

Statistical bulletin

GDP quarterly national accounts, UK: July to September 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.



Contact:
Niamh McAuley
gdp@ons.gov.uk
+44 1633 455284

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1 . Main points

- UK gross domestic product (GDP) is estimated to have fallen by 0.1% in Quarter 3 (July to Sept) 2023, revised down from a first estimate of no growth.
- UK GDP is now estimated to have shown no growth in Quarter 2 (Apr to June) 2023, revised down from a previously estimated increase of 0.2%, while growth in Quarter 1 (Jan to Mar) 2023 and all quarters of 2022 is unrevised.
- Looking at the quarters open to revision, real GDP growth is unrevised in five of the seven quarters compared with the first quarterly estimate; however, it is important to note that the typical absolute average revision between the initial quarterly GDP estimate and the estimate three years later is 0.2 percentage points, as there is potential for revision to GDP when the annual supply and use balance occurs as more comprehensive annual data sources are available at a detailed industry and product level; all the GDP growth vintages for these quarters are shown in Table 4.
- In output terms, there was a 0.2% fall in the services sector in the latest quarter, which offset a 0.4% increase in construction output and a 0.1% increase in the production sector.
- The household saving ratio is estimated at 10.1% in the latest quarter, up from 9.5% in Quarter 2 2023 because of an increase in income outweighing a slight increase in expenditure.
- Real households' disposable income (RHDI) is estimated to have grown by 0.4% following growth of 2.3% in Quarter 2 2023.

2 . Headline GDP figures

UK gross domestic product (GDP) is estimated to have fallen by 0.1% in Quarter 3 (July to Sept) 2023, revised down from a first estimate of no growth. This now follows an estimate of no growth in the previous quarter (previously 0.2%). Figure 1 shows though, there have been no revisions to headline GDP from Quarter 1 (Jan to Mar) 2022 to Quarter 1 2023.

Revisions primarily reflect the trade-off between the timeliness and accuracy of estimates of GDP. In line with the [National Accounts Revision Policy](#), this release contains revisions to data from Quarter 1 2022. This release includes revisions to 2022 and 2023 as a result of updated and revised source data, including new Value Added Tax (VAT) turnover data for Quarter 2 (Apr to June) 2023. Based on these new data we have also reviewed the balancing of the three approaches to measuring GDP from 2022 onwards.

While the quarterly path of real GDP at an aggregate level is unrevised across all of 2022 and Quarter 1 2023, there have been some revisions to individual components for GDP. For more information, see [Section 6: Revisions to GDP](#). An indicative monthly real GDP path consistent with these quarterly figures can be found in the [associated dataset](#).

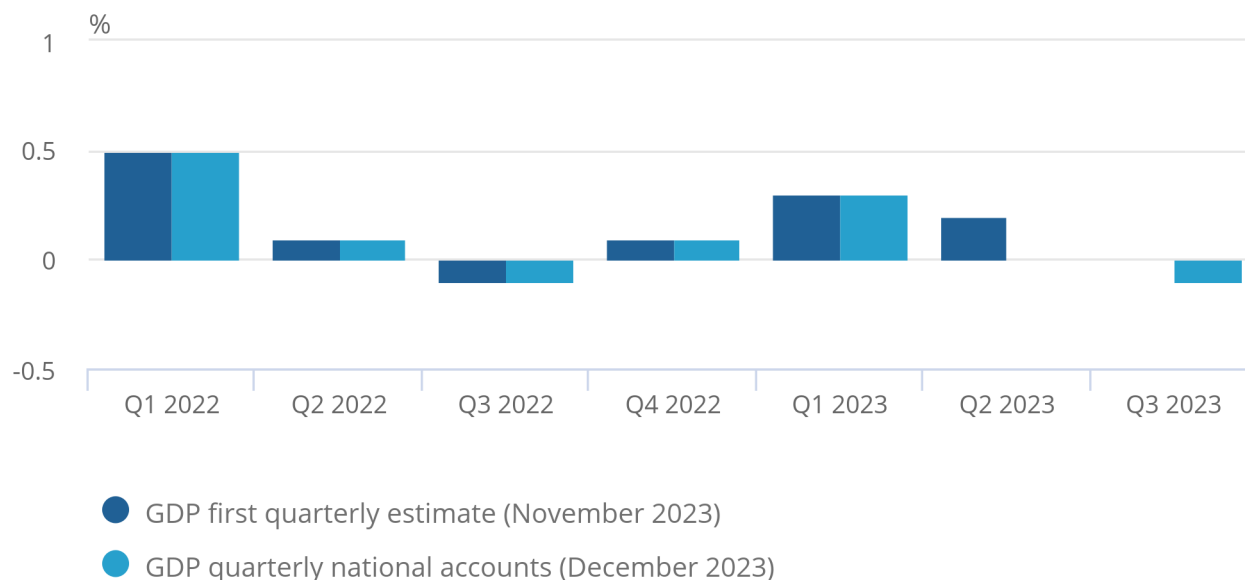
Early estimates of GDP are subject to revision (positive or negative); for more information please refer to our [Communicating the UK economic cycle methodology](#) and [GDP revisions in Blue Book: 2023 article](#).

Figure 1: Real GDP is estimated to have fallen by 0.1% in Quarter 3 2023, revised down from the first estimate

UK, Quarter 1 (Jan to Mar) 2022 to Quarter 3 (July to Sept) 2023

Figure 1: Real GDP is estimated to have fallen by 0.1% in Quarter 3 2023, revised down from the first estimate

UK, Quarter 1 (Jan to Mar) 2022 to Quarter 3 (July to Sept) 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 (%).

UK GDP is estimated to have increased by 4.3% in 2022, unrevised from the first estimate. As explained in our previous article, [Impact of Blue Book 2023 changes on gross domestic product](#), 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 have not yet been fully reconciled in a SUTs framework so this estimate of real GDP growth reflects the average of the output, expenditure and income measures. There can be differences in the three approaches, reflecting data uncertainty at this stage. Statistical discrepancies published in our [GDP data tables](#) show how far apart the measures are at this stage in the production cycle (Figure 2).

The three approaches to measuring GDP are currently estimating 2022 annual growth in a range of 3.1% to 5.3%, which reflects that there is some uncertainty around the underlying components for the three measures of GDP. The differences in these approaches may be for various reasons, which are now discussed.

In the output approach, we do not have estimates for [intermediate consumption](#) (value of goods and services purchased to be used up in the production of goods and services), as such, we use turnover and output as a proxy for changes in gross value added. Therefore we assume that the intermediate consumption ratio by industry, calculated in 2021, holds constant into 2022 and onwards, in other words, input costs as a proportion of turnover or output remain fixed.

In the expenditure approach, there may be added uncertainty as we have lower response rates for areas such as the Living Costs and Foods Survey, which underpin our estimates of household consumption. As part of this release we also have not taken on our 2022 annual benchmark data for the International Trade in Services (ITIS) Survey, which forms our estimates of trade in services, as we have been developing and improving methodology for the sample and require additional time to quality assure the data. Quarterly ITIS data for 2022 are included in the dataset.

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 HM Revenue and Customs (HMRC) and are available with a lag of approximately two years. We are therefore relying on [contextual data](#) from other sources to inform these quarterly estimates. It is also 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.

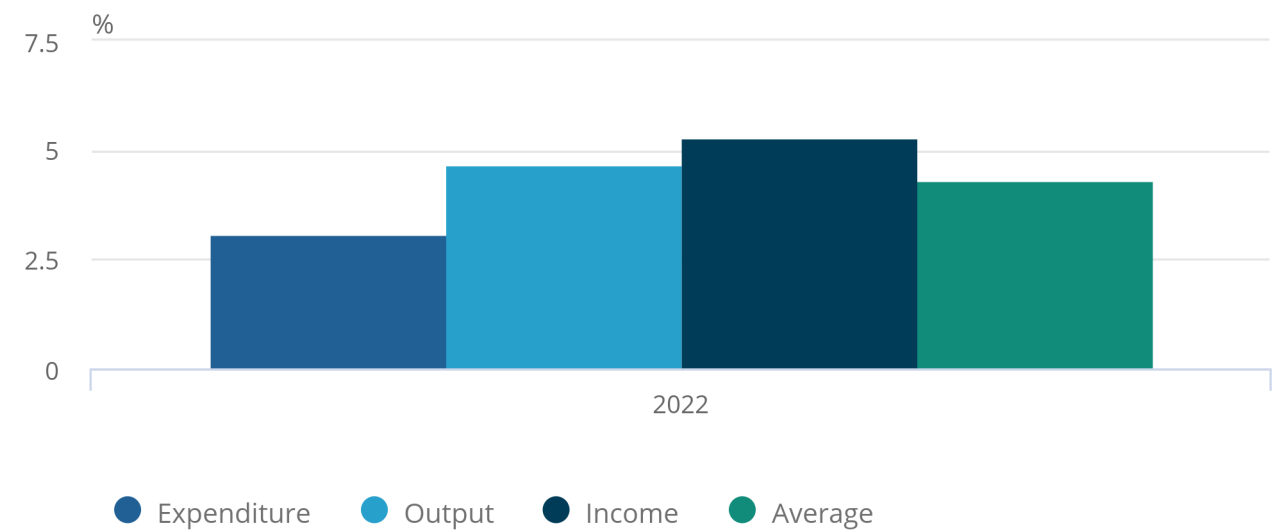
Estimates for 2022 will next be open for revision as part of our [June 2024 Quarterly national accounts](#) publication, whereby these data will be confronted through the SUTs framework for the first time, and as a result, there will be one single estimate of GDP.

Figure 2: Real GDP is estimated to have increased by 4.3% in 2022, unrevised from the first estimate

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

Figure 2: Real GDP is estimated to have increased by 4.3% in 2022, unrevised from the first estimate

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



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

Notes:

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

Nominal GDP is estimated to have increased by 1.4% in Quarter 3 2023, unrevised from the first estimate. This captures price and volume changes in how much GDP has been produced. Compared with the same quarter a year ago, nominal GDP is estimated to have increased by 8.7%.

Table 1: Headline national accounts indicators for the UK
% growth

	Chained volume measures		Current market prices	
	GDP	GDP per head [note 3]	GDP	GDP implied deflator
Seasonally adjusted				
2022	4.3	3.2	9.7	5.1
Q1 2022	0.5	0.2	2.0	1.4
Q2 2022	0.1	-0.2	2.1	2.0
Q3 2022	-0.1	-0.2	1.5	1.6
Q4 2022	0.1	0.0	2.4	2.3
Q1 2023	0.3	0.1	2.2	1.9
Q2 2023	0.0	-0.1	2.4	2.4
Q3 2023	-0.1	-0.3	1.4	1.5

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. Population data are consistent with the mid-2020 estimates published on 27 January 2023.

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 a revised 1.5% in Quarter 3 2023 (previously 1.4%), where the quarterly increase is primarily driven by higher price pressures for gross capital formation as well as an easing in the implied price of imports, which contributes positively to the GDP implied deflator.

Compared with the same quarter a year ago, there was an 8.4% increase in the GDP implied deflator, revised up from a first estimate of 7.9% (Figure 3).

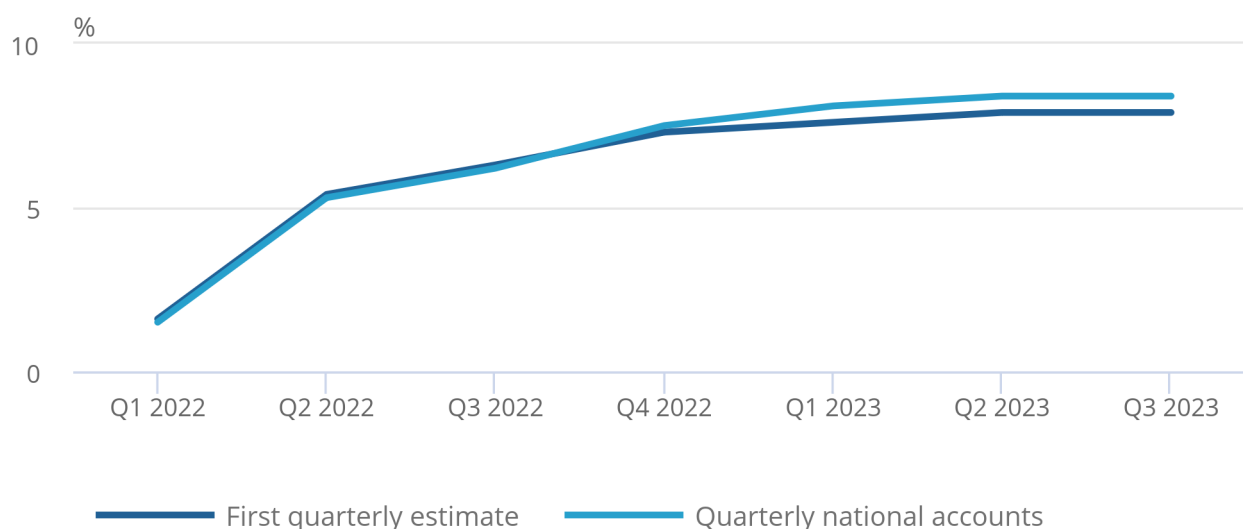
Revisions to the implied deflator, particularly from Quarter 4 (Oct to Dec) onwards, are driven by upward revisions in the implied price for gross capital formation, household consumption, exports and imports.

Figure 3: The implied price of GDP increased by a revised 8.4% in Quarter 3 2023 compared with the same quarter a year ago

UK, quarter on quarter a year ago growth in the implied price deflator, Quarter 1 (Jan to Mar) 2022 to Quarter 3 (July to Sept) 2023

Figure 3: The implied price of GDP increased by a revised 8.4% in Quarter 3 2023 compared with the same quarter a year ago

UK, quarter on quarter a year ago growth in the implied price deflator, Quarter 1 (Jan to Mar) 2022 to Quarter 3 (July to Sept) 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).

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3 . Output

In Quarter 3 (July to Sept) 2023, output is estimated to have fallen by 0.1% (revised down from the first estimate of no growth). This follows no growth in Quarter 2 (Apr to June) 2023, revised down from a first estimate increase of 0.2%.

The services sector is now estimated to have fallen by 0.2% in the third quarter of 2023, revised down from a first estimate fall of 0.1%. The production sector is now estimated to have increased by 0.1%, revised up from a first estimate of no growth. Elsewhere, construction output is revised up to a 0.4% increase (previously 0.1%).

In Quarter 2 2023, the services sector is now estimated to have fallen by 0.1%, revised down from a first estimate of no growth. Elsewhere, the production sector is now estimated to have increased by 0.9% (previously 1.2%) and construction by 0.4% (previously 0.3%).

These revisions to components are discussed in more detail.

Services

Services output is now estimated to have fallen by 0.2% in the latest quarter, revised down from a first estimate fall of 0.1%. Figure 4 shows that there were falls in 8 out of 14 subsectors, which is largely unchanged from the first estimate, however, there have been revisions to the drivers of growth across the quarter.

Overall, consumer-facing services fell by 1.0%, revised down from a first estimate fall of 0.7%. This is the largest decline in consumer-facing services since Quarter 1 (Jan to Mar) 2021.

The largest contributions to the fall in total services were from a decline of 1.4% in the information and communication subsector. Within this, there were falls in five out of six industries, with the largest in telecommunications.

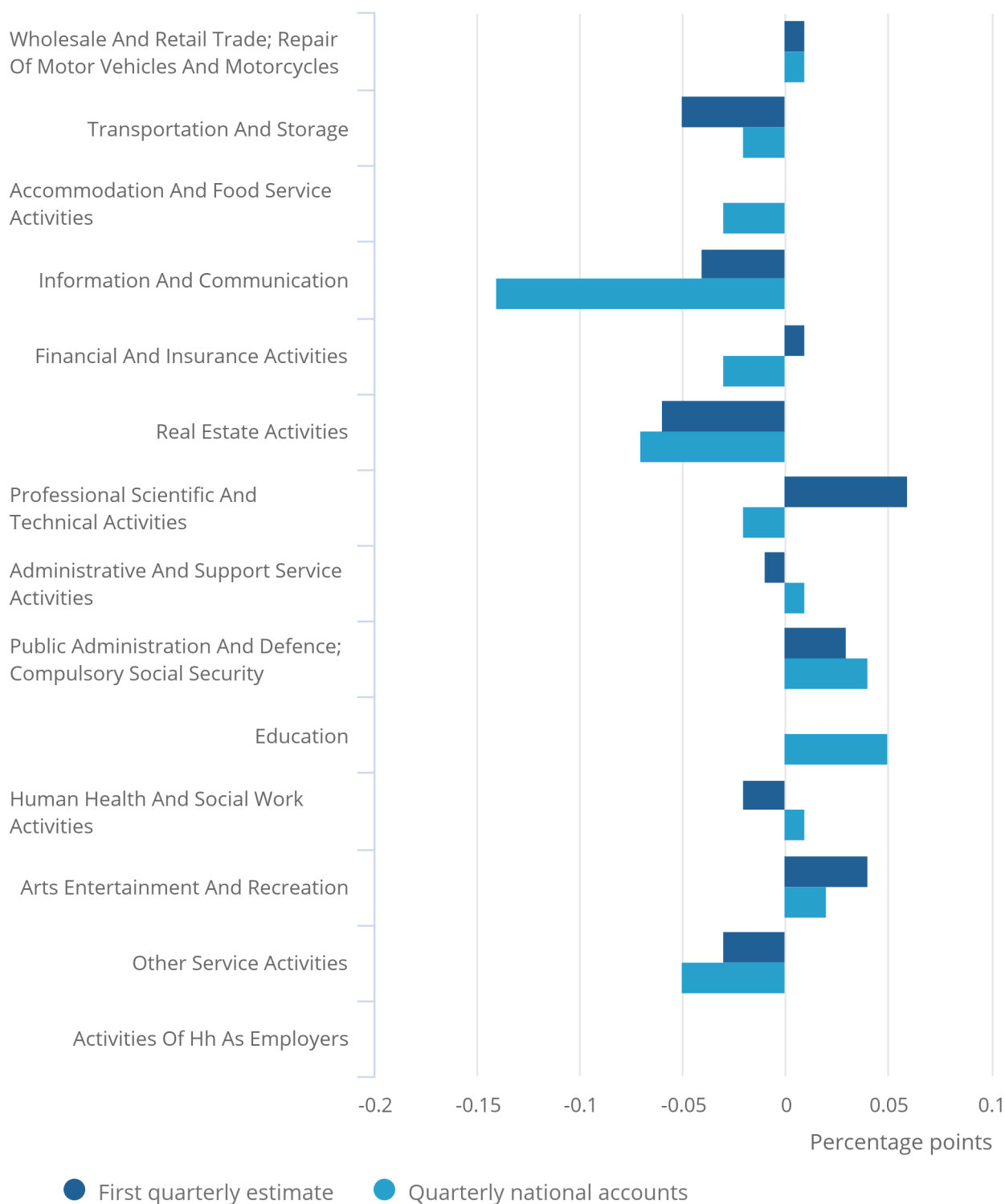
The largest positive contribution to growth was from the education sector, which increased by 0.7% with increased school attendance across the quarter. The next largest positive contributions to growth were from public administration and defence, which increased by 0.7%; and arts, entertainment and recreation, which increased by 1.0%.

Figure 4: There have been some larger revisions to quarterly growth across the services sector in Quarter 3 2023

UK, contributions to services growth, Quarter 3 (July to Sept) 2023

Figure 4: There have been some larger revisions to quarterly growth across the services sector in Quarter 3 2023

UK, contributions to services growth, Quarter 3 (July to Sept) 2023



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

Notes:

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

Across 2022 and 2023, the services sector sees revisions to growth mainly driven by the transport, storage and communications; and business services and finance subsectors (Figure 5). Overall the revisions to services mainly reflect the following discussed industries.

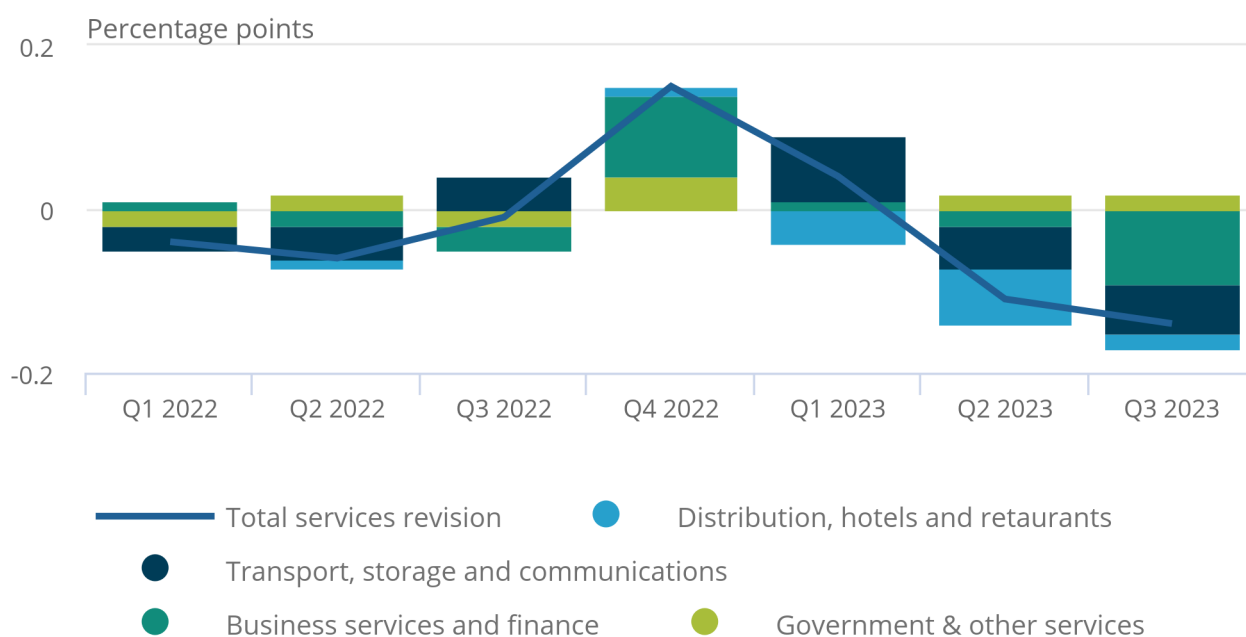
- Information and communication: this revision is driven by changes to telecommunications and computer programming; the revision to telecommunications reflects updated deflator data, whereas the revision to computer programming is mainly because of updated deflator data as well as seasonal adjustment, there are also revisions across the industries because of weaker Value Added Tax data (VAT) for Quarter 2 2023, which has been incorporated for the first time.
- Transport and storage: this subsector sees revisions mostly in air transport; and postal and courier activities because of new and revised data.
- Accommodation and food service activities: this subsector sees revisions in both industries as a result of revised survey data and new VAT data.
- Professional, scientific and technical activities: the upward revision in Quarter 4 (Oct to Dec) 2022 and Quarter 1 2023 are driven by new and revised survey data within the advertising and market research industry; in Quarter 3 2023, six of the eight industries in this section are revised down, with the largest contribution coming from architecture and engineering activities; technical testing and analysis, because of revised survey data since our last publication and the new VAT data for Quarter 2 2023.

Figure 5: Revisions to services across 2022 and 2023 are mainly driven by the transport, storage and communications; and business services and finance subsectors

UK, revisions contributions to services output, Quarter 1 (Jan to Mar) 2022 to Quarter 3 (July to Sept) 2023

Figure 5: Revisions to services across 2022 and 2023 are mainly driven by the transport, storage and communications; and business services and finance subsectors

UK, revisions contributions to services output, Quarter 1 (Jan to Mar) 2022 to Quarter 3 (July to Sept) 2023



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

Notes:

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

Production

The production sector is now estimated to have increased by 0.1% in the latest quarter, revised up from no growth in the previous estimate. The revisions within production are discussed in more detail in this section.

Within production in the latest quarter, growth in manufacturing; mining and quarrying; and electricity, gas, steam and air conditioning supply was partially offset by a fall in water supply; sewerage, waste management and remediation activities.

Manufacturing output increased by an unrevised 0.1% with increases in 7 out of the 13 subsectors (Figure 6), with the largest positive contribution from the manufacture of transport equipment that has seen four consecutive quarters of positive growth. Anecdotal evidence from the Society of Motor Manufacturers and Traders (SMMT) reported that [car manufacturing for September 2023 was up 14.9% compared with the same month last year](#).

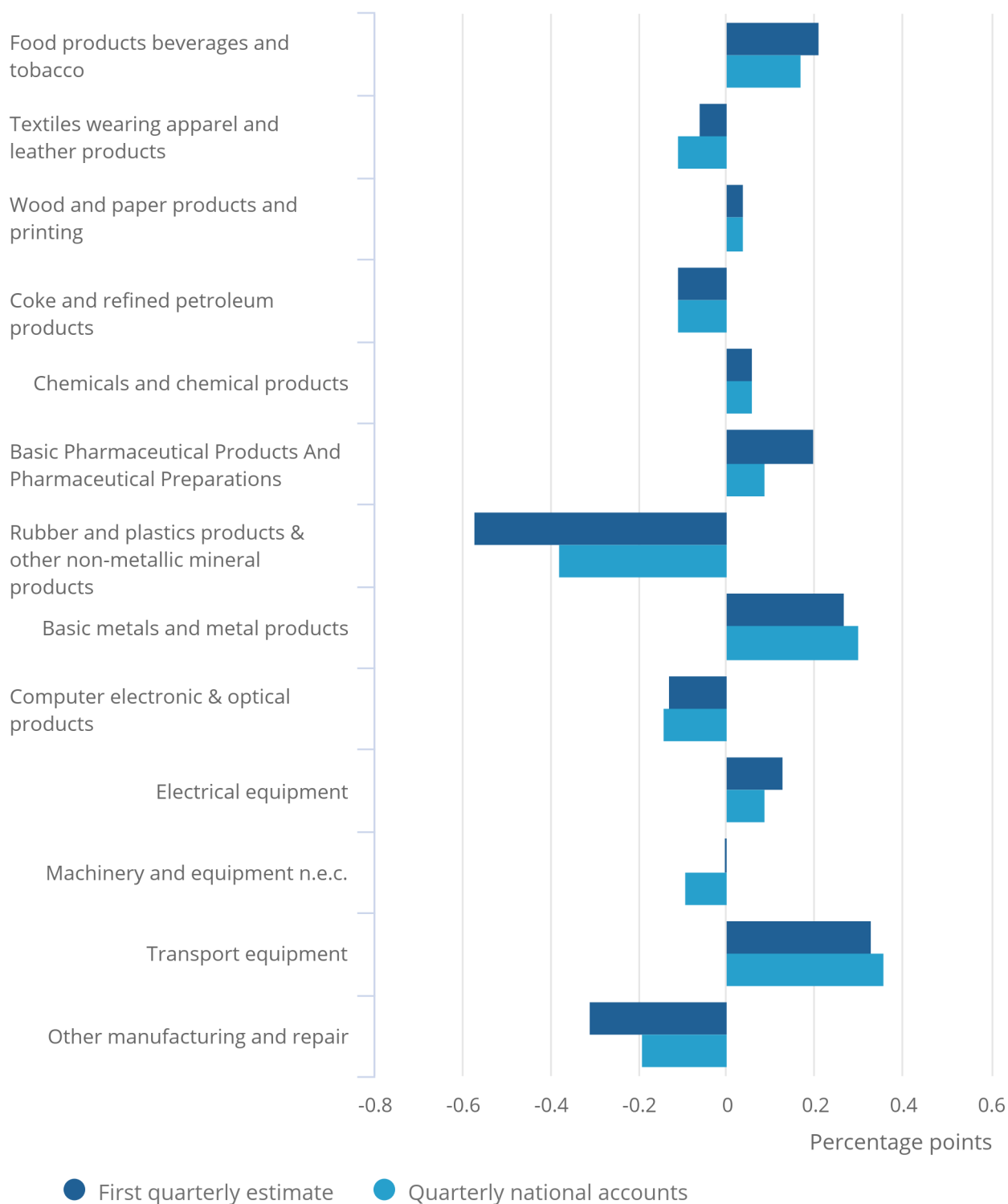
Figure 6 shows the contributions to manufacturing growth are largely unchanged from the first estimate.

Figure 6: There have been minimal revisions to quarterly growth across the manufacturing sector in Quarter 3 2023

UK, contributions to manufacturing growth, Quarter 3 (July to Sept) 2023

Figure 6: There have been minimal revisions to quarterly growth across the manufacturing sector in Quarter 3 2023

UK, contributions to manufacturing growth, Quarter 3 (July to Sept) 2023



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

Notes:

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

Across 2022 and 2023, the production sector sees revisions to growth mainly driven by manufacturing; and the electricity, gas and steam subsectors (Figure 7). Overall the revisions to production reflect:

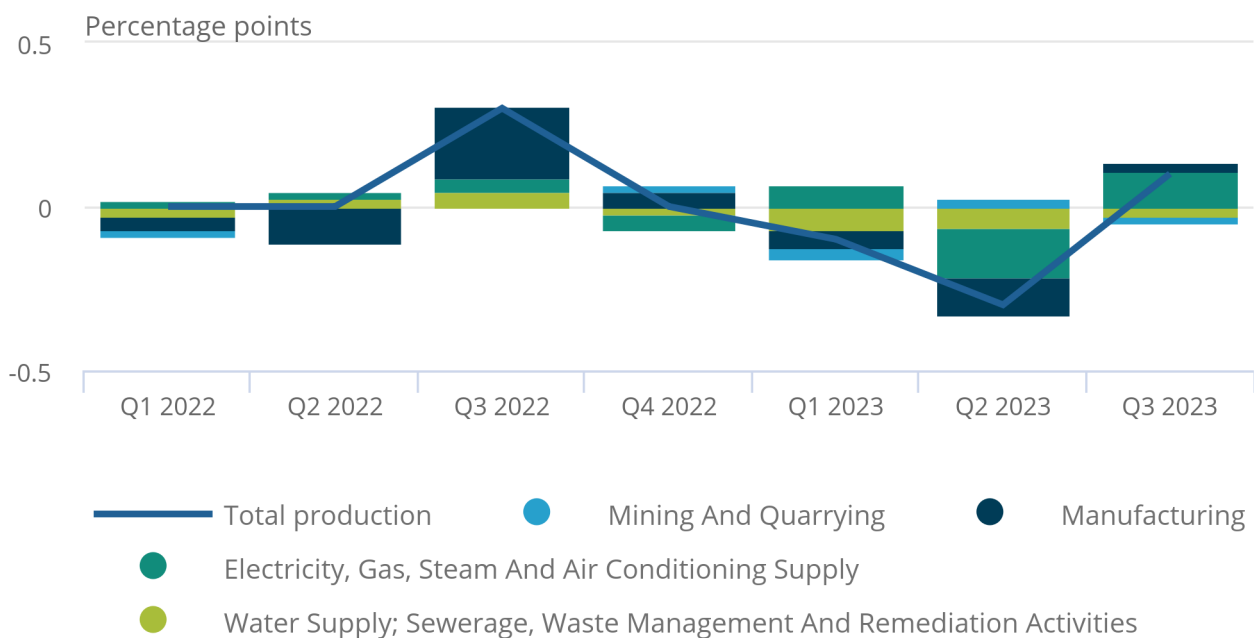
- revised volume data from the [Department for Energy Security and Net Zero \(DESNZ\)](#) for electricity, gas, steam and air conditioning supply
- new Value Added Tax (VAT) turnover data for Quarter 2 2023
- new and revised Monthly Business Survey data
- seasonal adjustment models

Figure 7: Revisions to production output across 2022 and 2023 are mainly driven by manufacturing; and the electricity, gas and steam subsectors

UK, revisions contributions to production growth, Quarter 1 (Jan to Mar) 2022 to Quarter 3 (July to Sept) 2023

Figure 7: Revisions to production output across 2022 and 2023 are mainly driven by manufacturing; and the electricity, gas and steam subsectors

UK, revisions contributions to production growth, Quarter 1 (Jan to Mar) 2022 to Quarter 3 (July to Sept) 2023



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

Notes:

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

Construction

Construction output rose by 0.4% in Quarter 3 2023, revised up from a first estimate increase of 0.1%. Revisions across the construction sector reflect new VAT data taken on for the first time for the periods Quarter 4 2022 to Quarter 2 2023, as well as revised Monthly Business Survey data.

The growth in Quarter 3 2023 is driven by an increase of 1.5% in repair and maintenance, partially offset by a 0.4% fall in new work.

4 . Expenditure

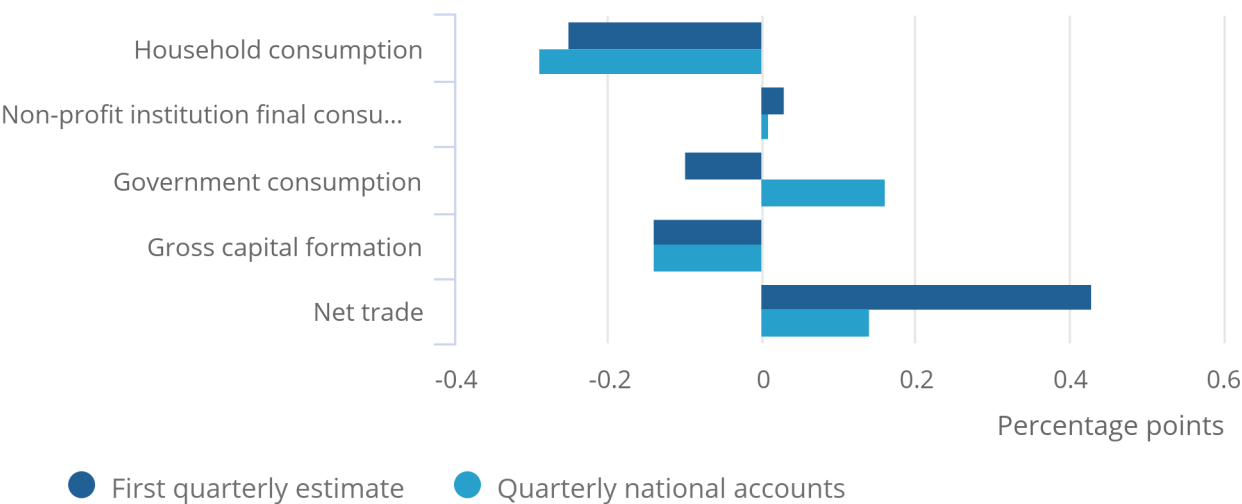
There was a fall in business investment and household spending in Quarter 3 (July to Sept) 2023, partially offset by an increase in government consumption and the volume of international trade flows. Figure 8 shows the previous and latest contributions to expenditure in Quarter 3 2023. These revisions to components are discussed in more detail.

Figure 8: There has been minimal impact of revisions on the total of real gross domestic expenditure, although there have been some revisions to underlying components

UK, contributions by expenditure components, Quarter 3 (July to Sept) 2023

Figure 8: There has been minimal impact of revisions on the total of real gross domestic expenditure, although there have been some revisions to underlying components

UK, contributions by expenditure components, Quarter 3 (July to Sept) 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 disposal of assets, as well as the expenditure alignment adjustment.
2. Contributions may not sum to total due to rounding.

Household consumption

There was a fall of 0.5% in real household expenditure in Quarter 3 2023, revised down from a first estimate fall of 0.4%.

Within household consumption, the largest contributions to the fall in the latest quarter were from lower spending on miscellaneous goods and services (within this there were falls in social protection; jewellery, clocks and watches), spending on restaurants and hotels, spending on food and non-alcoholic drink, and spending on furniture and household equipment. Net tourism contributed positively to growth in the latest quarter. Information on how we measure net tourism is provided in our [National Accounts article: Treatment of tourism in the UK National Accounts](#).

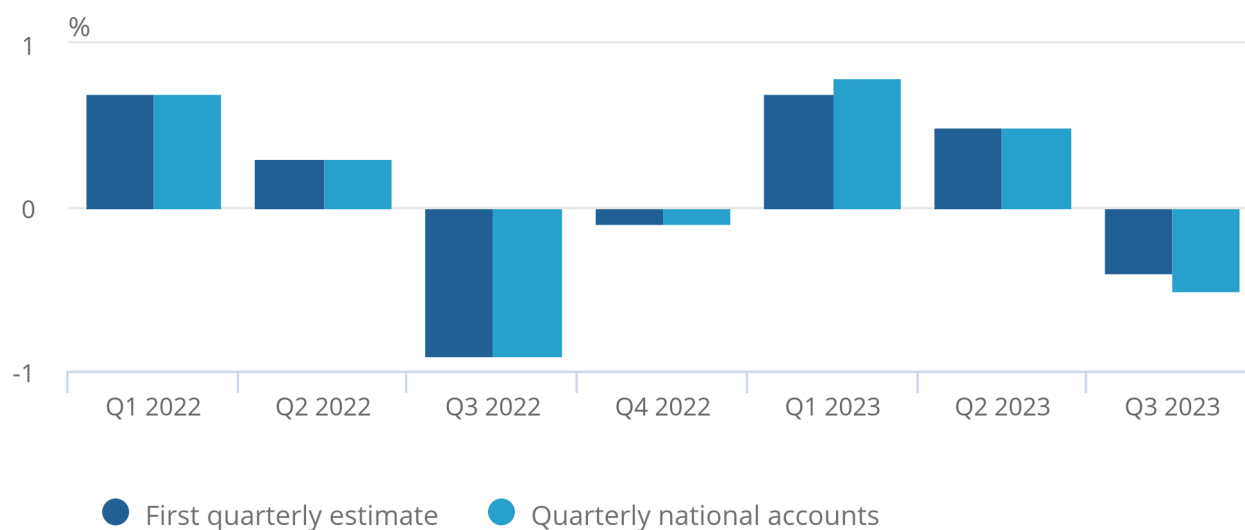
Figure 9 shows there have been minor revisions to household consumption across 2022 and 2023. These revisions include updated data on transport, health, recreation and culture, and restaurants and hotels. There are also revisions to [net tourism](#) because of updated International Passenger Survey data as well as a review of seasonal adjustment. While household consumption sees revisions because of net tourism, these are offset within trade and therefore there is no impact on the gross domestic product (GDP) aggregate.

Figure 9: Household consumption growth sees minor revisions across 2022 and 2023

UK, quarter on previous quarter household consumption growth, Quarter 1 (Jan to Mar) 2022 to Quarter 3 (July to Sept) 2023

Figure 9: Household consumption growth sees minor revisions across 2022 and 2023

UK, quarter on previous quarter household consumption growth, Quarter 1 (Jan to Mar) 2022 to Quarter 3 (July to Sept) 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).

Consumption of government goods and services

Real government consumption expenditure increased by 0.8% in the latest quarter, revised up from a first estimate fall of 0.5%. The increase in government consumption in the latest quarter mainly reflects high spending on public administration and defence, and education. Within health, there was a small fall of 0.1%, which may be because of industrial action that took place throughout the quarter. Revisions to government consumption reflect updated data on public administration and defence, and health.

Gross capital formation

Gross fixed capital formation (GFCF) is estimated to have fallen by 1.6%, revised up from a first estimate fall of 2.0%.

There was a fall of 3.2% in business investment in the latest quarter (previously a 4.2% fall), with declines in investment in transport equipment, other machinery and equipment, and dwellings. The fall in business investment follows two quarters of strong growth of 1.4% in Quarter 2 (Apr to June) and 3.8% in Quarter 1 (Jan to Mar) 2023.

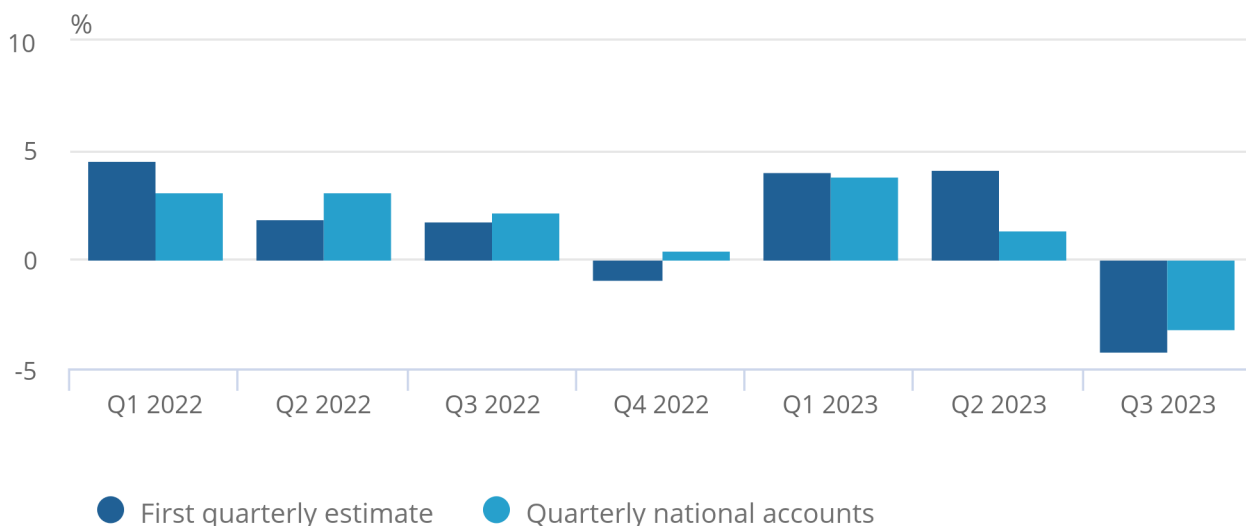
Figure 10 shows that there have been some revisions to the path of business investment across 2022 and 2023. This reflects revised survey data, a further review of seasonal adjustment, as well as the removal of [previously applied balancing adjustments](#).

Figure 10: Business investment sees revisions to growth across 2022 and 2023

UK, quarter on previous quarter business investment growth, Quarter 1 (Jan to Mar) 2022 to Quarter 3 (July to Sept) 2023

Figure 10: Business investment sees revisions to growth across 2022 and 2023

UK, quarter on previous quarter business investment growth, Quarter 1 (Jan to Mar) 2022 to Quarter 3 (July to Sept) 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).

Excluding the alignment and balancing adjustments, revised estimates show that inventories fell by £0.6 billion in Quarter 3 2023. In current price terms, early estimates show that there was an increase of £7.7 billion in the latest quarter driven by increased stocks in the wholesale sector.

Table 2: Change in inventories, including and excluding balancing and alignment adjustments
UK, Quarter 1 (Jan to Mar) 2022 to Quarter 3 (July to Sept) 2023

	Change in Inventories	Of which alignment	Of which balancing	Change in Inventories excluding alignment and balancing
2022 Q1 Current price	9731	-3093		12824
2022 Q1 Chained volume measure	10097	-2862		12959
2022 Q2 Current price	10918	3171		7747
2022 Q2 Chained volume measure	8811	2921		5890
2022 Q3 Current price	2705	-1347	-500	4552
2022 Q3 Chained volume measure	-1804	-1192	500	-1112
2022 Q4 Current price	1563	1269	-500	794
2022 Q4 Chained volume measure	2372	1133	500	739
2023 Q1 Current price	511	2381	-750	-1120
2023 Q1 Chained volume measure	731	2063		-1332
2023 Q2 Current price	953	3282	-750	-1579
2023 Q2 Chained volume measure	-222	2771		-2993
2023 Q3 Current price	5026	-718	-2000	7744
2023 Q3 Chained volume measure	-1197	-594		-603

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

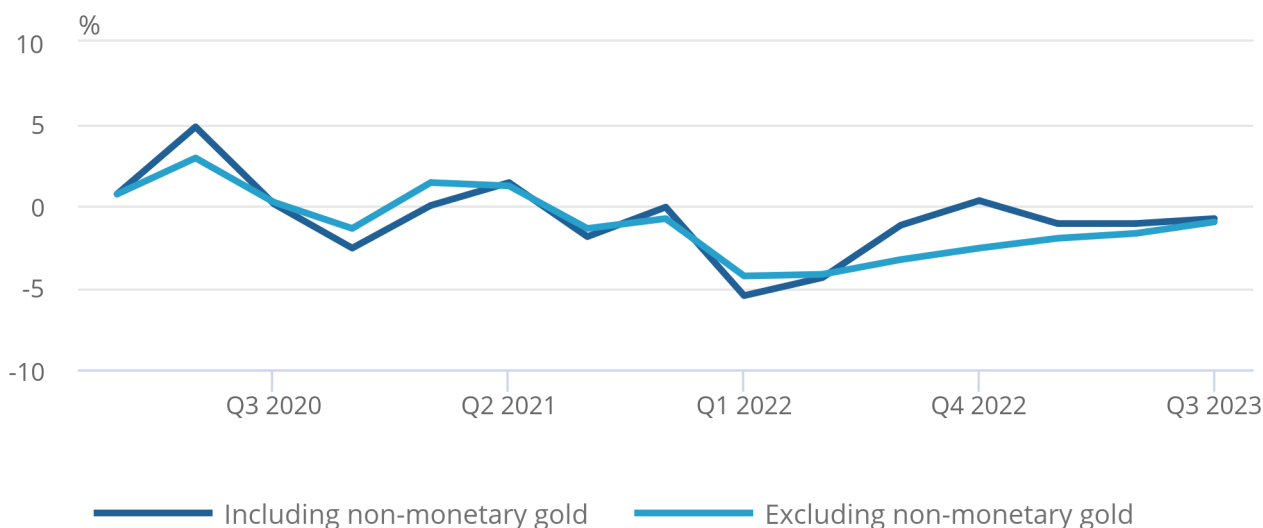
The UK's trade deficit for goods and services was 0.8% of nominal gross domestic product (GDP) in Quarter 3 2023, revised down from a first estimate deficit of 0.7%. However, there have been large movements in non-monetary gold over the last quarter, which can be volatile. Excluding non-monetary gold, the trade deficit was 1.0% of nominal GDP in Quarter 3 2023, revised down from a first estimate deficit of 0.8% (Figure 11).

Figure 11: Excluding non-monetary gold, the UK had a trade deficit of 1.0% of nominal GDP in Quarter 3 2023

UK, Trade balance as a percentage of nominal GDP, including and excluding non-monetary gold, Quarter 1 (Jan to Mar) 2020 to Quarter 3 (July to Sept) 2023

Figure 11: Excluding non-monetary gold, the UK had a trade deficit of 1.0% of nominal GDP in Quarter 3 2023

UK, Trade balance as a percentage of nominal GDP, including and excluding non-monetary gold, Quarter 1 (Jan to Mar) 2020 to Quarter 3 (July to Sept) 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 0.6% in the latest quarter, revised down from a first estimate increase of 0.5%. There was a 3.1% rise in services exports (previously a 2.8% increase), which partially offset a fall of 4.8% in goods exports (previously a 2.0% fall).

The revisions in services exports were driven by International Trade In Services Survey data for Quarter 2 and Quarter 3 2023, updated International Passenger Survey data, and annual Chamber of Shipping data for 2022.

The fall in goods exports was mainly driven by large movements in non-monetary gold, however, this series also appears within gross capital formation (GCF) as valuables and so the impact is GDP neutral.

Import volumes fell by 1.0% in the latest quarter, revised down from a first estimate fall of 0.8%. The decline in the latest quarter was driven by an unrevised 3.5% fall in goods imports, which more than offset a 3.5% increase in services imports (previously 4.2%).

The fall in goods imports was mainly driven by machinery and transport equipment in particular in mechanical power generators, telecoms and sound equipment, and aircraft.

The increase in services imports was driven by growth in other business services, insurance and pension services, and construction services.

5 . Income

Nominal gross domestic product (GDP) rose by 1.4% in Quarter 3 (July to Sept) 2023, unrevised from the first estimate. The quarterly rise was driven by growth in taxes less subsidies, compensation of employees, and other income.

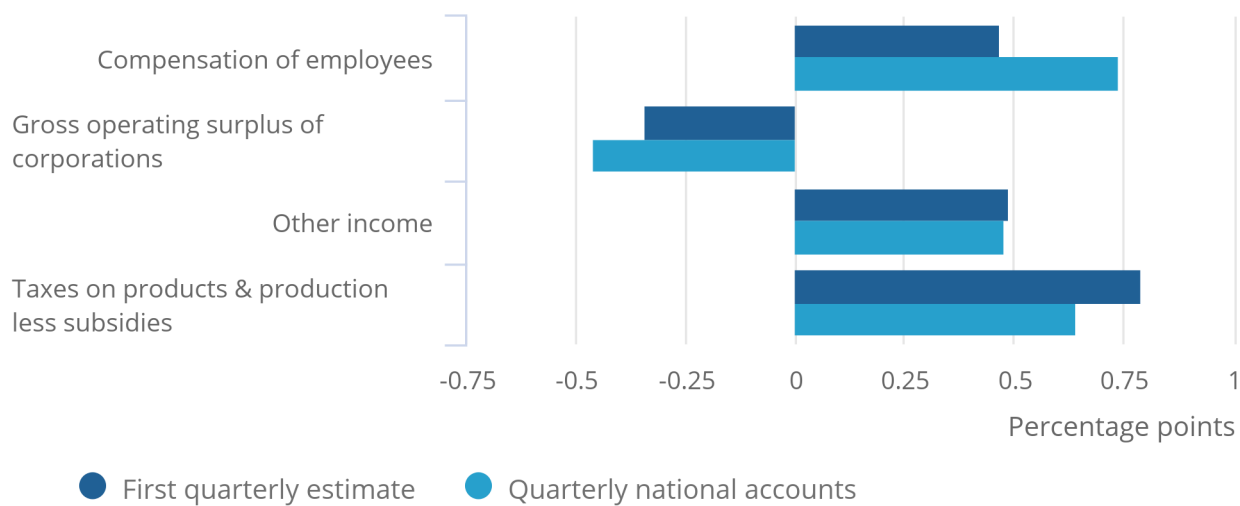
Figure 12 shows the previous and latest contributions to nominal GDP in Quarter 3 2023. The impact of revisions on nominal gross domestic income over this period has been minimal, although there have been some larger revisions to components.

Figure 12: There has been minimal impact of revisions on the total of nominal gross domestic income, although there have been some revisions to components

UK, contributions to nominal GDP, Quarter 3 (July to Sept) 2023

Figure 12: There has been minimal impact of revisions on the total of nominal gross domestic income, although there have been some revisions to components

UK, contributions to nominal GDP, Quarter 3 (July to Sept) 2023



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

Notes:

- 1. Components contributions may not sum to total due to rounding.
- 2. Please note, the alignment adjustment is included in the Gross Operating Surplus of nominal GDP.

Compensation of employees increased by 1.5% in Quarter 3 2023 (previously estimated to be 1.0%), driven by a rise in wages and salaries of 1.7% and a 0.5% increase in employers' social contributions. 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. Revisions in compensation of employees reflect updated public sector data and average weekly earnings data.

Early estimates show that taxes less subsidies increased by 5.9% in Quarter 3 2023 (previously estimated to be 7.5%). Growth in the latest quarter was driven by a large decrease in subsidies because of the lower payments as part of the Energy Price Guarantee scheme and the Energy Bill Relief Scheme. In October 2022, the Office for National Statistics (ONS) announced that these schemes had been classified as a subsidy on products from central government to energy suppliers in the non-financial corporations sector in the UK. For more information, see our [Energy Price Guarantee classification review](#) and [Energy Bill Relief Scheme classification review](#). Data for these quarters are an initial indicative estimate, which will be revised over the coming months as firmer data become available.

Total gross operating surplus (GOS) of corporations, excluding the alignment adjustment, fell by 1.9% (Table 3), with falls in both financial corporations and non-financial corporations GOS. Within GOS of corporations, there continues to be increased uncertainty around the full impacts of the Energy Bill Relief and Energy Price Guarantee schemes, however, this has improved as reflected in the income alignment adjustments, which have now come into our normal tolerance range of plus or minus £3 billion. As a result there are revisions to total GOS. Excluding the alignment adjustment, GOS sees minimal revision across 2022 and 2023, with the largest revisions in Quarter 3 2023 both in private non-financial corporations and financial corporations GOS.

Table 3: Gross operating surplus of corporations, including and excluding alignment adjustments
UK, Quarter 1 (Jan to Mar) 2022 to Quarter 3 (July to Sept) 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 2022	131654	-2812	134466	3.3
Q2 2022	138982	2264	136718	1.7
Q3 2022	136697	-2241	138938	1.6
Q4 2022	149821	2789	147032	5.8
Q1 2023	157433	2702	154731	5.2
Q2 2023	150889	2937	147952	-4.4
Q3 2023	147841	2696	145145	-1.9

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

Notes

1. GDP quarterly national accounts from the Office for National Statistics.
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) 2022 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 [publication](#).

Table 4: Quarter-on-quarter growth for real GDP at different publication vintages
Quarter 1 (Jan to Mar) 2022 to Quarter 3 (July to Sept) 2023

Relating to Period	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023
May 2022	0.8						
Jun 2022	0.8						
Aug 2022	0.8	-0.1					
Sep 2022	0.7	0.2					
Nov 2022	0.7	0.2	-0.2				
Dec 2022	0.6	0.1	-0.3				
Feb 2023	0.5	0.1	-0.2	0.0			
Mar 2023	0.5	0.1	-0.1	0.1			
May 2023	0.5	0.1	-0.1	0.1	0.1		
Jun 2023	0.5	0.1	-0.1	0.1	0.1		
Aug 2023	0.5	0.1	-0.1	0.1	0.1	0.2	
Sep 2023	0.5	0.1	-0.1	0.1	0.3	0.2	
Nov 2023	0.5	0.1	-0.1	0.1	0.3	0.2	0.0
Latest Estimate: Dec 23	0.5	0.1	-0.1	0.1	0.3	0.0	-0.1
Total revision	-0.3	0.2	0.1	0.1	0.2	-0.2	-0.1

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, and GDP balancing, of a number of better quality but less timely annual datasets for 2022. However for this release, 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 Quarterly national accounts. Quarterly ITIS data for 2022 are included in the dataset

We have also incorporated Value Added Tax (VAT) turnover data up to Quarter 2 (Apr to June) 2023 to estimate the output of small businesses for some industries in the output approach to GDP. VAT turnover has only been used to estimate growth rates, with the overall level of output still derived from the Annual Business Survey and other annual benchmark sources.

In addition to the annual benchmarks and integration of VAT turnover, there are also revisions in this release because of the replacement of forecasts with actual survey or external source data such as energy data from Department for Energy Security and Net Zero, and new seasonal adjustment factors.

Table 5: Revisions to quarter-on-quarter growth for components of GDP
UK, Quarter 1 (Jan to Mar) 2022 to Quarter 3 (July to Sept) 2023

	2022 Q1	2022 Q2	2022 Q3	2022 Q4	2023 Q1	2023 Q2	2023 Q3
Average GDP in chained volume measures	0.0	0.0	0.0	0.0	0.0	-0.2	-0.1
Output							
Production	0.0	0.0	0.3	0.0	-0.1	-0.3	0.1
Construction	0.1	-0.1	0.4	0.4	-0.6	0.1	0.3
Services	-0.1	-0.1	0.0	0.2	0.1	-0.1	-0.1
Expenditure							
Households	0.0	0.0	0.0	0.0	0.1	0.0	-0.1
Non-profit institutions serving households	-1.3	0.1	-1.0	-0.2	1.6	4.9	-1.0
General government	0.2	-0.6	-0.2	0.1	0.1	0.1	1.3
Gross fixed capital formation	-0.6	0.3	0.5	0.6	-0.1	-1.8	0.4
Total exports	0.2	0.2	-0.1	0.1	0.2	0.5	-1.1
Total imports	0.2	0.1	0.3	0.0	0.2	-0.2	-0.2
Average GDP in current prices	0.0	-0.1	0.1	0.2	0.1	-0.1	0.0
Income							
Compensation of employees	0.3	-0.2	0.1	0.1	0.0	-0.1	0.5
Gross operating surplus of corporations	-1.3	1.4	0.0	-0.3	-2.1	-1.4	-0.5
Other income	-0.1	0.1	-0.3	0.3	-0.1	0.4	-0.1
Taxes on products & production less subsidies	0.2	-0.6	0.5	0.0	0.2	1.8	-1.6

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

Notes

1. Q1 refers to Quarter 1 (Jan to Mar)
2. 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. Revisions are between the GDP first quarterly estimate published 10 November and quarterly national accounts published 22 December 2023.

7 . Quarterly sector accounts

Because of technical issues relating to the Foreign Direct Investment (FDI) Survey, there is more uncertainty around the foreign direct investment estimates for Quarter 3 (July to Sept) 2023 in this publication. As such we have not included our FDI annual benchmark data for 2022 or updated quarterly survey data for 2023 quarters. Users should be cautious when interpreting Quarter 3 2023 FDI data that are part of the UK sector accounts and UK balance of payments (BoP) statistics. For further information please contact bop@ons.gov.uk

Household saving ratio

The household saving ratio is estimated at 10.1% in the latest quarter, up from 9.5% in Quarter 2 (Apr to June) 2023. This upward movement was driven by a rise in wages and salaries of £4.6 billion together with increased gross operating surplus and mixed income of £3.0 billion. Wages and salaries' biggest contributor to growth was the increases in private sector pay. This was partially offset by rising taxes on income and wealth, which increased by £3.0 billion.

The household saving ratio has revised up by 0.4 percentage points from 9.1% to 9.5% in Quarter 2 2023. This is driven mainly by a downward revision in taxes on income and wealth of £1.2 billion, and an upward revision in net social benefits other than transfers in kind of £0.9 billion.

Real households' disposable income (seasonally adjusted)

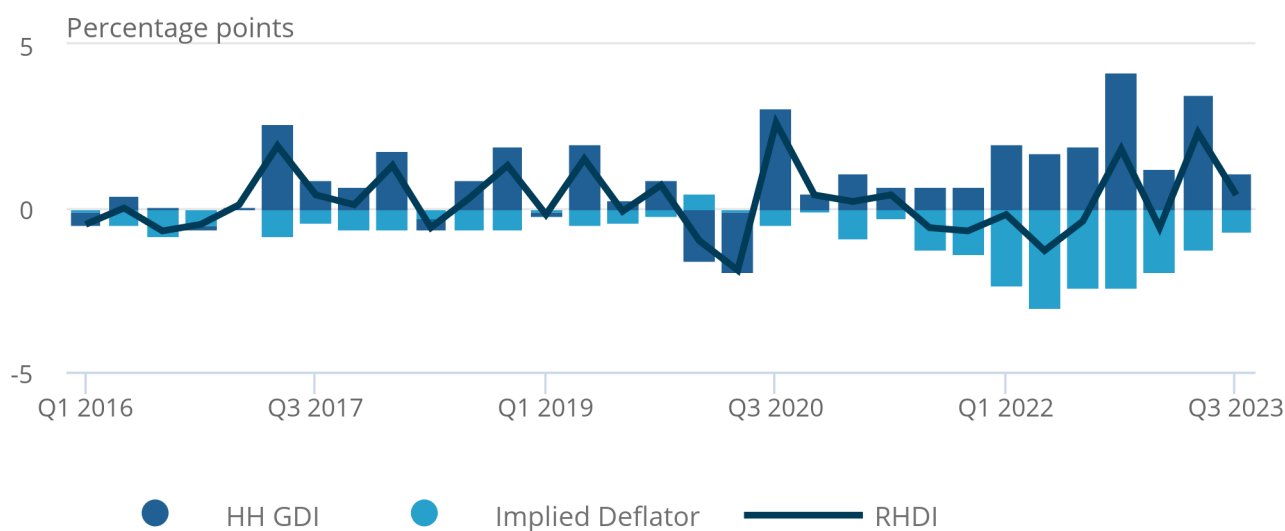
Real households' disposable income (RHDl) is estimated to have grown by 0.4% following growth of 2.3% in Quarter 2 2023. Within RHDl, nominal gross disposable income saw growth at 1.1% driven by increased income as described in the previous section on the households saving ratio. This was offset by growth in the implied deflator of 0.7% as households experienced price increases in several spending categories, including rental and transport.

Figure 13: Real households disposable income is estimated to have grown by 0.4% in Quarter 3 2023, from growth of 2.3% in the previous quarter

Real household disposable income, seasonally adjusted, Quarter 1 (Jan to Mar) 2016 to Quarter 3 (July to Sept) 2023

Figure 13: Real households disposable income is estimated to have grown by 0.4% in Quarter 3 2023, from growth of 2.3% in the previous quarter

Real household disposable income, seasonally adjusted, Quarter 1 (Jan to Mar) 2016 to Quarter 3 (July to Sept) 2023



Source: Quarterly sector accounts from the Office for National Statistics

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 decreased to 2.6% in Quarter 3 2023 compared with 3.7% of GDP in Quarter 2 2023.

Recent estimates show financial corporations decreased their net lending position to 1.7% of GDP, from 2.6% of GDP in Quarter 2 2023. This was driven by a fall in net property income of £7.7 billion together with increased gross capital formation of £2.4 billion, partially offset by increase in net capital transfers of £4.5 billion.

Non-financial corporations increased their net borrowing to 1.3% of GDP in Quarter 3 2023, from 0.9% of GDP in Quarter 2 2023. Within non-financial corporations, private non-financial corporations (PNFCs) increased their net borrowing to £9.0 billion, up from £6.1 billion in the previous quarter. This increase was driven by a decrease in gross operating surplus of £2.9 billion and an increase in gross capital formation of £2.4 billion, partially offset by an increase in net property income of £3.0 billion.

Private non-financial corporations' (PNFCs) saw a downward revision in their net lending/borrowing position in Quarter 2 2023 of £8.3 billion. This led to a switch to net borrowing of £6.1 billion from a previous net lending position of £2.3 billion. This was driven by a downward revision in gross operating surplus of £5.9 billion and an upward revision of gross capital formation of £2.2 billion.

Households increased their net lending position to 3.0% of GDP in Quarter 3 2023 compared with an estimate of 2.8% of GDP in Quarter 2 2023. This was driven by greater increases in income than expenditure as described in the previous section on the saving ratio.

General government decreased net borrowing to 5.2% of GDP in Quarter 3 2023, from 7.2% of GDP in Quarter 2 2023. Within general government, central government decreased net borrowing to £33.1 billion following £49.6 billion in the previous quarter. This decrease was driven by an increase in net property income of £9.1 billion, together with an increase in taxes on production and imports less subsidies of £4.3 billion, an increase in net other current transfers of £3.7 billion, and taxes on income and wealth of £3.2 billion. This was partially offset by a decrease in net capital transfer of £4.2 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 2.9%, from 2.8% in Quarter 2 2023. Within their financial account, households saw increases in deposits of £3.7 billion, partially offset by a decrease in equity and investment fund share units of £1.5 billion. Households have returned to positive net secured lending on dwellings to households at £1.4 billion, with the previous quarter at negative £1.8 billion.

Financial corporations are estimated to have increased their net lending as a percentage of GDP to 2.7% in the latest quarter following lending of 0.7% in Quarter 2 2023. This was driven by an increase in net short-term loans by UK monetary financial institutions of £127.1 billion together with an increase in net currency and deposits of £56.1 billion, partially offset by a fall in equity and investment fund shares and units of £102.2 billion and a fall in debt securities of £80.9 billion.

Non-financial corporations are estimated to have switched to net borrowing as a percentage of GDP of 2.5% in the latest quarter following net lending of 1.8% in Quarter 2 2023. Within this sector, private non-financial corporations (PNFCs) switched to net borrowing as a percentage of GDP of 2.4% following net lending of 1.7% in Quarter 2 2023. This was driven by a fall in net loans of £24.1 billion together with a fall in debt securities of £7.2 billion and a fall in equity and investment fund shares and units of £6.0 billion, partially offset by a rise in net other accounts of £15.7 billion.

General government decreased their net borrowing as a percentage of GDP to an estimated 5.7% in the latest quarter, from 9.4% in Quarter 2 2023. This decrease was driven by a fall in long-term debt securities issued by UK central government of £99.0 billion, partially offset by decreased other deposits at £39.9 billion.

8 . International comparisons

Gross Domestic Product (GDP)

Table 6: Real GDP growth for the G7 economies

Percentage change, quarter on quarter and annual growth, real gross domestic product (GDP) for 2021 to 2023

Country	Quarter on previous quarter (%)			Quarter on quarter growth (%), 2023 Q3 compared to prepandemic 2019 Q4	Annual growth (%)	
	Q1 2023	Q2 2023	Q3 2023	Q3 2023	2021	2022
Canada	0.6	0.3	-0.3	4.2	5.3	3.8
France	0.1	0.6	-0.1	1.7	6.4	2.5
Germany	0.0	0.1	-0.1	0.3	3.2	1.8
Italy	0.6	-0.4	0.1	3.4	8.3	3.7
Japan	1.2	0.9	-0.7	3.0	2.6	1.0
United Kingdom	0.3	0.0	-0.1	1.4	8.7	4.3
United States	0.6	0.5	1.3	7.4	5.8	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 United States, UK, France, Germany, Italy, Canada and Japan.
3. Data accessed and retrieved from OECD website on 21st December 2023, where revision policies for published estimates can differ between countries.

Table 7: Households saving ratio for the G7 economies

Country	Q1 2022	Q2 2022	Q3 2023	Q4 2022	Q1 2023	Q2 2023	Q3 2023
Canada	13.09	9.88	9.48	10.52	8.5	9.67	9.78
France	17.37	16.1	16.66	18.29	17.8	18.48	15.73
Germany	19.95	19.83	19.88	19.98	19.82	20.72	19.94
Italy	12.78	11.25	8.91	6.67	8.72	8.18	9.11
Japan	N/A	N/A	N/A	N/A	N/A	N/A	N/A
United Kingdom	7.9	6.6	8.3	9.1	7.6	9.5	10.1
United States	10.25	9.51	9.81	9.8	11.09	11.44	9.76

Source: Quarterly sector accounts from the Office for National Statistics and Household Dashboard: Cross country comparisons, Organisation for Economic Cooperation and Development

Notes

1. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept) and Q4 refers to Quarter 4 (Oct to Dec).
2. The Group of Seven (G7) is an intergovernmental organisation, which consists of the United States, UK, France, Germany, Italy, Canada and Japan.

9 . GDP quarterly national accounts data

[GDP - data tables](#)

Dataset | Released 22 December 2023

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 22 December 2023

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 22 December 2023

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 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 8. The resulting series should be considered accordingly.

Table 8: Balancing adjustments applied to the GDP quarterly national accounts dataset
Quarter 1 (Jan to Mar) 2022 to Quarter 3 (Jul to Sept) 2023

GDP measurement approach and component adjustment applied to		Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q3 2023
Expenditure								
Non-profit institution serving households consumption	Current prices							
	Chained volume measure	500	500	500	500	400	600	500
Gross fixed capital formation	Current prices	1100	500	-500	-200	-200	-500	-800
	Chained volume measure							
Change in inventories	Current prices			-500	-500	-750	-750	-2000
	Chained volume measure			500	500			
Trade in services exports	Current prices	-500	-700	1000	-500	1000	-300	-2000
	Chained volume measure	300	300	400	500	300	300	-800
Trade in services imports	Current prices	-1500	-1500	-1750	-1900	-1900	-1500	-500
	Chained volume measure	-1500	-1500	-1300	-2000	-2000	-2000	-500
Income								
Private non-financial corporations gross operating surplus	Current prices					500	1500	500

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).

GDP monthly estimate

Although this release focuses on providing the best quarterly estimate of gross domestic product (GDP), an indicative monthly path for the updated time series is provided in the [dataset](#). A full breakdown of the monthly data consistent with this quarterly release will be available in the next monthly GDP release (on 12 January 2024).

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 have already started work looking into the recommendations of this review and will set out plans more fully during January 2024.

We have published a blog today on how we [communicate uncertainty in our GDP estimates](#).

Net trade

HM Revenue and Customs (HMRC) implemented a data collection change affecting data on goods exports from Great Britain (GB) to the EU in January 2021, and data on goods imports from the EU to GB in January 2022. For more information, see [HMRC's Methodology changes to trade in goods statistics from March 2022 article](#).

We have applied adjustments to our estimates of goods imports from the EU for 2021 to reflect this data collection change, which brought imports and exports statistics onto a like-for-like basis in 2021, as detailed in our [Trade in goods: Adjustments to 2021 EU imports estimates, by chapter dataset](#). The full time series for goods imports from and exports to the EU contains a discontinuity from January 2021 resulting from the move from Intrastat to customs declarations, as detailed in our [Impact of trade in goods data collection changes on UK trade statistics: adjustments to 2021 EU imports estimates article](#). We are continuing to work with HMRC to consider possible options to account for this discontinuity.

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

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 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: July to September 2023](#)

Bulletin | Released 10 November 2023

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

[Coronavirus and the effects on GDP](#)

Article | Released 6 May 2020

How the global coronavirus (COVID-19) pandemic and the wider containment efforts are expected to impact on UK gross domestic product (GDP) as well as some of the challenges that national statistical institutes are likely to face.

[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 22 December 2023, ONS website, statistical bulletin, [GDP quarterly national accounts, UK: July to September 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
2020	94.2	95.1	89.6	90.0	88.0	92.2	104.7	105.1	105.6
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
Seasonally adjusted									
2021 Q2	101.7	102.1	97.9	98.2	99.3	99.1	103.4	103.9	104.0
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	118.2	122.0	102.0	101.9	101.8	103.1	116.1	115.9	119.7
Q2	121.0	122.2	102.0	101.9	101.3	103.0	118.1	118.6	119.9
Q3	122.7	123.2	101.9	101.8	102.1	102.7	119.6	120.4	121.1
Percentage change, latest year on previous year									
	IHYM	KGL6	IHYP	KGM7	KH6X	L489	KH7D	IHYS	KGM4
2020	-5.8	-4.9	-10.4	-10.0	-12.0	-7.8	4.7	5.1	5.6
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
Percentage change, latest quarter on previous quarter									
	IHYN	KGL8	IHYQ	KGM9	KH6Z		KH7E	IHYT	KGM5
2021 Q2	5.6	5.0	7.3	7.1	8.2	5.5	-2.0	-1.7	-1.9
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	2.2	3.7	0.3	0.3	-1.2	0.4	1.7	1.9	3.4
Q2	2.4	0.1	-	-	-0.4	-0.1	1.7	2.4	0.2
Q3	1.4	0.9	-0.1	-0.1	0.8	-0.2	1.3	1.5	1.0
Percentage change, latest quarter on corresponding quarter of previous year									
	IHYO	KGM2	IHYR	KGN3	KH73	L48D	KH7F	IHYU	KGM6
2021 Q2	19.4	17.7	25.7	25.7	33.9	22.5	-5.7	-5.1	-6.3
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	8.5	12.2	0.4	0.4	1.4	1.2	7.4	8.1	11.8
Q2	8.8	9.9	0.3	0.3	-1.9	0.6	7.1	8.4	9.5
Q3	8.7	9.4	0.3	0.2	1.6	0.6	5.5	8.4	9.2

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 adjust-ment ³	Gross value added at basic prices	Gross domestic product at market prices	less Basic price adjust-ment ³	Gross value added at basic prices	Gross value added excluding oil & gas ⁴	
	ABMZ	CAES	YBHA	NTAP	ABML	ABMI	NTAO	ABMM	KLS2	
2020	2 059 457	-44 831	2 104 288	206 331	1 897 957	2 002 489	205 615	1 796 874	1 779 274	
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	
Seasonally adjusted										
2021 Q2	569 781	1 894	567 887	58 390	509 497	546 579	56 847	489 732	486 948	
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	656 490	-3 434	659 924	51 295	608 629	569 472	60 868	508 604	505 887	
Q2	664 433	-11 395	675 828	66 338	609 490	569 687	61 149	508 538	505 828	
Q3	678 129	-7 075	685 204	70 508	614 696	568 953	61 171	507 782	505 055	
Percentage change,latest year on previous year										
	KH74		IHYM		KGL6	IHYP		KGM7	KLH8	
2020	-7.7		-5.8		-4.9	-10.4		-10.0	-10.1	
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	
Percentage change, latest quarter on previous quarter										
	KH75		IHYN		KGL8	IHYQ		KGM9		
2021 Q2	6.1		5.6		5.0	7.3		7.1	7.3	
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	0.4		2.2		3.7	0.3		0.3	0.3	
Q2	1.2		2.4		0.1	-		-	-	
Q3	2.1		1.4		0.9	-0.1		-0.1	-0.2	
Percentage change, latest quarter on corresponding quarter of previous year										
	KH76		IHYO		KGM2	IHYR		KGN3	KLH9	
2021 Q2	25.5		19.4		17.7	25.7		25.7	26.5	
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	9.1		8.5		12.2	0.4		0.4	0.5	
Q2	5.3		8.8		9.9	0.3		0.3	0.4	
Q3	7.4		8.7		9.4	0.3		0.2	0.3	

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

2 Includes employment, entrepreneurial and property income.

3 Taxes on products less subsidies.

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

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

2019 = 100

	Production						Service industries							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	Constr- uction	Distri- bution, hotels & restaura- nts	Transport storage and commu- nications	Business services and finance	Govern- ment and other services	Total	Gross value added ⁴	
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
2020	90.7	100.1	102.2	105.0	101.6	102.3	87.4	79.4	91.2	96.3	79.3	88.1	90.0	89.9
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
Seasonally adjusted														
2021 Q2	83.8	68.5	104.8	76.4	106.1	99.0	97.5	99.3	98.8	101.4	92.2	98.2	98.2	98.5
Q3	85.5	79.0	102.6	62.4	105.7	96.6	95.7	104.2	100.6	101.6	97.1	100.6	99.7	99.9
Q4	85.8	74.8	102.5	61.0	106.6	96.2	97.1	101.3	103.2	102.5	102.2	102.3	101.0	101.3
2022 Q1	85.5	77.1	101.8	64.1	106.6	96.1	100.1	101.5	106.6	102.8	102.6	103.0	101.5	101.8
Q2	86.1	78.5	100.7	63.7	107.5	95.5	101.9	101.8	106.4	104.0	101.0	103.1	101.6	101.8
Q3	86.0	76.2	99.3	63.2	106.1	94.1	103.0	100.3	108.1	104.2	100.8	103.2	101.5	101.8
Q4	85.6	71.9	99.9	62.5	105.2	94.1	105.0	100.5	108.2	104.8	101.3	103.5	101.7	102.0
2023 Q1	85.5	66.7	100.4	63.5	105.4	94.1	105.0	100.1	109.7	105.1	101.8	103.9	101.9	102.3
Q2	85.6	66.2	102.1	62.0	103.7	95.0	105.4	100.0	109.4	104.5	102.3	103.8	101.9	102.3
Q3	85.8	66.4	102.2	63.2	102.5	95.1	105.8	99.8	108.1	104.3	102.5	103.6	101.8	102.1
Percentage change, latest year on previous year														
	L3BB	L3BH	L3BN	L3DM	L3DQ	L3BG	L3DW	L3GP	KI8L	KI8N	KI8P	L3E2	KGM7	KLH8
2020	-9.3	0.1	2.2	5.0	1.6	2.3	-12.6	-20.6	-8.8	-3.7	-20.7	-11.9	-10.0	-10.1
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
Percentage change, latest quarter on previous quarter														
													KGM9	
2021 Q2	0.8	-18.8	-0.6	-10.6	0.3	-2.6	4.1	24.7	6.0	1.7	16.7	9.3	7.1	7.3
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	-	-7.3	0.4	1.6	0.2	-	-	-0.4	1.4	0.3	0.5	0.4	0.3	0.3
Q2	-	-0.7	1.7	-2.4	-1.6	0.9	0.4	-0.1	-0.3	-0.5	0.5	-0.1	-	-
Q3	0.2	0.2	0.1	1.9	-1.1	0.1	0.4	-0.1	-1.2	-0.2	0.2	-0.2	-0.1	-0.2
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 Q2	-4.4	-34.5	20.1	-28.2	8.9	8.0	49.0	76.3	22.8	10.6	44.3	28.0	25.7	26.5
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	-13.5	-1.4	-0.9	-1.1	-2.1	4.9	-1.4	2.9	2.2	-0.8	0.9	0.4	0.5
Q2	-0.6	-15.6	1.3	-2.6	-3.6	-0.5	3.4	-1.8	2.8	0.5	1.3	0.7	0.3	0.4
Q3	-0.3	-12.9	2.9	0.1	-3.4	1.1	2.8	-0.5	-	-	1.7	0.4	0.2	0.3

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

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

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

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

B2 Gross value added at chained volume measures basic prices, by category of output^{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
2020	84.4	91.2	62.2	98.4	99.5	91.4	94.8	79.6	70.0	77.4	88.1
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
Seasonally adjusted											
2021 Q2	104.3	98.8	82.6	103.4	101.2	100.3	97.2	94.0	90.6	85.9	98.2
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	99.9	109.7	100.6	105.1	101.6	108.7	100.7	101.5	103.0	101.1	103.9
Q2	99.7	109.4	100.9	103.8	101.4	108.3	100.8	101.7	103.9	101.8	103.8
Q3	99.8	108.1	100.0	103.5	100.9	108.3	101.5	102.4	104.0	101.0	103.6
Percentage change, latest year on previous year											
	L3E4	KI8L	L3EG	L3EU	L3F2	L3F7	L3FW	L3FY	L3G2	L3GT	L3E2
2020	-15.6	-8.8	-37.8	-1.6	-0.5	-8.6	-5.2	-20.4	-30.0	-22.6	-11.9
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
Percentage change, latest quarter on previous quarter											
2021 Q2	17.0	6.0	73.1	0.5	0.2	4.1	3.7	22.7	25.2	11.2	9.3
Q3	0.1	1.8	25.3	-0.4	-0.3	1.0	1.0	1.7	12.2	2.6	2.5
Q4	-0.5	2.5	-10.5	3.1	0.3	0.1	-	0.3	11.4	6.8	1.6
2022 Q1	-1.4	3.4	6.2	-0.9	0.1	1.5	1.6	3.9	-2.7	0.3	0.7
Q2	-1.3	-0.2	5.8	-	0.5	2.6	0.1	0.8	-5.7	2.9	0.1
Q3	-1.1	1.6	-2.5	-0.2	-	0.7	1.3	0.1	-1.6	0.7	-
Q4	0.4	0.1	-0.5	-0.6	-0.1	1.9	0.4	-0.2	0.5	1.4	0.4
2023 Q1	-0.4	1.4	-0.2	0.9	-0.1	0.3	-0.7	1.2	0.3	1.8	0.4
Q2	-0.2	-0.3	0.3	-1.3	-0.2	-0.3	0.1	0.2	0.8	0.8	-0.1
Q3	0.1	-1.2	-0.9	-0.3	-0.4	-0.1	0.7	0.7	0.1	-0.8	-0.2
Percentage change, latest quarter on corresponding quarter of the previous year											
	L44S	KII2	L456	L45K	L45Q	L45V	L46M	L46O	L46Q	L47J	L44Q
2021 Q2	52.7	22.8	424.3	8.0	2.1	23.4	1.3	67.9	69.6	56.0	28.0
Q3	16.4	9.9	27.8	5.4	1.9	11.9	4.6	16.7	61.3	11.4	13.4
Q4	14.9	9.7	69.1	4.4	1.8	7.1	5.3	8.8	70.1	14.1	13.4
2022 Q1	14.9	14.4	106.2	2.2	0.3	6.9	6.4	30.0	52.4	22.2	14.7
Q2	-3.0	7.7	25.9	1.7	0.6	5.3	2.7	6.8	14.7	13.1	5.0
Q3	-4.2	7.4	-2.0	1.9	0.9	4.9	3.0	5.1	0.6	11.1	2.5
Q4	-3.3	4.9	8.9	-1.7	0.5	6.8	3.4	4.5	-9.3	5.4	1.2
2023 Q1	-2.4	2.9	2.3	-	0.2	5.6	1.0	1.8	-6.5	6.9	0.9
Q2	-1.4	2.8	-3.1	-1.2	-0.4	2.6	1.0	1.3	-	4.7	0.7
Q3	-0.2	-	-1.4	-1.3	-0.9	1.8	0.4	1.9	1.8	3.1	0.4

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

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

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

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

Gross domestic product: expenditure at current market prices¹

£ million

National expenditure on goods and services at market prices																
Final consumption expenditure										Gross capital formation						
Household consumption ^{2, 7}		Non-profit institutions ^{2, 7}	General government	Gross fixed capital formation	Of which business investment ³	Changes in inventories ⁴	Of which alignment adjustment	Acquisitions less disposals of valuables ⁵	Total exports	Gross final expenditure	less imports	Trade balance ⁶	Statistical discrepancy (expenditure)	Gross domestic product at market prices		
	ABJQ	HAYE	NMRP	NPQS	NPEK	CAEX	DMUN	NPJQ	YBIL	IKBH	ABMF	IKBI	IKBJ	GIXM	YBHA	
2020	1 201 787	44 286	475 618	367 488	207 363	1 316	—	969 2 091	464 624	805 2 716	269 611	981	12 824	—	2 104 288	
2021	1 322 966	46 370	508 716	403 847	215 979	−3 028	—	8 726 2 287	597 676	026 2 963	623 679	544	−3 518	—	2 284 079	
2022	1 500 399	49 867	526 192	459 428	245 695	24 917	—	−18 147 2 542	656 837	761 3 380	417 904	589	−66 828	30 153	2 505 981	

Seasonally adjusted

2021	Q2	331 279	11 451	126 020	99 190	52 670	-7 639	-2 963	-583	559 718	170 177	729 895	162 008	8 169	-	567 887
	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	3	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	229 423	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	397 569	12 972	133 133	122 620	66 535	511	2 381	-5 396	661 409	219 303	880 712	226 301	-6 998	5 513	659 924
	Q2	404 304	13 175	140 103	122 306	67 610	953	3 282	-3 106	677 735	217 528	895 263	225 085	-7 557	5 650	675 828
	Q3	405 131	13 351	140 138	121 398	65 805	5 026	-718	-429	684 615	214 137	898 752	219 277	-5 140	5 629	685 204

Percentage change, latest year on previous year

	KG Y7	KG Z8	KH 2C	KG 6O	KG 6N		KG X3	KH 2O	KG V7	KH 3H	IHYM
2020	-12.8	-10.2	11.5	-9.6	-9.3		-7.7	-11.6	-8.6	-17.1	-5.8
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

Percentage change, latest quarter on previous quarter

	KG Y8	KG Z9	KH 2D	KG 6W	KG 6V		KG X4	KH 2P	KG V8	KH 3I		IH YN
2021 Q2	12.0	5.6	-2.4	4.2	5.3		4.0	8.7	5.1	3.4		5.6
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	2.7	1.8	0.5	3.2	4.9		4.1	-5.5	1.5	-1.8		2.2
Q2	1.7	1.6	5.2	-0.3	1.6		2.5	-0.8	1.7	-0.5		2.4
Q3	0.2	1.3	-	-0.7	-2.7		1.0	-1.6	0.4	-2.6		1.4

Percentage change, latest quarter on corresponding quarter of previous year

	KG Y9	KH22	KH2E	KG76	KG75		KG X5	KH2Q	KG V9	KH3J		IHYO
2021 Q2	29.1	11.3	3.8	23.8	13.2		23.6	15.6	21.6	30.2		19.4
Q3	11.9	10.5	4.1	13.2	10.7		11.1	10.3	10.9	18.1		9.0
Q4	15.8	10.2	2.7	8.4	6.8		8.0	17.8	10.2	8.5		10.8
2022 Q1	22.2	12.4	3.1	16.0	17.5		18.0	14.4	17.2	35.6		13.1
Q2	12.7	8.0	1.9	14.2	15.8		14.5	17.0	15.1	39.9		9.4
Q3	9.7	5.6	4.6	11.8	10.4		6.5	39.5	13.7	35.2		8.4
Q4	10.3	4.7	4.1	13.2	11.9		6.4	24.6	10.7	23.1		8.2
2023 Q1	10.0	6.5	—	11.0	13.2		4.1	22.4	8.1	6.5		8.5
Q2	8.3	6.5	9.1	8.0	10.8		5.7	9.3	6.6	−0.7		8.8
Q3	7.0	6.2	6.1	3.8	5.3		8.5	−5.8	4.7	−6.7		8.7

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

2 Non-profit institutions serving households.

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

4 Quarterly alignment adjustment included in this series.

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

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

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							
	Non-profit institutions ^{2, 7}		General government formation	Gross fixed capital formation	Of which business investment ³	Changes in inventories ⁴	Of which alignment adjustment	Acquisitions less disposals of valuables ⁵	Total	Exports	Gross final expenditure	less imports	Total balance ⁶	Statistical discrepancy (expenditure)	Gross domestic product at market prices
	Households	institutions													
	ABJR	HAYO	NMRY	NPQT	NPEL	CAFU	DMUM	NPJR	YBIM	IKBK	ABMG	IKBL	IKBM	GIXS	ABMI
2020	1 199 896	39 044	392 967	362 657	204 300	2 523	–	–445 1	996 642	625 640	2 622 282	619 793	5 847	–	2 002 489
2021	1 289 290	41 815	451 510	389 652	208 294	–1 714	–	6 959 2	1 777 512	656 554	2 834 066	657 863	–1 309	–	2 176 203
2022	1 350 539	46 933	461 684	420 902	228 317	19 476	–	–17 540 2	2 281 994	715 449	2 997 443	753 962	–38 513	27 283	2 270 764
Seasonally adjusted															
2021 Q2	325 915	10 536	114 096	98 872	53 705	–7 457	–2 839	–545	541 417	166 787	708 204	161 625	5 162	–	546 579
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	338 737	11 948	113 218	109 290	60 547	731	2 063	–4 471	569 453	179 413	748 866	184 151	–4 738	4 757	569 472
Q2	340 427	11 990	116 107	108 245	61 381	–222	2 771	–2 538	574 009	178 659	752 668	187 744	–9 085	4 763	569 687
Q3	338 781	12 049	116 994	106 496	59 396	–1 197	–594	–630	572 493	177 587	750 080	185 884	–8 297	4 757	568 953
Percentage change, latest year on previous year															
	KGZ5	KH26	KH2I	KG7N	KG7M				KGX9	KH2U	KGW5	KH3N			IHYP
2020	–13.0	–20.8	–7.9	–10.8	–10.6				–11.9	–11.5	–11.8	–16.0			–10.4
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
Percentage change, latest quarter on previous quarter															
	KGZ6	KH27	KH2J	KG7Q	KG7P				KGY2	KH2V	KGW6	KH3O			IHYQ
2021 Q2	11.8	12.7	7.8	5.4	11.6				6.1	7.8	6.5	3.8			7.3
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	0.8	0.7	–1.1	2.4	3.8				2.3	–6.2	0.2	–1.6			0.3
Q2	0.5	0.4	2.6	–1.0	1.4				0.8	–0.4	0.5	2.0			–
Q3	–0.5	0.5	0.8	–1.6	–3.2				–0.3	–0.6	–0.3	–1.0			–0.1
Percentage change, latest quarter on corresponding quarter of previous year															
	KGZ7	KH28	KH2K	KG7T	KG7S				KGY3	KH2W	KGW7	KH3P			IHYR
2021 Q2	26.9	33.3	34.8	25.9	18.7				31.0	12.1	26.0	26.8			25.7
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	3.9	–3.7	5.3	9.9				–3.1	10.6	–0.1	–2.3			0.4
Q2	0.2	1.9	1.4	3.8	8.0				–1.2	4.1	–	–2.3			0.3
Q3	0.7	2.1	1.7	0.4	2.3				2.9	–6.8	0.4	–0.1			0.3

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2 Non-profit institutions serving households.

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4 Quarterly alignment adjustment included in this series.

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

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

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

D Gross domestic product by category of income: current prices¹

£ million

	Compen- sation of employees		Gross operating surplus of corporations							Taxes on production <i>less</i> subsidies				Statisti- cal discrepa- ncy (income)	Gross domestic product at market prices
	Wages and Salaries	Employers social contri- butions	Total	Private non-fina- cial corporat- ions ²	Of which alignme- nt adjustme- nt	Financial corporat- ions	Public corporat- ions	Total ³	Other income ⁴	Gross value added at factor cost	<i>less</i>				
											Taxes	Subsidies	Total		
	DTWL	DTWP	DTWM	CAER	DMUQ	NHCZ	CAEQ	CGBZ	CGBX	CGCB	NTAB	AAXW	CMVL	GIXQ	YBHA
2020	894 610	200 334	1 094 944	384 939	–	81 738	11 803	478 480	397 917	1 971 341	254 253	121 306	132 947	–	2 104 288
2021	949 974	206 178	1 156 152	394 531	–	96 433	13 091	504 055	412 913	2 073 120	283 726	72 767	210 959	–	2 284 079
2022	1 020 391	222 785	1 243 176	432 645	–	110 507	14 002	557 154	445 966	2 246 296	324 903	42 593	282 310	–22 625	2 505 981
Seasonally adjusted															
2021 Q2	236 601	51 845	288 446	100 523	2 399	24 755	3 477	128 755	103 275	520 476	69 807	22 396	47 411	–	567 887
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	267 540	56 421	323 961	124 357	2 702	29 301	3 775	157 433	122 516	603 910	83 095	25 406	57 689	–1 675	659 924
Q2	273 062	56 966	330 028	119 161	2 937	28 297	3 431	150 889	124 215	605 132	84 068	11 656	72 412	–1 716	675 828
Q3	277 704	57 278	334 982	116 288	2 696	28 150	3 403	147 841	127 402	610 225	84 845	8 127	76 718	–1 739	685 204
Percentage change, latest year on previous year															
	CWNH	CWNE	KGI3	KH59		KH5L	KH53	KH4V	KH6T	KH6N	JJDC	JJDU	KH65		IHYM
2020	0.2	2.9	0.7	–2.1		2.8	–2.6	–1.3	0.5	0.2	–12.3	398.3	–49.9		–5.8
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
Percentage change, latest quarter on previous quarter															
	CWNI	CWNF	KGI4	KH5A		KH5M	KH54	KH4W	KH6U	KH6O	JJDZ	JJZD	KH66		IHYN
2021 Q2	3.0	2.2	2.8	6.7		11.6	14.1	7.8	0.9	3.6	8.5	–21.6	32.5		5.6
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	2.0	–0.6	1.5	6.5		–0.6	4.7	5.1	4.9	3.1	–0.2	41.1	–11.6		2.2
Q2	2.1	1.0	1.9	–4.2		–3.4	–9.1	–4.2	1.4	0.2	1.2	–54.1	25.5		2.4
Q3	1.7	0.5	1.5	–2.4		–0.5	–0.8	–2.0	2.6	0.8	0.9	–30.3	5.9		1.4
Percentage change, latest quarter on corresponding quarter of previous year															
	CWNJ	CWNG	KGI5	KH5B		KH5N	KH55	KH4X	KH6V	KH6P	JJDS	JJG4	KH67		IHYO
2021 Q2	8.7	6.9	8.4	8.5		26.4	28.2	12.0	4.8	8.5	29.5	–61.3	–1 302.7		19.4
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	7.2	4.9	6.8	21.6		12.1	14.8	19.6	13.5	11.2	5.5	203.4	–18.1		8.5
Q2	8.4	2.3	7.3	9.7		5.4	–1.2	8.6	13.9	8.9	4.8	43.9	0.5		8.8
Q3	8.3	1.3	7.0	10.7		0.4	–6.4	8.2	13.6	8.6	2.7	0.2	2.9		8.7

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

2 Quarterly alignment adjustment included in this series.

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

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

E1 Household final consumption expenditure by purpose Current prices

£ million

UK NATIONAL 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
	-	-	0	01	02	03	04	05	06	07	08	09	10	11	12
2020	ABJQ	ABTF	ZAKV	ZWUM	ZAKX	ZAKZ	ZAVN	ZAVV	ZAWB	ZAWL	ZAWV	ZAWZ	ZWUS	ZAXR	ZAYF
2021	1 201 787	2 467 1	1 199 320	116 529	49 366	56 107	354 835	68 094	22 684	123 254	29 576	116 695	29 912	88 561	143 707
2022	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
	1 500 399	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
Seasonally adjusted															
2021 Q2	331 279	-1 213	332 492	29 453	12 419	16 332	91 691	19 526	7 092	35 188	7 025	34 128	8 130	31 159	40 349
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	397 569	6 152	391 417	33 644	11 334	18 348	103 791	19 340	7 864	48 882	6 914	36 724	9 202	42 420	52 954
Q2	404 304	6 391	397 913	34 975	11 773	18 419	104 100	19 932	8 126	50 784	6 984	37 211	9 357	43 487	52 765
Q3	405 131	5 856	399 275	34 667	11 661	18 466	105 526	19 689	8 080	51 160	7 061	37 120	9 512	43 416	52 917
Percentage change, latest year on previous year															
2020	KG7Y		KG6U	KG9N	KG7F	KG9F	KG7G	KG8H	KG6I	KG7J	KG8K	KG6K	KG8B	KG6C	KG7E
2021	-12.8		-11.6	6.4	14.5	-19.6	1.5	2.8	-21.0	-36.1	4.7	-12.8	2.3	-38.5	-11.3
2022	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
	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
Percentage change, latest quarter on previous quarter															
2021 Q2	KG8Y		KG74	KG9R	KG7F	KG8G	KG8H	KG8I	KG8J	KG8K	KG8L	KG8M	KG8N	KG8O	KG8P
Q3	12.0		11.9	-0.8	-1.2	21.0	1.2	14.2	12.0	19.1	1.2	10.7	2.6	103.3	9.7
Q4	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
	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	2.7		2.3	3.5	-1.0	2.5	1.7	1.2	2.4	-0.4	5.0	1.7	1.7	0.2	8.6
Q2	1.7		1.7	4.0	3.9	0.4	0.3	3.1	3.3	3.9	1.0	1.3	1.7	2.5	-0.4
Q3	0.2		0.3	-0.9	-1.0	0.3	1.4	-1.2	-0.6	0.7	1.1	-0.2	1.7	-0.2	0.3
Percentage change, latest quarter on corresponding quarter of previous year															
2021 Q2	KG9Y		KG7C	KG9V	KG7F	KG8G	KG8H	KG8I	KG8J	KG8K	KG8L	KG8M	KG8N	KG8O	KG8P
Q3	29.1		29.1	-1.6	-3.8	38.6	4.0	27.4	60.1	105.0	-1.6	38.5	11.1	338.0	27.6
Q4	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
	15.8		14.9	4.0	-7.6	10.6	4.2	5.3	24.4	44.0	-9.0	14.2	10.1	66.2	14.7
2022 Q1	22.2		20.7	-1.3	-9.0	28.6	3.3	12.4	18.3	57.0	1.3	16.3	8.8	156.2	17.0
Q2	12.7		10.8	2.6	-7.3	5.8	6.6	-3.1	3.5	34.4	-2.7	4.7	7.7	36.1	9.9
Q3	9.7		8.4	7.6	-2.0	7.5	9.3	3.6	-3.1	21.9	-1.4	5.0	7.1	2.0	13.3
Q4	10.3		10.0	9.8	-1.7	7.0	9.7	1.6	0.5	13.3	-3.6	2.9	6.7	20.7	17.2
2023 Q1	10.0		9.1	14.8	-0.9	5.7	10.8	0.6	5.0	5.4	-1.7	2.4	6.8	8.0	23.1
Q2	8.3		8.0	15.8	2.3	6.6	6.5	5.3	10.7	7.4	2.2	4.2	6.9	2.6	19.0
Q3	7.0		6.8	10.2	1.2	5.5	5.6	3.1	10.1	6.6	3.1	3.2	6.9	3.9	16.0

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.

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

£ million

UK NATIONAL ²								
UK DOMESTIC ³								
COICOP ¹	Goods							
	Total	Net tourism	Total	Total	Durable goods	Semi- durable goods	Non- durable goods	Services
					D	SD	ND	S
	ABJQ	ABTF	ZAKV	UTIF	UTIB	UTIR	UTIJ	UTIN
2020	1 201 787	2 467	1 199 320	523 919	123 114	113 196	287 609	675 401
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
Seasonally adjusted								
2021 Q2	331 279	-1 213	332 492	145 739	34 598	33 457	77 684	186 753
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	397 569	6 152	391 417	159 758	35 316	33 667	90 775	231 659
Q2	404 304	6 391	397 913	161 171	35 641	34 641	90 889	236 742
Q3	405 131	5 856	399 275	161 071	35 453	34 565	91 053	238 204
Percentage change, latest year on previous year								
	KG7		KG6U	KHC9	KHB5	KHH5	KHE5	KHF9
2020	-12.8		-11.6	-5.5	-7.9	-14.1	-0.4	-15.9
2021	10.1		10.3	7.9	5.6	12.8	7.0	12.1
2022	13.4		12.2	8.1	7.6	3.4	10.4	15.2
Percentage change, latest quarter on previous quarter								
	KG78		KG74	KHD2	KHB6	KHH6	KHE6	KHG2
2021 Q2	12.0		11.9	10.7	22.6	16.6	3.9	12.9
Q3	4.2		3.7	-2.3	-3.6	-2.7	-1.5	8.4
Q4	1.6		0.9	2.3	1.7	1.4	2.8	-0.1
2022 Q1	3.0		3.1	1.5	4.9	0.5	0.4	4.3
Q2	3.3		2.7	2.3	-3.0	-1.2	6.2	3.0
Q3	1.4		1.5	2.5	0.9	0.2	4.1	0.8
Q4	2.2		2.3	1.7	0.5	1.4	2.2	2.8
2023 Q1	2.7		2.3	1.4	0.9	1.1	1.7	2.9
Q2	1.7		1.7	0.9	0.9	2.9	0.1	2.2
Q3	0.2		0.3	-0.1	-0.5	-0.2	0.2	0.6
Percentage change, latest quarter on corresponding quarter of previous year								
	KG79		KG7C	KHD3	KHB7	KHH7	KHE7	KHG3
2021 Q2	29.1		29.1	24.1	50.0	38.5	10.7	33.2
Q3	11.9		11.7	2.8	-8.4	9.5	5.8	19.0
Q4	15.8		14.9	8.1	3.3	7.7	10.4	20.3
2022 Q1	22.2		20.7	12.2	26.1	15.7	5.6	27.5
Q2	12.7		10.8	3.7	-0.3	-2.0	8.0	16.3
Q3	9.7		8.4	8.8	4.4	0.9	14.1	8.2
Q4	10.3		10.0	8.2	3.2	0.8	13.5	11.3
2023 Q1	10.0		9.1	8.1	-0.7	1.5	14.9	9.8
Q2	8.3		8.0	6.6	3.3	5.7	8.3	9.0
Q3	7.0		6.8	3.9	1.8	5.3	4.3	8.8

1 ESA 10 Classification of Individual Consumption by Purpose.

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

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

E3 Household final consumption expenditure by purpose

Chained volume measures

Reference year 2019, £ million

UK NATIONAL 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
	-	-	0	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
2020	1 199 896	2 591	1 197 305	115 249	48 303	56 634	353 610	67 996	22 172	121 780	34 459	114 830	27 682	87 627	146 963
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
Seasonally adjusted															
2021 Q2	325 915	-823	326 738	29 249	12 018	16 529	90 938	19 142	6 776	33 739	8 689	32 971	7 818	29 217	39 652
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	338 737	5 257	333 480	27 005	10 257	16 684	89 230	16 146	6 918	41 293	8 936	32 696	8 236	36 956	39 123
Q2	340 427	5 767	334 660	26 977	10 242	16 238	89 499	16 517	7 040	41 838	9 003	32 421	8 311	37 040	39 534
Q3	338 781	5 963	332 818	26 596	10 035	16 021	89 841	16 265	6 884	41 865	9 073	32 325	8 376	36 619	38 918
Percentage change, latest year on previous year															
	KGZ5		KG7O	KG9Y	KGf6	KGg4	KGh2	KGh8	KGi9	KGj7	KGk5	KGl3	KGb8	KGd4	KGe8
2020	-13.0		-11.8	5.2	12.0	-18.8	1.2	2.7	-22.7	-36.8	22.0	-14.2	-5.4	-39.2	-9.3
2021	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
Percentage change, latest quarter on previous quarter															
	KGZ6		KG7R	KGA3	KGf7	KGg5	KGh3	KGh9	KGj2	KGj8	KGk6	KGl4	KGb9	KGd5	KGe9
2021 Q2	11.8		11.3	-0.7	-0.6	15.0	1.1	12.7	10.5	22.1	3.2	10.1	2.6	98.4	9.4
Q3	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	0.8		0.7	-	-2.1	2.7	0.2	-0.6	-0.4	2.6	5.9	1.1	0.6	-0.1	0.4
Q2	0.5		0.4	-0.1	-0.1	-2.7	0.3	2.3	1.8	1.3	0.7	-0.8	0.9	0.2	1.1
Q3	-0.5		-0.6	-1.4	-2.0	-1.3	0.4	-1.5	-2.2	0.1	0.8	-0.3	0.8	-1.1	-1.6
Percentage change, latest quarter on corresponding quarter of previous year															
	KGZ7		KG7U	KGA6	KGf8	KGg6	KGh4	KGi2	KGj3	KGj9	KGk7	KGl5	KGC2	KGd6	KGf2
2021 Q2	26.9		26.8	-0.3	-4.1	37.6	2.9	24.8	57.3	94.4	5.4	35.9	22.0	348.9	19.9
Q3	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		-0.6	-2.7	-4.6	-1.7	-0.3	-7.5	-1.3	4.6	0.9	-1.5	3.5	1.8	-2.7
Q2	0.2		0.1	-2.0	-4.2	-0.3	0.2	-1.6	3.4	5.5	5.4	-1.5	3.6	-3.0	-0.2
Q3	0.7		0.4	-2.7	-5.8	-1.2	0.7	-1.6	2.3	7.1	5.4	-1.6	3.3	-1.5	-0.2

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.

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

Reference year 2019, £ million

UK NATIONAL ²								
UK DOMESTIC ³								
	Total	Net tourism	Total	Total	Goods			Services
					Durable goods	Semi- durable goods	Non- durable goods	
COICOP ¹					D	SD	ND	S
	ABJR	ABTH	ZAKW	UTIH	UTID	UTIT	UTIL	UTIP
2020	1 199 896	2 591	1 197 305	521 164	119 894	113 381	287 889	676 141
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
Seasonally adjusted								
2021 Q2	325 915	-823	326 738	143 754	32 765	33 343	77 646	182 984
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	338 737	5 257	333 480	130 079	29 632	30 470	69 977	203 401
Q2	340 427	5 767	334 660	130 117	29 547	30 566	70 004	204 543
Q3	338 781	5 963	332 818	129 092	29 490	30 121	69 481	203 726
Percentage change, latest year on previous year								
	KGZ5		KG7O	KHD7	KHC3	KHI3	KHF3	KHG7
2020	-13.0		-11.8	-6.0	-10.3	-13.9	-0.3	-15.8
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
Percentage change, latest quarter on previous quarter								
	KGZ6		KG7R	KHD8	KHC4	KHI4	KHF4	KHG8
2021 Q2	11.8		11.3	10.4	24.2	13.2	4.5	12.0
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	0.8		0.7	0.2	-0.3	1.0	-	1.1
Q2	0.5		0.4	-	-0.3	0.3	-	0.6
Q3	-0.5		-0.6	-0.8	-0.2	-1.5	-0.7	-0.4
Percentage change, latest quarter on corresponding quarter of previous year								
	KGZ7		KG7U	KHD9	KHC5	KHI5	KHF5	KHG9
2021 Q2	26.9		26.8	22.5	44.0	36.9	10.6	30.3
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		-0.6	-3.9	-4.2	-3.6	-3.9	1.7
Q2	0.2		0.1	-1.6	-1.7	0.1	-2.3	1.2
Q3	0.7		0.4	-1.1	-0.6	-0.3	-1.7	1.4

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.

F1 Gross fixed capital formation by sector and type of asset

Current prices

£ million

	Analysis by sector								Analysis by asset					
	Public corporations ²				Private Sector									
	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	Transport equipment	ICT equipment and other machinery and equipment ³	Dwellings ⁴	Other buildings and structures ⁵	Intellectual Property Products		Total
2020	NPEK	RPZG	L62R	L62S	L62T	L62U	NPQS	TLPX	TLPW	GGAE	EQED	TLPK	NPQS	
2021	207 363	66 087	4 282	787	71 468	17 498	367 488	19 000	58 392	76 745	120 507	92 844	367 488	
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	
2022	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	
Seasonally adjusted														
2021 Q2	52 670	17 679	1 287	154	22 145	5 255	99 190	3 878	15 499	23 460	31 944	24 411	99 190	
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	
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	
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	
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	
Q4	63 419	20 726	1 654	166	27 387	5 433	118 785	7 771	17 497	29 075	38 364	26 078	118 785	
2023 Q1	66 535	22 130	1 744	148	26 861	5 202	122 620	8 550	19 379	28 681	39 747	26 263	122 620	
Q2	67 610	21 342	1 549	151	26 627	5 027	122 306	9 898	18 586	28 248	39 077	26 497	122 306	
Q3	65 805	22 404	1 633	152	26 363	5 041	121 398	8 916	18 168	27 999	39 437	26 878	121 398	
Percentage change, latest year on previous year														
2020	KG6N	KH7N	L64E	L64H	L64K	L64N	KG6O	KG6T	KG6S	KH7X	KH7W	KG6R	KG6O	
2021	-9.3	6.4	-7.2	-33.2	-17.2	-25.8	-9.6	-10.4	-8.4	-16.2	-12.8	1.2	-9.6	
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	
2022	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	
Percentage change, latest quarter on previous quarter														
2021 Q2	KG6V	KH7P	L64F	L64I	L64L	L64O	KG6W	KG73	KG72	KH83	KH82	KG6Z	KG6W	
Q3	5.3	-2.0	10.6	6.2	6.0	6.7	4.2	8.0	1.9	6.1	0.6	8.5	4.2	
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	
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	
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	4.9	6.8	5.4	-10.8	-1.9	-4.3	3.2	10.0	10.8	-1.4	3.6	0.7	3.2	
Q3	1.6	-3.6	-11.2	2.0	-0.9	-3.4	-0.3	15.8	-4.1	-1.5	-1.7	0.9	-0.3	
2023 Q3	-2.7	5.0	5.4	0.7	-1.0	0.3	-0.7	-9.9	-2.2	-0.9	0.9	1.4	-0.7	
Percentage change, latest quarter on corresponding quarter of previous year														
2021 Q2	KG75	KH7R	L64G	L64J	L64M	L64P	KG76	KG7B	KG7A	KH87	KH86	KG79	KG76	
Q3	13.2	4.9	35.2	-48.3	93.4	29.4	23.8	85.1	16.7	81.5	11.2	5.6	23.8	
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	
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	
Q4	10.4	6.4	22.2	16.6	19.8	8.6	11.8	53.0	1.7	19.8	12.2	3.0	11.8	
2023 Q1	11.9	15.6	17.3	-4.6	18.7	-4.1	13.2	49.6	8.2	18.5	13.1	3.8	13.2	
2023 Q2	13.2	14.2	16.0	-14.9	8.5	-10.9	11.0	41.3	9.5	9.0	12.8	4.5	11.0	
Q3	10.8	16.8	1.0	-22.6	1.4	-16.6	8.0	45.6	10.0	1.6	6.8	5.1	8.0	
2023 Q3	5.3	16.5	-	-20.0	-3.7	-16.3	3.8	28.3	4.7	-3.5	4.3	4.1	3.8	

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					
	Public corporations ²				Private Sector									
	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	Transport equipment	ICT equipment and other machinery and equipment ³	Dwellings ⁴	Other buildings and structures ⁵	Intellectual Property Products	Total	
	NPEL	DLWF	L634	L635	L636	L637	NPQT	DLWL	DLWO	DFEG	DLWT	EQDO	NPQT	
2020	204 300	64 408	4 243	491	71 549	17 667	362 657	18 556	57 976	76 024	119 042	91 059	362 657	
2021	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	
2022	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	
Seasonally adjusted														
2021 Q2	53 705	16 891	1 292	147	22 125	4 711	98 872	3 687	16 196	23 445	30 971	24 573	98 872	
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	60 547	19 445	1 451	131	23 127	4 589	109 290	8 575	17 701	24 643	33 903	24 468	109 290	
Q2	61 381	18 398	1 342	133	22 513	4 478	108 245	9 690	17 277	23 916	32 742	24 620	108 245	
Q3	59 396	18 977	1 365	132	22 144	4 482	106 496	8 612	16 640	23 512	32 894	24 838	106 496	
Percentage change, latest year on previous year														
	KG7M	KH92	L64T	L64W	L654	L64Z	KG7N	KH95	KH96	KH8Y	KH97	KH98	KG7N	
2020	-10.6	3.6	-8.1	-58.3	-17.1	-25.0	-10.8	-12.5	-9.1	-16.9	-13.8	-0.8	-10.8	
2021	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	
2022	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	
Percentage change, latest quarter on previous quarter														
	KG7P	KH9C	L64U	L64X	L655	L652	KG7Q	KH9F	KH9G	KH9A	KH9H	KH9I	KG7Q	
2021 Q2	11.6	-12.4	15.5	6.5	7.4	4.2	5.4	-1.1	7.3	7.6	-0.9	12.2	5.4	
Q3	-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	
Q4	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 Q1	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	
Q2	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	
Q3	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	
Q4	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 Q1	3.8	6.0	2.1	-10.9	-3.0	-0.7	2.4	10.3	7.8	-2.5	3.1	0.6	2.4	
Q2	1.4	-5.4	-7.5	1.5	-2.7	-2.4	-1.0	13.0	-2.4	-3.0	-3.4	0.6	-1.0	
Q3	-3.2	3.1	1.7	-0.8	-1.6	0.1	-1.6	-11.1	-3.7	-1.7	0.5	0.9	-1.6	
Percentage change, latest quarter on corresponding quarter of previous year														
	KG7S	KH9M	L64V	L64Y	L656	L653	KG7T	KH9P	KH9Q	KH9K	KH9R	KH9S	KG7T	
2021 Q2	18.7	3.6	30.9	36.1	89.7	11.1	25.9	81.4	24.0	85.0	8.8	10.0	25.9	
Q3	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	
Q4	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 Q1	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	
Q2	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	
Q3	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	
Q4	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 Q1	9.9	0.9	6.6	-17.6	1.9	-12.6	5.3	40.6	2.1	2.3	2.7	5.0	5.3	
Q2	8.0	9.2	-5.0	-24.0	-4.9	-16.3	3.8	47.3	5.0	-4.7	0.4	4.5	3.8	
Q3	2.3	11.6	-4.7	-21.0	-8.3	-14.5	0.4	26.5	-0.7	-8.2	0.4	2.9	0.4	

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		Other industries ³	Changes in inventories ³
		Materials and fuel	Work in progress	Finished goods	Total		Wholesale ²	Retail ²		
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
2020	FAHS 235	FAGF -464	FADY -109	FALR 207	NZTP -366	FAGI -317	FBHE 3 391	FAHA -170	CWVD -1 457	CAEX 1 316
2021	-1 457	-1 734	424	394	-916	-1 975	2 534	3 222	-4 436	-3 028
2022	-1 760	643	511	5 445	6 599	-1 238	17 634	3 482	200	24 917
Seasonally adjusted										
2021 Q2	-355	-425	408	-655	-672	152	-199	676	-7 241	-7 639
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	-152	26	-472	-1 054	-1 500	799	-543	-3 137	5 044	511
Q2	371	440	-241	714	913	129	-3 231	-872	3 643	953
Q3	-240	292	3	1 175	1 470	468	2 501	-419	1 246	5 026

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				Elect- ricity, gas and water supply	Distributive trades		Other industries ³	Changes in inventories ³
		Materials and fuel	Work in progress	Finished goods	Total		Wholesale ²	Retail ²		
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
	FAEA	FBNF	FBNG	FBNH	DHBM	FAEB	FAJX	FBYN	DLWX	CAFU
2020	5 432	632	-2 527	1 599	-296	2 738	4 810	-1 364	-8 796	2 523
2021	-1 043	-2 133	3 591	4 521	5 979	-343	1 447	692	-8 445	-1 714
2022	-1 535	-1 308	-400	4 648	2 940	-158	14 094	4 123	12	19 476
Seasonally adjusted										
2021 Q2	-1 067	-203	-163	1 912	1 546	121	-51	-496	-7 510	-7 457
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	502	717	-133	-2 013	-1 429	1 088	-504	-3 591	4 665	731
Q2	352	16	-968	640	-312	-1 869	-1 010	-1 026	3 643	-222
Q3	73	16	-	732	748	618	-743	-1 532	-361	-1 197

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
2020	314 202	310 603	624 805	441 615	170 366	611 981	-127 413	140 237	12 824
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
Seasonally adjusted									
2021 Q2	85 728	84 449	170 177	119 449	42 559	162 008	-33 721	41 890	8 169
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	101 682	117 621	219 303	150 163	76 138	226 301	-48 481	41 483	-6 998
Q2	100 051	117 477	217 528	146 050	79 035	225 085	-45 999	38 442	-7 557
Q3	94 294	119 843	214 137	138 536	80 741	219 277	-44 242	39 102	-5 140
Percentage change, latest year on previous year									
	KG9K	KH35	KH2O	KG9L	KH3W	KH3H			
2020	-14.7	-8.2	-11.6	-13.9	-24.2	-17.1			
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			
Percentage change, latest quarter on previous quarter									
	KG9O	KH36	KH2P	KG9P	KH3X	KH3I			
2021 Q2	15.0	3.0	8.7	3.4	3.5	3.4			
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	-14.7	4.2	-5.5	-5.3	6.2	-1.8			
Q2	-1.6	-0.1	-0.8	-2.7	3.8	-0.5			
Q3	-5.8	2.0	-1.6	-5.1	2.2	-2.6			
Percentage change, latest quarter on corresponding quarter of previous year									
	KG9S	KH37	KH2Q	KG9T	KH3Y	KH3J			
2021 Q2	16.8	14.4	15.6	38.0	12.4	30.2			
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	15.0	29.6	22.4	-3.8	34.9	6.5			
Q2	0.4	18.1	9.3	-9.1	19.6	-0.7			
Q3	-20.2	9.7	-5.8	-17.1	18.9	-6.7			

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
2020	323 037	302 603	625 640	449 513	170 280	619 793	5 847
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
Seasonally adjusted							
2021 Q2	85 412	81 375	166 787	118 059	43 566	161 625	5 162
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	84 289	95 124	179 413	119 981	64 170	184 151	-4 738
Q2	83 816	94 843	178 659	121 451	66 293	187 744	-9 085
Q3	79 791	97 796	177 587	117 243	68 641	185 884	-8 297
Percentage change, latest year on previous year							
	KG9X	KH3B	KH2U	KG9W	KH44	KH3N	
2020	-12.3	-10.6	-11.5	-12.4	-24.2	-16.0	
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	
Percentage change, latest quarter on previous quarter							
	KGA2	KH3C	KH2V	KG9Z	KH45	KH3O	
2021 Q2	12.5	3.2	7.8	2.9	6.5	3.8	
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	-14.4	2.6	-6.2	-4.9	5.3	-1.6	
Q2	-0.6	-0.3	-0.4	1.2	3.3	2.0	
Q3	-4.8	3.1	-0.6	-3.5	3.5	-1.0	
Percentage change, latest quarter on corresponding quarter of previous year							
	KGA5	KH3D	KH2W	KGA4	KH46	KH3P	
2021 Q2	9.8	14.6	12.1	30.7	17.3	26.8	
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	7.0	14.0	10.6	-11.4	20.8	-2.3	
Q2	0.9	7.1	4.1	-8.0	10.2	-2.3	
Q3	-18.5	5.6	-6.8	-6.8	13.8	-0.1	

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
2020	165 793	208 621	-42 828	148 409	232 994	-84 585
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
2021 Q2	44 953	60 700	-15 747	40 775	58 749	-17 974
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	54 585	69 746	-15 161	47 097	80 417	-33 320
Q2	53 810	65 135	-11 325	46 241	80 915	-34 674
Q3	48 804	60 563	-11 759	45 490	77 973	-32 483

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
2020	168 542	215 058	-46 516	154 495	234 455	-79 960
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
2021 Q2	45 551	59 912	-14 361	39 861	58 147	-18 286
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	45 772	53 966	-8 194	38 517	66 015	-27 498
Q2	45 260	53 440	-8 180	38 556	68 011	-29 455
Q3	41 832	51 053	-9 221	37 959	66 190	-28 231

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
2020	196 014	76 577	50 199	10 778	43 354	52 129	46 567	475 618
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
2021 Q2	52 338	19 774	13 211	2 682	11 566	14 307	12 142	126 020
Q3	51 571	20 000	13 379	2 902	11 245	14 994	12 256	126 347
Q4	51 904	20 384	13 633	2 771	11 578	14 715	12 265	127 250
2022 Q1	55 244	20 515	13 569	2 938	11 860	16 476	12 544	133 146
Q2	50 370	20 690	13 166	3 043	11 607	16 474	13 085	128 435
Q3	51 959	21 306	13 451	3 048	12 199	16 895	13 260	132 118
Q4	51 667	21 400	13 552	3 142	12 142	17 124	13 466	132 493
2023 Q1	52 842	21 605	13 736	3 289	11 735	16 289	13 637	133 133
Q2	55 978	22 180	13 807	3 440	12 951	18 127	13 620	140 103
Q3	54 581	22 447	14 037	3 498	13 324	18 585	13 666	140 138

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
2020	143 934	54 615	47 772	9 268	41 683	50 572	45 123	392 967
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
2021 Q2	46 260	17 135	12 306	2 347	10 949	13 557	11 542	114 096
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	43 082	18 641	12 590	2 425	10 181	14 563	11 736	113 218
Q2	43 753	18 913	12 696	2 430	11 304	15 378	11 633	116 107
Q3	43 723	19 110	12 750	2 473	11 502	15 808	11 628	116 994

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
2020	1 796 874	1 897 957	1 897 957	–	95.1	95.1	90.0	90.0	90.0
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
Seasonally adjusted									
2021 Q2	489 732	509 497	509 497	–	102.1	102.1	98.2	98.2	98.2
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	503 847	603 116	610 304	–7 188	120.9	122.3	101.0	102.2	102.5
Q2	503 775	603 840	611 206	–7 366	121.0	122.5	101.0	102.2	102.6
Q3	503 025	608 967	616 435	–7 468	122.1	123.6	100.8	102.1	102.4
Percentage change, latest year on previous year									
	KH4D	KH47	KH68		KH47	KH68	KH4D	KH6E	GDPQ
2020	–10.0	–4.9	–4.9		–4.9	–4.9	–10.0	–10.0	–10.0
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
Percentage change, latest quarter on previous quarter									
	KH4F	KH49	KH6A		KH49	KH6A	KH4F	KH6G	
2021 Q2	7.1	5.0	5.0		5.0	5.0	7.1	7.1	7.1
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	0.8	4.3	3.1		4.3	3.1	0.8	–0.4	0.3
Q2	–	0.1	0.1		0.1	0.1	–	–	–
Q3	–0.1	0.8	0.9		0.8	0.9	–0.1	–0.1	–0.1
Percentage change, latest quarter on corresponding quarter of previous year									
	KH4H	KH4B	KH6C		KH4B	KH6C	KH4H	KH6I	GDPR
2021 Q2	25.7	17.7	17.7		17.7	17.7	25.7	25.7	25.7
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	0.7	12.5	11.5		12.5	11.5	0.7	–0.3	0.7
Q2	0.8	10.4	8.9		10.4	8.9	0.8	–0.6	0.7
Q3	0.6	9.8	8.6		9.8	8.6	0.6	–0.5	0.6

1 The residual error is, by convention, the amount by which the expenditure-based approach to measuring GDP exceeds the income-based estimate. It is also the sum of two components: the statistical discrepancy (expenditure) with sign reversed, and the statistical discrepancy (income) with natural sign.

2 Income data deflated by the implied GDP deflator, based on expenditure data.

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 Q2	-2 963	-2 839	2 399
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	2 381	2 063	2 702
Q2	3 282	2 771	2 937
Q3	-718	-594	2 696

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	94.4026
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	93.6292
2022/23	2 557 576	2 552 763	2 311 971	526 179	80 348	2 272 840	2 029 397	457 302	71 655	100.0000
Seasonally adjusted										
2021 Q2	567 887	564 886	509 497	126 020	17 679	546 579	489 732	114 096	16 891	92.3336
Q3	581 506	574 173	520 069	126 347	18 066	555 956	497 326	115 146	17 338	92.9532
Q4	596 674	608 389	531 982	127 250	17 928	564 407	504 035	116 404	17 339	93.9497
2022 Q1	608 329	614 472	542 303	133 146	19 375	567 396	506 542	117 600	19 268	95.2803
Q2	621 272	613 002	554 798	128 435	18 267	567 889	506 988	114 550	16 854	97.2230
Q3	630 575	628 962	561 790	132 118	19 225	567 445	506 585	115 094	17 009	98.7560
Q4	645 805	649 545	586 754	132 493	20 726	568 034	507 220	114 440	18 347	101.0364
2023 Q1	659 924	661 254	608 629	133 133	22 130	569 472	508 604	113 218	19 445	102.9846
Q2	675 828	666 478	609 490	140 103	21 342	569 687	508 538	116 107	18 398	105.4267
Q3	685 204	675 898	614 696	140 138	22 404	568 953	507 782	116 994	18 977	107.0272
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	8.6	8.1	9.9	2.6	10.0	1.7	1.6	-1.3	1.2	6.8
Percentage change, latest quarter on previous quarter										
	IHYN	A8L9	KGL8	KH2D	KH7P	IHYQ	KGM9	KH2J	KH9C	L8GH
2021 Q2	5.6	5.3	5.0	-2.4	-2.0	7.3	7.1	7.8	-12.4	-1.7
Q3	2.4	1.6	2.1	0.3	2.2	1.7	1.6	0.9	2.6	0.7
Q4	2.6	6.0	2.3	0.7	-0.8	1.5	1.3	1.1	-	1.1
2022 Q1	2.0	1.0	1.9	4.6	8.1	0.5	0.5	1.0	11.1	1.4
Q2	2.1	-0.2	2.3	-3.5	-5.7	0.1	0.1	-2.6	-12.5	2.0
Q3	1.5	2.6	1.3	2.9	5.2	-0.1	-0.1	0.5	0.9	1.6
Q4	2.4	3.3	4.4	0.3	7.8	0.1	0.1	-0.6	7.9	2.3
2023 Q1	2.2	1.8	3.7	0.5	6.8	0.3	0.3	-1.1	6.0	1.9
Q2	2.4	0.8	0.1	5.2	-3.6	-	-	2.6	-5.4	2.4
Q3	1.4	1.4	0.9	-	5.0	-0.1	-0.1	0.8	3.1	1.5
Percentage change, latest quarter on corresponding quarter of previous year										
	IHYO	A8LA	KGM2	KH2E	KH7R	IHYR	KGN3	KH2K	KH9M	L8GI
2021 Q2	19.4	20.1	17.7	3.8	4.9	25.7	25.7	34.8	3.6	-5.1
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	8.5	7.6	12.2	-	14.2	0.4	0.4	-3.7	0.9	8.1
Q2	8.8	8.7	9.9	9.1	16.8	0.3	0.3	1.4	9.2	8.4
Q3	8.7	7.5	9.4	6.1	16.5	0.3	0.2	1.7	11.6	8.4

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

2 All data are seasonally adjusted unless otherwise specified.

3 Implied deflator is expressed in terms of 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

2022 = 100

	Implied deflators ²		
	Gross national expenditure	Gross domestic product at market prices ³	Gross value added at basic prices
	MNE2	MNF2	MNX5
2020	94.2200	95.4171	95.6010
2021	94.2313	95.1126	94.8493
2022	100.0000	100.0000	100.0000
Seasonally adjusted			
2021 Q2	92.7326	94.1469	93.9232
Q3	94.0405	94.7787	94.4082
Q4	95.5329	95.7948	95.2853
2022 Q1	96.9630	97.1515	96.6532
Q2	98.9127	99.1324	98.7932
Q3	101.6860	100.6955	100.1178
Q4	102.4383	103.0206	104.4358
2023 Q1	104.1855	105.0071	108.0345
Q2	105.9098	107.4972	108.2014
Q3	107.2683	109.1291	109.2881
Percentage change, latest year on previous year			
	MNE3	MNF3	MNX6
2020	5.0	5.3	5.9
2021	–	–0.3	–0.8
2022	6.1	5.1	5.4
Percentage change, latest quarter on previous quarter			
	MNE4	MNF4	MNX7
2021 Q2	–2.0	–1.7	–1.9
Q3	1.4	0.7	0.5
Q4	1.6	1.1	0.9
2022 Q1	1.5	1.4	1.4
Q2	2.0	2.0	2.2
Q3	2.8	1.6	1.3
Q4	0.7	2.3	4.3
2023 Q1	1.7	1.9	3.4
Q2	1.7	2.4	0.2
Q3	1.3	1.5	1.0
Percentage change, latest quarter on corresponding quarter of previous year			
	MNE5	MNF5	MNX8
2021 Q2	–5.7	–5.1	–6.3
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	8.1	11.8
Q2	7.1	8.4	9.5
Q3	5.5	8.4	9.2

1 Implied deflator is expressed in terms of 2022 = 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
2020	67 081	2 104 288	31 369	2 002 489	29 852
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
Seasonally adjusted					
2021 Q2	67 026	567 887	8 473	546 579	8 155
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	68 040	659 924	9 699	569 472	8 370
Q2	68 122	675 828	9 921	569 687	8 363
Q3	68 200	685 204	10 047	568 953	8 342
Percentage change, latest year on previous year					
		IHYM	N3Y3	IHYP	N3Y6
2020		-5.8	-6.2	-10.4	-10.7
2021		8.5	8.6	8.7	8.8
2022		9.7	8.5	4.3	3.2
Percentage change, latest quarter on previous quarter					
		IHYN	N3Y4	IHYQ	N3Y7
2021 Q2		5.6	5.6	7.3	7.4
Q3		2.4	2.1	1.7	1.4
Q4		2.6	2.3	1.5	1.2
2022 Q1		2.0	1.7	0.5	0.2
Q2		2.1	1.8	0.1	-0.2
Q3		1.5	1.4	-0.1	-0.2
Q4		2.4	2.3	0.1	-
2023 Q1		2.2	2.1	0.3	0.1
Q2		2.4	2.3	-	-0.1
Q3		1.4	1.3	-0.1	-0.3
Percentage change, latest quarter on corresponding quarter of previous year					
		IHYO	N3Y5	IHYR	N3Y8
2021 Q2		19.4	19.5	25.7	25.8
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		8.5	7.8	0.4	-0.3
Q2		8.8	8.2	0.3	-0.2
Q3		8.7	8.1	0.3	-0.2

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 now consistent with mid-year population projection as published on 27 January 2023 <https://www.ons.gov.uk/peoplepopulationandcommunity/populationandmigration/populationprojections/datasets/tablea11principalprojectionuksummary>.

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

Revisions Analysis¹

Revisions since previously published estimates

£ million

2022

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	-189
less Basic price adjustment	KB7E	213
Gross value added at basic prices	KB7F	-402

Gross domestic product:

expenditure at current prices (Table C1)

National expenditure on goods and services at market prices		
Households	KB7K	-2 209
Non-profit institutions serving households	KB7L	44
General government	KB7M	1 148
Gross fixed capital formation	KB7N	-305
Changes in inventories	KB7O	-985
Acquisitions less disposals of valuables	KB7P	1 877
Total	KB7Q	-430
Total exports	KB7R	3 903
Total imports	KB7S	2 779
Statistical discrepancy (expenditure)	KB7T	-883

Gross domestic product:

income at current prices (Table D)

Compensation of employees	KB7U	1 805
Gross operating surplus of corporations	KB7V	-2 269
Other income	KB7W	-129
Gross value added at factor cost	KB7X	-593
Taxes on products & production less Subsidies	KB7Y	-126
Statistical discrepancy (income)	KB7Z	530

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

2022

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	-

Percentage changes in volume

of GVA output components (Table B1)

GVA at basic prices		
Agriculture, forestry and fishing	KB83	-
Mining and quarrying inc oil & gas extraction	KB84	-0.3
Manufacturing	KB85	-
Electricity, gas, steam and air	KB86	0.4
Water supply, sewerage	KNT7	0.1
Total Production	KB87	0.1
Construction	KB88	0.3
Distribution, hotels and restaurants	KB89	-0.1
Transport storage and communications	KB8A	-0.3
Business services and finance	KB8B	0.1
Government and other services	KB8C	-0.1
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	-2.0
General government	KB8I	-0.2
Gross fixed capital formation	KB8J	0.1
Total	KB8K	0.1
Total exports	KB8L	0.4
Total imports	KB8M	0.5

R Revisions Analysis¹

Revisions since previously published estimates

continued

£ million

		2022 Q1	2022 Q2	2022 Q3	2022 Q4	2023 Q1	2023 Q2	2023 Q3
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	-488	-739	-76	1 114	1 595	719	579
less Basic price adjustment	KB7E	108	-81	123	63	220	1 068	187
Gross value added at basic prices	KB7F	-596	-658	-199	1 051	1 375	-349	392
Gross domestic product:								
expenditure at current prices (Table C1)								
National expenditure on goods and services								
at market prices								
Households	KB7K	-1	-1 231	-656	-321	1 281	83	129
Non-profit institutions serving households	KB7L	-1	8	15	22	192	505	67
General government	KB7M	226	525	122	275	302	-555	-1 471
Gross fixed capital formation	KB7N	-845	-481	142	879	869	-1 236	-597
Changes in inventories	KB7O	-160	-889	937	-873	990	2 474	6 554
Acquisitions less disposals of valuables	KB7P	341	448	487	601	640	514	-1
Total	KB7Q	-440	-1 620	1 047	583	4 274	1 785	4 681
Total exports	KB7R	475	796	1 283	1 349	1 750	2 741	618
Total imports	KB7S	-18	-193	2 228	762	1 093	381	1 246
Statistical discrepancy (expenditure)	KB7T	-541	-108	-178	-56	-3 336	-3 426	-3 474
Gross domestic product:								
income at current prices (Table D)								
Compensation of employees	KB7U	892	71	386	456	396	-102	1 634
Gross operating surplus of corporations	KB7V	-1 727	25	-103	-464	-3 683	-5 730	-6 499
Other income	KB7W	-22	93	-245	45	-80	394	264
Gross value added at factor cost	KB7X	-857	189	38	37	-3 367	-5 438	-4 601
Taxes on products & production less Subsidies	KB7Y	123	-311	54	8	139	1 208	160
Statistical discrepancy (income)	KB7Z	246	-617	-168	1 069	4 823	4 949	5 020

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

		2022 Q1	2022 Q2	2022 Q3	2022 Q4	2023 Q1	2023 Q2	2023 Q3
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	-	-	-	-	-	-0.2	-0.1
Quarter on same quarter a year earlier	KB94	-	-	-	-0.1	-0.1	-0.3	-0.3
Percentage changes in volume								
of GVA output components (Table B1)								
GVA at basic prices quarter on quarter growth								
Agriculture, forestry and fishing	KB83	-	-	-	0.1	-	-	-
Mining and quarrying inc oil & gas extraction	KB84	-0.4	-	0.1	0.2	-0.7	0.5	-0.4
Manufacturing	KB85	-	-0.1	0.3	0.1	-0.1	-0.2	-
Electricity, gas, steam and air	KB86	0.2	0.3	0.5	-0.7	1.0	-2.0	1.5
Water supply, sewerage	KNT7	-0.3	0.3	0.5	-0.2	-0.6	-0.5	-0.3
Total Production	KB87	-	-	0.3	-	-0.1	-0.3	0.1
Construction	KB88	0.1	-0.1	0.4	0.4	-0.6	0.1	0.3
Distribution, hotels and restaurants	KB89	-	-0.1	0.1	0.1	-0.3	-0.5	-0.1
Transport storage and communications	KB8A	-0.2	-0.4	0.4	-	0.6	-0.5	-0.6
Business services and finance	KB8B	0.1	-0.1	-0.1	0.3	0.1	-	-0.2
Government and other services	KB8C	-0.1	0.1	-0.1	0.2	-	0.1	0.1
Total services	KB8D	-0.1	-0.1	-	0.2	0.1	-0.1	-0.1
Total GVA	KB8E	-	-	-	-0.1	-0.1	-0.1	-0.1
Total GVA excluding Oil	KB8F	-	-	-	-	-0.1	-0.1	-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	-	-0.1
Non-profit institutions serving households	KB8H	-1.3	0.1	-1.0	-0.2	1.6	4.9	-1.0
General government	KB8I	0.2	-0.6	-0.2	0.1	0.1	0.1	1.3
Gross fixed capital formation	KB8J	-0.6	0.3	0.5	0.6	-0.1	-1.8	0.4
Total	KB8K	0.1	-0.1	0.1	-0.1	0.4	-0.4	0.2
Total exports	KB8L	0.2	0.2	-0.1	0.1	0.2	0.5	-1.1
Total imports	KB8M	0.2	0.1	0.3	-	0.2	-0.2	-0.2

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												
2020	L3BB -9.3	L3BG 2.3	L3BH 0.1	L3BN 2.2	L3DM 5.0	L3DQ 1.6	L3DW -12.6	L3E2 -11.9	L3GP -20.6	KI8L -8.8	KI8N -3.7	KI8P -20.7
2021	-6.8	-3.9	-23.4	1.6	-32.1	4.4	9.8	10.9	21.1	8.4	5.2	16.9
2022	1.5	-3.4	-1.0	-3.3	-11.2	0.3	6.8	5.6	5.1	8.5	2.7	9.4
Contributions to growth												
	ZZ3V	ZZ3W	ZZ3Y	ZZ3X	ZZ3Z	ZZ42	ZZ43	ZZ44	ZZ45	ZZ46	ZZ47	ZZ48
2020	-0.06	0.32	-	0.22	0.08	0.02	-0.79	-9.43	-2.73	-0.90	-1.27	-4.52
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
Percentage change, latest quarter on previous quarter												
Growth												
2021 Q2	L3BB 0.8	L3BG -2.6	L3BH -18.8	L3BN -0.6	L3DM -10.6	L3DQ 0.3	L3DW 4.1	L3E2 9.3	L3GP 24.7	KI8L 6.0	KI8N 1.7	KI8P 16.7
Q3	2.1	-2.4	15.4	-2.1	-18.4	-0.3	-1.9	2.5	4.8	1.8	0.2	5.3
Q4	0.3	-0.5	-5.3	-0.1	-2.2	0.8	1.5	1.6	-2.8	2.5	0.9	5.3
2022 Q1	-0.4	-	3.0	-0.7	5.1	-	3.2	0.7	0.2	3.4	0.4	0.3
Q2	0.7	-0.6	1.8	-1.0	-0.7	0.9	1.8	0.1	0.3	-0.2	1.1	-1.5
Q3	-	-1.5	-2.8	-1.4	-0.8	-1.4	1.0	-	-1.4	1.6	0.2	-0.2
Q4	-0.5	-	-5.7	0.7	-1.0	-0.8	1.9	0.4	0.1	0.1	0.5	0.4
2023 Q1	-	-	-7.3	0.4	1.6	0.2	-	0.4	-0.4	1.4	0.3	0.5
Q2	-	0.9	-0.7	1.7	-2.4	-1.6	0.4	-0.1	-0.1	-0.3	-0.5	0.5
Q3	0.2	0.1	0.2	0.1	1.9	-1.1	0.4	-0.2	-0.1	-1.2	-0.2	0.2
Contributions to growth												
	ZZ2F	ZZ2G	ZZ2I	ZZ2H	ZZ2J	ZZ2K	ZZ2L	ZZ2M	ZZ2N	ZZ2O	ZZ2P	ZZ2Q
2021 Q2	-	-0.40	-0.18	-0.07	-0.15	-	0.26	7.24	2.84	0.63	0.62	3.14
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	-	-	-0.05	0.04	0.02	-	-	0.32	-0.05	0.16	0.10	0.11
Q2	-	0.12	-	0.16	-0.02	-0.02	0.02	-0.11	-0.02	-0.03	-0.18	0.11
Q3	-	0.01	-	0.01	0.02	-0.01	0.03	-0.18	-0.02	-0.13	-0.09	0.05
Percentage change, latest quarter on corresponding quarter of previous year												
Growth												
2021 Q2	L3ZZ -4.4	L426 8.0	L427 -34.5	L42D 20.1	L44C -28.2	L44G 8.9	L44M 49.0	L44Q 28.0	L47F 76.3	KII2 22.8	KIH9 10.6	KIH8 44.3
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	-2.1	-13.5	-1.4	-0.9	-1.1	4.9	0.9	-1.4	2.9	2.2	-0.8
Q2	-0.6	-0.5	-15.6	1.3	-2.6	-3.6	3.4	0.7	-1.8	2.8	0.5	1.3
Q3	-0.3	1.1	-12.9	2.9	0.1	-3.4	2.8	0.4	-0.5	-	-	1.7
Contributions to growth												
	ZZ36	ZZ37	ZZ39	ZZ38	ZZ3A	ZZ3B	ZZ3C	ZZ3D	ZZ3E	ZZ3F	ZZ3G	ZZ3H
2021 Q2	-0.03	1.28	-0.49	2.21	-0.58	0.14	2.56	21.88	7.29	2.43	4.24	7.92
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	-	-0.27	-0.11	-0.14	-0.01	-0.01	0.30	0.71	-0.18	0.32	0.75	-0.17
Q2	-	-0.07	-0.13	0.13	-0.02	-0.05	0.21	0.53	-0.24	0.30	0.18	0.28
Q3	-	0.13	-0.10	0.28	-	-0.04	0.17	0.32	-0.06	-	0.01	0.37

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									
	Households	Non-profit institutions ³	General government	Gross capital formation	Gross fixed capital formation	Business investment	Total exports	less Total imports	Net trade
Percentage change, latest year on previous year									
Growth									
	KGZ5	KH26	KH2I	ZZ6H	KG7N	KG7M	KH2U	KH3N	
2020	-13.0	-20.8	-7.9	-11.2	-10.8	-10.6	-11.5	-16.0	
2021	7.5	7.1	14.9	8.3	7.4	2.0	4.9	6.1	
2022	4.8	12.2	2.3	7.1	8.0	9.6	9.0	14.6	
Contributions to growth									
	ZZ6M	ZZ6N	ZZ6O	ZZ6P	ZZ6Q	ZZ6R	ZZ6S	ZZ6T	ZZ6U
2020	-8.00	-0.46	-1.51	-2.05	-1.96	-1.09	-3.63	-5.29	1.66
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
Percentage change, latest quarter on previous quarter									
Growth									
	KGZ6	KH27	KH2J	ZZ5H	KG7Q	KG7P	KH2V	KH3O	
2021 Q2	11.8	12.7	7.8	-12.1	5.4	11.6	7.8	3.8	
Q3	2.9	3.5	0.9	13.9	-0.6	-1.2	-4.4	4.2	
Q4	0.3	1.1	1.1	-6.1	0.5	0.8	10.1	2.1	
2022 Q1	0.7	4.3	1.0	23.6	5.1	3.1	-7.6	9.5	
Q2	0.3	2.4	-2.6	-4.0	0.4	3.1	5.8	2.0	
Q3	-0.9	0.3	0.5	-19.1	1.7	2.2	11.0	-3.1	
Q4	-0.1	0.5	-0.6	0.8	0.6	0.4	0.3	0.5	
2023 Q1	0.8	0.7	-1.1	12.2	2.4	3.8	-6.2	-1.6	
Q2	0.5	0.4	2.6	-0.1	-1.0	1.4	-0.4	2.0	
Q3	-0.5	0.5	0.8	-0.8	-1.6	-3.2	-0.6	-1.0	
Contributions to growth									
	ZZ5M	ZZ5N	ZZ5O	ZZ5P	ZZ5Q	ZZ5R	ZZ5S	ZZ5T	ZZ5U
2021 Q2	6.73	0.23	1.62	-2.46	1.00	1.10	2.37	1.17	1.20
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	0.47	0.02	-0.22	2.02	0.46	0.39	-2.07	-0.52	-1.55
Q2	0.30	0.01	0.51	-0.01	-0.18	0.15	-0.13	0.63	-0.76
Q3	-0.29	0.01	0.16	-0.14	-0.31	-0.35	-0.19	-0.33	0.14
Percentage change, latest quarter on corresponding quarter of previous year									
Growth									
	KGZ7	KH28	KH2K	ZZ5Y	KG7T	KG7S	KH2W	KH3P	
2021 Q2	26.9	33.3	34.8	41.8	25.9	18.7	12.1	26.8	
Q3	9.2	13.0	15.2	12.1	8.2	5.8	7.1	12.1	
Q4	11.5	8.8	11.0	-13.6	2.7	1.0	11.4	-0.1	
2022 Q1	16.1	22.9	11.1	16.2	10.7	14.5	4.8	21.1	
Q2	4.2	11.7	0.4	26.9	5.5	5.8	2.9	18.9	
Q3	0.3	8.3	-	-9.8	8.0	9.5	19.5	10.5	
Q4	-0.1	7.6	-1.7	-3.2	8.0	9.1	8.9	8.7	
2023 Q1	0.1	3.9	-3.7	-12.1	5.3	9.9	10.6	-2.3	
Q2	0.2	1.9	1.4	-8.6	3.8	8.0	4.1	-2.3	
Q3	0.7	2.1	1.7	12.2	0.4	2.3	-6.8	-0.1	
Contributions to growth									
	ZZ65	ZZ66	ZZ67	ZZ68	ZZ69	ZZ6A	ZZ6B	ZZ6C	ZZ6D
2021 Q2	15.91	0.61	6.78	6.16	4.67	1.94	4.13	7.86	-3.73
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	0.04	0.08	-0.77	-2.57	0.96	0.96	3.04	-0.76	3.80
Q2	0.14	0.04	0.27	-1.74	0.70	0.80	1.25	-0.79	2.03
Q3	0.42	0.04	0.33	2.00	0.07	0.23	-2.28	-0.05	-2.23

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
2020	0.7	-1.3	0.5	-49.9
2021	5.6	5.3	3.8	58.7
2022	7.5	10.5	8.0	33.8
Contributions to growth				
	ZZ7H	ZZ7I	ZZ7J	ZZ7K
2020	0.33	-0.29	0.09	-5.93
2021	2.89	1.21	0.71	3.69
2022	3.80	2.32	1.44	3.12
Percentage change, latest quarter on previous quarter				
Growth				
	KGI4	KH4W	KH6U	KH66
2021 Q2	2.8	7.8	0.9	32.5
Q3	1.2	-1.1	-0.3	24.9
Q4	1.1	1.0	1.3	15.8
2022 Q1	2.8	2.4	3.4	2.7
Q2	1.4	5.6	1.1	2.4
Q3	1.8	-1.6	2.8	3.4
Q4	2.0	9.6	4.2	-12.4
2023 Q1	1.5	5.1	4.9	-11.6
Q2	1.9	-4.2	1.4	25.5
Q3	1.5	-2.0	2.6	5.9
Contributions to growth				
	ZZ6Z	ZZ72	ZZ73	ZZ74
2021 Q2	1.50	1.75	0.17	2.18
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	0.75	1.19	0.89	-1.18
Q2	0.92	-0.99	0.26	2.22
Q3	0.74	-0.46	0.48	0.64
Percentage change, latest quarter on corresponding quarter of previous year				
Growth				
	KGI5	KH4X	KH6V	KH67
2021 Q2	8.4	12.0	4.8	-1 302.7
Q3	6.7	1.2	3.4	70.6
Q4	5.1	9.2	3.9	72.6
2022 Q1	8.2	10.2	5.4	96.8
Q2	6.6	7.9	5.6	52.0
Q3	7.2	7.4	8.9	25.9
Q4	8.1	16.5	12.0	-4.8
2023 Q1	6.8	19.6	13.5	-18.1
Q2	7.3	8.6	13.9	0.5
Q3	7.0	8.2	13.6	2.9
Contributions to growth				
	ZZ79	ZZ7A	ZZ7B	ZZ7C
2021 Q2	4.69	2.90	0.99	10.81
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	3.38	4.25	2.41	-2.09
Q2	3.63	1.92	2.44	0.05
Q3	3.50	1.77	2.43	0.35

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							
	House- holds	Non-prof- it instit- utions ²	General govern- ment	Gross capital formation	Gross fixed capital formation	Total exports	less Total imports	
Percentage change, latest year on previous year								
	ZZ93	ZZ94	ZZ95	ZZ96	ZZ97	ZZ98	ZZ99	
2020	0.2	13.4	21.0	1.4	1.3	-0.1	-1.3	
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	
Percentage change, latest quarter on previous quarter								
	ZZ8N	ZZ8O	ZZ8P	ZZ8Q	ZZ8R	ZZ8S	ZZ8T	
2021	Q2	0.3	-6.3	-9.4	0.9	-1.1	0.9	-0.4
	Q3	1.2	0.5	-0.7	5.1	6.1	0.2	2.9
	Q4	1.4	1.1	-0.4	4.8	-0.2	3.8	5.4
2022	Q1	2.3	-4.0	3.6	-2.9	0.1	4.1	3.7
	Q2	3.0	-0.9	-1.0	2.6	2.1	5.0	4.6
	Q3	2.4	1.4	2.4	5.0	1.5	2.9	7.0
	Q4	2.4	0.9	0.9	-5.0	1.0	1.7	-2.5
2023	Q1	1.9	1.1	1.6	1.8	0.8	0.7	-0.2
	Q2	1.2	1.2	2.6	2.1	0.7	-0.4	-2.4
	Q3	0.7	0.8	-0.7	5.7	0.9	-1.0	-1.6
Percentage change, latest quarter on corresponding quarter of previous year								
	ZZ8U	ZZ8V	ZZ8W	ZZ8X	ZZ8Y	ZZ8Z	ZZ92	
2021	Q2	1.7	-16.6	-23.0	-0.8	-1.7	3.1	2.7
	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	10.0	2.4	3.9	4.2	5.5	10.7	9.0
	Q2	8.0	4.6	7.6	3.6	4.0	4.9	1.6
	Q3	6.3	4.0	4.3	4.3	3.4	1.0	-6.6

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	Distri- bution, hotels & restaurants	Transport, storage and commu- nications	Business services and finance	Govern- ment & other services
Percentage change, latest year on previous year												
Current estimates³												
2020	L3BB -9.3	L3BG 2.3	L3BH 0.1	L3BN 2.2	L3DM 5.0	L3DQ 1.6	L3DW -12.6	L3E2 -11.9	L3GP -20.6	KI8L -8.8	KI8N -3.7	KI8P -20.7
2021	-6.8	-3.9	-23.4	1.6	-32.1	4.4	9.8	10.9	21.1	8.4	5.2	16.9
2022	1.5	-3.4	-1.0	-3.3	-11.2	0.3	6.8	5.6	5.1	8.5	2.7	9.4
Previous estimates²												
2020	A2EQ -9.3	A2ER 2.3	A2ET 0.1	A2ES 2.2	A2EU 5.0	A2EV 1.6	A2EW -12.6	A2EY -11.9	A2F2 -20.6	A2F3 -8.8	A2F4 -3.7	A2F5 -20.7
2021	-6.8	-3.9	-23.4	1.6	-32.1	4.4	9.8	10.9	21.1	8.4	5.2	16.9
2022	1.5	-3.5	-0.7	-3.3	-11.6	0.2	6.5	5.6	5.2	8.8	2.6	9.5
Revisions												
2020	ZZ52 -	ZZ53 -	ZZ55 -	ZZ54 -	ZZ56 -	ZZ57 -	ZZ58 -	ZZ59 -	ZZ5A -	ZZ5B -	ZZ5C -	ZZ5D -
2021	-	-	-	-	-	-	-	-	-	-	-	-
2022	-	0.1	-0.3	-	0.4	0.1	0.3	-	-0.1	-0.3	0.1	-0.1
Percentage change, latest quarter on previous quarter												
Current estimates³												
2021 Q2	L3BB 0.8	L3BG -2.6	L3BH -18.8	L3BN -0.6	L3DM -10.6	L3DQ 0.3	L3DW 4.1	L3E2 9.3	L3GP 24.7	KI8L 6.0	KI8N 1.7	KI8P 16.7
Q3	2.1	-2.4	15.4	-2.1	-18.4	-0.3	-1.9	2.5	4.8	1.8	0.2	5.3
Q4	0.3	-0.5	-5.3	-0.1	-2.2	0.8	1.5	1.6	-2.8	2.5	0.9	5.3
2022 Q1	-0.4	-	3.0	-0.7	5.1	-	3.2	0.7	0.2	3.4	0.4	0.3
Q2	0.7	-0.6	1.8	-1.0	-0.7	0.9	1.8	0.1	0.3	-0.2	1.1	-1.5
Q3	-	-1.5	-2.8	-1.4	-0.8	-1.4	1.0	-	-1.4	1.6	0.2	-0.2
Q4	-0.5	-	-5.7	0.7	-1.0	-0.8	1.9	0.4	0.1	0.1	0.5	0.4
2023 Q1	-	-	-7.3	0.4	1.6	0.2	-	0.4	-0.4	1.4	0.3	0.5
Q2	-	0.9	-0.7	1.7	-2.4	-1.6	0.4	-0.1	-0.1	-0.3	-0.5	0.5
Q3	0.2	0.1	0.2	0.1	1.9	-1.1	0.4	-0.2	-0.1	-1.2	-0.2	0.2
Previous estimates²												
2021 Q2	A2CX 0.8	A2CY -2.6	A2DO -18.8	A2DL -0.6	A2DR -10.6	A2DS 0.3	A2DT 4.1	A2DU 9.3	A2DV 24.7	A2DW 6.0	A2DX 1.7	A2DY 16.7
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	-	3.4	-0.7	4.9	0.3	3.1	0.8	0.2	3.6	0.3	0.4
Q2	0.7	-0.6	1.8	-0.9	-1.0	0.6	1.9	0.2	0.4	0.2	1.2	-1.6
Q3	-	-1.8	-2.9	-1.7	-1.3	-1.9	0.6	-	-1.5	1.2	0.3	-0.1
Q4	-0.6	-	-5.9	0.6	-0.3	-0.6	1.5	0.2	-	0.1	0.2	0.2
2023 Q1	-	0.1	-6.6	0.5	0.6	0.8	0.6	0.3	-0.1	0.8	0.2	0.5
Q2	-	1.2	-1.2	1.9	-0.4	-1.1	0.3	-	0.4	0.2	-0.5	0.4
Q3	0.2	-	0.6	0.1	0.4	-0.8	0.1	-0.1	-	-0.6	-	0.1
Revisions												
2021 Q2	ZZ4A -	ZZ4B -	ZZ4D -	ZZ4C -	ZZ4E -	ZZ4F -	ZZ4G -	ZZ4H -	ZZ4I -	ZZ4J -	ZZ4K -	ZZ4L -
Q3	-	-	-	-	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-	-	-	-	-
2022 Q1	-	-	-0.4	-	0.2	-0.3	0.1	-0.1	-	-0.2	0.1	-0.1
Q2	-	-	-	-0.1	0.3	0.3	-0.1	-0.1	-0.1	-0.4	-0.1	0.1
Q3	-	0.3	0.1	0.3	0.5	0.5	0.4	-	0.1	0.4	-0.1	-0.1
Q4	0.1	-	0.2	0.1	-0.7	-0.2	0.4	0.2	0.1	-	0.3	0.2
2023 Q1	-	-0.1	-0.7	-0.1	1.0	-0.6	-0.6	0.1	-0.3	0.6	0.1	-
Q2	-	-0.3	0.5	-0.2	-2.0	-0.5	0.1	-0.1	-0.5	-0.5	-	0.1
Q3	-	0.1	-0.4	-	1.5	-0.3	0.3	-0.1	-0.1	-0.6	-0.2	0.1

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 inc oil & gas extract	Manu- facturing	Electric, gas, steam & air	Water supply, sewerage	Constr- uction	Total Services	Distri- bution, hotels & restaurants	Transport, storage and commu- nications	Business services and finance	Govern- ment & other services
Percentage growths, latest quarter on corresponding quarter of previous year													
Current estimates³													
2021	Q2	L3ZZ	L426	L427	L42D	L44C	L44G	L44M	L44Q	L47F	KII2	KIH9	KIH8
	Q3	-4.4	8.0	-34.5	20.1	-28.2	8.9	49.0	28.0	76.3	22.8	10.6	44.3
	Q4	-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	-2.1	-13.5	-1.4	-0.9	-1.1	4.9	0.9	-1.4	2.9	2.2	-0.8
	Q2	-0.6	-0.5	-15.6	1.3	-2.6	-3.6	3.4	0.7	-1.8	2.8	0.5	1.3
	Q3	-0.3	1.1	-12.9	2.9	0.1	-3.4	2.8	0.4	-0.5	-	-	1.7
Previous estimates²													
2021	Q2	A2DZ	A2E2	A2E4	A2E3	A2E5	A2EE	A2EK	A2EL	A2EM	A2EN	A2EO	A2EP
	Q3	-4.4	8.0	-34.5	20.1	-28.2	8.9	49.0	28.0	76.3	22.8	10.6	44.3
	Q4	-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	2.9	-5.3	-8.3	-3.4	-25.2	1.0	6.9	14.7	27.4	14.6	3.1	29.9
	Q2	2.8	-3.4	14.9	-3.7	-17.1	1.4	4.6	5.1	2.6	8.3	2.6	9.5
	Q3	0.6	-2.8	-3.3	-3.3	0.2	-0.2	7.2	2.6	-3.6	7.7	2.8	3.9
	Q4	-0.3	-2.3	-3.9	-2.7	2.1	-1.6	7.2	1.1	-0.8	5.2	2.1	-1.1
2023	Q1	0.1	-2.2	-13.1	-1.5	-2.0	-1.0	4.6	0.7	-1.1	2.4	2.0	-1.0
	Q2	-0.6	-0.5	-15.7	1.2	-1.5	-2.7	3.0	0.6	-1.1	2.4	0.3	1.1
	Q3	-0.3	1.4	-12.6	3.0	0.3	-1.6	2.5	0.5	0.4	0.5	-	1.3
Revisions													
2021	Q2	ZZ4N	ZZ4O	ZZ4Q	ZZ4P	ZZ4R	ZZ4S	ZZ4T	ZZ4U	ZZ4V	ZZ4W	ZZ4X	ZZ4Y
	Q3	-	-	-	-	-	-	-	-	-	-	-	-
	Q4	-	-	-	-	-	-	-	-	-	-	-	-
2022	Q1	-0.1	-0.1	-0.3	-0.1	0.2	-0.2	0.1	-	-0.1	-0.2	0.1	-0.2
	Q2	-0.1	-0.1	-0.3	-0.2	0.5	-	-	-0.1	-0.2	-0.6	-	-
	Q3	-	0.2	-0.2	0.1	1.1	0.5	0.5	-0.1	-0.1	-0.3	-0.1	-0.1
	Q4	-	0.2	0.1	0.2	0.3	0.3	0.9	0.1	-	-0.3	0.1	0.1
2023	Q1	-	0.1	-0.4	0.1	1.1	-0.1	0.3	0.2	-0.3	0.5	0.2	0.2
	Q2	-	-	0.1	0.1	-1.1	-0.9	0.4	0.1	-0.7	0.4	0.2	0.2
	Q3	-	-0.3	-0.3	-0.1	-0.2	-1.8	0.3	-0.1	-0.9	-0.5	-	0.4

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

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

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

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				Gross Capital Formation	Gross Fixed Capital Formation	Business investment	Total exports	/less Total imports
	Households	Non-prof- it institutions ^{3, 5}	General government						
Percentage change, latest year on previous year									
Current estimates ⁴									
	KGZ5	KH26	KH2I	ZZ6H	KG7N	KG7M	KH2U	KH3N	
2020	-13.0	-20.8	-7.9	-11.2	-10.8	-10.6	-11.5	-16.0	
2021	7.5	7.1	14.9	8.3	7.4	2.0	4.9	6.1	
2022	4.8	12.2	2.3	7.1	8.0	9.6	9.0	14.6	
Previous estimates ²									
	A275	A276	A289	A28J	A28L	A29D	A29F	A2CK	
2020	-13.0	-20.8	-7.9	-11.2	-10.8	-10.6	-11.5	-16.0	
2021	7.5	7.1	14.9	8.3	7.4	2.0	4.9	6.1	
2022	4.9	14.2	2.5	5.9	7.9	9.6	8.6	14.1	
Revisions									
	ZZ83	ZZ84	ZZ85	ZZ86	ZZ87	ZZ88	ZZ89	ZZ8A	
2020	-	-	-	-	-	-	-	-	
2021	-	-	-	-	-	-	-	-	
2022	-0.1	-2	-0.2	1.2	0.1	-	0.4	0.5	
Percentage change, latest quarter on previous quarter									
Current estimates ⁴									
	KGZ6	KH27	KH2J	ZZ5H	KG7Q	KG7P	KH2V	KH3O	
2021 Q2	11.8	12.7	7.8	-12.1	5.4	11.6	7.8	3.8	
Q3	2.9	3.5	0.9	13.9	-0.6	-1.2	-4.4	4.2	
Q4	0.3	1.1	1.1	-6.1	0.5	0.8	10.1	2.1	
2022 Q1	0.7	4.3	1.0	23.6	5.1	3.1	-7.6	9.5	
Q2	0.3	2.4	-2.6	-4.0	0.4	3.1	5.8	2.0	
Q3	-0.9	0.3	0.5	-19.1	1.7	2.2	11.0	-3.1	
Q4	-0.1	0.5	-0.6	0.8	0.6	0.4	0.3	0.5	
2023 Q1	0.8	0.7	-1.1	12.2	2.4	3.8	-6.2	-1.6	
Q2	0.5	0.4	2.6	-0.1	-1.0	1.4	-0.4	2.0	
Q3	-0.5	0.5	0.8	-0.8	-1.6	-3.2	-0.6	-1.0	
Previous estimates ²									
	A24M	A24X	A24Y	A25I	A25J	A25M	A264	A268	
2021 Q2	11.8	12.7	7.8	-12.1	5.4	11.6	7.8	3.8	
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	5.6	0.8	22.8	5.7	4.6	-7.8	9.3	
Q2	0.3	2.3	-2.0	-4.1	0.1	1.9	5.6	1.9	
Q3	-0.9	1.3	0.7	-20.1	1.2	1.8	11.1	-3.4	
Q4	-0.1	0.7	-0.7	1.6	-	-0.9	0.2	0.5	
2023 Q1	0.7	-0.9	-1.2	10.4	2.5	4.0	-6.4	-1.8	
Q2	0.5	-4.5	2.5	2.5	0.8	4.1	-0.9	2.2	
Q3	-0.4	1.5	-0.5	-0.7	-2.0	-4.2	0.5	-0.8	
Revisions									
	ZZ7L	ZZ7M	ZZ7N	ZZ7O	ZZ7P	ZZ7Q	ZZ7R	ZZ7S	
2021 Q2	-	-	-	-	-	-	-	-	
Q3	-	-	-	-	-	-	-	-	
Q4	-	-	-	-	-	-	-	-	
2022 Q1	-	-1.3	0.2	0.8	-0.6	-1.5	0.2	0.2	
Q2	-	0.1	-0.6	0.1	0.3	1.2	0.2	0.1	
Q3	-	-1.0	-0.2	1.0	0.5	0.4	-0.1	0.3	
Q4	-	-0.2	0.1	-0.8	0.6	1.3	0.1	-	
2023 Q1	0.1	1.6	0.1	1.8	-0.1	-0.2	0.2	0.2	
Q2	-	4.9	0.1	-2.6	-1.8	-2.7	0.5	-0.2	
Q3	-0.1	-1.0	1.3	-0.1	0.4	1.0	-1.1	-0.2	

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							
	House-holds	Non-prof- it instit- utions ³	General govern- ment	Gross capital formation	Gross fixed capital formation	Business investme nt	Total exports	less Total imports
Percentage change, latest quarter on corresponding quarter of the previous year								
Current estimates⁴								
	KGZ7	KH28	KH2K	ZZ5Y	KG7T	KG7S	KH2W	KH3P
2021 Q2	26.9	33.3	34.8	41.8	25.9	18.7	12.1	26.8
Q3	9.2	13.0	15.2	12.1	8.2	5.8	7.1	12.1
Q4	11.5	8.8	11.0	-13.6	2.7	1.0	11.4	-0.1
2022 Q1	16.1	22.9	11.1	16.2	10.7	14.5	4.8	21.1
Q2	4.2	11.7	0.4	26.9	5.5	5.8	2.9	18.9
Q3	0.3	8.3	-	-9.8	8.0	9.5	19.5	10.5
Q4	-0.1	7.6	-1.7	-3.2	8.0	9.1	8.9	8.7
2023 Q1	0.1	3.9	-3.7	-12.1	5.3	9.9	10.6	-2.3
Q2	0.2	1.9	1.4	-8.6	3.8	8.0	4.1	-2.3
Q3	0.7	2.1	1.7	12.2	0.4	2.3	-6.8	-0.1
Previous estimates²								
	A26C	A26H	A26I	A26J	A26K	A26L	A26M	A26N
2021 Q2	26.9	33.3	34.8	41.8	25.9	18.7	12.1	26.8
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	16.2	24.4	10.8	15.5	11.4	16.1	4.6	20.8
Q2	4.3	13.0	0.7	26.0	5.7	6.1	2.5	18.5
Q3	0.4	10.7	0.5	-11.6	7.7	9.3	19.0	9.9
Q4	-	10.3	-1.3	-4.4	7.2	7.5	8.3	8.1
2023 Q1	-	3.4	-3.2	-14.0	3.9	7.0	9.9	-2.8
Q2	0.2	-3.4	1.3	-8.1	4.6	9.2	3.2	-2.5
Q3	0.7	-3.3	0.1	14.1	1.3	2.8	-6.6	0.1
Revisions								
	ZZ7T	ZZ7U	ZZ7V	ZZ7W	ZZ7X	ZZ7Y	ZZ7Z	ZZ82
2021 Q2	-	-	-	-	-	-	-	-
Q3	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-
2022 Q1	-0.1	-1.5	0.3	0.7	-0.7	-1.6	0.2	0.3
Q2	-0.1	-1.3	-0.3	0.9	-0.2	-0.3	0.4	0.4
Q3	-0.1	-2.4	-0.5	1.8	0.3	0.2	0.5	0.6
Q4	-0.1	-2.7	-0.4	1.2	0.8	1.6	0.6	0.6
2023 Q1	0.1	0.5	-0.5	1.9	1.4	2.9	0.7	0.5
Q2	-	5.3	0.1	-0.5	-0.8	-1.2	0.9	0.2
Q3	-	5.4	1.6	-1.9	-0.9	-0.5	-0.2	-0.2

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
2020	0.7	-1.3	0.5	-49.9
2021	5.6	5.3	3.8	58.7
2022	7.5	10.5	8.0	33.8
Previous estimates²				
	A2CT	A2CU	A2CV	A2CW
2020	0.7	-1.3	0.5	-49.9
2021	5.6	5.3	3.8	58.7
2022	7.4	11.0	8.0	33.9
Revisions				
	ZZ8J	ZZ8K	ZZ8L	ZZ8M
2020	-	-	-	-
2021	-	-	-	-
2022	0.1	-0.5	-	-0.1
Percentage change, latest quarter on previous quarter				
Current estimates³				
	KGI4	KH4W	KH6U	KH66
2021 Q2	2.8	7.8	0.9	32.5
Q3	1.2	-1.1	-0.3	24.9
Q4	1.1	1.0	1.3	15.8
2022 Q1	2.8	2.4	3.4	2.7
Q2	1.4	5.6	1.1	2.4
Q3	1.8	-1.6	2.8	3.4
Q4	2.0	9.6	4.2	-12.4
2023 Q1	1.5	5.1	4.9	-11.6
Q2	1.9	-4.2	1.4	25.5
Q3	1.5	-2.0	2.6	5.9
Previous estimates²				
	A2CL	A2CM	A2CN	A2CO
2021 Q2	2.8	7.8	0.9	32.5
Q3	1.2	-1.1	-0.3	24.9
Q4	1.1	1.0	1.3	15.8
2022 Q1	2.5	3.7	3.5	2.5
Q2	1.6	4.2	1.0	3.0
Q3	1.7	-1.6	3.1	2.9
Q4	1.9	9.9	3.9	-12.4
2023 Q1	1.5	7.2	5.0	-11.8
Q2	2.0	-2.8	1.0	23.7
Q3	1.0	-1.5	2.7	7.5
Revisions				
	ZZ8B	ZZ8C	ZZ8D	ZZ8E
2021 Q2	-	-	-	-
Q3	-	-	-	-
Q4	-	-	-	-
2022 Q1	0.3	-1.3	-0.1	0.2
Q2	-0.2	1.4	0.1	-0.6
Q3	0.1	-	-0.3	0.5
Q4	0.1	-0.3	0.3	-
2023 Q1	-	-2.1	-0.1	0.2
Q2	-0.1	-1.4	0.4	1.8
Q3	0.5	-0.5	-0.1	-1.6

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

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

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

AG Annex G - Income components of GDP- growths and revisions from previous estimate^{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				
	KGI5	KH4X	KH6V	KH67
2021 Q2	8.4	12.0	4.8	-1 302.7
Q3	6.7	1.2	3.4	70.6
Q4	5.1	9.2	3.9	72.6
2022 Q1	8.2	10.2	5.4	96.8
Q2	6.6	7.9	5.6	52.0
Q3	7.2	7.4	8.9	25.9
Q4	8.1	16.5	12.0	-4.8
2023 Q1	6.8	19.6	13.5	-18.1
Q2	7.3	8.6	13.9	0.5
Q3	7.0	8.2	13.6	2.9
Previous estimates²				
	A2CP	A2CQ	A2CR	A2CS
2021 Q2	8.4	12.0	4.8	-1 302.7
Q3	6.7	1.2	3.4	70.6
Q4	5.1	9.2	3.9	72.6
2022 Q1	7.9	11.7	5.5	96.5
Q2	6.6	7.9	5.5	52.7
Q3	7.1	7.5	9.1	25.8
Q4	8.0	16.9	11.9	-4.8
2023 Q1	7.0	20.8	13.6	-18.1
Q2	7.4	12.7	13.6	-1.6
Q3	6.6	12.8	13.1	2.8
Revisions				
	ZZ8F	ZZ8G	ZZ8H	ZZ8I
2021 Q2	-	-	-	-
Q3	-	-	-	-
Q4	-	-	-	-
2022 Q1	0.3	-1.5	-0.1	0.3
Q2	-	-	0.1	-0.7
Q3	0.1	-0.1	-0.2	0.1
Q4	0.1	-0.4	0.1	-
2023 Q1	-0.2	-1.2	-0.1	-
Q2	-0.1	-4.1	0.3	2.1
Q3	0.4	-4.6	0.5	0.1

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)