												
Growth												
	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	-	0.2	-8.0	0.6	1.6	0.7	-0.7	0.2	-1.0	0.8	0.3	0.6
Q2	-	0.8	-0.7	1.6	-3.1	-1.7	0.5	-0.1	-0.1	-0.5	-0.5	0.7
Q3	0.4	-	0.2	-	1.7	-1.3	0.6	-0.2	-0.1	-1.6	-0.3	0.7
Q4	0.2	-1.1	-2.7	-1.0	-2.7	-	-0.9	-0.1	-0.3	-0.3	-0.1	-0.1
Contributions to growth												
	ZZ2F	ZZ2G	ZZ2I	ZZ2H	ZZ2J	ZZ2K	ZZ2L	ZZ2M	ZZ2N	ZZ2O	ZZ2P	ZZ2Q
2021 Q3	0.01	-0.33	0.11	-0.22	-0.22	-	-0.12	1.99	0.65	0.19	0.06	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	-	0.02	-0.06	0.06	0.01	0.01	-0.05	0.20	-0.13	0.09	0.12	0.12
Q2	-	0.10	-	0.16	-0.03	-0.02	0.03	-0.11	-0.02	-0.06	-0.18	0.15
Q3	-	-	-	-	0.02	-0.02	0.04	-0.16	-0.01	-0.17	-0.12	0.15
Q4	-	-0.14	-0.02	-0.10	-0.02	-	-0.06	-0.11	-0.04	-0.03	-0.03	-0.01
Percentage change, latest quarter on corresponding quarter of previous year												
Growth												
	L3ZZ	L426	L427	L42D	L44C	L44G	L44M	L44Q	L47F	KII2	KIH9	KIH8
2021 Q3	-4.4	-9.3	-21.0	-4.9	-41.2	3.6	5.1	13.4	18.8	9.9	6.3	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	-1.9	-14.1	-1.2	-1.0	-0.6	4.0	0.7	-2.0	2.3	2.2	-0.7
Q2	-0.6	-0.5	-16.2	1.5	-3.4	-3.2	2.7	0.5	-2.4	2.0	0.5	1.5
Q3	-0.2	1.0	-13.5	2.9	-0.9	-3.1	2.3	0.3	-1.0	-1.2	-	2.4
Q4	0.6	-0.1	-10.8	1.3	-2.5	-2.3	-0.6	-0.2	-1.5	-1.6	-0.6	1.9
Contributions to growth												
	ZZ36	ZZ37	ZZ39	ZZ38	ZZ3A	ZZ3B	ZZ3C	ZZ3D	ZZ3E	ZZ3F	ZZ3G	ZZ3H
2021 Q3	-0.03	-1.48	-0.24	-0.57	-0.72	0.05	0.31	10.35	2.39	1.03	2.23	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	-	-0.25	-0.11	-0.12	-0.01	-0.01	0.25	0.59	-0.26	0.25	0.76	-0.16
Q2	-	-0.06	-0.13	0.14	-0.03	-0.04	0.17	0.41	-0.32	0.22	0.18	0.33
Q3	-	0.13	-0.11	0.28	-0.01	-0.04	0.15	0.23	-0.14	-0.13	-0.01	0.51
Q4	-	-0.01	-0.08	0.12	-0.02	-0.03	-0.04	-0.18	-0.19	-0.17	-0.22	0.41

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^{1,2}

Chained Volume Measures

Seasonally adjusted data

Reference year 2019

	Final consumption expenditure								Net trade
	Households	Non-profit institutions ³	General government	Gross capital formation	Gross fixed capital formation	Business investment	Total exports	less Total imports	
Percentage change, latest year on previous year									
Growth									
	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	0.2	3.0	0.5	-1.4	2.2	5.5	-0.5	-1.5	
Contributions to growth									
	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	0.12	0.06	0.11	-0.25	0.41	0.56	-0.16	-0.49	0.33
Percentage change, latest quarter on previous quarter									
Growth									
	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	1.4	-0.8	11.7	2.2	4.4	-6.5	-1.1	
Q2	0.4	0.9	2.2	0.5	-1.2	-	-0.3	1.7	
Q3	-0.9	-0.2	1.1	-1.9	-1.4	-2.8	-0.1	-1.8	
Q4	-0.1	-0.7	0.1	-0.7	0.9	1.4	-0.8	-0.3	
Contributions to growth									
	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	0.52	0.03	-0.17	1.93	0.40	0.45	-2.19	-0.36	-1.83
Q2	0.21	0.02	0.44	0.10	-0.22	-	-0.08	0.57	-0.65
Q3	-0.54	-	0.22	-0.36	-0.26	-0.30	-0.04	-0.60	0.56
Q4	-0.03	-0.02	0.02	-0.12	0.16	0.14	-0.25	-0.09	-0.15
Percentage change, latest quarter on corresponding quarter of previous year									
Growth									
	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	0.1	4.6	-3.5	-12.6	5.0	10.5	10.2	-1.8	
Q2	0.2	3.2	1.3	-8.4	3.3	7.2	3.9	-2.0	
Q3	0.2	2.7	1.9	11.0	0.1	1.9	-6.5	-0.7	
Q4	0.3	1.5	2.5	9.4	0.5	2.8	-7.6	-1.5	
Contributions to growth									
	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	0.09	0.09	-0.72	-2.66	0.91	1.02	2.92	-0.60	3.52
Q2	0.10	0.07	0.26	-1.72	0.60	0.72	1.18	-0.68	1.87
Q3	0.13	0.06	0.38	1.81	0.03	0.19	-2.19	-0.22	-1.98
Q4	0.16	0.03	0.51	1.55	0.08	0.29	-2.55	-0.48	-2.07

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

AC Annex C - Growth and contributions to growth - income components of GDP^{1,2}

Current Prices

Seasonally adjusted data

	Compen- sation of employees	Gross operating surplus of corporations ³	Other income ⁴	Taxes on products & production less subsidies
Percentage change, latest year on previous year				
Growth				
	KGI3	KH4V	KH6T	KH65
2021	5.6	5.3	3.8	58.7
2022	7.5	10.5	8.0	33.8
2023	7.4	4.5	12.3	-0.5
Contributions to growth				
	ZZ7H	ZZ7I	ZZ7J	ZZ7K
2021	2.89	1.21	0.71	3.69
2022	3.80	2.32	1.44	3.12
2023	3.64	0.99	2.17	-0.06
Percentage change, latest quarter on previous quarter				
Growth				
	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	2.1	3.8	4.8	-11.9
Q2	2.1	-5.3	1.3	26.0
Q3	1.1	-3.6	2.5	4.1
Q4	1.0	-3.1	-	-
Contributions to growth				
	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	1.05	0.90	0.89	-1.23
Q2	1.09	-1.28	0.24	2.32
Q3	0.58	-0.85	0.50	0.48
Q4	0.58	-0.77	-0.01	-
Percentage change, latest quarter on corresponding quarter of previous year				
Growth				
	KGI5	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	7.4	18.1	13.5	-18.3
Q2	8.2	5.9	13.6	0.5
Q3	7.5	3.8	13.4	1.2
Q4	6.4	-8.3	8.8	15.5
Contributions to growth				
	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	3.66	3.90	2.38	-2.11
Q2	4.07	1.33	2.40	0.06
Q3	3.72	0.82	2.39	0.14
Q4	3.21	-1.93	1.60	1.58

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 GDP¹

Seasonally adjusted data

Reference year 2019

	Final consumption expenditure				Gross fixed capital formation	Total exports	less Total imports
	Households	Non-profit institutions ²	General government	Gross capital formation			
Percentage change, latest year on previous year							
	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	7.0	3.4	5.3	3.7	4.6	3.7	0.8
Percentage change, latest quarter on previous quarter							
	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	1.7	0.5	1.6	1.9	1.2	0.5	0.1
Q2	1.3	0.6	2.5	1.9	0.9	-0.2	-2.4
Q3	0.7	1.7	-0.3	3.2	0.9	-1.5	-0.9
Q4	0.4	1.7	1.1	-2.3	0.6	1.7	1.5
Percentage change, latest quarter on corresponding quarter of previous year							
	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	9.8	1.9	3.9	4.3	6.0	10.5	9.3
Q2	8.0	3.4	7.6	3.5	4.7	5.0	2.0
Q3	6.2	3.7	4.7	1.7	4.1	0.5	-5.6
Q4	4.1	4.5	5.0	4.6	3.6	0.5	-1.8

¹ 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

² Non-profit institutions serving households

AE Annex E - Output components of GDP- growths and revisions from previous estimate^{1,2}, Chained Volume Measures

Seasonally adjusted data

Reference year 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	Distrib- ution, hotels & restaurants	Transport, storage and commu- nications	Business services and finance	Govern- ment & other services
Percentage change, latest year on previous year												
Current estimates³												
	L3BB	L3BG	L3BH	L3BN	L3DM	L3DQ	L3DW	L3E2	L3GP	KI8L	KI8N	KI8P
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	-	-0.4	-13.7	1.1	-1.9	-2.3	2.1	0.3	-1.7	0.4	0.5	1.3
Previous estimates²												
	A2EQ	A2ER	A2ET	A2ES	A2EU	A2EV	A2EW	A2EY	A2F2	A2F3	A2F4	A2F5
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
Revisions												
	ZZ52	ZZ53	ZZ55	ZZ54	ZZ56	ZZ57	ZZ58	ZZ59	ZZ5A	ZZ5B	ZZ5C	ZZ5D
2021	-	-	-	-	-	-	-	-	-	-	-	-
2022	-	-	-	-	-	-	-	-	-	-	-	-
2023	0.2	-0.1	0.6	-0.1	-0.1	0.3	0.1	-	-	-0.1	-0.2	0.3
Percentage change, latest quarter on previous quarter												
Current estimates³												
	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	-	0.2	-8.0	0.6	1.6	0.7	-0.7	0.2	-1.0	0.8	0.3	0.6
Q2	-	0.8	-0.7	1.6	-3.1	-1.7	0.5	-0.1	-0.1	-0.5	-0.5	0.7
Q3	0.4	-	0.2	-	1.7	-1.3	0.6	-0.2	-0.1	-1.6	-0.3	0.7
Q4	0.2	-1.1	-2.7	-1.0	-2.7	-	-0.9	-0.1	-0.3	-0.3	-0.1	-0.1
Previous estimates²												
	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	-	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
Revisions												
	ZZ4A	ZZ4B	ZZ4D	ZZ4C	ZZ4E	ZZ4F	ZZ4G	ZZ4H	ZZ4I	ZZ4J	ZZ4K	ZZ4L
2021 Q3	-	-	-	-	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-	-	-	-	-
2022 Q1	-	-	-	-	-	-	-	-	-	-	-	-
Q2	-	-	-	-	-	-	-	-	-	-	-	-
Q3	-	-	-	-	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-	-	-	-	-
2023 Q1	-	0.1	0.3	-	0.1	0.4	-0.3	-0.1	-0.2	-0.3	-	0.1
Q2	-	-0.1	0.2	-0.1	-0.3	-0.1	0.3	-	-	0.3	-0.1	-
Q3	0.2	-0.1	0.3	-0.2	-	0.2	0.5	-	0.1	-	-0.1	0.2
Q4	-	-0.1	0.3	-0.1	-0.1	-0.5	0.4	0.1	0.2	-0.1	-0.2	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 GDP first quarterly estimate

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

AE Annex E - Output components of GDP- growths and revisions from previous estimate^{1,2}, Chained Volume Measures

continued

Seasonally adjusted data

Reference year 2019

	Agri- culture, forestry, and fishing	Total Production	Mining & quarrying & gas extract	Manu- facturing	Electric, gas, steam & air	Water supply, sewerage	Constr- uction	Total Services	Distri- bution, hotels & restaurants	Transport, storage and commu- nications	Business services and finance	Govern- ment & other services
Percentage growths, latest quarter on corresponding quarter of previous year												
Current estimates³												
	L3ZZ	L426	L427	L42D	L44C	L44G	L44M	L44Q	L47F	KII2	KIH9	KIH8
2021 Q3	-4.4	-9.3	-21.0	-4.9	-41.2	3.6	5.1	13.4	18.8	9.9	6.3	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	-1.9	-14.1	-1.2	-1.0	-0.6	4.0	0.7	-2.0	2.3	2.2	-0.7
Q2	-0.6	-0.5	-16.2	1.5	-3.4	-3.2	2.7	0.5	-2.4	2.0	0.5	1.5
Q3	-0.2	1.0	-13.5	2.9	-0.9	-3.1	2.3	0.3	-1.0	-1.2	-	2.4
Q4	0.6	-0.1	-10.8	1.3	-2.5	-2.3	-0.6	-0.2	-1.5	-1.6	-0.6	1.9
Previous estimates²												
	A2DZ	A2E2	A2E4	A2E3	A2E5	A2EE	A2EK	A2EL	A2EM	A2EN	A2EO	A2EP
2021 Q3	-4.4	-9.3	-21.0	-4.9	-41.2	3.6	5.1	13.4	18.8	9.9	6.3	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
Revisions												
	ZZ4N	ZZ4O	ZZ4Q	ZZ4P	ZZ4R	ZZ4S	ZZ4T	ZZ4U	ZZ4V	ZZ4W	ZZ4X	ZZ4Y
2021 Q3	-	-	-	-	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-	-	-	-	-
2022 Q1	-	-	-	-	-	-	-	-	-	-	-	-
Q2	-	-	-	-	-	-	-	-	-	-	-	-
Q3	-	-	-	-	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-	-	-	-	-
2023 Q1	-	0.1	0.3	-	0.1	0.4	-0.5	-0.1	-0.2	-0.3	-	0.1
Q2	-	-	0.4	-	-0.2	0.3	-0.2	-	-0.2	-	-0.1	0.1
Q3	0.2	-0.1	0.8	-0.3	-0.2	0.5	0.3	-	-	-	-0.2	0.3
Q4	0.3	-0.2	1.1	-0.3	-0.2	-	0.7	-	0.2	-0.2	-0.4	0.6

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

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

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

AF Annex F - Expenditure components of GDP- growths and revisions from previous estimate^{1,2}, Chained Volume Measures

Seasonally adjusted data

Reference year 2019

	Final consumption expenditure							less Total imports
	Households	Non-profit institutions ^{3, 5}	General government	Gross Capital Formation	Gross Fixed Capital Formation	Business investment	Total exports	
Percentage change, latest year on previous year								
Current estimates⁴								
	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	0.2	3.0	0.5	-1.4	2.2	5.5	-0.5	-1.5
Previous estimates²								
	A275	A276	A289	A28J	A28L	A29D	A29F	A2CK
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
Revisions								
	ZZ83	ZZ84	ZZ85	ZZ86	ZZ87	ZZ88	ZZ89	ZZ8A
2021	-	-	-	-	-	-	-	-
2022	-	-	-	-	-	-	-	-
2023	-0.1	0.9	-0.1	-1.1	-0.7	-0.6	0.9	0.1
Percentage change, latest quarter on previous quarter								
Current estimates⁴								
	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	1.4	-0.8	11.7	2.2	4.4	-6.5	-1.1
Q2	0.4	0.9	2.2	0.5	-1.2	-	-0.3	1.7
Q3	-0.9	-0.2	1.1	-1.9	-1.4	-2.8	-0.1	-1.8
Q4	-0.1	-0.7	0.1	-0.7	0.9	1.4	-0.8	-0.3
Previous estimates²								
	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	0.9	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
Revisions								
	ZZ7L	ZZ7M	ZZ7N	ZZ7O	ZZ7P	ZZ7Q	ZZ7R	ZZ7S
2021 Q3	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-
2022 Q1	-	-	-	-	-	-	-	-
Q2	-	-	-	-	-	-	-	-
Q3	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-
2023 Q1	-	0.8	-	0.6	-0.3	0.2	-0.4	0.1
Q2	-0.1	0.6	-0.2	-0.6	-0.3	-0.9	0.5	-0.2
Q3	-	-0.6	-	-0.8	-	-	0.7	-
Q4	-	-0.6	0.4	-3.1	-0.5	-0.1	2.1	0.5

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

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

3 Non-profit institutions serving households

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

5 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^{1,2}, Chained Volume Measures

continued

Seasonally adjusted data

Reference year 2019

	Final consumption expenditure							Total exports	less Total imports
	Households	Non-profit institutions ³	General government	Gross capital formation	Gross fixed capital formation	Business investment			
Percentage change, latest quarter on corresponding quarter of the previous year									
Current estimates⁴									
	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	0.1	4.6	-3.5	-12.6	5.0	10.5	10.2	-1.8	
Q2	0.2	3.2	1.3	-8.4	3.3	7.2	3.9	-2.0	
Q3	0.2	2.7	1.9	11.0	0.1	1.9	-6.5	-0.7	
Q4	0.3	1.5	2.5	9.4	0.5	2.8	-7.6	-1.5	
Previous estimates²									
	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	0.2	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	
Revisions									
	ZZ7T	ZZ7U	ZZ7V	ZZ7W	ZZ7X	ZZ7Y	ZZ7Z	ZZ82	
2021 Q3	-	-	-	-	-	-	-	-	
Q4	-	-	-	-	-	-	-	-	
2022 Q1	-	-	-	-	-	-	-	-	
Q2	-	-	-	-	-	-	-	-	
Q3	-	-	-	-	-	-	-	-	
Q4	-	-	-	-	-	-	-	-	
2023 Q1	-0.1	0.8	-	0.4	-0.4	0.2	-0.5	0.1	
Q2	-0.1	1.5	-0.2	-	-0.7	-0.7	0.1	-	
Q3	-0.2	0.9	-0.2	-1.0	-0.7	-0.7	0.8	-	
Q4	-0.1	0.3	0.1	-4.4	-1.2	-0.9	2.7	0.5	

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

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

3 Non-profit institutions serving households

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

5 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 affects 2020Q1 onwards. The latest figures for the affected series can be found in the UK Economic Accounts dataset.

AG Annex G - Income components of GDP- growths and revisions from previous estimate^{1,2}, Current Prices

Seasonally adjusted data

	Compensation of employees	Gross operating surplus of corporations	Other income	Taxes on products & production less subsidies
Percentage change, latest year on previous year				
Current estimates³				
	KGI3	KH4V	KH6T	KH65
2021	5.6	5.3	3.8	58.7
2022	7.5	10.5	8.0	33.8
2023	7.4	4.5	12.3	-0.5
Previous estimates²				
	A2CT	A2CU	A2CV	A2CW
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
Revisions				
	ZZ8J	ZZ8K	ZZ8L	ZZ8M
2021	-	-	-	-
2022	-	-	-	-
2023	0.3	-0.6	-0.3	-0.3
Percentage change, latest quarter on previous quarter				
Current estimates³				
	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	2.1	3.8	4.8	-11.9
Q2	2.1	-5.3	1.3	26.0
Q3	1.1	-3.6	2.5	4.1
Q4	1.0	-3.1	-	-
Previous estimates²				
	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	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
Revisions				
	ZZ8B	ZZ8C	ZZ8D	ZZ8E
2021 Q3	-	-	-	-
Q4	-	-	-	-
2022 Q1	-	-	-	-
Q2	-	-	-	-
Q3	-	-	-	-
Q4	-	-	-	-
2023 Q1	0.1	-0.5	-0.1	-
Q2	-	0.3	-0.1	-0.2
Q3	-	-0.6	0.1	0.2
Q4	0.5	-	-0.5	-1.0

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 estimate refers to estimates from the GDP first quarterly estimate

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

AG Annex G - Income components of GDP- growths and revisions from previous estimate^{1,2}, Current Prices

continued Seasonally adjusted data

	Compen- sation of employees	Gross operating surplus of corporations	Other income	Taxes on products & production less subsidies
Percentage change, latest quarter on corresponding quarter of previous year				
Current estimates³				
	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	7.4	18.1	13.5	-18.3
Q2	8.2	5.9	13.6	0.5
Q3	7.5	3.8	13.4	1.2
Q4	6.4	-8.3	8.8	15.5
Previous estimates²				
	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	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
Revisions				
	ZZ8F	ZZ8G	ZZ8H	ZZ8I
2021 Q3	-	-	-	-
Q4	-	-	-	-
2022 Q1	-	-	-	-
Q2	-	-	-	-
Q3	-	-	-	-
Q4	-	-	-	-
2023 Q1	0.1	-0.6	-0.1	-
Q2	0.1	-0.3	-0.3	-0.3
Q3	0.2	-0.9	-0.1	-
Q4	0.6	-0.9	-0.7	-1.2

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

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

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