

Statistical bulletin

GDP first quarterly estimate, UK: October to December 2022

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



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Release date:
10 February 2023

Next release:
31 March 2023

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1 . Main points

- The first quarterly estimate of UK real gross domestic product (GDP) shows there was no growth in Quarter 4 (Oct to Dec) 2022.
- Monthly estimates published today (10 February 2023) show that GDP fell by 0.5% in December 2022, following an unrevised growth of 0.1% in November 2022.
- In output terms, the services sector slowed to flat output on the quarter driven by falls in the education, and transport and storage sub-sectors.
- Elsewhere, growth of 0.3% in construction was offset by a 0.2% fall in the production sector in Quarter 4 2022.
- In expenditure terms, growth in real household expenditure, government expenditure and gross fixed capital formation was offset by a fall in international trade flows in the fourth quarter.
- Compared with the same quarter a year ago, the implied GDP deflator rose by 6.6%, primarily reflecting higher cost pressures faced by households.
- GDP increased by an estimated 4.0% in 2022, following a 7.6% increase in 2021.

Estimates for September 2022 are affected by the bank holiday for the State Funeral of Her Majesty Queen Elizabeth II, where some businesses closed or operated differently on this day. This should be considered when interpreting the seasonally adjusted movements involving September and October 2022 and to a lesser extent the Quarter 3 (July to Sept) 2022 and Quarter 4 2022 estimates. For Quarter 4 2022, GDP estimates are [subject to more uncertainty than usual](#) as a result of the challenges we faced estimating GDP in the current conditions.

2 . Headline GDP figures

The first quarterly estimate of UK real gross domestic product (GDP) shows there was no growth in Quarter 4 (Oct to Dec) 2022. In line with the [National Accounts Revisions Policy](#), revisions are open back to Quarter 1 (Jan to Mar) 2022 as part of this publication. There have been some small revisions to the quarterly path of real GDP, specifically Quarter 1 2022 and Quarter 3 (July to Sept) 2022, while there have been some revisions to individual components of GDP. For more information, see [Section 6: Revisions to GDP](#).

The level of quarterly GDP in Quarter 4 2022 is now 0.8% below its pre-coronavirus (COVID-19) level (Quarter 4 2019; Figure 1), while GDP is estimated to have increased by 4.0% in 2022.

Early estimates of GDP are subject to revision. For more information please refer to our [Communicating the UK economic cycle methodology](#).

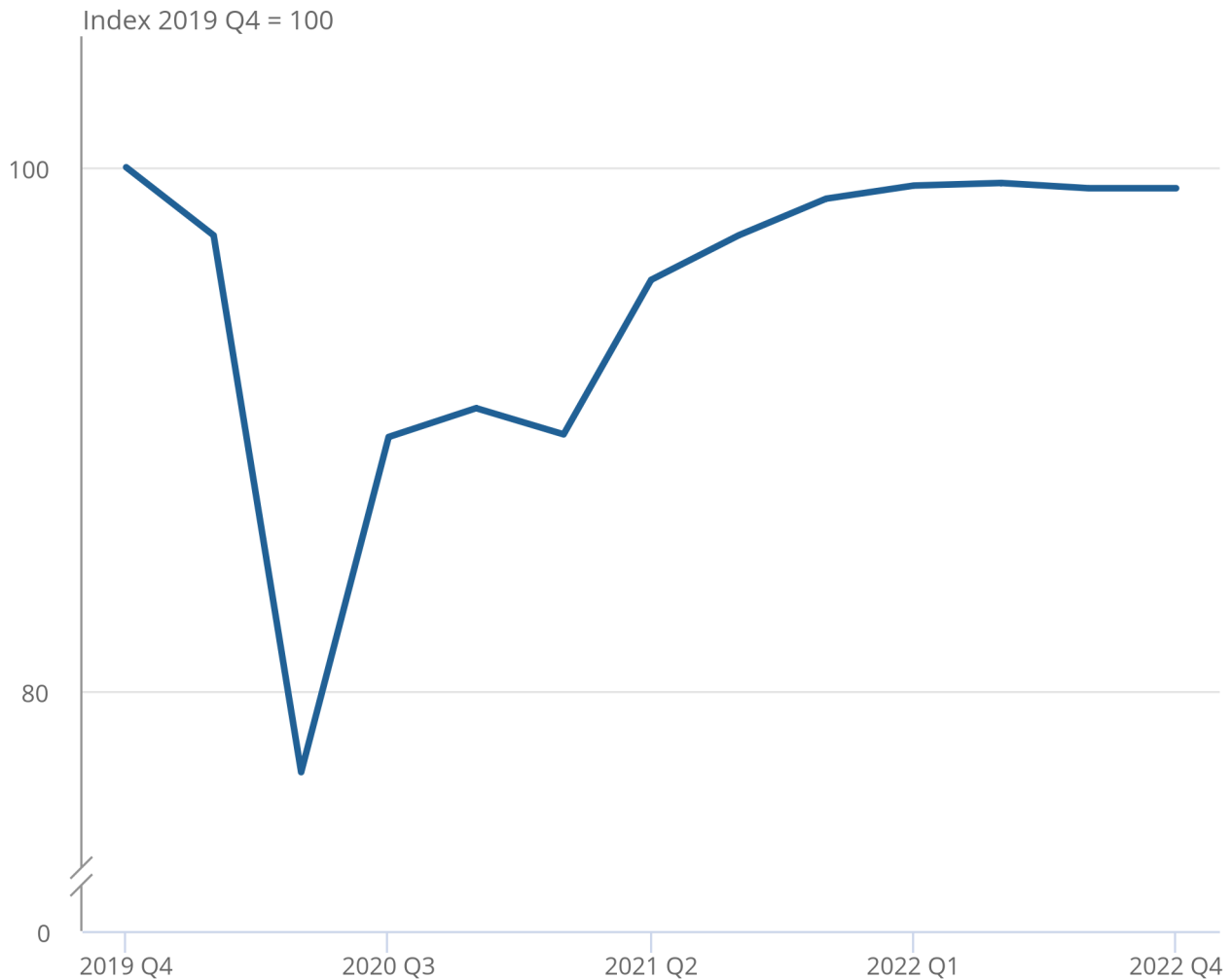
As published today (10 February 2023) in our [GDP monthly estimate, UK bulletin](#), GDP is estimated to have fallen by 0.5% in December 2022, following an increase of 0.5% in October 2022 and an increase of 0.1% in November 2022.

Figure 1: Real GDP is estimated to have been broadly flat in Quarter 4 (Oct to Dec) 2022

UK, Quarter 4 (Oct to Dec) 2019 to Quarter 4 2022

Figure 1: Real GDP is estimated to have been broadly flat in Quarter 4 (Oct to Dec) 2022

UK, Quarter 4 (Oct to Dec) 2019 to Quarter 4 2022



Source: Office for National Statistics – GDP first quarterly estimate

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. Index is referenced to Quarter 4 (Oct to Dec) 2019.
3. This release sees revisions to the course of 2022 in line with the [National Accounts revision policy](#). For more information, see the revisions to GDP section.

Nominal GDP is estimated to have increased by 1.3% in Quarter 4 2022, and was 7.0% higher than the same quarter a year ago.

Table 1: Headline National Accounts indicators for the UK, percentage change on previous period
% growth

	Chained volume measures		Current market prices	
	GDP	GDP per head (Note 3)	GDP	GDP implied deflator
Seasonally adjusted				
2022	4.0	3.4	9.3	5.1
2022 Q1	0.5	0.1	2.2	1.7
2022 Q2	0.1	-0.1	1.8	1.7
2022 Q3	-0.2	-0.2	1.6	1.8
2022 Q4	0.0	0.0	1.3	1.3

Source: Office for National Statistics – GDP first quarterly estimate

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.

The implied price of GDP rose by 1.3% in Quarter 4 2022, which was primarily driven by higher price pressures for household consumption (1.2%). In contrast, import prices fell in Quarter 4 2022.

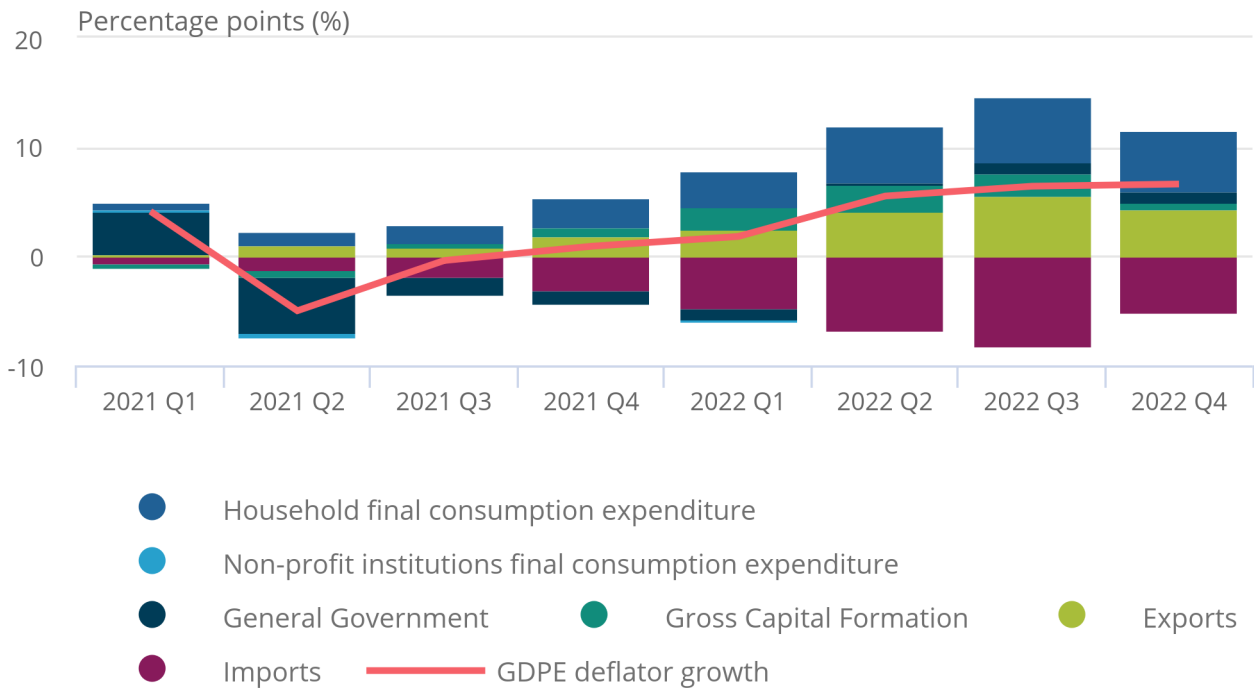
The implied price of GDP was 6.6% higher in Quarter 4 2022 than the same quarter a year ago. This has been driven by strong rises for the price of household consumption, while there have been large price movements in internationally traded goods and services (Figure 2). Further information on the price movements of trade is discussed in our [article, The purchasing power of GDP, UK: 2022](#).

Figure 2: The implied price of GDP increased by 6.6% compared with the same quarter a year ago

UK, contributions to quarter-on-quarter a year ago implied deflator, Quarter 1 (Jan to Mar) 2021 to Quarter 4 (Oct to Dec) 2022

Figure 2: The implied price of GDP increased by 6.6% compared with the same quarter a year ago

UK, contributions to quarter-on-quarter a year ago implied deflator, Quarter 1 (Jan to Mar) 2021 to Quarter 4 (Oct to Dec) 2022



Source: Office for National Statistics – GDP first quarterly estimate

Notes:

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

3 . Output

In Quarter 4 (Oct to Dec) 2022, services output was flat, production output fell by 0.2% and construction output rose by 0.3%. Across all of output, there were increases in 8 of the 20 sub-sectors on the quarter, while 12 sub-sectors saw a decrease on the quarter. There have been some revisions to earlier quarters in 2022 for some industries.

Services

There was no change in services output produced in Quarter 4 2022, which is a slowing from the 0.2% increase in the previous quarter. Overall, the services sector increased by 5.5% in 2022.

Figure 3 shows that there was a mixed performance for the service sub-sectors in the fourth quarter, with growth in 6 out of the 14 sub-sectors offset by falls in 8. The largest positive contribution to growth was from administrative and support service activities, particularly travel agents, which increased by 14.8% in Quarter 4 2022 following a fall in the previous quarter.

However, this was largely offset by declines in education (1.6%) and transportation and storage output (2.4%). For further information on the fall in education please see [Section 4: Expenditure](#). Within the transport and storage sub-sector there were falls from postal and courier activities as well as rail transport, as both industries saw strikes taking place across the fourth quarter. While the direct impact of the strikes in these industries can be seen in the scale of the falls, we are not able to isolate the impact of these strikes from other factors across the wider economy. However, there was anecdotal evidence to suggest this industrial action had an impact across a wide range of industries. For further information, please see our [GDP monthly estimate, UK statistical bulletin](#).

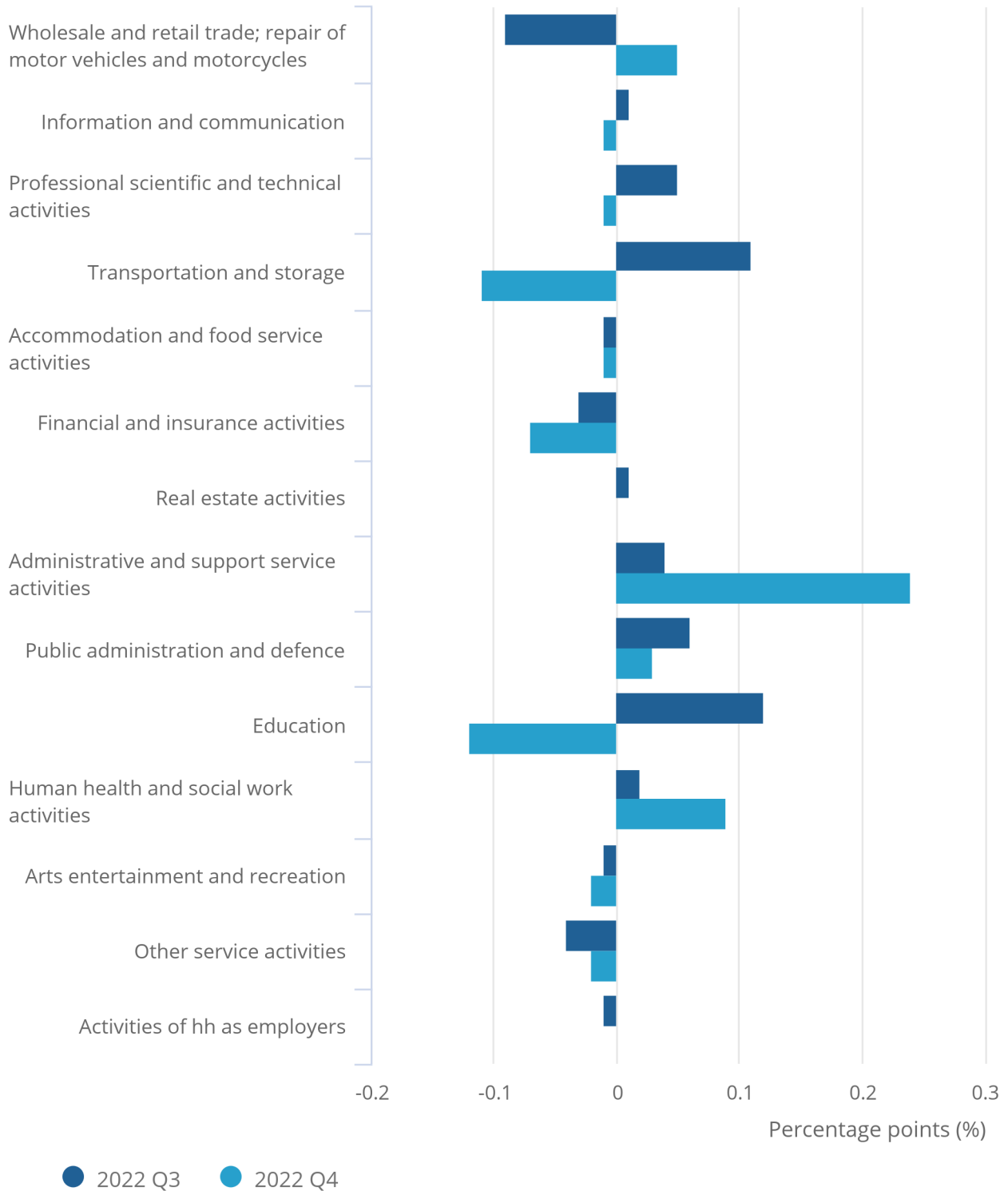
There was an increase in wholesale and retail trade; repair of motor vehicles and motorcycles on the quarter. Although within this, retail trade declined over this period, with retailers telling us that consumers are cutting back on spending because of increased prices and affordability concerns. For more information, see our [Retail sales, Great Britain: December 2022 bulletin](#).

Figure 3: Administration and support service activities were the main positive contributors to services output growth in Quarter 4 2022, offset by falls in education and transportation and storage

UK, contributions to services growth, Quarter 3 (July to Sept) to Quarter 4 (Oct to Dec) 2022

Figure 3: Administration and support service activities were the main positive contributors to services output growth in Quarter 4 2022, offset by falls in education and transportation and storage

UK, contributions to services growth, Quarter 3 (July to Sept) to Quarter 4 (Oct to Dec) 2022



Source: Office for National Statistics – GDP first quarterly estimate

Notes:

1. Chart shows contribution to services growth between 2022 Q2 (Apr to June) to 2022 Q3 (July to Sept) and 2022 Q3 to 2022 Q4 (Oct to Dec) 2022.
2. Components contribution may not sum to total because of rounding.

Production

Production output fell by 0.2% in Quarter 4 2022, which is the sixth consecutive quarter of contraction. Overall, the production sector saw a 3.6% decline in 2022.

The fall in production output in the latest quarter was driven by declines in electricity, gas, steam and air conditioning supply (1.3%) and mining and quarrying (1.6%). The declines in electricity, gas, steam and air conditioning supply in the latest quarter continue the falling trend from the previous quarter. This mostly reflects falls in energy volumes, as shown in the [energy trends data produced by Department for Energy Security and Net Zero \(DESNZ\)](#), which might reflect changes in business and consumer behaviour in response to higher energy prices.

The manufacturing sector was broadly flat in the fourth quarter (Figure 4). There were declines in 10 out of the 13 sub-sectors, with the largest negative contributions from the manufactures of chemicals and chemical products; and basic metals and metal products.

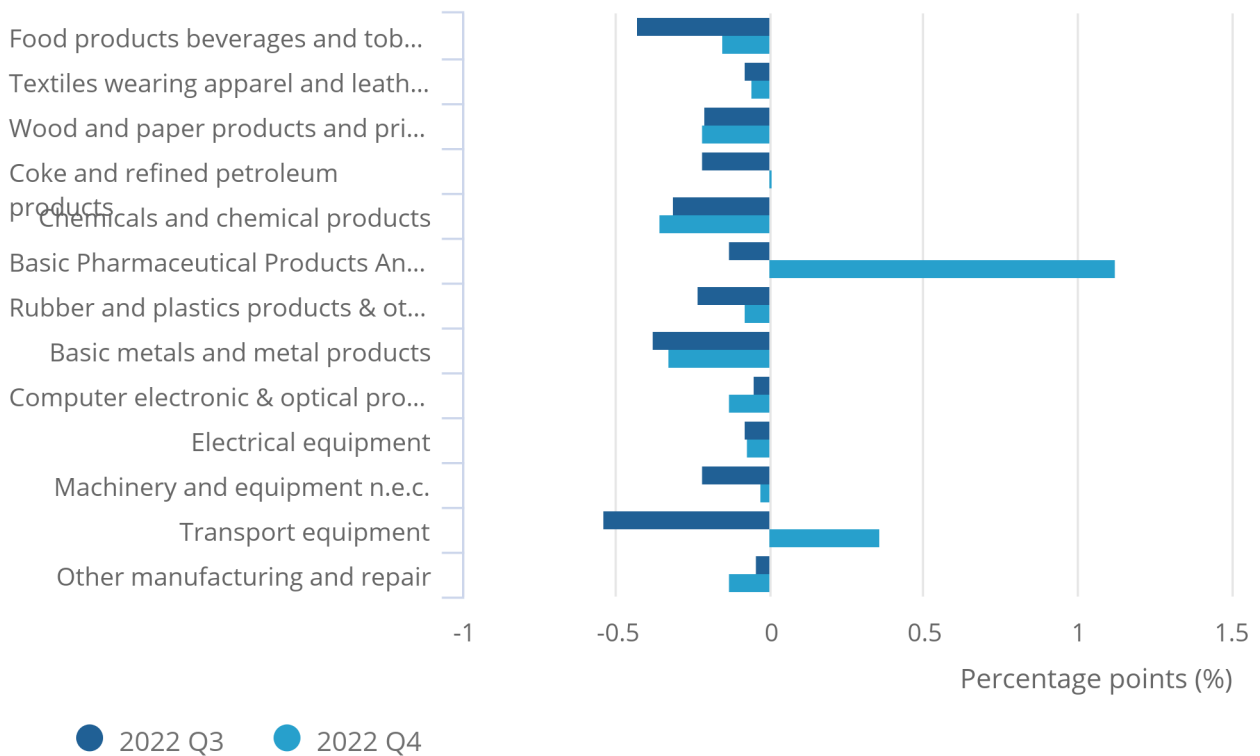
These falls were offset by increases in the manufacture of basic pharmaceutical products and pharmaceutical preparations, and the manufacture of transport equipment.

Figure 4: Manufacturing was flat in Quarter 4 2022 with falls in 10 of its 13 sub-sectors

UK, contributions to manufacturing growth, Quarter 3 (July to Sept) to Quarter 4 (Oct to Dec) 2022

Figure 4: Manufacturing was flat in Quarter 4 2022 with falls in 10 of its 13 sub-sectors

UK, contributions to manufacturing growth, Quarter 3 (July to Sept) to Quarter 4 (Oct to Dec) 2022



Source: Office for National Statistics – GDP first quarterly estimate

Notes:

1. Chart shows contribution to manufacturing growth between 2022 Q2 (Apr to June) to 2022 Q3 (July to Sept) and 2022 Q3 to 2022 Q4 (Oct to Dec) 2022.
2. Components contribution may not sum to total because of rounding.

Construction

Construction output rose by 0.3% in Quarter 4 2022, a slowing from the first half of this year. The main positive contributions in Quarter 4 2022 came from infrastructure, which grew 6.5%. This is the first positive quarterly growth in infrastructure since Quarter 3 (July to Sept) 2021 and the strongest since Quarter 2 (Apr to June) 2021 (6.5%).

The main negative contributions in Quarter 4 2022 came from private housing (both new work and R&M) as both saw quarterly falls of 3.2% and 3.5%, respectively. In private housing R&M, this is the first quarterly fall since Quarter 2 2022 and may reflect the cost of living challenges and the lack of demand and funds in this area. Further detail on construction growth rates can be found in our [Construction output in Great Britain: December 2022, new orders and Construction Output Price Indices, October to December 2022](#).

4 . Expenditure

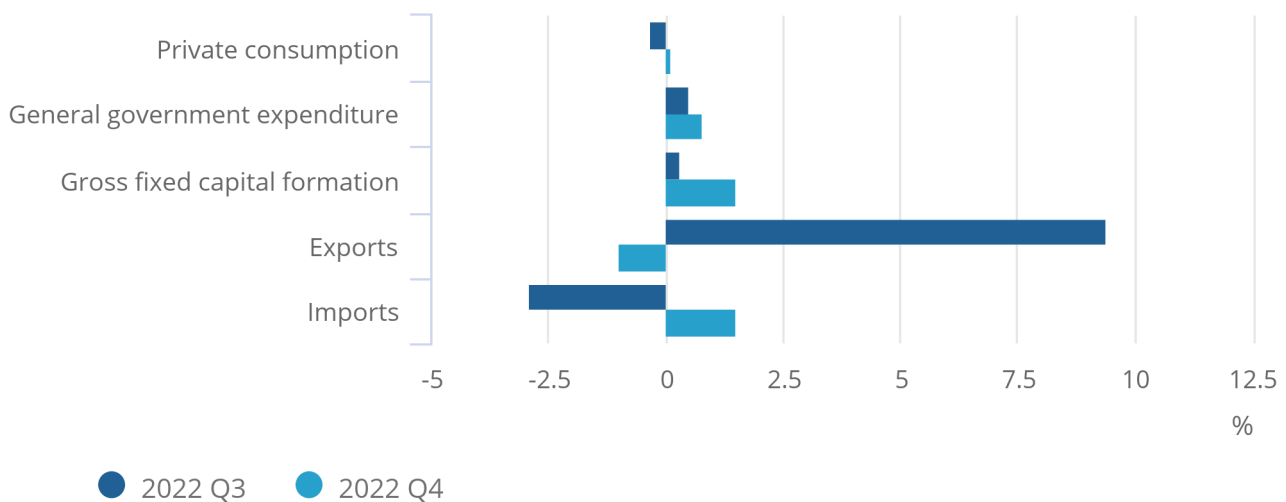
There was a modest increase of 0.1% in private consumption in Quarter 4 (Oct to Dec) 2022, while there was also higher business and government investment on the quarter (Figure 5). However, early estimates show that businesses were de-stocking their levels of inventories in the final quarter of the year, while there was a decline in the volume of net trade in Quarter 4 2022 with a fall in exports.

Figure 5: Increases in private consumption, government expenditure and investment were offset by falls in net trade in Quarter 4 2022

UK, Breakdown of expenditure components quarter on quarter growth, Quarter 3 (July to Sept) to Quarter 4 (Oct to Dec) 2022

Figure 5: Increases in private consumption, government expenditure and investment were offset by falls in net trade in Quarter 4 2022

UK, Breakdown of expenditure components quarter on quarter growth, Quarter 3 (July to Sept) to Quarter 4 (Oct to Dec) 2022



Source: Office for National Statistics – GDP first quarterly estimate

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. Private consumption is household final consumption expenditure and non-profit institutions serving households.
3. The chart for presentation purposes excludes acquisitions less disposable of assets and changes in inventories.

Private consumption

Within private consumption, there was a modest increase in real household expenditure of 0.1% in Quarter 4 2022, following a 0.4% contraction in the previous quarter, as real household incomes have been squeezed by higher inflation over the second half of 2022.

There were continued declines in household goods and services, food and non-alcoholic drink, and recreation and culture. In current price terms, household expenditure rose by 1.3% on the quarter, as recent inflationary pressures increased the nominal value of this spending. The implied price of household expenditure increased by 9.1% when compared with Quarter 4 2021.

Consumption of government goods and services

Real government consumption expenditure increased by 0.8% in Quarter 4 2022, including a pickup in health volumes overall on the quarter. This reflected an increase in the volume of spending on public administration and defence and health. The health volumes increase reflected some effects of higher number of coronavirus (COVID-19) vaccinations, including the effects of the autumn booster campaign. However, there was a fall in December 2022, including a large fall in GP services and a second consecutive fall in the NHS Test and Trace and vaccine programmes.

There was also a fall in education volumes in the final quarter of the year, reflecting lower attendance throughout the quarter, particularly in December, which saw a significant drop in attendance levels in the run-up to Christmas.

Gross capital formation

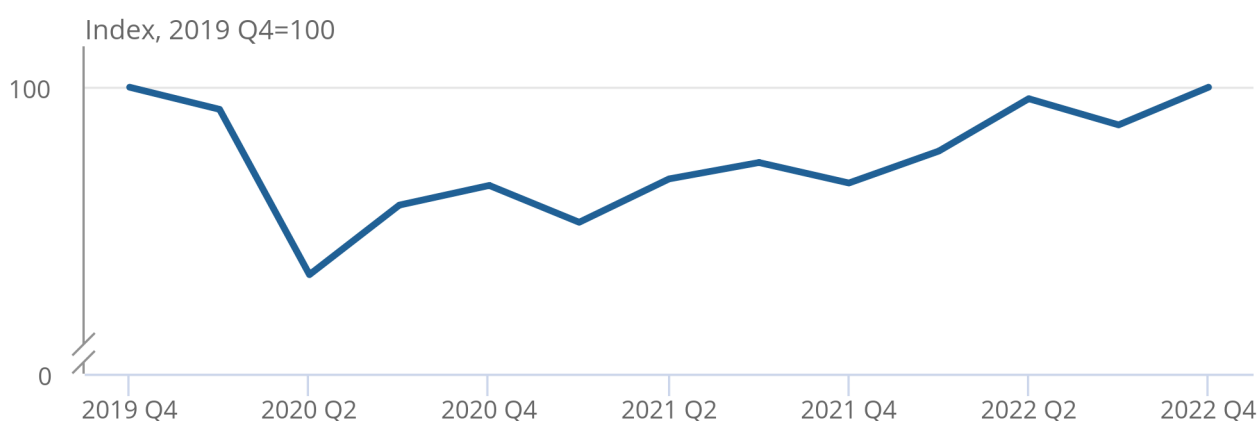
There was a pickup in gross fixed capital formation (GFCF), which increased by 1.5% in Quarter 4 2022. This reflected increases in business and government investment on the quarter, partially offset by a fall in dwellings investment. The 4.8% increase in business investment on the quarter leaves it now equal to its pre-coronavirus pandemic level (Figure 6). There was a fall in the implied price of business investment on the quarter, pointing to some softening in these price pressures.

Figure 6: Business Investment increased by 4.8% in Quarter 4 2022

Quarter 1 (Jan to Mar) 2019 to Quarter 4 (Oct to Dec) 2022

Figure 6: Business Investment increased by 4.8% in Quarter 4 2022

Quarter 1 (Jan to Mar) 2019 to Quarter 4 (Oct to Dec) 2022



Source: Office for National Statistics – GDP first quarterly estimate

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. Index of referenced to Quarter 4 2019.

Note that balancing and alignment adjustments are typically applied to the inventories component to help balance the expenditure approach to average gross domestic product (GDP). 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. For Quarter 4 2022, the alignment adjustment is larger than normal (Table 2). This is a result of challenges in balancing GDP, more detail can be found in [Section 10: Measuring the data](#).

Excluding the alignment and balancing adjustments, early estimates show that inventories fell by £6.9 billion (Table 2). The fall in inventories was driven by reductions particularly for retail and manufacturing industries. Anecdotal evidence shows that the retail sector showed reductions in stock because of reported lower demand resulting from cost of living pressures on disposable incomes. For manufacturing industries, these were impacted by a lack of availability in raw materials.

Table 2: Change in inventories, including and excluding balancing and alignment adjustments UK, Quarter 1 (Jan to Mar) to Quarter 4 (Oct to Dec) 2022

		Change in Inventories	Of which alignment	Of which balancing	Change in inventories excluding alignment and balancing
2022 Q1	Current price	12407	-1908	500	13815
2022 Q1	Chained volume measure	8850	-1721	500	10071
2022 Q2	Current price	9968	-1569	1500	10037
2022 Q2	Chained volume measure	4085	-1376	1500	3961
2022 Q3	Current price	2359	-3267		5626
2022 Q3	Chained volume measure	-4631	-2862		-1769
2022 Q4	Current price	6922	6744	2500	-2322
2022 Q4	Chained volume measure	1484	5959	2500	-6975

Source: Office for National Statistics – GDP first quarterly estimate

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 departure from the EU has impacted the way trade in goods is recorded. In January 2021, data collection for goods exports from Great Britain to the EU moved from the Intrastat survey to customs declarations. That was followed a year later (January 2022) by a move from Intrastat to customs declarations for imports of goods from the EU to Great Britain. The Office for National Statistics (ONS) communicated that both moves impacted the trade statistics time series and we recently applied adjustments to imports of goods from the EU in 2021, to bring imports and exports on a like-for-like basis for that year. We are currently looking closely at whether further adjustments can be made to the back series to create a consistent historical series. For more information, see our [Impact of trade in goods data collection changes on UK trade statistics: 2020 to 2022 article](#), and our [Impact of trade in goods data collection changes on UK trade statistics: adjustments to 2021 EU imports estimates article](#).

In addition, when the requirement for customs declaration was introduced for imports of goods to Great Britain from the EU in January 2022, a new policy of Staged Customs Controls was implemented. This allowed importers to delay their customs declarations up to 175 days from the date the goods entered the country in 2021. It is possible that some double counting occurred, with imports in the second half of 2021 recorded by the Intrastat Survey, then some appearing again on customs declarations in the first half of 2022. The ONS is working closely with HM Revenue and Customs, analysing trends at product level to understand what adjustments to 2022 imports estimates may be needed. Our [Trading places: How we are producing consistent estimates of trade figures following the UK's EU exit blog](#), published today, gives some more detail.

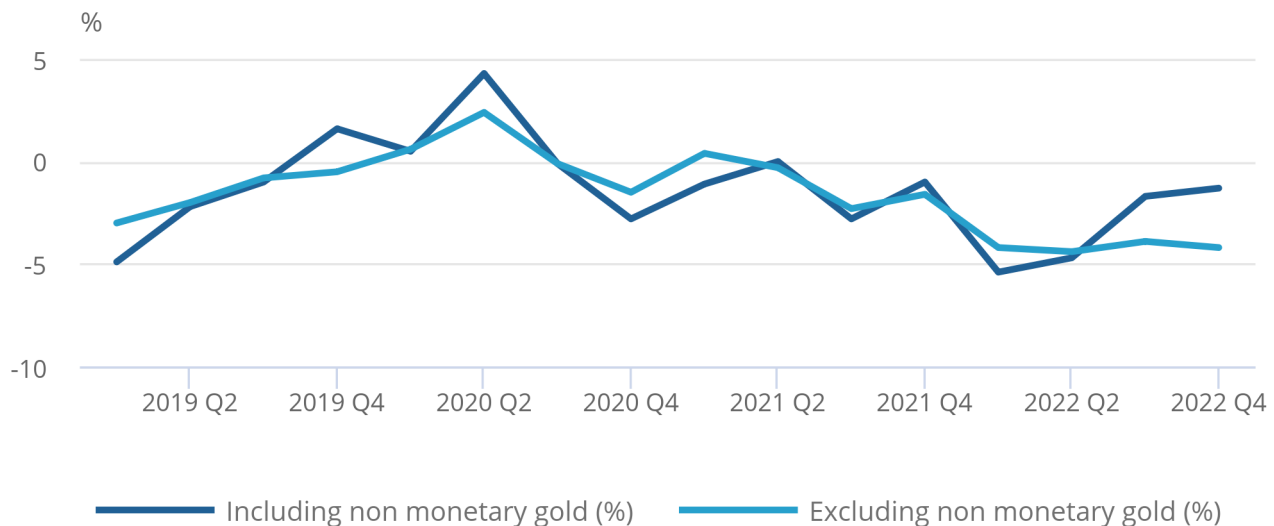
The UK's trade deficit for goods and services improved to 1.3% of nominal GDP in Quarter 4 2022 (Figure 7). However, there have been large movements in non-monetary gold over the last quarter, which can be volatile. Excluding non-monetary gold, the trade deficit was 4.2% of nominal GDP in Quarter 4 2022.

Figure 7: Excluding non-monetary gold, the UK had a trade deficit of 4.2% of nominal GDP in Quarter 4 2022

UK, Trade balance as a percentage of nominal GDP, Quarter 1 (Jan to Mar) 2019 to Quarter 4 (Oct to Dec) 2022

Figure 7: Excluding non-monetary gold, the UK had a trade deficit of 4.2% of nominal GDP in Quarter 4 2022

UK, Trade balance as a percentage of nominal GDP, Quarter 1 (Jan to Mar) 2019 to Quarter 4 (Oct to Dec) 2022



Source: Office for National Statistics – GDP first quarterly estimate

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 1.0% in the latest quarter, driven by a fall of 3.1% in services exports. The fall in services exports was driven mainly by Other Business Services, with Insurance & Pension Services, Financial Services, and Intellectual property all also contributing to the decrease. Elsewhere goods exports increased by 0.9% in Quarter 4 2022, though much of this was driven by increases in unspecified goods because of non-monetary gold. Import volumes increased by 1.5% in the latest quarter, driven by a 2.5% increase in goods imports driven mainly by machinery and transport equipment and chemicals.

5 . Income

Nominal gross domestic product (GDP) rose by 1.3% in Quarter 4 (Oct to Dec) 2022, and increased by 7.0% relative to the same quarter last year. The quarterly rise was driven by growth in gross operating surplus and compensation of employees, while taxes less subsidies detracted from growth (Figure 8).

Figure 8: Nominal GDP increased by 1.3% in Quarter 4 (Oct to Dec) 2022

UK, Quarter 1 (Jan to Mar) 2021 to Quarter 4 (Oct to Dec) 2022

Figure 8: Nominal GDP increased by 1.3% in Quarter 4 (Oct to Dec) 2022

UK, Quarter 1 (Jan to Mar) 2021 to Quarter 4 (Oct to Dec) 2022



Source: Office for National Statistics – GDP first quarterly estimate

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. Please note, the alignment adjustment is included in the Gross Operating Surplus of nominal GDP.
3. Components contribution may not sum to total because of rounding.

Compensation of employees increased by 1.1% in Quarter 4 2022, driven by a rise in wages and salaries of 1.7% and partially offset by a fall of 2.0% in employers' social contributions.

Early estimates show that taxes less subsidies fell by 22.5% in Quarter 4 2022, driven by a large increase in subsidies because of the energy price guarantee scheme and the energy bill relief scheme. In October 2022, the Office for National Statistics (ONS) announced that the Energy Price Guarantee scheme 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](#). The equivalent support scheme for businesses and non-domestic customers was announced as the Energy Bill Relief Scheme. This scheme will provide a discount on gas and electricity unit prices and the UK government will compensate the suppliers for this reduction. In October 2022, the ONS announced that the scheme had also 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 Bill Relief Scheme classification](#). This quarter's figure is an initial indicative estimate, which will be revised over the coming months as firmer data become available.

Total gross operating surplus (GOS) of corporations increased by 15.2% in Quarter 4 2022. However, excluding the [alignment adjustment](#), corporations' GOS increased by 6.2% (Table 3), reflecting the energy price guarantees schemes. However, data content for this component is low at this stage in the GDP publication model, for more information see our [Introducing a new publication model for GDP article](#). This is reflected in the larger than normal Quarter 4 2022 alignment adjustment (Table 2), as well as challenges in balancing GDP. More detail can be found in [Section 10: Measuring the data](#).

Table 3: Gross operating surplus of corporations, including and excluding alignment adjustments
UK, Quarter 1 (Jan to Mar) to Quarter 4 (Oct to Dec) 2022

	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
2022 Q1	128766	-4244	133010		4.9
2022 Q2	132263	-2110	134373		1.0
2022 Q3	133752	-2744	136496		1.6
2022 Q4	154087	9098	144989		6.2

Source: Office for National Statistics – GDP first quarterly estimate

Notes

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

6 . Revisions to GDP

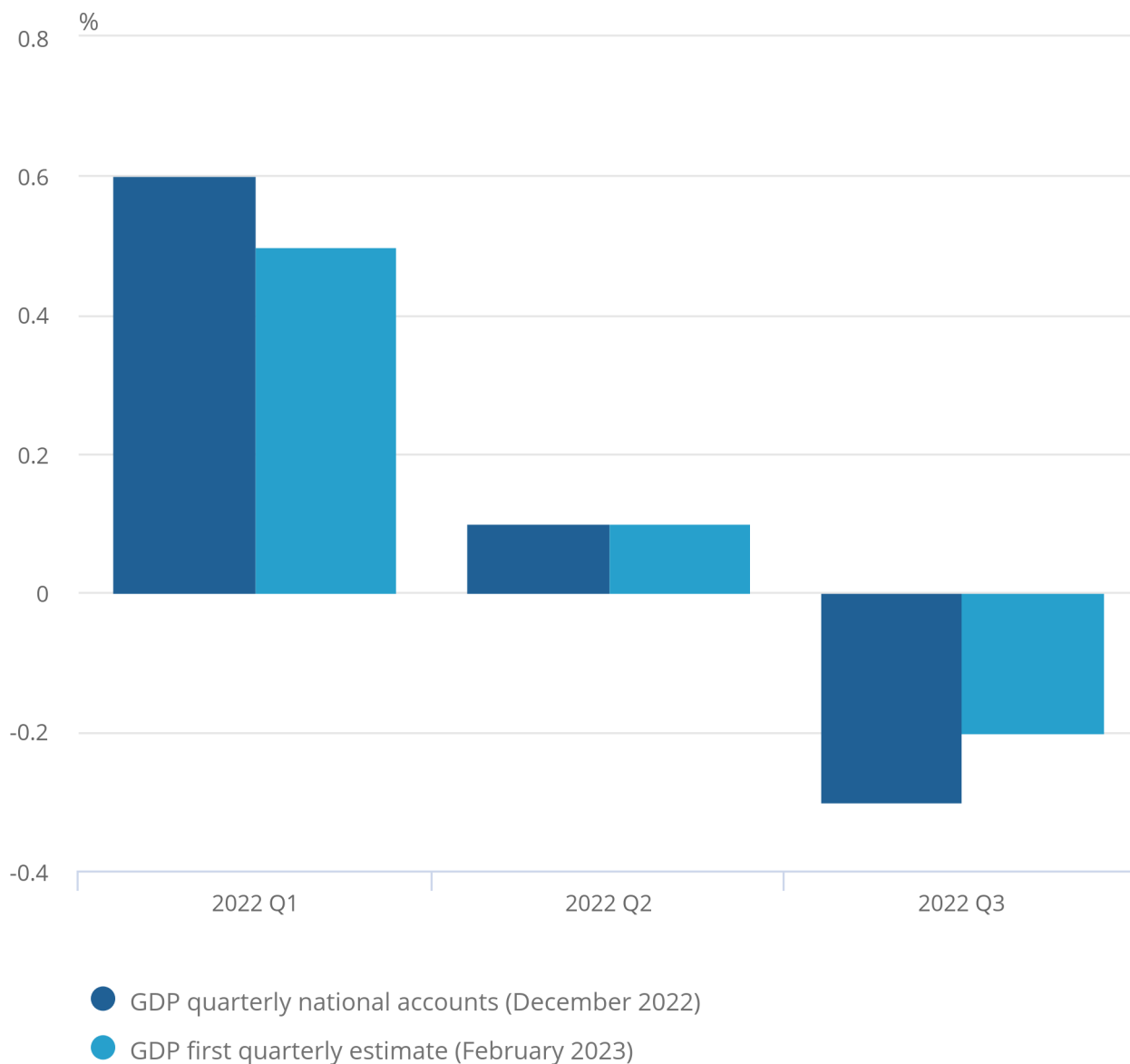
In line with the [National Accounts Revisions Policy](#), the dataset is open to revision back to Quarter 1 (Jan to Mar) 2022 as part of this publication. The revised estimates of average real gross domestic product (GDP) compared with the first estimate are shown in Figure 9.

Figure 9: There have been minimal revisions to previous estimates of the change in real GDP since Quarter 1 2022

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

Figure 9: There have been minimal revisions to previous estimates of the change in real GDP since Quarter 1 2022

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



Source: Office for National Statistics – GDP first quarterly estimate

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 4. The release includes the processing of annual data for 2022. In addition, there are also revisions in this release because of the replacement of forecasts with actual survey or external source data and new seasonal adjustment factors.

Table 4: Revisions to quarter-on-quarter growth for components of GDP
 Quarter 1 (Jan to Mar) 2022 to Quarter 3 (July to Sept) 2022

	Percentage points		
	2022 Q1	2022 Q2	2022 Q3
Average GDP in chained volume measures	-0.1	0.0	0.1
Output			
Production	0.2	0.1	-0.1
Construction	-0.1	0.4	0.5
Services	-0.1	0.2	0.1
Expenditure			
Households	0.2	-0.5	0.7
Non-profit institutions serving households	1.4	-0.4	0.0
General government	0.2	-0.1	0.0
Gross fixed capital formation	1.6	1.1	-0.8
Total exports	-1.6	1.4	0.5
Total imports	-0.2	0.1	0.7
Average GDP in current prices	-0.1	0.2	0.0
Income			
Compensation of employees	0.0	0.0	0.0
Gross operating surplus of corporations	-1.3	1.3	-0.5
Other income	0.4	0.0	-0.1
Taxes on products & production less subsidies	0.7	-0.4	0.9

Source: Office for National Statistics – GDP first quarterly estimate

Notes

1. Q1 refers to Quarter 1 (Jan to Mar) Q2 refers to Quarter 2 (Apr to June) Q3 refers to Quarter 3 (July to Sept) and Q4 refers to Quarter 4 (Oct to Dec).
2. Revisions are between the GDP quarterly national accounts published 22 December 2022 and first quarterly estimate published 10 February 2023.

7 . International comparisons

Table 5: Real GDP growth for the G7 economies

Percentage change, quarter on quarter and annual growth, real gross domestic product (GDP) for 2021 and 2022

Country	Quarter on previous quarter (%)				Quarter on quarter growth (%), 2022 Q4 compared to prepandemic 2019 Q4	Annual growth (%)	
	2022 Q1	2022 Q2	2022 Q3	2022 Q4		2021	2022
Canada	0.7	0.8	0.7	0.4	3.5	5.0	3.6
France	-0.2	0.5	0.2	0.1	1.2	6.8	2.6
Germany	0.8	0.1	0.5	-0.2	0.2	2.6	1.9
Italy	0.1	1.1	0.5	-0.1	1.8	6.7	3.9
Japan	-0.5	1.1	-0.2	.	.	2.1	.
UK	0.5	0.1	-0.2	0.0	-0.8	7.6	4.0
United States	-0.4	-0.1	0.8	0.7	5.1	5.9	2.1

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

Notes

1. Q1 refers to Quarter 1 (Jan to Mar) Q2 refers to Quarter 2 (Apr to June) Q3 refers to Quarter 3 (July to Sept) and Q4 refers to Quarter 4 (Oct to Dec).
2. The Group of Seven (G7) is an intergovernmental organisation, which consists of the US, UK, France, Germany, Italy, Canada and Japan.
3. Data as of 6 February 2023. Quarter 4 2022 GDP estimates for Japan are not yet available.
4. Recent analysis highlights the challenges of making international comparisons of GDP at this time.

8 . GDP first quarterly estimate data

[GDP - data tables](#)

Dataset | Released 10 February 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 10 February 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 10 February 2023

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

9 . Glossary

Contribution to growth

Contribution to growth indicates how many percentage points a sector or industry is adding or removing from a given growth rate, usually headline gross domestic product (GDP) growth.

Chained volume measure

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

Gross domestic product (GDP)

A measure of the economic activity produced by a country or region. Gross domestic product (GDP) growth is the main indicator of economic performance. There are three approaches used to measure GDP:

- the output approach
- the expenditure approach
- the income approach

Index numbers

Data relative to a given base value, which typically refers to a particular year or quarter.

For further definitions, please see the [Glossary of economic terms](#).

10 . Measuring the data

Reaching the gross domestic product (GDP) balance

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

Because of quarterly GDP being a balanced measure of the three approaches and the output approach focusing solely on growth in gross value added (GVA) and output as a proxy for GDP, there is a difference in data (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 the [GDP first quarterly estimate data tables](#), have a target limit of plus or minus £3,000 million on any quarter. However, in periods where the data sources are particularly difficult to balance, larger alignment adjustments are sometimes needed as explained in our [recent 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 that change in GDP, and where the data content is at its lowest.

In this quarter, the alignment adjustment, used to align expenditure and income to average GDP, is larger than normal (Table 2 and Table 3). This approach preserves the component-level movements and shows the level of challenge and uncertainty currently within the expenditure approach to GDP. Work will continue with a focus on the expenditure and income approaches to GDP, and we will continue to review this over the coming months as and when more information becomes available.

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 6. The resulting series should be considered accordingly.

Table 6: Balancing adjustments applied to the GDP first quarterly estimate dataset
Quarter 1 (Jan to March) to Quarter 4 (Oct to Dec) 2022

GDP measurement approach and component adjustment applied to		Q1 2022	Q2 2022	Q3 2022	Q4 2022
Expenditure					
Trade in services	Current prices	700	2500	2000	3500
	Chained volume measure	1200	3500	3500	3500
Gross fixed capital formation	Current prices	500			
	Chained volume measure		1000		
Inventories	Current prices	500	1500		2500
	Chained volume measure	500	1500		2500
Income					
Gross operating surplus of corporations	Current prices				2500

Source: Office for National Statistics – GDP first quarterly estimate

Notes

1. Adjustments are in £ million.

11 . Strengths and limitations

The UK National Accounts are drawn together using data from many different sources. This ensures that they are comprehensive and provide different perspectives on the economy, for example, sales by retailers and purchases by households. Further information on measuring gross domestic product (GDP) can be found in the [Guide to the UK National Accounts](#) and more quality and methodology information 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 \(GDP\) Quality and Methodology Information](#) analyses the mean average revision and the mean absolute revision for GDP estimates over data publication iterations.

GDP estimates for 2022 are subject to [more uncertainty than usual](#) as a result of the challenges we faced estimating GDP in the current conditions. Differences in the methods for estimating the output of health and education services across different countries mean GDP may be less internationally comparable during the coronavirus (COVID-19) pandemic and recovery than usual, so should be made with increased caution. For more information, please refer to [our blog, Why has UK GDP fallen so sharply in the pandemic?](#)

12 . Related links

[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.

[GDP monthly estimates, UK: December 2022](#)

Bulletin | Released 10 February 2023

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

[Construction output in Great Britain: December 2022](#)

Bulletin | Released 10 February 2023

Short-term measures of output by the construction industry in Great Britain and contracts awarded for new construction work in Great Britain.

[Index of Production, UK: December 2022](#)

Bulletin | Released 10 February 2023

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

[Index of Services, UK: December 2022](#)

Bulletin | Released 10 February 2023

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

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

Article | Released 11 November 2021

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

[International comparisons of GDP during the coronavirus \(COVID-19\) pandemic](#)

Article | Released 1 February 2021

The coronavirus (COVID-19) pandemic has led to record declines in gross domestic product (GDP) in advanced economies in 2020. International comparisons show that the UK has experienced the largest contraction in volume GDP amongst the G7 countries. However, international comparisons have also been complicated by how National Statistical Institutes (NSIs) record non-market output.

[Communicating the UK economic cycle](#)

Article | Released 11 November 2022

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

13 . Cite this statistical bulletin

Office for National Statistics (ONS), released 10 February 2023, ONS website, statistical bulletin, [GDP first quarterly estimate, UK: October to December 2022](#)

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	Market sector gross value added	Gross national expenditure	Gross domestic product at market prices	Gross value added at basic prices
	YBEU	YBEX	YBEZ	CGCE	L48H	YBFV	YBGB	CGBV
2020	94.2	95.2	89.0	89.4	90.3	105.4	105.9	106.4
2021	101.4	101.7	95.7	96.5	96.4	105.9	106.0	105.4
2022	110.9	111.6	99.6	100.4	99.9	112.9	111.3	111.2
Seasonally adjusted								
2020 Q3	95.5	96.7	90.0	90.5	91.9	105.4	106.1	106.8
Q4	96.4	96.9	91.1	91.8	92.7	105.2	105.9	105.6
2021 Q1	96.1	97.0	90.1	90.8	92.0	106.4	106.7	106.8
Q2	100.5	100.8	96.0	96.8	96.5	104.3	104.7	104.2
Q3	103.2	103.2	97.7	98.4	98.0	105.6	105.6	104.8
Q4	105.9	105.7	99.1	99.9	99.1	107.3	106.8	105.8
2022 Q1	108.2	108.0	99.6	100.4	100.2	109.9	108.6	107.6
Q2	110.1	109.9	99.7	100.4	100.3	111.9	110.5	109.4
Q3	111.9	111.6	99.5	100.3	99.5	114.9	112.4	111.3
Q4	113.3	116.7	99.5	100.4	99.5	115.0	113.9	116.3
Percentage change, latest year on previous year								
	IHYM	KGL6	IHYP	KGM7	L489	KH7D	IHYS	KGM4
2020	-5.8	-4.8	-11.0	-10.6	-9.7	5.4	5.9	6.4
2021	7.6	6.8	7.6	7.9	6.8	0.5	-	-1.0
2022	9.3	9.7	4.0	4.0	3.6	6.6	5.1	5.5
Percentage change, latest quarter on previous quarter								
	IHYN	KGL8	IHYQ	KGM9		KH7E	IHYT	KGM5
2020 Q3	12.3	11.6	16.6	16.8	18.1	-4.4	-3.7	-4.4
Q4	1.0	0.3	1.2	1.4	0.9	-0.2	-0.2	-1.1
2021 Q1	-0.3	0.1	-1.1	-1.0	-0.8	1.1	0.7	1.1
Q2	4.5	3.9	6.5	6.6	4.9	-2.0	-1.9	-2.5
Q3	2.7	2.3	1.7	1.7	1.5	1.3	0.9	0.6
Q4	2.7	2.4	1.5	1.5	1.1	1.6	1.1	0.9
2022 Q1	2.2	2.2	0.5	0.4	1.2	2.4	1.7	1.8
Q2	1.8	1.8	0.1	0.1	0.1	1.8	1.7	1.7
Q3	1.6	1.5	-0.2	-0.2	-0.8	2.7	1.8	1.7
Q4	1.3	4.5	-	0.1	-	0.1	1.3	4.4
Percentage change, latest quarter on corresponding quarter of previous year								
	IHYO	KGM2	IHYR	KGN3	L48D	KH7F	IHYU	KGM6
2020 Q3	-5.2	-3.9	-10.3	-9.9	-8.7	4.9	5.8	6.6
Q4	-4.9	-4.6	-9.2	-8.6	-8.2	4.3	4.7	4.4
2021 Q1	-3.9	-3.5	-7.7	-7.4	-6.9	4.4	4.1	4.2
Q2	18.2	16.4	24.4	24.9	24.1	-5.4	-5.0	-6.8
Q3	8.1	6.7	8.5	8.8	6.7	0.2	-0.4	-1.9
Q4	9.8	9.0	8.9	8.9	6.9	2.0	0.9	0.1
2022 Q1	12.6	11.4	10.5	10.5	9.0	3.3	1.8	0.7
Q2	9.6	9.0	3.9	3.8	4.0	7.3	5.5	5.1
Q3	8.4	8.2	1.9	1.9	1.6	8.7	6.4	6.2
Q4	7.0	10.4	0.4	0.4	0.5	7.1	6.6	9.9

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

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

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

A2 National accounts aggregates¹

£ million

	Current prices			Chained volume measures (Reference year 2019)			
	Gross domestic product at market prices	less Basic price adjustment ²	Gross value added at basic prices	Gross domestic product at market prices	less Basic price adjustment ²	Gross value added at basic prices	Gross value added excluding oil & gas
	YBHA	NTAP	ABML	ABMI	NTAO	ABMM	KLS2
2020	2 109 594	206 019	1 903 575	1 991 439	202 705	1 788 734	1 771 171
2021	2 270 246	236 575	2 033 671	2 142 738	212 770	1 929 968	1 915 083
2022	2 482 127	250 552	2 231 575	2 229 421	221 979	2 007 442	1 992 290
Seasonally adjusted							
2020 Q3	534 171	50 796	483 375	503 509	51 043	452 466	448 122
Q4	539 666	54 995	484 671	509 621	50 803	458 818	454 545
2021 Q1	537 907	52 802	485 105	504 255	50 196	454 059	450 063
Q2	562 248	58 107	504 141	537 175	53 276	483 899	480 839
Q3	577 356	61 418	515 938	546 487	54 222	492 265	488 268
Q4	592 735	64 248	528 487	554 821	55 076	499 745	495 913
2022 Q1	605 541	65 332	540 209	557 361	55 474	501 887	497 996
Q2	616 257	66 519	549 738	557 938	55 659	502 279	498 473
Q3	626 083	67 840	558 243	557 023	55 551	501 472	497 733
Q4	634 246	50 861	583 385	557 099	55 295	501 804	498 088
Percentage change, latest year on previous year							
	IHYM		KGL6	IHYP		KGM7	KLH8
2020	-5.8		-4.8	-11.0		-10.6	-10.6
2021	7.6		6.8	7.6		7.9	8.1
2022	9.3		9.7	4.0		4.0	4.0
Percentage change, latest quarter on previous quarter							
	IHYN		KGL8	IHYQ		KGM9	
2020 Q3	12.3		11.6	16.6		16.8	17.1
Q4	1.0		0.3	1.2		1.4	1.4
2021 Q1	-0.3		0.1	-1.1		-1.0	-1.0
Q2	4.5		3.9	6.5		6.6	6.8
Q3	2.7		2.3	1.7		1.7	1.5
Q4	2.7		2.4	1.5		1.5	1.6
2022 Q1	2.2		2.2	0.5		0.4	0.4
Q2	1.8		1.8	0.1		0.1	0.1
Q3	1.6		1.5	-0.2		-0.2	-0.1
Q4	1.3		4.5	-		0.1	0.1
Percentage change, latest quarter on corresponding quarter of previous year							
	IHYO		KGM2	IHYR		KGN3	KLH9
2020 Q3	-5.2		-3.9	-10.3		-9.9	-10.0
Q4	-4.9		-4.6	-9.2		-8.6	-8.7
2021 Q1	-3.9		-3.5	-7.7		-7.4	-7.4
Q2	18.2		16.4	24.4		24.9	25.6
Q3	8.1		6.7	8.5		8.8	9.0
Q4	9.8		9.0	8.9		8.9	9.1
2022 Q1	12.6		11.4	10.5		10.5	10.7
Q2	9.6		9.0	3.9		3.8	3.7
Q3	8.4		8.2	1.9		1.9	1.9
Q4	7.0		10.4	0.4		0.4	0.4

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

2 Taxes on products less subsidies.

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

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

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	Constru-tion ⁵	Distri-bution, hotels & restaura-nts	Trans-port storage and commu-nications	Business services and finance	Govern-ment and other services	Total		Gross value added ⁴
2019 Weights³	7	11	97	15	12	135	62	134	103	338	220	796	1000	991
	L2KL	L2KR	L2KX	L2MW	L2N2	L2KQ	L2N8	L2PZ	KI8M	KI8O	KI8Q	L2NC	CGCE	KLH7
2020	96.5	96.8	100.1	109.1	104.8	101.3	86.5	76.7	87.5	96.8	80.2	87.6	89.4	89.4
2021	102.1	85.5	109.8	114.6	112.9	108.6	97.8	83.4	94.0	101.5	88.4	93.7	96.5	96.6
2022	105.7	86.8	104.6	110.6	115.1	104.7	103.3	88.0	102.9	104.8	94.9	98.9	100.4	100.5
Seasonally adjusted														
2020 Q3	95.9	96.4	104.2	113.7	106.1	104.8	89.9	83.7	87.8	95.7	79.1	88.1	90.5	90.4
Q4	96.4	94.6	110.3	111.7	108.5	109.0	94.5	76.0	89.8	97.7	81.6	88.6	91.8	91.7
2021 Q1	98.5	90.0	109.5	117.5	111.4	109.0	95.5	70.1	89.7	99.7	77.1	87.1	90.8	90.8
Q2	100.7	73.1	111.0	122.7	112.0	109.3	99.2	85.5	93.0	100.9	88.5	93.8	96.8	97.0
Q3	104.4	90.9	110.0	111.1	113.0	108.8	97.6	89.7	94.9	101.8	92.0	96.0	98.4	98.5
Q4	104.7	87.8	108.6	107.2	115.2	107.4	99.0	88.0	98.3	103.5	96.0	98.0	99.9	100.1
2022 Q1	105.3	89.5	107.2	111.6	116.3	107.1	102.0	87.9	102.1	104.0	95.2	98.5	100.4	100.5
Q2	106.0	87.1	105.7	111.8	116.2	105.8	103.4	88.4	102.8	104.8	94.5	98.9	100.4	100.6
Q3	106.0	86.0	102.7	110.1	113.6	103.1	103.8	87.8	103.8	104.9	95.0	99.1	100.3	100.5
Q4	105.4	84.6	102.6	108.7	114.4	102.9	104.1	87.9	102.8	105.4	94.8	99.2	100.4	100.5
Percentage change, latest year on previous year														
	L3BB	L3BH	L3BN	L3DM	L3DQ	L3BG	L3DW	L3GP	KI8L	KI8N	KI8P	L3E2	KGM7	KLH8
2020	-3.5	-3.2	0.1	9.1	4.8	1.2	-13.5	-23.3	-12.5	-3.2	-19.8	-12.4	-10.6	-10.6
2021	5.8	-11.7	9.7	5.1	7.8	7.3	13.1	8.7	7.4	4.8	10.3	7.0	7.9	8.1
2022	3.5	1.6	-4.8	-3.5	2.0	-3.6	5.6	5.6	9.5	3.3	7.3	5.5	4.0	4.0
Percentage change, latest quarter on previous quarter														
													KGM9	
2020 Q3	5.2	-2.9	24.3	9.8	6.1	18.1	41.9	47.4	14.3	3.3	24.4	15.0	16.8	17.1
Q4	0.5	-1.8	5.9	-1.8	2.3	4.1	5.1	-9.2	2.3	2.0	3.2	0.6	1.4	1.4
2021 Q1	2.1	-4.9	-0.7	5.2	2.7	-	1.1	-7.8	-0.1	2.1	-5.5	-1.7	-1.0	-1.0
Q2	2.3	-18.8	1.3	4.4	0.5	0.3	3.8	22.0	3.7	1.2	14.8	7.7	6.6	6.8
Q3	3.7	24.4	-0.9	-9.5	0.9	-0.4	-1.6	4.9	2.0	0.9	3.9	2.4	1.7	1.5
Q4	0.2	-3.4	-1.3	-3.5	2.0	-1.4	1.4	-1.8	3.6	1.7	4.4	2.1	1.5	1.6
2022 Q1	0.6	1.9	-1.3	4.1	0.9	-0.3	3.0	-0.2	3.8	0.5	-0.8	0.5	0.4	0.4
Q2	0.7	-2.6	-1.4	0.2	-	-1.2	1.5	0.6	0.7	0.8	-0.8	0.4	0.1	0.1
Q3	-	-1.3	-2.9	-1.5	-2.3	-2.6	0.3	-0.7	0.9	0.1	0.5	0.2	-0.2	-0.1
Q4	-0.6	-1.6	-	-1.3	0.7	-0.2	0.3	0.1	-1.0	0.4	-0.1	-	0.1	0.1
Percentage change, latest quarter on corresponding quarter of previous year														
	L3ZZ	L427	L42D	L44C	L44G	L426	L44M	L47F	KII2	KIH9	KIH8	L44Q	KGN3	KLH9
2020 Q3	-5.8	-2.0	4.2	12.1	5.8	4.7	-10.4	-16.4	-12.6	-4.8	-21.3	-12.4	-9.9	-10.0
Q4	-6.8	0.4	9.0	1.0	8.3	7.3	-5.2	-22.4	-9.4	-3.2	-19.3	-11.7	-8.6	-8.7
2021 Q1	-4.1	-7.0	7.1	9.4	6.9	6.3	-2.6	-22.1	-6.1	-1.4	-20.0	-10.4	-7.4	-7.4
Q2	10.5	-26.4	32.4	18.5	11.9	23.3	56.5	50.5	21.1	8.9	39.4	22.5	24.9	25.6
Q3	8.9	-5.7	5.6	-2.3	6.4	3.9	8.5	7.1	8.1	6.3	16.3	9.1	8.8	9.0
Q4	8.6	-7.2	-1.5	-4.1	6.2	-1.5	4.7	15.8	9.5	6.0	17.7	10.7	8.9	9.1
2022 Q1	6.9	-0.6	-2.1	-5.0	4.4	-1.8	6.7	25.3	13.8	4.3	23.4	13.1	10.5	10.7
Q2	5.3	19.2	-4.7	-8.9	3.8	-3.2	4.3	3.4	10.5	3.9	6.7	5.4	3.8	3.7
Q3	1.5	-5.4	-6.7	-0.9	0.5	-5.3	6.3	-2.1	9.4	3.1	3.3	3.2	1.9	1.9
Q4	0.7	-3.6	-5.6	1.5	-0.7	-4.2	5.1	-0.1	4.6	1.8	-1.2	1.2	0.4	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 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.

5 Please note, as part of Blue Book 2021 double-deflated industry-level GVA was introduced for the first time. As a result, volume estimates in the monthly GDP and construction outputs releases will differ from 1997 to 2020 because the construction publication measures the volume of construction work (output), while the GDP series measures GVA (that is, output minus intermediate consumption). Construction GVA estimates from January 2021 will be informed by the construction output release but may not exactly align.

B2 Gross value added chained volume measures at basic prices, by category of output: Service industries^{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	104	103	30	82	132	124	49	60	77	34	796
	L2NE	K18M	L2NQ	L2O6	L2OC	L2OH	L2P8	L2PA	L2PC	L2Q5	L2NC
2020	81.6	87.5	59.9	100.3	100.0	91.1	95.2	82.5	69.1	79.5	87.6
2021	84.6	94.0	78.4	105.5	99.9	100.6	97.4	92.3	82.2	80.8	93.7
2022	82.4	102.9	107.1	104.8	99.5	110.4	101.1	98.5	89.6	90.5	98.9
Seasonally adjusted											
2020 Q3	85.2	87.8	78.6	99.8	99.7	88.8	93.8	89.5	60.5	81.2	88.1
Q4	82.2	89.8	54.8	101.5	100.0	92.8	93.2	95.7	63.4	81.0	88.6
2021 Q1	78.7	89.7	40.3	105.1	100.6	95.3	94.2	77.2	67.0	73.3	87.1
Q2	87.9	93.0	77.0	105.4	100.1	99.0	97.4	96.9	79.2	80.0	93.8
Q3	86.5	94.9	99.9	104.8	99.5	102.2	98.7	97.7	86.8	81.9	96.0
Q4	85.4	98.3	96.5	106.5	99.5	105.9	99.4	97.2	95.6	88.0	98.0
2022 Q1	83.4	102.1	103.1	105.0	99.3	108.3	100.4	97.4	91.8	90.3	98.5
Q2	82.4	102.8	108.6	105.1	99.5	110.3	100.6	98.3	88.4	91.6	98.9
Q3	81.7	103.8	108.4	104.8	99.6	110.8	101.5	99.9	88.6	90.6	99.1
Q4	82.1	102.8	108.2	104.1	99.6	112.3	101.9	98.3	89.5	89.6	99.2
Percentage change, latest year on previous year											
	L3E4	K18L	L3EG	L3EU	L3F2	L3F7	L3FW	L3FY	L3G2	L3GT	L3E2
2020	-18.4	-12.5	-40.1	0.3	-	-8.9	-4.9	-17.5	-30.9	-20.5	-12.4
2021	3.7	7.4	30.9	5.2	-0.1	10.5	2.4	11.9	19.0	1.6	7.0
2022	-2.6	9.5	36.5	-0.7	-0.4	9.7	3.8	6.8	9.0	12.0	5.5
Percentage change, latest quarter on previous quarter											
2020 Q3	23.5	14.3	412.9	1.1	-0.1	9.6	-2.8	61.8	18.8	36.3	15.0
Q4	-3.5	2.3	-30.3	1.6	0.3	4.5	-0.7	7.0	4.8	-0.3	0.6
2021 Q1	-4.3	-0.1	-26.3	3.6	0.7	2.7	1.1	-19.4	5.8	-9.5	-1.7
Q2	11.8	3.7	90.9	0.2	-0.5	3.8	3.4	25.5	18.3	9.1	7.7
Q3	-1.6	2.0	29.8	-0.6	-0.5	3.3	1.4	0.8	9.5	2.4	2.4
Q4	-1.3	3.6	-3.5	1.6	-0.1	3.6	0.7	-0.5	10.2	7.4	2.1
2022 Q1	-2.3	3.8	6.9	-1.4	-0.2	2.2	1.0	0.2	-4.0	2.7	0.5
Q2	-1.1	0.7	5.4	0.1	0.2	1.9	0.2	1.0	-3.7	1.4	0.4
Q3	-0.8	0.9	-0.2	-0.3	-	0.5	1.0	1.6	0.2	-1.1	0.2
Q4	0.4	-1.0	-0.2	-0.6	-	1.3	0.4	-1.6	1.0	-1.2	-
Percentage change, latest quarter on corresponding quarter of the previous year											
	L44S	K1I2	L456	L45K	L45Q	L45V	L46M	L46O	L46Q	L47J	L44Q
2020 Q3	-15.1	-12.6	-21.0	-1.4	-0.3	-11.9	-6.5	-10.9	-40.0	-19.1	-12.4
Q4	-15.9	-9.4	-44.4	0.2	0.4	-9.1	-6.5	-5.0	-37.6	-21.3	-11.7
2021 Q1	-12.4	-6.1	-55.7	4.2	-	-6.1	-3.1	-13.6	-34.0	-23.9	-10.4
Q2	27.4	21.1	402.6	6.7	0.2	22.1	1.0	75.2	55.7	34.2	22.5
Q3	1.5	8.1	27.1	4.9	-0.1	15.1	5.3	9.2	43.5	0.9	9.1
Q4	3.8	9.5	76.1	4.9	-0.5	14.1	6.7	1.5	50.9	8.6	10.7
2022 Q1	6.0	13.8	155.5	-0.1	-1.3	13.5	6.6	26.2	37.0	23.2	13.1
Q2	-6.2	10.5	41.0	-0.3	-0.5	11.4	3.3	1.5	11.5	14.5	5.4
Q3	-5.5	9.4	8.5	-	-	8.4	2.8	2.2	2.1	10.6	3.2
Q4	-3.8	4.6	12.2	-2.2	0.1	6.0	2.5	1.1	-6.4	1.8	1.2

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

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

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

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

C1 Gross domestic product: expenditure at current market prices¹

£ million

National expenditure on goods and services at market prices															
Final consumption expenditure							Gross capital formation							Statistical discrepancy (expenditure)	Gross domestic product at market prices
Households	Non-profit institutions ^{2, 7}	General government	Gross fixed capital formation	Of which business investment ³	Change in inventories ⁴	Of which alignment adjustment	Acquisitions less disposals of valuables ⁵	Total	Total exports	Gross final expenditure	less imports	Total	Trade balance ⁶		
ABJQ	HAYE	NMRP	NPQS	NPEK	CAEX	DMUN	NPJQ	YBIL	IKBH	ABMF	IKBI	IKBJ	GIXM	YBHA	
2020	1 214 474	48 409	475 114	365 882	201 125	-2 851	-	1 006 210	2 037 616	786 271	823 609	229 7 557	-	2 109 594	
2021	1 326 320	49 242	508 194	393 491	204 516	13 470	-	8 220 229	937 654	284 2 953	221 682	323 -28 039	-652	2 270 246	
2022	1 509 998	52 219	524 937	447 198	232 574	31 656	-	-18 549 254	459 813 313	3 360 772	897 982	-84 669	19 337	2 482 127	
Seasonally adjusted															
2020 Q3	311 132	11 788	121 224	92 277	49 516	-2 672	294	1 218	534 968	146 334	681 302	147 131	-797	-	534 171
Q4	306 634	11 942	123 700	95 192	50 525	9 625	3 170	7 618	554 711	156 266	710 977	171 311	-15 045	-	539 666
2021 Q1	298 621	11 664	128 685	93 412	47 968	3 910	1 299	8 496	544 788	150 916	695 704	156 818	-5 902	-979	537 907
Q2	331 204	12 196	125 857	97 704	50 742	-2 546	-2 878	-712	563 703	162 117	725 820	162 396	-279	-1 176	562 248
Q3	345 178	12 585	126 085	101 130	53 785	5 220	1 475	3 498	593 696	157 467	751 163	173 659	-16 192	-148	577 356
Q4	351 317	12 797	127 567	101 245	52 021	6 886	104	-3 062	596 750	183 784	780 534	189 450	-5 666	1 651	592 735
2022 Q1	361 726	12 862	132 937	109 832	56 198	12 407	-1 908	8 271	638 035	177 013	815 048	213 504	-36 491	3 997	605 541
Q2	376 148	12 992	127 557	111 110	58 934	9 968	-1 569	2 464	640 239	196 100	836 339	225 118	-29 018	5 036	616 257
Q3	383 522	13 155	131 215	113 573	59 540	2 359	-3 267	-11 990	631 834	220 644	852 478	231 512	-10 868	5 117	626 083
Q4	388 602	13 210	133 228	112 683	57 902	6 922	6 744	-17 294	637 351	219 556	856 907	227 848	-8 292	5 187	634 246
Percentage change, latest year on previous year															
2020	KG Y7	KG Z8	KH 2C	KG 6O	KG 6N			KG X3	KH 2O	KG V7	KH 3H			IHYM	
	-12.5	-7.6	11.6	-9.3	-10.4			-7.6	-11.8	-8.6	-17.2			-5.8	
2021	9.2	1.7	7.0	7.5	1.7			9.4	6.1	8.6	12.0			7.6	
2022	13.8	6.0	3.3	13.6	13.7			10.8	24.3	13.8	31.6			9.3	
Percentage change, latest quarter on previous quarter															
2020 Q3	KG Y8	KG Z9	KH 2D	KG 6W	KG 6V			KG X4	KH 2P	KG V8	KH 3I			IHYN	
	19.9	2.3	-0.1	15.0	10.6			17.5	0.7	13.4	17.8			12.3	
Q4	-1.4	1.3	2.0	3.2	2.0			3.7	6.8	4.4	16.4			1.0	
2021 Q1	-2.6	-2.3	4.0	-1.9	-5.1			-1.8	-3.4	-2.1	-8.5			-0.3	
Q2	10.9	4.6	-2.2	4.6	5.8			3.5	7.4	4.3	3.6			4.5	
Q3	4.2	3.2	0.2	3.5	6.0			5.3	-2.9	3.5	6.9			2.7	
Q4	1.8	1.7	1.2	0.1	-3.3			0.5	16.7	3.9	9.1			2.7	
2022 Q1	3.0	0.5	4.2	8.5	8.0			6.9	-3.7	4.4	12.7			2.2	
Q2	4.0	1.0	-4.0	1.2	4.9			0.3	10.8	2.6	5.4			1.8	
Q3	2.0	1.3	2.9	2.2	1.0			-1.3	12.5	1.9	2.8			1.6	
Q4	1.3	0.4	1.5	-0.8	-2.8			0.9	-0.5	0.5	-1.6			1.3	
Percentage change, latest quarter on corresponding quarter of previous year															
2020 Q3	KG Y9	KH 22	KH 2E	KG 76	KG 75			KG X5	KH 2Q	KG V9	KH 3J			IHYO	
	-10.6	-11.1	12.7	-9.5	-12.4			-6.0	-18.2	-8.9	-20.4			-5.2	
Q4	-12.0	-7.1	13.1	-6.3	-11.7			-0.7	-15.3	-4.3	-2.3			-4.9	
2021 Q1	-11.4	-11.3	18.2	-4.8	-14.8			-2.2	-10.6	-4.1	-5.4			-3.9	
Q2	27.6	5.8	3.8	21.7	13.4			23.8	11.6	20.8	30.0			18.2	
Q3	10.9	6.8	4.0	9.6	8.6			11.0	7.6	10.3	18.0			8.1	
Q4	14.6	7.2	3.1	6.4	3.0			7.6	17.6	9.8	10.6			9.8	
2022 Q1	21.1	10.3	3.3	17.6	17.2			17.1	17.3	17.2	36.1			12.6	
Q2	13.6	6.5	1.4	13.7	16.1			13.6	21.0	15.2	38.6			9.6	
Q3	11.1	4.5	4.1	12.3	10.7			6.4	40.1	13.5	33.3			8.4	
Q4	10.6	3.2	4.4	11.3	11.3			6.8	19.5	9.8	20.3			7.0	

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

2 Non-profit institutions serving households.

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

4 Quarterly alignment adjustment included in this series.

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

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

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

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

Reference year 2019, £ million

National expenditure on goods and services at market prices															
Final consumption expenditure						Gross capital formation								Statistical discrepancy (expenditure)	Gross domestic product at market prices
Households	Non-profit institutions ^{2, 7}	General government	Gross fixed capital formation	Of which business investment ³	Change in inventories ⁴	Of which alignment adjustment	Acquisitions less disposals of valuables ⁵	Total	Total exports	Gross final expenditure	less imports	Total	Trade balance ⁶		
ABJR	HAYO	NMRY	NPQT	NPBL	CAFU	DMUM	NPJR	YBIM	IKBK	ABMG	IKBL	IKBM	GIXS	ABMI	
2020	1 208 053	42 310	394 460	361 002	198 413	-11 385	-	-398 199	42 615	109 260	151 617	712 -2 603	-	1 991 439	
2021	1 283 950	44 531	443 907	382 995	200 237	8 948	-	6 092 217	423 628	918 279	341 655	966 -27 048	-637	2 142 738	
2022	1 352 082	48 487	452 360	412 602	220 145	9 788	-	-18 330 225	989 693	610 295	599 738	723 -45 113	17 345	2 229 421	
Seasonally adjusted															
2020 Q3	308 681	10 477	100 663	91 209	48 806	-4 848	249	1 208	507 389	146 053	653 442	149 933	-3 880	-	503 509
Q4	304 080	10 776	104 530	94 156	50 167	7 290	2 970	6 312	527 144	154 879	682 023	172 402	-17 523	-	509 621
2021 Q1	293 745	9 805	104 377	92 604	47 578	4 634	1 217	6 854	512 019	148 365	660 384	155 211	-6 846	-918	504 255
Q2	323 597	11 374	112 392	96 351	50 602	-2 522	-2 739	-777	540 415	157 840	698 255	159 956	-2 116	-1 124	537 175
Q3	332 958	11 639	112 854	97 221	51 731	4 438	1 411	2 862	561 972	151 638	713 610	166 966	-15 345	-140	546 487
Q4	333 650	11 713	114 284	96 819	50 326	2 398	111	-2 847	556 017	171 075	727 092	173 816	-2 741	1 545	554 821
2022 Q1	336 871	11 905	113 813	103 026	52 575	8 850	-1 721	5 969	580 434	159 749	740 183	186 501	-26 752	3 679	557 361
Q2	339 102	12 181	112 160	102 457	56 198	4 085	-1 376	2 163	572 148	168 074	740 222	186 843	-18 769	4 559	557 938
Q3	337 845	12 215	112 747	102 767	54 390	-4 631	-2 862	-10 978	549 965	183 837	733 802	181 332	2 505	4 553	557 023
Q4	338 264	12 186	113 640	104 352	56 982	1 484	5 959	-15 484	554 442	181 950	736 392	184 047	-2 097	4 554	557 099
Percentage change, latest year on previous year															
2020	KGZ5	KH26	KH2I	KG7N	KG7M			KGX9	KH2U	KGW5	KH3N			IHYP	
	-12.9	-19.2	-7.3	-10.5	-11.9			-12.3	-12.1	-12.3	-16.0			-11.0	
2021	6.3	5.2	12.5	6.1	0.9			8.8	2.2	7.3	6.2			7.6	
2022	5.3	8.9	1.9	7.7	9.9			4.0	10.3	5.4	12.6			4.0	
Percentage change, latest quarter on previous quarter															
2020 Q3	KGZ6	KH27	KH2J	KG7Q	KG7P			KGY2	KH2V	KGW6	KH3O			IHYQ	
	19.1	18.3	18.2	15.7	11.0			22.9	-0.3	16.8	17.4			16.6	
Q4	-1.5	2.9	3.8	3.2	2.8			3.9	6.0	4.4	15.0			1.2	
2021 Q1	-3.4	-9.0	-0.1	-1.6	-5.2			-2.9	-4.2	-3.2	-10.0			-1.1	
Q2	10.2	16.0	7.7	4.0	6.4			5.5	6.4	5.7	3.1			6.5	
Q3	2.9	2.3	0.4	0.9	2.2			4.0	-3.9	2.2	4.4			1.7	
Q4	0.2	0.6	1.3	-0.4	-2.7			-1.1	12.8	1.9	4.1			1.5	
2022 Q1	1.0	1.6	-0.4	6.4	4.5			4.4	-6.6	1.8	7.3			0.5	
Q2	0.7	2.3	-1.5	-0.6	6.9			-1.4	5.2	-	0.2			0.1	
Q3	-0.4	0.3	0.5	0.3	-3.2			-3.9	9.4	-0.9	-2.9			-0.2	
Q4	0.1	-0.2	0.8	1.5	4.8			0.8	-1.0	0.4	1.5			-	
Percentage change, latest quarter on corresponding quarter of previous year															
2020 Q3	KGZ7	KH28	KH2K	KG7T	KG7S			KGY3	KH2W	KGW7	KH3P			IHYR	
	-11.1	-20.6	-5.5	-10.3	-13.7			-10.3	-17.6	-12.1	-17.5			-10.3	
Q4	-12.2	-14.5	-3.0	-6.5	-12.0			-4.8	-16.0	-7.6	-2.5			-9.2	
2021 Q1	-12.6	-19.6	0.3	-4.4	-14.2			-6.3	-11.5	-7.5	-7.4			-7.7	
Q2	24.9	28.4	31.9	22.3	15.1			30.9	7.7	24.8	25.3			24.4	
Q3	7.9	11.1	12.1	6.6	6.0			10.8	3.8	9.2	11.4			8.5	
Q4	9.7	8.7	9.3	2.8	0.3			5.5	10.5	6.6	0.8			8.9	
2022 Q1	14.7	21.4	9.0	11.3	10.5			13.4	7.7	12.1	20.2			10.5	
Q2	4.8	7.1	-0.2	6.3	11.1			5.9	6.5	6.0	16.8			3.9	
Q3	1.5	4.9	-0.1	5.7	5.1			-2.1	21.2	2.8	8.6			1.9	
Q4	1.4	4.0	-0.6	7.8	13.2			-0.3	6.4	1.3	5.9			0.4	

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

2 Non-profit institutions serving households.

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

4 Quarterly alignment adjustment included in this series.

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

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

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

D Gross domestic product by category of income: current prices¹

£ million

	Compen- sation of employees		Gross operating surplus of corporations							Taxes on production less subsidies				Statisti- cal discrepa- ncy (income)	Gross domestic product at market prices
	Wages and Salaries	Employers social contri- butions	Private non-fina- cial corporat- ions ²	Of which align- ment adjust- ment	Financial corporat- ions	Public corporat- ions	Total ³	Other income ⁴	Gross value added at factor cost	Taxes	less Subsidies	Total			
	DTWL	DTWP	DTWM	CAER	DMUQ	NHCZ	CAEQ	CGBZ	CGBX	CGCB	NTAB	AAXW	CMVL	GIXQ	YBHA
2020	898 500	196 312	1 094 812	387 857	-	83 329	11 746	482 932	399 638	1 977 382	253 140	120 928	132 212	-	2 109 594
2021	956 936	203 547	1 160 483	399 224	-	85 445	12 444	497 113	411 770	2 069 366	282 370	73 130	209 240	-8 360	2 270 246
2022	1 027 452	217 000	1 244 452	..	-	..	..	548 868	442 823	2 236 143	319 467	46 811	272 656	-26 672	2 482 127
Seasonally adjusted															
2020 Q3	223 430	49 652	273 082	104 290	2 011	19 749	2 988	127 027	99 701	499 810	62 536	28 175	34 361	-	534 171
Q4	229 389	50 693	280 082	95 705	-1 373	20 165	3 247	119 117	100 496	499 695	66 322	26 351	39 971	-	539 666
2021 Q1	230 398	49 750	280 148	96 153	-1 793	20 959	2 969	120 081	101 864	502 093	64 168	28 551	35 617	197	537 907
Q2	237 442	50 433	287 875	101 430	2 041	22 026	3 246	126 702	102 324	516 901	69 337	22 535	46 802	-1 455	562 248
Q3	242 232	51 492	293 724	100 248	615	21 080	3 008	124 336	102 973	521 033	72 892	13 950	58 942	-2 619	577 356
Q4	246 864	51 872	298 736	101 393	-863	21 380	3 221	125 994	104 609	529 339	75 973	8 094	67 879	-4 483	592 735
2022 Q1	251 897	53 391	305 288	102 600	-4 244	23 000	3 166	128 766	108 074	542 128	77 965	8 233	69 732	-6 319	605 541
Q2	254 087	54 829	308 916	105 647	-2 110	23 530	3 086	132 263	109 561	550 740	79 493	7 293	72 200	-6 683	616 257
Q3	258 481	54 941	313 422	106 042	-2 744	24 410	3 300	133 752	112 054	559 228	81 176	7 531	73 645	-6 790	626 083
Q4	262 987	53 839	316 826	..	9 098	..	..	154 087	113 134	584 047	80 833	23 754	57 079	-6 880	634 246
Percentage change, latest year on previous year															
	CWNH	CWNE	KGI3	KH59		KH5L	KH53	KH4V	KH6T	KH6N	JJDC	JJDU	KH65		IHYM
2020	-0.1	2.9	0.4	-0.7		3.0	-1.0	-0.1	-	0.2	-12.4	406.3	-50.1		-5.8
2021	6.5	3.7	6.0	2.9		2.5	5.9	2.9	3.0	4.7	11.5	-39.5	58.3		7.6
2022	7.4	6.6	7.2	..		..	..	10.4	7.5	8.1	13.1	-36.0	30.3		9.3
Percentage change, latest quarter on previous quarter															
	CWNI	CWNF	KGI4	KH5A		KH5M	KH54	KH4W	KH6U	KH6O	JJDH	JJZD	KH66		IHYN
2020 Q3	2.0	4.9	2.5	14.0		-2.3	14.4	11.1	0.4	4.1	16.9	-51.2	-904.0		12.3
Q4	2.7	2.1	2.6	-8.2		2.1	8.7	-6.2	0.8	-	6.1	-6.5	16.3		1.0
2021 Q1	0.4	-1.9	-	0.5		3.9	-8.6	0.8	1.4	0.5	-3.2	8.3	-10.9		-0.3
Q2	3.1	1.4	2.8	5.5		5.1	9.3	5.5	0.5	2.9	8.1	-21.1	31.4		4.5
Q3	2.0	2.1	2.0	-1.2		-4.3	-7.3	-1.9	0.6	0.8	5.1	-38.1	25.9		2.7
Q4	1.9	0.7	1.7	1.1		1.4	7.1	1.3	1.6	1.6	4.2	-42.0	15.2		2.7
2022 Q1	2.0	2.9	2.2	1.2		7.6	-1.7	2.2	3.3	2.4	2.6	1.7	2.7		2.2
Q2	0.9	2.7	1.2	3.0		2.3	-2.5	2.7	1.4	1.6	2.0	-11.4	3.5		1.8
Q3	1.7	0.2	1.5	0.4		3.7	6.9	1.1	2.3	1.5	2.1	3.3	2.0		1.6
Q4	1.7	-2.0	1.1	..		..	..	15.2	1.0	4.4	-0.4	215.4	-22.5		1.3
Percentage change, latest quarter on corresponding quarter of previous year															
	CWNJ	CWNG	KGI5	KH5B		KH5N	KH55	KH4X	KH6V	KH6P	JJDS	JJG4	KH67		IHYO
2020 Q3	-1.1	2.5	-0.5	5.5		-3.7	-3.7	3.7	-	0.7	-14.3	344.1	-48.4		-5.2
Q4	2.0	4.7	2.5	-7.3		-1.6	5.5	-6.1	-0.6	-0.3	-8.7	329.1	-39.9		-4.9
2021 Q1	1.7	2.3	1.8	-0.2		-9.7	2.4	-1.9	1.7	0.9	-9.4	230.6	-42.7		-3.9
Q2	8.3	6.5	8.0	10.9		9.0	24.3	10.8	3.0	7.7	29.6	-61.0	195.0		18.2
Q3	8.4	3.7	7.6	-3.9		6.7	0.7	-2.1	3.3	4.2	16.6	-50.5	71.5		8.1
Q4	7.6	2.3	6.7	5.9		6.0	-0.8	5.8	4.1	5.9	14.6	-69.3	69.8		9.8
2022 Q1	9.3	7.3	9.0	6.7		9.7	6.6	7.2	6.1	8.0	21.5	-71.2	95.8		12.6
Q2	7.0	8.7	7.3	4.2		6.8	-4.9	4.4	7.1	6.5	14.6	-67.6	54.3		9.6
Q3	6.7	6.7	6.7	5.8		15.8	9.7	7.6	8.8	7.3	11.4	-46.0	24.9		8.4
Q4	6.5	3.8	6.1	..		..	..	22.3	8.1	10.3	6.4	193.5	-15.9		7.0

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

2 Quarterly alignment adjustment included in this series.

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

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

E1 Household final consumption expenditure by purpose

Current prices

£ million

UK NATIONAL²

UK DOMESTIC³

COICOP ¹	Net		Total	Food & drink	Alcohol & tobacco	Clothing & footwear	Housing	Household goods & services		Health	Transport	Communi- cation	Recreati- on & culture	Education	Restau- rants & hotels	Miscell- aneous
	Total	tourism						05	06							
			0	01	02	03	04	05	06	07	08	09	10	11	12	
	ABJQ	ABTF	ZAKV	ZWUM	ZAKX	ZAKZ	ZAVN	ZAVV	ZAWB	ZAWL	ZAWV	ZAWZ	ZWUS	ZAXR	ZAYF	
2020	1 214 474	6 051	1 208 423	120 091	52 828	55 678	357 711	68 759	24 308	126 961	28 552	114 408	30 609	87 185	141 333	
2021	1 326 320	6 908	1 319 412	122 642	52 437	64 732	367 526	73 441	25 494	150 366	28 335	131 075	33 223	119 901	150 240	
2022	1 509 998	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Seasonally adjusted																
2020 Q3	311 132	550	310 582	29 845	13 556	14 415	89 390	18 377	5 903	34 752	7 328	28 004	7 611	25 088	36 313	
Q4	306 634	818	305 816	29 734	13 609	14 143	89 955	17 577	6 630	32 082	6 916	29 688	7 810	21 637	36 035	
2021 Q1	298 621	46	298 575	30 993	13 482	14 184	90 997	17 049	6 105	29 412	6 958	30 417	8 088	15 792	35 098	
Q2	331 204	1 342	329 862	30 652	13 499	16 673	91 953	19 073	6 380	36 159	7 191	32 945	8 235	29 223	37 879	
Q3	345 178	3 076	342 102	30 214	12 794	16 729	91 500	18 520	6 542	40 749	7 101	33 430	8 378	38 117	38 028	
Q4	351 317	2 444	348 873	30 783	12 662	17 146	93 076	18 799	6 467	44 046	7 085	34 283	8 522	36 769	39 235	
2022 Q1	361 726	3 664	358 062	30 328	12 461	19 420	93 732	19 234	6 413	45 254	7 301	35 771	8 619	39 373	40 156	
Q2	376 148	5 367	370 781	31 232	12 884	18 243	97 559	19 396	6 720	48 507	7 174	36 035	8 760	42 586	41 685	
Q3	383 522	6 945	376 577	32 416	12 711	18 487	98 691	19 235	6 916	49 892	7 144	36 398	8 905	42 266	43 516	
Q4	388 602	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Percentage change, latest year on previous year																
	KG7		KG6U	KG9N	KG6F	KG9F	KG7G	KG5H	KG6I	KG4J	KG2K	KG8K	KG2B	KG6C	KG2E	
2020	-12.5		-11.4	8.9	12.5	-20.3	1.6	2.9	-15.0	-34.3	2.1	-13.6	3.2	-39.1	-12.8	
2021	9.2		9.2	2.1	-0.7	16.3	2.7	6.8	4.9	18.4	-0.8	14.6	8.5	37.5	6.3	
2022	13.8		..	..	..	..	..	..	..	..	..	..	..	..	..
Percentage change, quarter on previous quarter																
	KG8		KG74	KG9R	KG6F4	KG2G	KG8G	KG6H	KG7I	KG5J	KG3K	KG9K	KG3B	KG7C	KG3E	
2020 Q3	19.9		19.8	-2.6	-0.9	23.9	-	15.7	22.0	104.5	4.7	15.3	1.1	283.5	17.9	
Q4	-1.4		-1.5	-0.4	0.4	-1.9	0.6	-4.4	12.3	-7.7	-5.6	6.0	2.6	-13.8	-0.8	
2021 Q1	-2.6		-2.4	4.2	-0.9	0.3	1.2	-3.0	-7.9	-8.3	0.6	2.5	3.6	-27.0	-2.6	
Q2	10.9		10.5	-1.1	0.1	17.5	1.1	11.9	4.5	22.9	3.3	8.3	1.8	85.0	7.9	
Q3	4.2		3.7	-1.4	-5.2	0.3	-0.5	-2.9	2.5	12.7	-1.3	1.5	1.7	30.4	0.4	
Q4	1.8		2.0	1.9	-1.0	2.5	1.7	1.5	-1.1	8.1	-0.2	2.6	1.7	-3.5	3.2	
2022 Q1	3.0		2.6	-1.5	-1.6	13.3	0.7	2.3	-0.8	2.7	3.0	4.3	1.1	7.1	2.3	
Q2	4.0		3.6	3.0	3.4	-6.1	4.1	0.8	4.8	7.2	-1.7	0.7	1.6	8.2	3.8	
Q3	2.0		1.6	3.8	-1.3	1.3	1.2	-0.8	2.9	2.9	-0.4	1.0	1.7	-0.8	4.4	
Q4	1.3		..	..	..	..	..	..	..	..	..	..	..	..	..
Percentage change, quarter on corresponding quarter of previous year																
	KG9		KG7C	KG9V	KG6F5	KG3G	KG9G	KG7H	KG8I	KG6J	KG4K	KG2L	KG4B	KG8C	KG4E	
2020 Q3	-10.6		-9.0	7.8	14.8	-18.1	1.6	8.8	-16.3	-28.1	5.0	-16.0	2.4	-30.4	-9.7	
Q4	-12.0		-10.7	5.6	16.1	-19.3	1.8	6.4	-6.2	-32.9	-3.0	-10.6	4.4	-40.4	-12.1	
2021 Q1	-11.4		-10.3	3.8	12.5	-8.4	2.3	0.8	-12.0	-31.8	-4.8	-6.2	5.6	-53.4	-8.1	
Q2	27.6		27.2	-	-1.3	43.3	2.8	20.1	31.8	112.8	2.7	35.7	9.4	346.8	22.9	
Q3	10.9		10.1	1.2	-5.6	16.1	2.4	0.8	10.8	17.3	-3.1	19.4	10.1	51.9	4.7	
Q4	14.6		14.1	3.5	-7.0	21.2	3.5	7.0	-2.5	37.3	2.4	15.5	9.1	69.9	8.9	
2022 Q1	21.1		19.9	-2.1	-7.6	36.9	3.0	12.8	5.0	53.9	4.9	17.6	6.6	149.3	14.4	
Q2	13.6		12.4	1.9	-4.6	9.4	6.1	1.7	5.3	34.1	-0.2	9.4	6.4	45.7	10.0	
Q3	11.1		10.1	7.3	-0.6	10.5	7.9	3.9	5.7	22.4	0.6	8.9	6.3	10.9	14.4	
Q4	10.6		..	..	..	..	..	..	..	..	..	..	..	..	..

1 ESA 10 Classification of Individual Consumption by Purpose.

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

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

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

£ million

		UK NATIONAL ²							
		UK DOMESTIC ³							
				Goods					
		Total	Net tourism	Total	Total	Durable goods	Semi- durable goods	Non- durable goods	Services
COICOP ¹					D	SD	ND	S	
	ABJQ	ABTF	ZAKV	UTIF	UTIB	UTIR	UTIJ	UTIN	
2020	1 214 474	6 051	1 208 423	535 736	126 615	112 714	296 407	672 687	
2021	1 326 320	6 908	1 319 412	575 377	138 529	127 382	309 466	744 035	
2022	1 509 998	..	..	..	..	..	..	..
Seasonally adjusted									
2020 Q3	311 132	550	310 582	140 750	36 933	29 278	74 539	169 832	
Q4	306 634	818	305 816	137 024	33 381	29 291	74 352	168 792	
2021 Q1	298 621	46	298 575	134 281	29 618	28 831	75 832	164 294	
Q2	331 204	1 342	329 862	147 912	36 306	33 116	78 490	181 950	
Q3	345 178	3 076	342 102	144 749	35 801	32 513	76 435	197 353	
Q4	351 317	2 444	348 873	148 435	36 804	32 922	78 709	200 438	
2022 Q1	361 726	3 664	358 062	152 380	37 141	35 821	79 418	205 682	
Q2	376 148	5 367	370 781	156 537	37 304	34 578	84 655	214 244	
Q3	383 522	6 945	376 577	157 910	37 051	34 463	86 396	218 667	
Q4	388 602	..	..	..	..	..	..	..
Percentage change, latest year on previous year									
2020	KG7		KG6U	KHC9	KHB5	KHH5	KHE5	KHF9	
	-12.5		-11.4	-4.1	-5.9	-14.4	1.3	-16.4	
2021	9.2		9.2	7.4	9.4	13.0	4.4	10.6	
2022	13.8		..	..	..	..	..	..
Percentage change, quarter on previous quarter									
2020 Q3	KG78		KG74	KHD2	KHB6	KHH6	KHE6	KHG2	
	19.9		19.8	16.7	54.7	20.7	2.9	22.5	
Q4	-1.4		-1.5	-2.6	-9.6	-	-0.3	-0.6	
2021 Q1	-2.6		-2.4	-2.0	-11.3	-1.6	2.0	-2.7	
Q2	10.9		10.5	10.2	22.6	14.9	3.5	10.7	
Q3	4.2		3.7	-2.1	-1.4	-1.8	-2.6	8.5	
Q4	1.8		2.0	2.5	2.8	1.3	3.0	1.6	
2022 Q1	3.0		2.6	2.7	0.9	8.8	0.9	2.6	
Q2	4.0		3.6	2.7	0.4	-3.5	6.6	4.2	
Q3	2.0		1.6	0.9	-0.7	-0.3	2.1	2.1	
Q4	1.3		..	..	..	..	..	..
Percentage change, quarter on corresponding quarter of previous year									
2020 Q3	KG79		KG7C	KHD3	KHB7	KHH7	KHE7	KHG3	
	-10.6		-9.0	0.4	9.5	-12.5	2.2	-15.6	
Q4	-12.0		-10.7	-2.0	-	-11.3	1.2	-16.6	
2021 Q1	-11.4		-10.3	-2.3	-8.7	-3.5	1.0	-15.9	
Q2	27.6		27.2	22.7	52.1	36.5	8.4	31.2	
Q3	10.9		10.1	2.8	-3.1	11.0	2.5	16.2	
Q4	14.6		14.1	8.3	10.3	12.4	5.9	18.7	
2022 Q1	21.1		19.9	13.5	25.4	24.2	4.7	25.2	
Q2	13.6		12.4	5.8	2.7	4.4	7.9	17.7	
Q3	11.1		10.1	9.1	3.5	6.0	13.0	10.8	
Q4	10.6		..	..	..	..	..	..

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	Communica-tion	Recreati-on & culture	Education	Restau-rants & hotels	Miscell-aneous
				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	1 208 053	5 941	1 202 112	119 208	51 526	56 250	356 379	68 731	23 766	125 233	29 071	112 690	28 196	86 018	145 044
2021	1 283 950	7 117	1 276 833	120 662	49 569	64 922	359 645	70 710	24 485	139 235	29 989	125 504	31 451	113 617	147 044
2022	1 352 082	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Seasonally adjusted															
2020 Q3	308 681	569	308 112	29 635	13 176	14 501	88 926	18 312	5 755	33 989	7 517	27 508	6 972	24 846	36 975
Q4	304 080	707	303 373	29 650	13 186	14 309	89 714	17 529	6 458	31 345	7 200	29 036	7 121	21 158	36 667
2021 Q1	293 745	373	293 372	30 828	12 887	14 554	90 057	16 869	5 855	27 592	7 232	29 728	7 750	15 139	34 881
Q2	323 597	1 291	322 306	30 433	12 794	16 835	90 947	18 592	6 170	34 505	7 559	31 829	7 889	27 523	37 230
Q3	332 958	2 775	330 183	29 785	12 087	16 658	89 286	17 680	6 295	37 497	7 557	31 771	7 996	36 035	37 536
Q4	333 650	2 678	330 972	29 616	11 801	16 875	89 355	17 569	6 165	39 641	7 641	32 176	7 816	34 920	37 397
2022 Q1	336 871	3 492	333 379	28 660	11 602	18 275	89 274	17 262	6 000	39 086	7 734	33 250	7 904	36 623	37 709
Q2	339 102	4 037	335 065	28 396	11 728	17 311	89 336	17 064	6 332	40 491	7 429	33 208	8 035	38 441	37 294
Q3	337 845	4 794	333 051	28 061	11 543	17 100	89 003	16 673	6 412	40 238	7 502	33 024	8 141	38 098	37 256
Q4	338 264	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Percentage change, latest year on previous year															
	KGZ5		KG7O	KG9Y	KGF6	KGG4	KGH2	KGH8	KGJ9	KGJ7	KGK5	KGL3	KGB8	KGD4	KGE8
2020	-12.9		-11.8	8.1	9.7	-19.5	1.2	2.9	-16.9	-35.2	4.0	-14.9	-4.9	-39.9	-10.5
2021	6.3		6.2	1.2	-3.8	15.4	0.9	2.9	3.0	11.2	3.2	11.4	11.5	32.1	1.4
2022	5.3		..	..	..	..	..	..	..	..	..	..	..	..	..
Percentage change, quarter on previous quarter															
	KGZ6		KG7R	KGA3	KGF7	KGG5	KGH3	KGH9	KGJ2	KGJ8	KGK6	KGL4	KGB9	KGD5	KGE9
2020 Q3	19.1		19.0	-2.0	-0.7	21.4	-0.3	14.6	20.8	97.4	7.5	14.7	6.0	283.7	14.5
Q4	-1.5		-1.5	0.1	0.1	-1.3	0.9	-4.3	12.2	-7.8	-4.2	5.6	2.1	-14.8	-0.8
2021 Q1	-3.4		-3.3	4.0	-2.3	1.7	0.4	-3.8	-9.3	-12.0	0.4	2.4	8.8	-28.4	-4.9
Q2	10.2		9.9	-1.3	-0.7	15.7	1.0	10.2	5.4	25.1	4.5	7.1	1.8	81.8	6.7
Q3	2.9		2.4	-2.1	-5.5	-1.1	-1.8	-4.9	2.0	8.7	-	-0.2	1.4	30.9	0.8
Q4	0.2		0.2	-0.6	-2.4	1.3	0.1	-0.6	-2.1	5.7	1.1	1.3	-2.3	-3.1	-0.4
2022 Q1	1.0		0.7	-3.2	-1.7	8.3	-0.1	-1.7	-2.7	-1.4	1.2	3.3	1.1	4.9	0.8
Q2	0.7		0.5	-0.9	1.1	-5.3	0.1	-1.1	5.5	3.6	-3.9	-0.1	1.7	5.0	-1.1
Q3	-0.4		-0.6	-1.2	-1.6	-1.2	-0.4	-2.3	1.3	-0.6	1.0	-0.6	1.3	-0.9	-0.1
Q4	0.1		..	..	..	..	..	..	..	..	..	..	..	..	..
Percentage change, quarter on corresponding quarter of previous year															
	KGZ7		KG7U	KGA6	KGF8	KGG6	KGH4	KGJ2	KGJ3	KGJ9	KGK7	KGL5	KGC2	KGD6	KGF2
2020 Q3	-11.1		-9.5	7.4	11.8	-17.7	1.4	8.4	-18.2	-29.1	6.7	-17.3	-6.6	-30.8	-8.2
Q4	-12.2		-10.8	6.0	13.0	-18.0	1.9	6.8	-8.0	-33.7	-0.2	-12.2	-3.2	-41.1	-9.7
2021 Q1	-12.6		-11.6	3.8	8.4	-6.1	1.7	-0.3	-13.7	-35.4	-1.7	-7.6	3.0	-54.9	-10.8
Q2	24.9		24.5	0.7	-3.6	40.9	2.0	16.4	29.5	100.4	8.1	32.7	19.9	325.1	15.3
Q3	7.9		7.2	0.5	-8.3	14.9	0.4	-3.5	9.4	10.3	0.5	15.5	14.7	45.0	1.5
Q4	9.7		9.1	-0.1	-10.5	17.9	-0.4	0.2	-4.5	26.5	6.1	10.8	9.8	65.0	2.0
2022 Q1	14.7		13.6	-7.0	-10.0	25.6	-0.9	2.3	2.5	41.7	6.9	11.8	2.0	141.9	8.1
Q2	4.8		4.0	-6.7	-8.3	2.8	-1.8	-8.2	2.6	17.3	-1.7	4.3	1.9	39.7	0.2
Q3	1.5		0.9	-5.8	-4.5	2.7	-0.3	-5.7	1.9	7.3	-0.7	3.9	1.8	5.7	-0.7
Q4	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.

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

Reference year 2019, £ million

		UK NATIONAL ²							
		UK DOMESTIC ³							
				Goods					
		Total	Net tourism	Total	Total	Durable goods	Semi- durable goods	Non- durable goods	Services
COICOP ¹					D	SD	ND	S	
	ABJR	ABTH	ZAKW	UTIH	UTID	UTIT	UTIL	UTIP	
2020	1 208 053	5 941	1 202 112	533 192	123 657	113 052	296 483	668 920	
2021	1 283 950	7 117	1 276 833	554 963	128 461	125 871	300 631	721 870	
2022	1 352 082	..	..	..	..	..	..	..
Seasonally adjusted									
2020 Q3	308 681	569	308 112	139 623	35 693	29 275	74 655	168 489	
Q4	304 080	707	303 373	136 565	32 246	29 372	74 947	166 808	
2021 Q1	293 745	373	293 372	132 003	27 716	29 221	75 066	161 369	
Q2	323 597	1 291	322 306	144 900	34 316	32 912	77 672	177 406	
Q3	332 958	2 775	330 183	138 971	32 961	31 827	74 183	191 212	
Q4	333 650	2 678	330 972	139 089	33 468	31 911	73 710	191 883	
2022 Q1	336 871	3 492	333 379	138 403	32 550	33 417	72 436	194 976	
Q2	339 102	4 037	335 065	136 505	32 401	32 185	71 919	198 560	
Q3	337 845	4 794	333 051	133 989	31 840	31 635	70 514	199 062	
Q4	338 264	..	..	..	..	..	..	..
Percentage change, year on previous year									
	KGZ5		KG7O	KHD7	KHC3	KHI3	KHF3	KHG7	
2020	-12.9		-11.8	-4.6	-8.1	-14.2	1.3	-16.9	
2021	6.3		6.2	4.1	3.9	11.3	1.4	7.9	
2022	5.3		..	..	..	..	..	..
Percentage change, quarter on previous quarter									
	KGZ6		KG7R	KHD8	KHC4	KHI4	KHF4	KHG8	
2020 Q3	19.1		19.0	15.9	51.0	19.4	3.3	21.7	
Q4	-1.5		-1.5	-2.2	-9.7	0.3	0.4	-1.0	
2021 Q1	-3.4		-3.3	-3.3	-14.0	-0.5	0.2	-3.3	
Q2	10.2		9.9	9.8	23.8	12.6	3.5	9.9	
Q3	2.9		2.4	-4.1	-3.9	-3.3	-4.5	7.8	
Q4	0.2		0.2	0.1	1.5	0.3	-0.6	0.4	
2022 Q1	1.0		0.7	-0.5	-2.7	4.7	-1.7	1.6	
Q2	0.7		0.5	-1.4	-0.5	-3.7	-0.7	1.8	
Q3	-0.4		-0.6	-1.8	-1.7	-1.7	-2.0	0.3	
Q4	0.1		..	..	..	..	..	..
Percentage change, quarter on corresponding quarter of previous year									
	KGZ7		KG7U	KHD9	KHC5	KHI5	KHF5	KHG9	
2020 Q3	-11.1		-9.5	-	6.0	-12.6	3.0	-16.1	
Q4	-12.2		-10.8	-1.8	-3.2	-10.6	2.7	-17.0	
2021 Q1	-12.6		-11.6	-3.3	-13.6	-2.2	0.6	-17.3	
Q2	24.9		24.5	20.3	45.2	34.2	7.5	28.1	
Q3	7.9		7.2	-0.5	-7.7	8.7	-0.6	13.5	
Q4	9.7		9.1	1.8	3.8	8.6	-1.7	15.0	
2022 Q1	14.7		13.6	4.8	17.4	14.4	-3.5	20.8	
Q2	4.8		4.0	-5.8	-5.6	-2.2	-7.4	11.9	
Q3	1.5		0.9	-3.6	-3.4	-0.6	-4.9	4.1	
Q4	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						Total
	Public corporations ²				Private Sector				Transport equipment	ICT equipment and other machinery and Dwelling ³	Other buildings and structures ⁵	Intellectual Property Products			
	Business investment ¹	General government	Dwellings ⁴	Costs of transfer of ownership of non-produced assets	Dwellings ⁴	Costs of transfer of ownership of non-produced assets	Total								
2020	NPEK 201 125	RPZG 65 977	L62R 4 282	L62S 499	L62T 73 598	L62U 20 400	NPQS 365 882	TLPX 17 486	TLPW 58 602	GGAE 77 699	EQED 123 029	TLPK 89 067	NPQS 365 882		
2021	204 516	70 729	5 174	637	89 192	23 243	393 491	21 790	60 036	94 366	125 151	92 148	393 491		
2022	232 574	78 483	6 162	727	103 613	25 639	447 198	24 261	71 550	109 775	143 074	98 538	447 198		
Seasonally adjusted															
2020 Q3	49 516	16 750	1 043	116	19 900	4 952	92 277	5 233	14 549	20 943	29 995	21 557	92 277		
Q4	50 525	17 269	1 145	132	20 628	5 494	95 192	5 246	15 488	21 773	30 711	21 975	95 192		
2021 Q1	47 968	17 344	1 172	144	21 213	5 571	93 412	5 017	13 935	22 385	29 980	22 095	93 412		
Q2	50 742	17 791	1 294	157	21 933	5 787	97 704	5 180	15 016	23 227	31 210	23 071	97 704		
Q3	53 785	17 454	1 320	164	22 601	5 806	101 130	5 746	16 579	23 921	31 536	23 348	101 130		
Q4	52 021	18 140	1 388	172	23 445	6 079	101 245	5 847	14 506	24 833	32 425	23 634	101 245		
2022 Q1	56 198	21 069	1 537	169	24 551	6 308	109 832	6 997	18 177	26 088	34 792	23 778	109 832		
Q2	58 934	17 844	1 446	195	25 997	6 694	111 110	6 417	17 878	27 443	34 612	24 760	111 110		
Q3	59 540	18 921	1 584	193	26 787	6 548	113 573	5 941	17 693	28 371	36 175	25 393	113 573		
Q4	57 902	20 649	1 595	170	26 278	6 089	112 683	4 906	17 802	27 873	37 495	24 607	112 683		
Percentage change, latest year on previous year															
2020	KG6N -10.4	KH7N 6.8	L64E -7.2	L64H -15.7	L64K -16.3	L64N -15.4	KG6O -9.3	KG6T -10.8	KG6S -10.7	KH7X -16.1	KH7W -10.9	KG6R 1.8	KG6O -9.3		
2021	1.7	7.2	20.8	27.7	21.2	13.9	7.5	24.6	2.4	21.5	1.7	3.5	7.5		
2022	13.7	11.0	19.1	14.1	16.2	10.3	13.6	11.3	19.2	16.3	14.3	6.9	13.6		
Percentage change, latest quarter on previous quarter															
2020 Q3	KG6V 10.6	KH7P -3.4	L64F 11.4	L64I 2.7	L64L 59.8	L64O 6.3	KG6W 15.0	KG73 159.3	KG72 11.3	KH83 56.4	KH82 1.6	KG6Z -3.1	KG6W 15.0		
Q4	2.0	3.1	9.8	13.8	3.7	10.9	3.2	0.2	6.5	4.0	2.4	1.9	3.2		
2021 Q1	-5.1	0.4	2.4	9.1	2.8	1.4	-1.9	-4.4	-10.0	2.8	-2.4	0.5	-1.9		
Q2	5.8	2.6	10.4	9.0	3.4	3.9	4.6	3.2	7.8	3.8	4.1	4.4	4.6		
Q3	6.0	-1.9	2.0	4.5	3.0	0.3	3.5	10.9	10.4	3.0	1.0	1.2	3.5		
Q4	-3.3	3.9	5.2	4.9	3.7	4.7	0.1	1.8	-12.5	3.8	2.8	1.2	0.1		
2022 Q1	8.0	16.1	10.7	-1.7	4.7	3.8	8.5	19.7	25.3	5.1	7.3	0.6	8.5		
Q2	4.9	-15.3	-5.9	15.4	5.9	6.1	1.2	-8.3	-1.6	5.2	-0.5	4.1	1.2		
Q3	1.0	6.0	9.5	-1.0	3.0	-2.2	2.2	-7.4	-1.0	3.4	4.5	2.6	2.2		
Q4	-2.8	9.1	0.7	-11.9	-1.9	-7.0	-0.8	-17.4	0.6	-1.8	3.6	-3.1	-0.8		
Percentage change, latest quarter on corresponding quarter of previous year															
2020 Q3	KG75 -12.4	KH7R 7.8	L64G -10.7	L64J -24.2	L64M -11.8	L64P -18.4	KG76 -9.5	KG7B 3.4	KG7A -13.2	KH87 -11.8	KH86 -12.2	KG79 -3.4	KG76 -9.5		
Q4	-11.7	10.1	-7.7	-9.6	-3.6	-6.5	-6.3	40.1	-8.6	-3.9	-13.0	-4.0	-6.3		
2021 Q1	-14.8	18.6	1.2	4.3	2.9	5.2	-4.8	0.6	-10.1	3.7	-8.6	-5.1	-4.8		
Q2	13.4	2.6	38.2	38.9	76.1	24.2	21.7	156.7	14.9	73.5	5.7	3.7	21.7		
Q3	8.6	4.2	26.6	41.4	13.6	17.2	9.6	9.8	14.0	14.2	5.1	8.3	9.6		
Q4	3.0	5.0	21.2	30.3	13.7	10.6	6.4	11.5	-6.3	14.1	5.6	7.5	6.4		
2022 Q1	17.2	21.5	31.1	17.4	15.7	13.2	17.6	39.5	30.4	16.5	16.1	7.6	17.6		
Q2	16.1	0.3	11.7	24.2	18.5	15.7	13.7	23.9	19.1	18.2	10.9	7.3	13.7		
Q3	10.7	8.4	20.0	17.7	18.5	12.8	12.3	3.4	6.7	18.6	14.7	8.8	12.3		
Q4	11.3	13.8	14.9	-1.2	12.1	0.2	11.3	-16.1	22.7	12.2	15.6	4.1	11.3		

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

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

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

4 Includes new dwellings and improvements to dwellings.

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

F2 Gross fixed capital formation by sector and type of asset

Chained volume measures

Reference year 2019, £ million

	Analysis by sector								Analysis by asset						Total
	Public corporations ²				Private Sector				Transport equipment	ICT equipment and other machinery and equipment ³	Dwellings ⁴	Other buildings and structures ⁵	Intellectual Property Products		
	Business investment ¹	General government	Dwellings ⁴	Costs of transfer of ownership of non-produced assets	Dwellings ⁴	Costs of transfer of ownership of non-produced assets	NPQT								
2020	NPEL	DLWF	L634	L635	L636	L637	NPQT	DLWL	DLWO	DFEG	DLWT	EQDO	NPQT		
2021	198 413	63 739	4 240	487	73 900	20 224	361 002	16 807	57 022	77 960	122 002	87 210	361 002		
2022	200 237	67 127	4 973	610	87 283	22 765	382 995	18 688	59 278	92 256	122 389	90 384	382 995		
	220 145	68 990	5 477	653	93 574	23 763	412 602	21 916	69 691	99 051	129 960	91 984	412 602		
Seasonally adjusted															
2020 Q3	48 806	16 350	1 014	113	20 024	4 901	91 209	5 001	14 014	21 038	30 000	21 155	91 209		
Q4	50 167	16 582	1 084	127	20 699	5 496	94 156	5 106	15 052	21 783	30 746	21 468	94 156		
2021 Q1	47 578	17 089	1 120	129	21 162	5 526	92 604	3 883	14 524	22 282	29 242	22 673	92 604		
Q2	50 602	16 926	1 297	140	21 690	5 696	96 351	5 055	13 837	22 987	31 947	22 525	96 351		
Q3	51 731	16 284	1 267	160	22 082	5 697	97 221	4 828	16 053	23 349	30 539	22 452	97 221		
Q4	50 326	16 828	1 289	181	22 349	5 846	96 819	4 922	14 864	23 638	30 661	22 734	96 819		
2022 Q1	52 575	19 985	1 359	154	22 924	6 029	103 026	5 341	18 522	24 283	31 244	23 636	103 026		
Q2	56 198	14 718	1 365	167	23 717	6 292	102 457	5 037	16 622	25 082	32 516	23 200	102 457		
Q3	54 390	16 988	1 390	173	23 863	5 963	102 767	5 071	16 305	25 253	33 206	22 932	102 767		
Q4	56 982	17 299	1 363	159	23 070	5 479	104 352	6 467	18 242	24 433	32 994	22 216	104 352		
Percentage change, latest year on previous year															
2020	KG7M	KH92	L64T	L64W	L654	L64Z	KG7N	KH95	KH96	KH8Y	KH97	KH98	KG7N		
2021	-11.9	4.8	-8.1	-17.6	-16.0	-16.1	-10.5	-14.5	-13.4	-15.8	-11.9	0.4	-10.5		
2022	0.9	5.3	17.3	25.3	18.1	12.6	6.1	11.2	4.0	18.3	0.3	3.6	6.1		
	9.9	2.8	10.1	7.0	7.2	4.4	7.7	17.3	17.6	7.4	6.2	1.8	7.7		
Percentage change, latest quarter on previous quarter															
2020 Q3	KG7P	KH9C	L64U	L64X	L655	L652	KG7Q	KH9F	KH9G	KH9A	KH9H	KH9I	KG7Q		
Q4	11.0	-2.0	2.3	1.8	60.3	7.1	15.7	156.1	10.2	56.0	3.5	-2.3	15.7		
2021 Q1	2.8	1.4	6.9	12.4	3.4	12.1	3.2	2.1	7.4	3.5	2.5	1.5	3.2		
2021 Q2	-5.2	3.1	3.3	1.6	2.2	0.5	-1.6	-24.0	-3.5	2.3	-4.9	5.6	-1.6		
Q3	6.4	-1.0	15.8	8.5	2.5	3.1	4.0	30.2	-4.7	3.2	9.3	-0.7	4.0		
Q4	2.2	-3.8	-2.3	14.3	1.8	-	0.9	-4.5	16.0	1.6	-4.4	-0.3	0.9		
2022 Q1	-2.7	3.3	1.7	13.1	1.2	2.6	-0.4	1.9	-7.4	1.2	0.4	1.3	-0.4		
2022 Q2	4.5	18.8	5.4	-14.9	2.6	3.1	6.4	8.5	24.6	2.7	1.9	4.0	6.4		
Q3	6.9	-26.4	0.4	8.4	3.5	4.4	-0.6	-5.7	-10.3	3.3	4.1	-1.8	-0.6		
Q4	-3.2	15.4	1.8	3.6	0.6	-5.2	0.3	0.7	-1.9	0.7	2.1	-1.2	0.3		
	4.8	1.8	-1.9	-8.1	-3.3	-8.1	1.5	27.5	11.9	-3.2	-0.6	-3.1	1.5		
Percentage change, latest quarter on corresponding quarter of previous year															
2020 Q3	KG7S	KH9M	L64V	L64Y	L656	L653	KG7T	KH9P	KH9Q	KH9K	KH9R	KH9S	KG7T		
Q4	-13.7	7.1	-11.7	-25.7	-10.8	-19.0	-10.3	-1.5	-16.9	-10.8	-11.9	-4.0	-10.3		
2021 Q1	-12.0	9.2	-10.6	-11.8	-2.7	-6.3	-6.5	34.4	-10.0	-3.1	-12.3	-5.0	-6.5		
2021 Q2	-14.2	21.0	-2.7	-5.1	2.3	5.2	-4.4	-18.2	-4.7	2.9	-9.4	-1.1	-4.4		
Q3	15.1	1.5	30.9	26.1	73.6	24.5	22.3	158.8	8.8	70.5	10.2	4.0	22.3		
Q4	6.0	-0.4	25.0	41.6	10.3	16.2	6.6	-3.5	14.5	11.0	1.8	6.1	6.6		
2022 Q1	0.3	1.5	18.9	42.5	8.0	6.4	2.8	-3.6	-1.2	8.5	-0.3	5.9	2.8		
2022 Q2	10.5	16.9	21.3	19.4	8.3	9.1	11.3	37.5	27.5	9.0	6.8	4.2	11.3		
Q3	11.1	-13.0	5.2	19.3	9.3	10.5	6.3	-0.4	20.1	9.1	1.8	3.0	6.3		
Q4	5.1	4.3	9.7	8.1	8.1	4.7	5.7	5.0	1.6	8.2	8.7	2.1	5.7		
	13.2	2.8	5.7	-12.2	3.2	-6.3	7.8	31.4	22.7	3.4	7.6	-2.3	7.8		

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.

G1 Changes in inventories at current prices ¹

£ million

	Mining and quarrying	Manufacturing industries				Electricity, gas and water supply	Distributive trades			Changes in inventories ³
		Materials and fuel	Work in progress	Finished goods	Total		Wholesale ²	Retail ²	Other industries ³	
Level of inventories held at end-December 2019	523	29 536	18 593	18 752	66 881	362	43 222	37 226	59 058	207 272
2020	FAHS 77	FAGF -862	FADY -510	FALR -153	NZTP -1 525	FAGI -2 108	FBHE 1 973	FAHA -493	CWVD -775	CAEX -2 851
2021	-1 809	1 407	2 299	6 120	9 826	-512	5 888	2 928	-2 851	13 470
2022	..	..	..	..	..	..	..	..	..	31 656
Seasonally adjusted										
2020 Q3	-1 074	-521	304	-748	-965	-2 140	1 579	741	-813	-2 672
Q4	-150	-27	-494	605	84	108	2 053	1 104	6 426	9 625
2021 Q1	-984	-1 173	1 336	2 634	2 797	-506	885	952	766	3 910
Q2	-261	1 354	931	-218	2 067	851	699	938	-6 840	-2 546
Q3	-230	813	121	2 116	3 050	-1 072	1 532	1 078	862	5 220
Q4	-334	413	-89	1 588	1 912	215	2 772	-40	2 361	6 886
2022 Q1	-1 006	1 131	254	3 238	4 623	-1 062	5 237	5 048	-433	12 407
Q2	-446	-490	411	3 983	3 904	-2 078	5 648	2 986	-46	9 968
Q3	-203	1 265	-564	52	753	1 641	6 973	-1 323	-5 482	2 359
Q4	..	..	..	..	..	..	..	..	..	6 922

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

2 Wholesaling and retailing estimates exclude the motor trades.

3 Quarterly alignment adjustment included in this series

G2 Changes in inventories at chained volume measures¹

Reference year 2019, £ million

	Mining and quarrying	Manufacturing industries				Electricity, gas and water supply	Distributive trades		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	523	29 536	18 593	18 752	66 881	362	43 222	37 226	59 058	207 272
	FAEA	FBNF	FBNG	FBNH	DHBM	FAEB	FAJX	FBYN	DLWX	CAFU
2020	3 745	650	-4 531	-510	-4 391	1 111	2 782	-4 257	-10 375	-11 385
2021	-1 232	1 879	1 969	5 856	9 704	-521	6 244	2 542	-7 789	8 948
2022	..	..	..	..	..	..	..	..	..	9 788
Seasonally adjusted										
2020 Q3	313	-496	-2 719	-1 562	-4 777	-1 046	1 053	397	-788	-4 848
Q4	1 327	827	-872	1 005	960	1 363	2 828	168	644	7 290
2021 Q1	-641	-889	1 235	2 466	2 812	-303	1 026	910	830	4 634
Q2	-411	1 315	1 073	-178	2 210	900	776	878	-6 875	-2 522
Q3	571	1 225	123	2 366	3 714	-1 146	1 579	948	-1 228	4 438
Q4	-751	228	-462	1 202	968	28	2 863	-194	-516	2 398
2022 Q1	-1 606	931	360	2 738	4 029	-1 662	4 737	4 298	-946	8 850
Q2	-546	-1 030	-314	3 040	1 696	-2 306	5 349	2 562	-2 670	4 085
Q3	-307	490	-867	-1 255	-1 632	322	6 871	-1 788	-8 097	-4 631
Q4	..	..	..	..	..	..	..	..	..	1 484

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	307 181	309 605	616 786	440 711	168 518	609 229	-133 530	141 087	7 557
2021	323 555	330 729	654 284	492 769	189 554	682 323	-169 214	141 175	-28 039
2022	415 880	397 433	813 313	645 800	252 182	897 982	-229 920	145 251	-84 669
Seasonally adjusted									
2020 Q3	73 879	72 455	146 334	108 675	38 456	147 131	-34 796	33 999	-797
Q4	80 155	76 111	156 266	130 882	40 429	171 311	-50 727	35 682	-15 045
2021 Q1	72 555	78 361	150 916	115 147	41 671	156 818	-42 592	36 690	-5 902
Q2	83 628	78 489	162 117	118 612	43 784	162 396	-34 984	34 705	-279
Q3	78 037	79 430	157 467	127 147	46 512	173 659	-49 110	32 918	-16 192
Q4	89 335	94 449	183 784	131 863	57 587	189 450	-42 528	36 862	-5 666
2022 Q1	86 466	90 547	177 013	157 031	56 473	213 504	-70 565	34 074	-36 491
Q2	97 579	98 521	196 100	162 014	63 104	225 118	-64 435	35 417	-29 018
Q3	115 686	104 958	220 644	165 135	66 377	231 512	-49 449	38 581	-10 868
Q4	116 149	103 407	219 556	161 620	66 228	227 848	-45 471	37 179	-8 292
Percentage change, latest year on previous year									
	KG9K	KH35	KH2O	KG9L	KH3W	KH3H			
2020	-15.5	-7.9	-11.8	-13.9	-24.8	-17.2			
2021	5.3	6.8	6.1	11.8	12.5	12.0			
2022	28.5	20.2	24.3	31.1	33.0	31.6			
Percentage change, latest quarter on previous quarter									
	KG9O	KH36	KH2P	KG9P	KH3X	KH3I			
2020 Q3	2.8	-1.3	0.7	24.3	2.5	17.8			
Q4	8.5	5.0	6.8	20.4	5.1	16.4			
2021 Q1	-9.5	3.0	-3.4	-12.0	3.1	-8.5			
Q2	15.3	0.2	7.4	3.0	5.1	3.6			
Q3	-6.7	1.2	-2.9	7.2	6.2	6.9			
Q4	14.5	18.9	16.7	3.7	23.8	9.1			
2022 Q1	-3.2	-4.1	-3.7	19.1	-1.9	12.7			
Q2	12.9	8.8	10.8	3.2	11.7	5.4			
Q3	18.6	6.5	12.5	1.9	5.2	2.8			
Q4	0.4	-1.5	-0.5	-2.1	-0.2	-1.6			
Percentage change, latest quarter on corresponding quarter of previous year									
	KG9S	KH37	KH2Q	KG9T	KH3Y	KH3J			
2020 Q3	-19.9	-16.5	-18.2	-14.5	-33.3	-20.4			
Q4	-18.3	-11.9	-15.3	10.0	-28.4	-2.3			
2021 Q1	-10.7	-10.6	-10.6	1.3	-20.0	-5.4			
Q2	16.3	6.9	11.6	35.7	16.7	30.0			
Q3	5.6	9.6	7.6	17.0	20.9	18.0			
Q4	11.5	24.1	17.6	0.7	42.4	10.6			
2022 Q1	19.2	15.6	17.3	36.4	35.5	36.1			
Q2	16.7	25.5	21.0	36.6	44.1	38.6			
Q3	48.2	32.1	40.1	29.9	42.7	33.3			
Q4	30.0	9.5	19.5	22.6	15.0	20.3			

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

H2 Exports and imports of goods and services

Chained volume measures

Reference year 2019, £ million

	Exports			Imports			Balance
	Goods	Services	Total	Goods	Services	Total	Total ¹
	BQKQ	IKBE	IKBK	BQKO	IKBF	IKBL	IKBM
2020	316 266	298 843	615 109	448 866	168 846	617 712	-2 603
2021	316 748	312 170	628 918	472 350	183 616	655 966	-27 048
2022	348 908	344 702	693 610	522 714	216 009	738 723	-45 113
Seasonally adjusted							
2020 Q3	75 584	70 469	146 053	111 108	38 825	149 933	-3 880
Q4	81 941	72 938	154 879	132 205	40 197	172 402	-17 523
2021 Q1	73 421	74 944	148 365	114 079	41 132	155 211	-6 846
Q2	82 688	75 152	157 840	116 778	43 178	159 956	-2 116
Q3	76 511	75 127	151 638	121 545	45 438	166 983	-15 345
Q4	84 128	86 947	171 075	119 948	53 868	173 816	-2 741
2022 Q1	76 923	82 826	159 749	135 808	50 693	186 501	-26 752
Q2	80 987	87 087	168 074	132 575	54 268	186 843	-18 769
Q3	95 086	88 751	183 837	125 603	55 729	181 332	2 505
Q4	95 912	86 038	181 950	128 728	55 319	184 047	-2 097
Percentage change, latest year on previous year							
	KG9X	KH3B	KH2U	KG9W	KH44	KH3N	
2020	-13.0	-11.1	-12.1	-12.3	-24.7	-16.0	
2021	0.2	4.5	2.2	5.2	8.7	6.2	
2022	10.2	10.4	10.3	10.7	17.6	12.6	
Percentage change, latest quarter on previous quarter							
	KGA2	KH3C	KH2V	KG9Z	KH45	KH3O	
2020 Q3	-1.1	0.5	-0.3	22.2	5.6	17.4	
Q4	8.4	3.5	6.0	19.0	3.5	15.0	
2021 Q1	-10.4	2.8	-4.2	-13.7	2.3	-10.0	
Q2	12.6	0.3	6.4	2.4	5.0	3.1	
Q3	-7.5	-	-3.9	4.1	5.2	4.4	
Q4	10.0	15.7	12.8	-1.3	18.6	4.1	
2022 Q1	-8.6	-4.7	-6.6	13.2	-5.9	7.3	
Q2	5.3	5.1	5.2	-2.4	7.1	0.2	
Q3	17.4	1.9	9.4	-5.3	2.7	-2.9	
Q4	0.9	-3.1	-1.0	2.5	-0.7	1.5	
Percentage change, latest quarter on corresponding quarter of previous year							
	KGA5	KH3D	KH2W	KGA4	KH46	KH3P	
2020 Q3	-17.0	-18.4	-17.6	-11.0	-31.8	-17.5	
Q4	-17.1	-14.7	-16.0	9.9	-28.8	-2.5	
2021 Q1	-10.8	-12.1	-11.5	-0.5	-22.5	-7.4	
Q2	8.2	7.1	7.7	28.4	17.4	25.3	
Q3	1.2	6.6	3.8	9.4	17.0	11.4	
Q4	2.7	19.2	10.5	-9.3	34.0	0.8	
2022 Q1	4.8	10.5	7.7	19.0	23.2	20.2	
Q2	-2.1	15.9	6.5	13.5	25.7	16.8	
Q3	24.3	18.1	21.2	3.3	22.6	8.6	
Q4	14.0	-1.0	6.4	7.3	2.7	5.9	

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

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	196 184	76 972	50 137	10 755	43 169	51 095	46 802	475 114
2021	213 524	82 135	49 825	11 470	45 559	56 803	48 878	508 194
2022	211 582	84 429	50 234	12 679	48 485	64 392	53 136	524 937
2020 Q3	51 047	19 096	12 566	2 661	10 812	13 137	11 905	121 224
Q4	52 522	19 880	12 952	2 715	10 900	12 685	12 046	123 700
2021 Q1	55 046	19 788	13 046	3 022	11 335	14 040	12 408	128 685
Q2	52 950	20 627	12 146	2 719	11 553	13 889	11 973	125 857
Q3	52 366	20 646	12 272	2 950	11 157	14 517	12 177	126 085
Q4	53 162	21 074	12 361	2 779	11 514	14 357	12 320	127 567
2022 Q1	56 543	21 124	12 268	2 942	11 767	15 626	12 667	132 937
Q2	50 209	20 800	12 500	3 047	11 821	15 874	13 306	127 557
Q3	52 057	21 212	12 692	3 036	12 386	16 371	13 461	131 215
Q4	52 773	21 293	12 774	3 654	12 511	16 521	13 702	133 228

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	142 939	58 522	47 412	9 257	42 513	48 917	44 900	394 460
2021	177 336	66 126	48 668	9 372	44 107	52 919	45 379	443 907
2022	171 086	71 366	49 258	9 696	45 038	58 008	47 908	452 360
2020 Q3	35 896	15 900	11 887	2 229	10 658	12 679	11 414	100 663
Q4	39 242	17 049	11 952	2 280	10 660	11 980	11 367	104 530
2021 Q1	41 009	13 323	11 964	2 294	11 058	13 388	11 341	104 377
Q2	44 692	17 527	12 094	2 364	11 272	13 026	11 417	112 392
Q3	44 990	17 654	12 242	2 334	10 782	13 442	11 410	112 854
Q4	46 645	17 622	12 368	2 380	10 995	13 063	11 211	114 284
2022 Q1	44 672	17 597	12 335	2 448	11 156	14 445	11 160	113 813
Q2	41 911	17 881	12 321	2 417	11 085	14 267	12 278	112 160
Q3	41 989	18 081	12 325	2 414	11 480	14 342	12 116	112 747
Q4	42 514	17 807	12 277	2 417	11 317	14 954	12 354	113 640

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	1 788 734	1 903 575	1 903 575	–	95.2	95.2	89.4	89.4	89.4
2021	1 930 605	2 034 323	2 042 031	–7 708	101.7	102.1	96.5	96.9	96.1
2022	1 990 097	2 212 238	2 258 247	–46 009	110.6	112.9	99.5	101.6	100.2
Seasonally adjusted									
2020 Q3	452 466	483 375	483 375	–	96.7	96.7	90.5	90.5	90.5
Q4	458 818	484 671	484 671	–	96.9	96.9	91.8	91.8	91.8
2021 Q1	454 977	486 084	484 908	1 176	97.2	97.0	91.0	90.8	90.7
Q2	485 023	505 317	505 596	–279	101.1	101.1	97.0	97.0	96.3
Q3	492 405	516 086	518 557	–2 471	103.2	103.7	98.5	98.9	97.9
Q4	498 200	526 836	532 970	–6 134	105.4	106.6	99.6	100.8	99.4
2022 Q1	498 208	536 212	546 528	–10 316	107.2	109.3	99.6	101.6	100.0
Q2	497 720	544 702	556 421	–11 719	108.9	111.3	99.5	101.7	100.2
Q3	496 919	553 126	565 033	–11 907	110.6	113.0	99.4	101.5	100.0
Q4	497 250	578 198	590 265	–12 067	115.6	118.0	99.4	101.5	100.0
Percentage change, latest year on previous year									
	KH4D	KH47	KH68		KH47	KH68	KH4D	KH6E	GDPQ
2020	–10.6	–4.8	–4.8		–4.8	–4.8	–10.6	–10.6	–10.6
2021	7.9	6.9	7.3		6.9	7.3	7.9	8.3	7.4
2022	3.1	8.7	10.6		8.7	10.6	3.1	4.8	4.1
Percentage change, latest quarter on previous quarter									
	KH4F	KH49	KH6A		KH49	KH6A	KH4F	KH6G	
2020 Q3	16.8	11.6	11.6		11.6	11.6	16.8	16.8	16.8
Q4	1.4	0.3	0.3		0.3	0.3	1.4	1.4	1.4
2021 Q1	–0.8	0.3	–		0.3	–	–0.8	–1.1	–1.2
Q2	6.6	4.0	4.3		4.0	4.3	6.6	6.9	6.2
Q3	1.5	2.1	2.6		2.1	2.6	1.5	2.0	1.7
Q4	1.2	2.1	2.8		2.1	2.8	1.2	1.9	1.5
2022 Q1	–	1.8	2.5		1.8	2.5	–	0.8	0.5
Q2	–0.1	1.6	1.8		1.6	1.8	–0.1	0.1	0.2
Q3	–0.2	1.5	1.5		1.5	1.5	–0.2	–0.2	–0.2
Q4	0.1	4.5	4.5		4.5	4.5	0.1	–	–
Percentage change, latest quarter on corresponding quarter of previous year									
	KH4H	KH4B	KH6C		KH4B	KH6C	KH4H	KH6I	GDPR
2020 Q3	–9.9	–3.9	–3.9		–3.9	–3.9	–9.9	–9.9	–9.9
Q4	–8.6	–4.6	–4.6		–4.6	–4.6	–8.6	–8.6	–8.6
2021 Q1	–7.2	–3.3	–3.5		–3.3	–3.5	–7.2	–7.4	–7.5
Q2	25.2	16.7	16.7		16.7	16.7	25.2	25.3	24.3
Q3	8.8	6.8	7.3		6.8	7.3	8.8	9.4	8.2
Q4	8.6	8.7	10.0		8.7	10.0	8.6	9.9	8.3
2022 Q1	9.5	10.3	12.7		10.3	12.7	9.5	11.9	10.2
Q2	2.6	7.8	10.1		7.8	10.1	2.6	4.8	4.1
Q3	0.9	7.2	9.0		7.2	9.0	0.9	2.6	2.1
Q4	–0.2	9.7	10.8		9.7	10.8	–0.2	0.7	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			
2020 Q3	DMUN 294	DMUM 249	DMUQ 2 011
Q4	3 170	2 970	-1 373
2021 Q1	1 299	1 217	-1 793
Q2	-2 878	-2 739	2 041
Q3	1 475	1 411	615
Q4	104	111	-863
2022 Q1	-1 908	-1 721	-4 244
Q2	-1 569	-1 376	-2 110
Q3	-3 267	-2 862	-2 744
Q4	6 744	5 959	9 098

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 2021/2022 = 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
2019/20	2 247 114	2 249 423	2 010 462	431 584	60 916	2 227 405	1 992 532	425 034	59 445	94.7815
2020/21	2 087 594	2 085 204	1 886 219	494 904	68 703	1 949 179	1 752 685	394 749	66 702	100.7205
2021/22	2 337 880	2 337 757	2 088 775	512 446	74 454	2 195 844	1 977 796	453 343	70 023	100.0000
Seasonally adjusted										
2020 Q3	534 171	524 344	483 375	121 224	16 750	503 509	452 466	100 663	16 350	99.6629
Q4	539 666	545 846	484 671	123 700	17 269	509 621	458 818	104 530	16 582	99.4805
2021 Q1	537 907	540 636	485 105	128 685	17 344	504 255	454 059	104 377	17 089	100.2115
Q2	562 248	560 954	504 141	125 857	17 791	537 175	483 899	112 392	16 926	98.3269
Q3	577 356	569 158	515 938	126 085	17 454	546 487	492 265	112 854	16 284	99.2486
Q4	592 735	599 498	528 487	127 567	18 140	554 821	499 745	114 284	16 828	100.3617
2022 Q1	605 541	608 147	540 209	132 937	21 069	557 361	501 887	113 813	19 985	102.0628
Q2	616 257	613 879	549 738	127 557	17 844	557 938	502 279	112 160	14 718	103.7615
Q3	626 083	626 934	558 243	131 215	18 921	557 023	501 472	112 747	16 988	105.5891
Q4	634 246	633 167	583 385	133 228	20 649	557 099	501 804	113 640	17 299	106.9896
Percentage change, latest financial year on previous financial year										
2019/20	3.2	3.3	3.5	7.2	3.4	0.6	0.8	3.3	-0.7	2.6
2020/21	-7.1	-7.3	-6.2	14.7	12.8	-12.5	-12.0	-7.1	12.2	6.3
2021/22	12.0	12.1	10.7	3.5	8.4	12.7	12.8	14.8	5.0	-0.7
Percentage change, latest quarter on previous quarter										
	IHYN	A8L9	KGL8	KH2D	KH7P	IHYQ	KGM9	KH2J	KH9C	L8GH
2020 Q3	12.3	10.5	11.6	-0.1	-3.4	16.6	16.8	18.2	-2.0	-3.7
Q4	1.0	4.1	0.3	2.0	3.1	1.2	1.4	3.8	1.4	-0.2
2021 Q1	-0.3	-1.0	0.1	4.0	0.4	-1.1	-1.0	-0.1	3.1	0.7
Q2	4.5	3.8	3.9	-2.2	2.6	6.5	6.6	7.7	-1.0	-1.9
Q3	2.7	1.5	2.3	0.2	-1.9	1.7	1.7	0.4	-3.8	0.9
Q4	2.7	5.3	2.4	1.2	3.9	1.5	1.5	1.3	3.3	1.1
2022 Q1	2.2	1.4	2.2	4.2	16.1	0.5	0.4	-0.4	18.8	1.7
Q2	1.8	0.9	1.8	-4.0	-15.3	0.1	0.1	-1.5	-26.4	1.7
Q3	1.6	2.1	1.5	2.9	6.0	-0.2	-0.2	0.5	15.4	1.8
Q4	1.3	1.0	4.5	1.5	9.1	-	0.1	0.8	1.8	1.3
Percentage change, latest quarter on corresponding quarter of previous year										
	IHYO	A8LA	KGM2	KH2E	KH7R	IHYR	KGN3	KH2K	KH9M	L8GI
2020 Q3	-5.2	-6.0	-3.9	12.7	7.8	-10.3	-9.9	-5.5	7.1	5.8
Q4	-4.9	-5.2	-4.6	13.1	10.1	-9.2	-8.6	-3.0	9.2	4.7
2021 Q1	-3.9	-4.3	-3.5	18.2	18.6	-7.7	-7.4	0.3	21.0	4.1
Q2	18.2	18.3	16.4	3.8	2.6	24.4	24.9	31.9	1.5	-5.0
Q3	8.1	8.5	6.7	4.0	4.2	8.5	8.8	12.1	-0.4	-0.4
Q4	9.8	9.8	9.0	3.1	5.0	8.9	8.9	9.3	1.5	0.9
2022 Q1	12.6	12.5	11.4	3.3	21.5	10.5	10.5	9.0	16.9	1.8
Q2	9.6	9.4	9.0	1.4	0.3	3.9	3.8	-0.2	-13.0	5.5
Q3	8.4	10.2	8.2	4.1	8.4	1.9	1.9	-0.1	4.3	6.4
Q4	7.0	5.6	10.4	4.4	13.8	0.4	0.4	-0.6	2.8	6.6

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 2021/2022 = 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	93.6206	95.3422	95.9809
2021	93.8042	95.1591	94.8092
2022	100.0000	100.0000	100.0000
Seasonally adjusted			
2020 Q3	93.3750	95.2793	96.1009
Q4	93.1926	95.1050	95.0246
2021 Q1	94.2292	95.8038	96.1065
Q2	92.3777	94.0021	93.7188
Q3	93.5607	94.8832	94.2818
Q4	95.0492	95.9474	95.1295
2022 Q1	97.3499	97.5736	96.8245
Q2	99.1009	99.1977	98.4555
Q3	101.7447	100.9449	100.1396
Q4	101.8044	102.2838	104.5804
Percentage change, latest year on previous year			
	MNE3	MNF3	MNX6
2020	5.7	6.2	6.7
2021	0.2	-0.2	-1.2
2022	6.6	5.1	5.5
Percentage change, latest quarter on previous quarter			
	MNE4	MNF4	MNX7
2020 Q3	-4.4	-3.7	-4.4
Q4	-0.2	-0.2	-1.1
2021 Q1	1.1	0.7	1.1
Q2	-2.0	-1.9	-2.5
Q3	1.3	0.9	0.6
Q4	1.6	1.1	0.9
2022 Q1	2.4	1.7	1.8
Q2	1.8	1.7	1.7
Q3	2.7	1.8	1.7
Q4	0.1	1.3	4.4
Percentage change, latest quarter on corresponding quarter of previous year			
	MNE5	MNF5	MNX8
2020 Q3	4.9	5.8	6.6
Q4	4.3	4.7	4.4
2021 Q1	4.4	4.1	4.2
Q2	-5.4	-5.0	-6.8
Q3	0.2	-0.4	-1.9
Q4	2.0	0.9	0.1
2022 Q1	3.3	1.8	0.7
Q2	7.3	5.5	5.1
Q3	8.7	6.4	6.2
Q4	7.1	6.6	9.9

1 Implied deflator is expressed in terms of 2022 = 100, whereas in table A1 it is expressed as 2019 = 100.

2 Data are only considered accurate to 1 decimal place.

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

P GDP Per Head¹

£

	UK resident population mid-year estimates (persons thousands) ²	Current Prices		Chained volume measures (Reference year 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	2 109 594	31 448	1 991 439	29 687
2021	67 351	2 270 246	33 708	2 142 738	31 814
2022	67 791	2 482 127	36 614	2 229 421	32 887
Seasonally adjusted					
2020 Q3	67 148	534 171	7 955	503 509	7 498
Q4	67 216	539 666	8 029	509 621	7 582
2021 Q1	67 283	537 907	7 995	504 255	7 495
Q2	67 351	562 248	8 348	537 175	7 976
Q3	67 412	577 356	8 565	546 487	8 107
Q4	67 473	592 735	8 785	554 821	8 223
2022 Q1	67 681	605 541	8 947	557 361	8 235
Q2	67 791	616 257	9 091	557 938	8 230
Q3	67 804	626 083	9 234	557 023	8 215
Q4	67 818	634 246	9 352	557 099	8 215
Percentage change, latest year on previous year					
		IHYM	N3Y3	IHYP	N3Y6
2020		-5.8	-6.2	-11.0	-11.4
2021		7.6	7.2	7.6	7.2
2022		9.3	8.6	4.0	3.4
Percentage change, latest quarter on previous quarter					
		IHYN	N3Y4	IHYQ	N3Y7
2020 Q3		12.3	12.1	16.6	16.5
Q4		1.0	0.9	1.2	1.1
2021 Q1		-0.3	-0.4	-1.1	-1.1
Q2		4.5	4.4	6.5	6.4
Q3		2.7	2.6	1.7	1.6
Q4		2.7	2.6	1.5	1.4
2022 Q1		2.2	1.8	0.5	0.1
Q2		1.8	1.6	0.1	-0.1
Q3		1.6	1.6	-0.2	-0.2
Q4		1.3	1.3	-	-
Percentage change, latest quarter on corresponding quarter of previous year					
		IHYO	N3Y5	IHYR	N3Y8
2020 Q3		-5.2	-5.5	-10.3	-10.7
Q4		-4.9	-5.3	-9.2	-9.6
2021 Q1		-3.9	-4.3	-7.7	-8.1
Q2		18.2	17.7	24.4	23.9
Q3		8.1	7.7	8.5	8.1
Q4		9.8	9.4	8.9	8.5
2022 Q1		12.6	11.9	10.5	9.9
Q2		9.6	8.9	3.9	3.2
Q3		8.4	7.8	1.9	1.3
Q4		7.0	6.5	0.4	-0.1

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

2 In line with National accounts revision policy (<https://www.ons.gov.uk/methodology/methodologytopicsandstatisticalconcepts/revisions/revisionspoliciesforeconomicstatistics/nationalaccountsrevisionspolicyupdateddecember2017>), 2022 now consistent with mid-year population projection as published on 27 January 2023 <https://www.ons.gov.uk/peoplepopulationandcommunity/populationandmigration/populationprojections/datasets/tablea11principalprojectionuksummary>. 2021 will be updated in quarterly national accounts with the latest population estimate.

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

R Revisions Analysis

Revisions since previously published estimates¹

continued

£ million

		2022 Q1	2022 Q2	2022 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	-864	263	74
less Basic price adjustment	KB7E	216	76	609
Gross value added at basic prices	KB7F	-1 080	187	-535
Gross domestic product:				
expenditure at current prices (Table C1)				
National expenditure on goods and services				
at market prices				
Households	KB7K	182	-77	2 878
Non-profit institutions serving households	KB7L	-	3	-
General government	KB7M	111	-108	-154
Gross fixed capital formation	KB7N	1 404	1 983	882
Changes in inventories	KB7O	-2 274	-4 609	-5 281
Acquisitions less disposals of valuables	KB7P	-91	8	-16
Total	KB7Q	-668	-2 800	-1 691
Total exports	KB7R	-1 912	318	1 578
Total imports	KB7S	-835	-876	1 711
Statistical discrepancy (expenditure)	KB7T	881	1 869	1 898
Gross domestic product:				
income at current prices (Table D)				
Compensation of employees	KB7U	-18	-29	-199
Gross operating surplus of corporations	KB7V	-1 578	78	-513
Other income	KB7W	392	338	246
Gross value added at factor cost	KB7X	-1 204	387	-466
Taxes on products & production less Subsidies	KB7Y	482	283	952
Statistical discrepancy (income)	KB7Z	-142	-407	-412
		2022 Q1	2022 Q2	2022 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	-0.1	-	0.1
Quarter on same quarter a year earlier	KB94	-0.2	-0.1	-
Percentage changes in volume				
of GVA output components (Table B1)				
GVA at basic prices quarter on quarter growth				
Agriculture, forestry and fishing	KB83	-	-	-
Mining and quarrying inc oil & gas extraction	KB84	-0.1	0.2	-
Manufacturing	KB85	0.3	-0.1	-0.1
Electricity, gas, steam and air	KB86	0.1	1.5	0.6
Water supply, sewerage	KNT7	0.3	0.1	-0.2
Total Production	KB87	0.2	0.1	-0.1
Construction	KB88	-0.1	0.4	0.5
Distribution, hotels and catering; repairs	KB89	-0.3	0.3	0.1
Transport storage and communications	KB8A	-0.1	0.5	0.9
Business services and finance	KB8B	-0.2	-	-
Government and other services	KB8C	-0.1	-0.1	0.1
Total services	KB8D	-0.1	0.2	0.1
Total GVA	KB8E	-0.2	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	0.2	-0.5	0.7
Non-profit institutions serving households	KB8H	1.4	-0.4	-
General government	KB8I	0.2	-0.1	-
Gross fixed capital formation	KB8J	1.6	1.1	-0.8
Total	KB8K	0.1	-0.4	0.2
Total exports	KB8L	-1.6	1.4	0.5
Total imports	KB8M	-0.2	0.1	0.7

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

AA Annex A - Growth and contributions to growth - output components of GDP¹

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 & catering	Transport storage and commu- nications	Business services and finance	Govern- ment and other services
Percentage change, latest year on previous year												
Growth												
	L3BB	L3BG	L3BH	L3BN	L3DM	L3DQ	L3DW	L3E2	L3GP	KI8L	KI8N	KI8P
2020	-3.5	1.2	-3.2	0.1	9.1	4.8	-13.5	-12.4	-23.3	-12.5	-3.2	-19.8
2021	5.8	7.3	-11.7	9.7	5.1	7.8	13.1	7.0	8.7	7.4	4.8	10.3
2022	3.5	-3.6	1.6	-4.8	-3.5	2.0	5.6	5.5	5.6	9.5	3.3	7.3
Contributions to growth²												
	ZZ3V	ZZ3W	ZZ3Y	ZZ3X	ZZ3Z	ZZ42	ZZ43	ZZ44	ZZ45	ZZ46	ZZ47	ZZ48
2020	-0.02	0.17	-0.04	0.01	0.13	0.06	-0.84	-9.87	-3.13	-1.29	-1.08	-4.37
2021	0.04	0.97	-0.09	0.93	0.08	0.10	0.74	5.64	1.06	0.74	1.83	2.29
2022	0.03	-0.50	0.01	-0.48	-0.06	0.03	0.34	4.58	0.76	0.98	1.29	1.80
Percentage change, latest quarter on previous quarter												
Growth												
	L3BB	L3BG	L3BH	L3BN	L3DM	L3DQ	L3DW	L3E2	L3GP	KI8L	KI8N	KI8P
2020 Q3	5.2	18.1	-2.9	24.3	9.8	6.1	41.9	15.0	47.4	14.3	3.3	24.4
Q4	0.5	4.1	-1.8	5.9	-1.8	2.3	5.1	0.6	-9.2	2.3	2.0	3.2
2021 Q1	2.1	-	-4.9	-0.7	5.2	2.7	1.1	-1.7	-7.8	-0.1	2.1	-5.5
Q2	2.3	0.3	-18.8	1.3	4.4	0.5	3.8	7.7	22.0	3.7	1.2	14.8
Q3	3.7	-0.4	24.4	-0.9	-9.5	0.9	-1.6	2.4	4.9	2.0	0.9	3.9
Q4	0.2	-1.4	-3.4	-1.3	-3.5	2.0	1.4	2.1	-1.8	3.6	1.7	4.4
2022 Q1	0.6	-0.3	1.9	-1.3	4.1	0.9	3.0	0.5	-0.2	3.8	0.5	-0.8
Q2	0.7	-1.2	-2.6	-1.4	0.2	-	1.5	0.4	0.6	0.7	0.8	-0.8
Q3	-	-2.6	-1.3	-2.9	-1.5	-2.3	0.3	0.2	-0.7	0.9	0.1	0.5
Q4	-0.6	-0.2	-1.6	-	-1.3	0.7	0.3	-	0.1	-1.0	0.4	-0.1
Contributions to growth²												
	ZZ2F	ZZ2G	ZZ2I	ZZ2H	ZZ2J	ZZ2K	ZZ2L	ZZ2M	ZZ2N	ZZ2O	ZZ2P	ZZ2Q
2020 Q3	0.04	2.81	-0.04	2.56	0.19	0.10	2.14	11.81	4.65	1.44	1.32	4.38
Q4	-	0.64	-0.02	0.66	-0.03	0.03	0.32	0.45	-1.14	0.24	0.72	0.62
2021 Q1	0.01	-	-0.04	-0.07	0.08	0.03	0.06	-1.32	-0.95	-0.01	0.67	-1.34
Q2	0.02	0.04	-0.13	0.14	0.07	0.01	0.23	6.05	2.45	0.37	0.53	3.24
Q3	0.03	-0.05	0.13	-0.09	-0.15	0.01	-0.09	1.91	0.61	0.20	0.38	0.92
Q4	-	-0.17	-0.02	-0.12	-0.05	0.02	0.08	1.68	-0.24	0.34	0.60	1.07
2022 Q1	-	-0.04	0.02	-0.12	0.06	0.01	0.18	0.42	-0.01	0.42	0.19	-0.19
Q2	0.01	-0.15	-0.02	-0.13	-	-	0.09	0.30	0.08	0.07	0.28	-0.18
Q3	-	-0.34	-0.01	-0.27	-0.02	-0.03	0.02	0.20	-0.09	0.10	0.07	0.14
Q4	-	-0.03	-0.01	-	-0.02	0.01	0.02	0.04	0.04	-0.10	0.15	-0.04
Percentage change, latest quarter on corresponding quarter of previous year												
Growth												
	L3ZZ	L426	L427	L42D	L44C	L44G	L44M	L44Q	L47F	KI12	KI19	KI18
2020 Q3	-5.8	4.7	-2.0	4.2	12.1	5.8	-10.4	-12.4	-16.4	-12.6	-4.8	-21.3
Q4	-6.8	7.3	0.4	9.0	1.0	8.3	-5.2	-11.7	-22.4	-9.4	-3.2	-19.3
2021 Q1	-4.1	6.3	-7.0	7.1	9.4	6.9	-2.6	-10.4	-22.1	-6.1	-1.4	-20.0
Q2	10.5	23.3	-26.4	32.4	18.5	11.9	56.5	22.5	50.5	21.1	8.9	39.4
Q3	8.9	3.9	-5.7	5.6	-2.3	6.4	8.5	9.1	7.1	8.1	6.3	16.3
Q4	8.6	-1.5	-7.2	-1.5	-4.1	6.2	4.7	10.7	15.8	9.5	6.0	17.7
2022 Q1	6.9	-1.8	-0.6	-2.1	-5.0	4.4	6.7	13.1	25.3	13.8	4.3	23.4
Q2	5.3	-3.2	19.2	-4.7	-8.9	3.8	4.3	5.4	3.4	10.5	3.9	6.7
Q3	1.5	-5.3	-5.4	-6.7	-0.9	0.5	6.3	3.2	-2.1	9.4	3.1	3.3
Q4	0.7	-4.2	-3.6	-5.6	1.5	-0.7	5.1	1.2	-0.1	4.6	1.8	-1.2
Contributions to growth²												
	ZZ36	ZZ37	ZZ39	ZZ38	ZZ3A	ZZ3B	ZZ3C	ZZ3D	ZZ3E	ZZ3F	ZZ3G	ZZ3H
2020 Q3	-0.04	0.64	-0.02	0.41	0.18	0.07	-0.65	-9.84	-2.19	-1.30	-1.58	-4.72
Q4	-0.05	1.00	-	0.88	0.02	0.10	-0.32	-9.26	-2.93	-0.95	-1.02	-4.29
2021 Q1	-0.03	0.77	-0.05	0.64	0.13	0.08	-0.15	-8.47	-2.95	-0.60	-0.31	-5.19
Q2	0.08	3.11	-0.24	3.03	0.31	0.17	2.68	18.27	5.32	2.12	3.48	8.21
Q3	0.06	0.53	-0.04	0.56	-0.04	0.08	0.49	7.24	0.93	0.82	2.31	3.60
Q4	0.06	-0.21	-0.05	-0.16	-0.06	0.08	0.28	8.48	1.86	0.94	2.23	3.98
2022 Q1	0.06	-0.26	-0.01	-0.23	-0.09	0.06	0.43	10.73	3.03	1.44	1.85	5.24
Q2	0.04	-0.44	0.14	-0.48	-0.16	0.05	0.26	4.49	0.46	1.07	1.51	1.65
Q3	0.01	-0.72	-0.05	-0.66	-0.01	0.01	0.38	2.68	-0.28	0.95	1.17	0.85
Q4	0.01	-0.56	-0.03	-0.53	0.02	-0.01	0.30	0.96	0.02	0.49	0.69	-0.26

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

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

on the difference between the 3 measures can be found in the Short Guide to National Accounts

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

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

Chained Volume Measures

Seasonally adjusted data

Reference year 2019

	Final consumption expenditure								Net trade
	Households	Non-profit institutions ³	General government	Gross capital formation	Gross fixed capital formation	Business investment	Total exports	less Total imports	
Percentage change, latest year on previous year									
Growth									
	KGZ5	KH26	KH2I	ZZ6H	KG7N	KG7M	KH2U	KH3N	
2020	-12.9	-19.2	-7.3	-14.6	-10.5	-11.9	-12.1	-16.0	
2021	6.3	5.2	12.5	14.0	6.1	0.9	2.2	6.2	
2022	5.3	8.9	1.9	1.5	7.7	9.9	10.3	12.6	
Contributions to growth									
	ZZ6M	ZZ6N	ZZ6O	ZZ6P	ZZ6Q	ZZ6R	ZZ6S	ZZ6T	ZZ6U
2020	-8.02	-0.45	-1.39	-2.67	-1.89	-1.19	-3.78	-5.28	1.50
2021	3.62	0.12	2.82	2.41	1.06	0.09	0.66	1.79	-1.13
2022	3.10	0.19	0.43	0.28	1.34	0.90	2.96	3.79	-0.83
Percentage change, latest quarter on previous quarter									
Growth									
	KGZ6	KH27	KH2J	ZZ5H	KG7Q	KG7P	KH2V	KH3O	
2020 Q3	19.1	18.3	18.2	46.5	15.7	11.0	-0.3	17.4	
Q4	-1.5	2.9	3.8	23.1	3.2	2.8	6.0	15.0	
2021 Q1	-3.4	-9.0	-0.1	-3.4	-1.6	-5.2	-4.2	-10.0	
Q2	10.2	16.0	7.7	-10.6	4.0	6.4	6.4	3.1	
Q3	2.9	2.3	0.4	12.3	0.9	2.2	-3.9	4.4	
Q4	0.2	0.6	1.3	-7.8	-0.4	-2.7	12.8	4.1	
2022 Q1	1.0	1.6	-0.4	22.3	6.4	4.5	-6.6	7.3	
Q2	0.7	2.3	-1.5	-7.8	-0.6	6.9	5.2	0.2	
Q3	-0.4	0.3	0.5	-19.8	0.3	-3.2	9.4	-2.9	
Q4	0.1	-0.2	0.8	3.7	1.5	4.8	-1.0	1.5	
Contributions to growth									
	ZZ5M	ZZ5N	ZZ5O	ZZ5P	ZZ5Q	ZZ5R	ZZ5S	ZZ5T	ZZ5U
2020 Q3	11.47	0.37	3.59	6.44	2.87	1.12	-0.11	5.15	-5.26
Q4	-0.91	0.06	0.77	4.01	0.59	0.27	1.75	4.46	-2.71
2021 Q1	-1.92	-0.21	-0.03	-0.71	-0.29	-0.49	-1.21	-3.14	1.93
Q2	5.62	0.34	1.81	-2.15	0.71	0.57	1.78	0.88	0.90
Q3	1.65	0.05	0.10	2.10	0.16	0.20	-1.09	1.22	-2.31
Q4	0.12	0.01	0.30	-1.47	-0.07	-0.25	3.37	1.16	2.20
2022 Q1	0.57	0.04	-0.09	3.81	1.08	0.39	-2.00	2.24	-4.25
Q2	0.39	0.05	-0.32	-1.61	-0.10	0.63	1.47	0.06	1.41
Q3	-0.22	0.01	0.11	-3.80	0.05	-0.31	2.77	-0.97	3.74
Q4	0.07	-0.01	0.17	0.56	0.28	0.45	-0.33	0.48	-0.81
Percentage change, latest quarter on corresponding quarter of previous year									
Growth									
	KGZ7	KH28	KH2K	ZZ5Y	KG7T	KG7S	KH2W	KH3P	
2020 Q3	-11.1	-20.6	-5.5	-11.6	-10.3	-13.7	-17.6	-17.5	
Q4	-12.2	-14.5	-3.0	23.5	-6.5	-12.0	-16.0	-2.5	
2021 Q1	-12.6	-19.6	0.3	10.6	-4.4	-14.2	-11.5	-7.4	
Q2	24.9	28.4	31.9	55.7	22.3	15.1	7.7	25.3	
Q3	7.9	11.1	12.1	19.4	6.6	6.0	3.8	11.4	
Q4	9.7	8.7	9.3	-10.6	2.8	0.3	10.5	0.8	
2022 Q1	14.7	21.4	9.0	13.2	11.3	10.5	7.7	20.2	
Q2	4.8	7.1	-0.2	16.8	6.3	11.1	6.5	16.8	
Q3	1.5	4.9	-0.1	-16.6	5.7	5.1	21.2	8.6	
Q4	1.4	4.0	-0.6	-6.2	7.8	13.2	6.4	5.9	
Contributions to growth									
	ZZ65	ZZ66	ZZ67	ZZ68	ZZ69	ZZ6A	ZZ6B	ZZ6C	ZZ6D
2020 Q3	-6.84	-0.48	-1.05	-2.05	-1.86	-1.38	-5.57	-5.67	0.09
Q4	-7.50	-0.33	-0.57	3.65	-1.16	-1.21	-5.24	-0.77	-4.46
2021 Q1	-7.36	-0.47	0.06	1.79	-0.74	-1.38	-3.34	-2.12	-1.22
Q2	14.16	0.63	7.17	7.59	3.89	1.47	2.48	6.96	-4.48
Q3	4.58	0.25	2.75	3.31	1.14	0.56	1.05	3.15	-2.10
Q4	5.51	0.20	2.18	-2.20	0.50	0.03	3.01	0.26	2.75
2022 Q1	8.34	0.43	2.02	2.69	2.00	0.96	2.22	6.09	-3.88
Q2	2.81	0.16	-0.05	2.87	1.10	1.00	1.87	4.91	-3.04
Q3	0.87	0.11	-0.02	-3.13	0.98	0.47	5.79	2.58	3.21
Q4	0.81	0.09	-0.13	-1.07	1.32	1.16	1.92	1.81	0.11

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				
	KG13	KH4V	KH6T	KH65
2020	0.4	-0.1	-	-50.1
2021	6.0	2.9	3.0	58.3
2022	7.2	10.4	7.5	30.3
Contributions to growth				
	ZZ7H	ZZ7I	ZZ7J	ZZ7K
2020	0.21	-0.02	-	-5.99
2021	3.11	0.67	0.57	3.64
2022	3.69	2.27	1.36	2.78
Percentage change, latest quarter on previous quarter				
Growth				
	KG14	KH4W	KH6U	KH66
2020 Q3	2.5	11.1	0.4	-904.0
Q4	2.6	-6.2	0.8	16.3
2021 Q1	-	0.8	1.4	-10.9
Q2	2.8	5.5	0.5	31.4
Q3	2.0	-1.9	0.6	25.9
Q4	1.7	1.3	1.6	15.2
2022 Q1	2.2	2.2	3.3	2.7
Q2	1.2	2.7	1.4	3.5
Q3	1.5	1.1	2.3	2.0
Q4	1.1	15.2	1.0	-22.5
Contributions to growth				
	ZZ6Z	ZZ72	ZZ73	ZZ74
2020 Q3	1.39	2.68	0.08	8.15
Q4	1.27	-1.44	0.14	1.02
2021 Q1	0.01	0.16	0.23	-0.74
Q2	1.43	1.22	0.09	2.07
Q3	1.05	-0.42	0.12	2.17
Q4	0.88	0.29	0.29	1.57
2022 Q1	1.13	0.48	0.60	0.32
Q2	0.61	0.59	0.25	0.41
Q3	0.73	0.24	0.41	0.24
Q4	0.54	3.24	0.17	-2.64
Percentage change, latest quarter on corresponding quarter of previous year				
Growth				
	KG15	KH4X	KH6V	KH67
2020 Q3	-0.5	3.7	-	-48.4
Q4	2.5	-6.1	-0.6	-39.9
2021 Q1	1.8	-1.9	1.7	-42.7
Q2	8.0	10.8	3.0	-1 195.0
Q3	7.6	-2.1	3.3	71.5
Q4	6.7	5.8	4.1	69.8
2022 Q1	9.0	7.2	6.1	95.8
Q2	7.3	4.4	7.1	54.3
Q3	6.7	7.6	8.8	24.9
Q4	6.1	22.3	8.1	-15.9
Contributions to growth				
	ZZ79	ZZ7A	ZZ7B	ZZ7C
2020 Q3	-0.24	0.81	0.01	-5.78
Q4	1.19	-1.34	-0.11	-4.63
2021 Q1	0.88	-0.42	0.31	-4.70
Q2	4.51	2.61	0.63	10.76
Q3	3.87	-0.50	0.61	4.61
Q4	3.44	1.27	0.76	5.15
2022 Q1	4.68	1.62	1.16	6.36
Q2	3.74	0.99	1.29	4.51
Q3	3.40	1.62	1.57	2.53
Q4	3.05	4.74	1.44	-1.82

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						less Total imports
	House- holds	Non-prof- it instit- utions ²	General govern- ment	Gross capital formation	Gross fixed capital formation	Total exports	
Percentage change, latest year on previous year							
	ZZ93	ZZ94	ZZ95	ZZ96	ZZ97	ZZ98	ZZ99
2020	0.5	14.4	20.4	4.2	1.4	0.3	-1.4
2021	2.8	-3.4	-5.0	0.1	1.4	3.8	5.5
2022	8.1	-2.6	1.4	9.2	5.5	12.7	16.9
Percentage change, latest quarter on previous quarter							
	ZZ8N	ZZ8O	ZZ8P	ZZ8Q	ZZ8R	ZZ8S	ZZ8T
2020 Q3	0.6	-13.5	-15.4	-1.8	-0.7	1.0	0.3
Q4	-	-1.5	-1.7	0.6	-0.1	0.7	1.3
2021 Q1	0.8	7.3	4.2	-2.6	-0.2	0.8	1.7
Q2	0.7	-9.9	-9.2	-0.2	0.5	1.0	0.5
Q3	1.3	0.8	-0.2	3.5	2.6	1.1	2.4
Q4	1.6	1.0	-0.1	3.7	0.5	3.5	4.8
2022 Q1	2.0	-1.1	4.6	1.6	1.9	3.1	5.0
Q2	3.3	-1.3	-2.6	2.6	1.7	5.3	5.2
Q3	2.3	1.0	2.3	4.9	1.9	2.9	6.0
Q4	1.2	0.7	0.7	-5.0	-2.3	0.5	-3.0
Percentage change, latest quarter on corresponding quarter of previous year							
	ZZ8U	ZZ8V	ZZ8W	ZZ8X	ZZ8Y	ZZ8Z	ZZ92
2020 Q3	0.5	12.0	19.3	2.8	0.8	-0.7	-3.4
Q4	0.2	8.7	16.5	3.4	0.2	0.8	0.1
2021 Q1	1.4	10.3	17.8	-2.0	-0.5	1.0	2.2
Q2	2.2	-17.6	-21.4	-3.9	-0.4	3.6	3.8
Q3	2.9	-3.9	-7.2	1.3	2.8	3.6	6.0
Q4	4.4	-1.4	-5.7	4.5	3.4	6.5	9.7
2022 Q1	5.6	-9.2	-5.3	8.9	5.7	8.9	13.3
Q2	8.4	-0.5	1.6	12.0	6.9	13.6	18.7
Q3	9.5	-0.4	4.2	13.5	6.2	15.6	22.8
Q4	9.1	-0.8	5.0	3.9	3.3	12.3	13.6

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 & catering	Transport, storage and commu- nications	Business services and finance	Govern- ment & other services
Percentage change, latest year on previous year												
Current estimates³												
	L3BB	L3BG	L3BH	L3BN	L3DM	L3DQ	L3DW	L3E2	L3GP	KI8L	KI8N	KI8P
2020	-3.5	1.2	-3.2	0.1	9.1	4.8	-13.5	-12.4	-23.3	-12.5	-3.2	-19.8
2021	5.8	7.3	-11.7	9.7	5.1	7.8	13.1	7.0	8.7	7.4	4.8	10.3
2022	3.5	-3.6	1.6	-4.8	-3.5	2.0	5.6	5.5	5.6	9.5	3.3	7.3
Previous estimates²												
	A2EQ	A2ER	A2ET	A2ES	A2EU	A2EV	A2EW	A2EY	A2F2	A2F3	A2F4	A2F5
2019	16.9	2.3	2.2	1.2	14.0	-0.3	1.5	1.5	0.5	6.4	-0.1	2.4
2020	-3.5	1.2	-3.2	0.1	9.1	4.8	-13.5	-12.4	-23.3	-12.5	-3.2	-19.8
2021	5.8	7.3	-11.7	9.7	5.1	7.8	13.1	7.0	8.7	7.4	4.8	10.3
Revisions												
	ZZ52	ZZ53	ZZ55	ZZ54	ZZ56	ZZ57	ZZ58	ZZ59	ZZ5A	ZZ5B	ZZ5C	ZZ5D
2019	-	-	-	-	-	-	-	-	-	-	-	-
2020	-	-	-	-	-	-	-	-	-	-	-	-
2021	-	-	-	-	-	-	-	-	-	-	-	-
Percentage change, latest quarter on previous quarter												
Current estimates³												
	L3BB	L3BG	L3BH	L3BN	L3DM	L3DQ	L3DW	L3E2	L3GP	KI8L	KI8N	KI8P
2020 Q3	5.2	18.1	-2.9	24.3	9.8	6.1	41.9	15.0	47.4	14.3	3.3	24.4
Q4	0.5	4.1	-1.8	5.9	-1.8	2.3	5.1	0.6	-9.2	2.3	2.0	3.2
2021 Q1	2.1	-	-4.9	-0.7	5.2	2.7	1.1	-1.7	-7.8	-0.1	2.1	-5.5
Q2	2.3	0.3	-18.8	1.3	4.4	0.5	3.8	7.7	22.0	3.7	1.2	14.8
Q3	3.7	-0.4	24.4	-0.9	-9.5	0.9	-1.6	2.4	4.9	2.0	0.9	3.9
Q4	0.2	-1.4	-3.4	-1.3	-3.5	2.0	1.4	2.1	-1.8	3.6	1.7	4.4
2022 Q1	0.6	-0.3	1.9	-1.3	4.1	0.9	3.0	0.5	-0.2	3.8	0.5	-0.8
Q2	0.7	-1.2	-2.6	-1.4	0.2	-	1.5	0.4	0.6	0.7	0.8	-0.8
Q3	-	-2.6	-1.3	-2.9	-1.5	-2.3	0.3	0.2	-0.7	0.9	0.1	0.5
Q4	-0.6	-0.2	-1.6	-	-1.3	0.7	0.3	-	0.1	-1.0	0.4	-0.1
Previous estimates²												
	A2CX	A2CY	A2DO	A2DL	A2DR	A2DS	A2DT	A2DU	A2DV	A2DW	A2DX	A2DY
2020 Q3	5.2	18.1	-2.9	24.3	9.8	6.1	41.9	15.0	47.4	14.3	3.3	24.4
Q4	0.5	4.1	-1.8	5.9	-1.8	2.3	5.1	0.6	-9.2	2.3	2.0	3.2
2021 Q1	2.1	-	-4.9	-0.7	5.2	2.7	1.1	-1.7	-7.8	-0.1	2.1	-5.5
Q2	2.3	0.3	-18.8	1.3	4.4	0.5	3.8	7.7	22.0	3.7	1.2	14.8
Q3	3.7	-0.4	24.4	-0.9	-9.5	0.9	-1.6	2.4	4.9	2.0	0.9	3.9
Q4	0.2	-1.4	-3.4	-1.3	-3.5	2.0	1.4	2.1	-1.8	3.6	1.7	4.4
2022 Q1	0.6	-0.5	2.0	-1.6	4.0	0.6	3.1	0.6	0.1	3.9	0.7	-0.7
Q2	0.7	-1.3	-2.8	-1.3	-1.3	-0.1	1.1	0.2	0.3	0.2	0.8	-0.7
Q3	-	-2.5	-1.3	-2.8	-2.1	-2.1	-0.2	0.1	-0.8	-	0.1	0.4
Revisions												
	ZZ4A	ZZ4B	ZZ4D	ZZ4C	ZZ4E	ZZ4F	ZZ4G	ZZ4H	ZZ4I	ZZ4J	ZZ4K	ZZ4L
2020 Q3	-	-	-	-	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-	-	-	-	-
2021 Q1	-	-	-	-	-	-	-	-	-	-	-	-
Q2	-	-	-	-	-	-	-	-	-	-	-	-
Q3	-	-	-	-	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-	-	-	-	-
2022 Q1	-	0.2	-0.1	0.3	0.1	0.3	-0.1	-0.1	-0.3	-0.1	-0.2	-0.1
Q2	-	0.1	0.2	-0.1	1.5	0.1	0.4	0.2	0.3	0.5	-	-0.1
Q3	-	-0.1	-	-0.1	0.6	-0.2	0.5	0.1	0.1	0.9	-	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 Quarterly National Accounts

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

AE Annex E - Output components of GDP- growths and revisions from previous estimate^{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 & catering	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												
2020 Q3	L3ZZ -5.8	L426 4.7	L427 -2.0	L42D 4.2	L44C 12.1	L44G 5.8	L44M -10.4	L44Q -12.4	L47F -16.4	KII2 -12.6	KIH9 -4.8	KIH8 -21.3
Q4	-6.8	7.3	0.4	9.0	1.0	8.3	-5.2	-11.7	-22.4	-9.4	-3.2	-19.3
2021 Q1	-4.1	6.3	-7.0	7.1	9.4	6.9	-2.6	-10.4	-22.1	-6.1	-1.4	-20.0
Q2	10.5	23.3	-26.4	32.4	18.5	11.9	56.5	22.5	50.5	21.1	8.9	39.4
Q3	8.9	3.9	-5.7	5.6	-2.3	6.4	8.5	9.1	7.1	8.1	6.3	16.3
Q4	8.6	-1.5	-7.2	-1.5	-4.1	6.2	4.7	10.7	15.8	9.5	6.0	17.7
2022 Q1	6.9	-1.8	-0.6	-2.1	-5.0	4.4	6.7	13.1	25.3	13.8	4.3	23.4
Q2	5.3	-3.2	19.2	-4.7	-8.9	3.8	4.3	5.4	3.4	10.5	3.9	6.7
Q3	1.5	-5.3	-5.4	-6.7	-0.9	0.5	6.3	3.2	-2.1	9.4	3.1	3.3
Q4	0.7	-4.2	-3.6	-5.6	1.5	-0.7	5.1	1.2	-0.1	4.6	1.8	-1.2
Previous estimates²												
2020 Q3	A2DZ -5.8	A2E2 4.7	A2E4 -2.0	A2E3 4.2	A2E5 12.1	A2EE 5.8	A2EK -10.4	A2EL -12.4	A2EM -16.4	A2EN -12.6	A2EO -4.8	A2EP -21.3
Q4	-6.8	7.3	0.4	9.0	1.0	8.3	-5.2	-11.7	-22.4	-9.4	-3.2	-19.3
2021 Q1	-4.1	6.3	-7.0	7.1	9.4	6.9	-2.6	-10.4	-22.1	-6.1	-1.4	-20.0
Q2	10.5	23.3	-26.4	32.4	18.5	11.9	56.5	22.5	50.5	21.1	8.9	39.4
Q3	8.9	3.9	-5.7	5.6	-2.3	6.4	8.5	9.1	7.1	8.1	6.3	16.3
Q4	8.6	-1.5	-7.2	-1.5	-4.1	6.2	4.7	10.7	15.8	9.5	6.0	17.7
2022 Q1	7.0	-2.0	-0.4	-2.4	-5.1	4.0	6.8	13.3	25.7	13.8	4.5	23.6
Q2	5.3	-3.5	19.2	-4.9	-10.4	3.4	4.0	5.4	3.3	9.9	4.1	6.8
Q3	1.5	-5.6	-5.4	-6.8	-3.1	0.4	5.5	3.0	-2.2	7.8	3.2	3.3
Revisions												
2020 Q3	ZZ4N -	ZZ4O -	ZZ4Q -	ZZ4P -	ZZ4R -	ZZ4S -	ZZ4T -	ZZ4U -	ZZ4V -	ZZ4W -	ZZ4X -	ZZ4Y -
Q4	-	-	-	-	-	-	-	-	-	-	-	-
2021 Q1	-	-	-	-	-	-	-	-	-	-	-	-
Q2	-	-	-	-	-	-	-	-	-	-	-	-
Q3	-	-	-	-	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-	-	-	-	-
2022 Q1	-0.1	0.2	-0.2	0.3	0.1	0.4	-0.1	-0.2	-0.4	-	-0.2	-0.2
Q2	-	0.3	-	0.2	1.5	0.4	0.3	-	0.1	0.6	-0.2	-0.1
Q3	-	0.3	-	0.1	2.2	0.1	0.8	0.2	0.1	1.6	-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 Quarterly National Accounts

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

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

Seasonally adjusted data

Reference year 2019

	Final consumption expenditure							less Total imports
	Households	Non-profit institutions ^{3,5}	General government	Gross Capital Formation	Gross Fixed Capital Formation	Business investment	Total exports	
Percentage change, latest year on previous year								
Current estimates⁴								
	KGZ5	KH26	KH2I	ZZ6H	KG7N	KG7M	KH2U	KH3N
2020	-12.9	-19.2	-7.3	-14.6	-10.5	-11.9	-12.1	-16.0
2021	6.3	5.2	12.5	14.0	6.1	0.9	2.2	6.2
2022	5.3	8.9	1.9	1.5	7.7	9.9	10.3	12.6
Previous estimates²								
	A275	A276	A289	A28J	A28L	A29D	A29F	A2CK
2019	1.0	3.0	4.1	2.6	1.9	1.3	1.7	2.6
2020	-12.9	-19.2	-7.3	-14.6	-10.5	-11.9	-12.1	-16.0
2021	6.3	5.2	12.5	14.0	6.1	0.9	2.2	6.2
Revisions								
	ZZ83	ZZ84	ZZ85	ZZ86	ZZ87	ZZ88	ZZ89	ZZ8A
2019	-	-	-	-	-	-	-	-
2020	-	-	-	-	-	-	-	-
2021	-	-	-	-	-	-	-	-
Percentage change, latest quarter on previous quarter								
Current estimates⁴								
	KGZ6	KH27	KH2J	ZZ5H	KG7Q	KG7P	KH2V	KH3O
2020 Q3	19.1	18.3	18.2	46.5	15.7	11.0	-0.3	17.4
Q4	-1.5	2.9	3.8	23.1	3.2	2.8	6.0	15.0
2021 Q1	-3.4	-9.0	-0.1	-3.4	-1.6	-5.2	-4.2	-10.0
Q2	10.2	16.0	7.7	-10.6	4.0	6.4	6.4	3.1
Q3	2.9	2.3	0.4	12.3	0.9	2.2	-3.9	4.4
Q4	0.2	0.6	1.3	-7.8	-0.4	-2.7	12.8	4.1
2022 Q1	1.0	1.6	-0.4	22.3	6.4	4.5	-6.6	7.3
Q2	0.7	2.3	-1.5	-7.8	-0.6	6.9	5.2	0.2
Q3	-0.4	0.3	0.5	-19.8	0.3	-3.2	9.4	-2.9
Q4	0.1	-0.2	0.8	3.7	1.5	4.8	-1.0	1.5
Previous estimates²								
	A24M	A24X	A24Y	A25I	A25J	A25M	A264	A268
2020 Q3	19.1	18.3	18.2	46.5	15.7	11.0	-0.3	17.4
Q4	-1.5	2.9	3.8	23.1	3.2	2.8	6.0	15.0
2021 Q1	-3.4	-9.0	-0.1	-3.4	-1.6	-5.2	-4.2	-10.0
Q2	10.2	16.0	7.7	-10.6	4.0	6.4	6.4	3.1
Q3	2.9	2.3	0.4	12.3	0.9	2.2	-3.9	4.4
Q4	0.2	0.6	1.3	-7.8	-0.4	-2.7	12.8	4.1
2022 Q1	0.8	0.2	-0.6	22.7	4.8	1.2	-5.0	7.5
Q2	1.2	2.7	-1.4	-7.0	-1.7	5.5	3.8	0.1
Q3	-1.1	0.3	0.5	-18.3	1.1	-2.5	8.9	-3.6
Revisions								
	ZZ7L	ZZ7M	ZZ7N	ZZ7O	ZZ7P	ZZ7Q	ZZ7R	ZZ7S
2020 Q3	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-
2021 Q1	-	-	-	-	-	-	-	-
Q2	-	-	-	-	-	-	-	-
Q3	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-
2022 Q1	0.2	1.4	0.2	-0.4	1.6	3.3	-1.6	-0.2
Q2	-0.5	-0.4	-0.1	-0.8	1.1	1.4	1.4	0.1
Q3	0.7	-	-	-1.5	-0.8	-0.7	0.5	0.7

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

2 Previous estimates refers to estimates from the Quarterly National Accounts

3 Non-profit institutions serving households

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

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

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

continued

Seasonally adjusted data

Reference year 2019

	Final consumption expenditure							less Total imports
	Households	Non-profit institutions ³	General government	Gross capital formation	Gross fixed capital formation	Business investment	Total exports	
Percentage change, latest quarter on corresponding quarter of the previous year								
Current estimates⁴								
	KGZ7	KH28	KH2K	ZZ5Y	KG7T	KG7S	KH2W	KH3P
2020 Q3	-11.1	-20.6	-5.5	-11.6	-10.3	-13.7	-17.6	-17.5
Q4	-12.2	-14.5	-3.0	23.5	-6.5	-12.0	-16.0	-2.5
2021 Q1	-12.6	-19.6	0.3	10.6	-4.4	-14.2	-11.5	-7.4
Q2	24.9	28.4	31.9	55.7	22.3	15.1	7.7	25.3
Q3	7.9	11.1	12.1	19.4	6.6	6.0	3.8	11.4
Q4	9.7	8.7	9.3	-10.6	2.8	0.3	10.5	0.8
2022 Q1	14.7	21.4	9.0	13.2	11.3	10.5	7.7	20.2
Q2	4.8	7.1	-0.2	16.8	6.3	11.1	6.5	16.8
Q3	1.5	4.9	-0.1	-16.6	5.7	5.1	21.2	8.6
Q4	1.4	4.0	-0.6	-6.2	7.8	13.2	6.4	5.9
Previous estimates²								
	A26C	A26H	A26I	A26J	A26K	A26L	A26M	A26N
2020 Q3	-11.1	-20.6	-5.5	-11.6	-10.3	-13.7	-17.6	-17.5
Q4	-12.2	-14.5	-3.0	23.5	-6.5	-12.0	-16.0	-2.5
2021 Q1	-12.6	-19.6	0.3	10.6	-4.4	-14.2	-11.5	-7.4
Q2	24.9	28.4	31.9	55.7	22.3	15.1	7.7	25.3
Q3	7.9	11.1	12.1	19.4	6.6	6.0	3.8	11.4
Q4	9.7	8.7	9.3	-10.6	2.8	0.3	10.5	0.8
2022 Q1	14.4	19.8	8.9	13.6	9.5	7.0	9.5	20.4
Q2	5.1	6.0	-0.3	18.2	3.5	6.2	6.8	17.0
Q3	1.0	3.9	-0.2	-14.0	3.7	1.3	21.1	8.1
Revisions								
	ZZ7T	ZZ7U	ZZ7V	ZZ7W	ZZ7X	ZZ7Y	ZZ7Z	ZZ82
2020 Q3	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-
2021 Q1	-	-	-	-	-	-	-	-
Q2	-	-	-	-	-	-	-	-
Q3	-	-	-	-	-	-	-	-
Q4	-	-	-	-	-	-	-	-
2022 Q1	0.3	1.6	0.1	-0.4	1.8	3.5	-1.8	-0.2
Q2	-0.3	1.1	0.1	-1.4	2.8	4.9	-0.3	-0.2
Q3	0.5	1.0	0.1	-2.6	2.0	3.8	0.1	0.5

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

2 Previous estimates refers to the estimates from Quarterly National Accounts

3 Non-profit institutions serving households

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

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

Seasonally adjusted data

	Compen- sation 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	0.4	-0.1	-	-50.1
2021	6.0	2.9	3.0	58.3
2022	7.2	10.4	7.5	30.3
Previous estimates²				
	A2CT	A2CU	A2CV	A2CW
2019	4.6	2.8	3.4	2.5
2020	0.4	-0.1	-	-50.1
2021	6.0	2.9	3.0	58.3
Revisions				
	ZZ8J	ZZ8K	ZZ8L	ZZ8M
2019	-	-	-	-
2020	-	-	-	-
2021	-	-	-	-
Percentage change, latest quarter on previous quarter				
Current estimates³				
	KGI4	KH4W	KH6U	KH66
2020 Q3	2.5	11.1	0.4	-904.0
Q4	2.6	-6.2	0.8	16.3
2021 Q1	-	0.8	1.4	-10.9
Q2	2.8	5.5	0.5	31.4
Q3	2.0	-1.9	0.6	25.9
Q4	1.7	1.3	1.6	15.2
2022 Q1	2.2	2.2	3.3	2.7
Q2	1.2	2.7	1.4	3.5
Q3	1.5	1.1	2.3	2.0
Q4	1.1	15.2	1.0	-22.5
Previous estimates²				
	A2CL	A2CM	A2CN	A2CO
2020 Q3	2.5	11.1	0.4	-904.0
Q4	2.6	-6.2	0.8	16.3
2021 Q1	-	0.8	1.4	-10.9
Q2	2.8	5.5	0.5	31.4
Q3	2.0	-1.9	0.6	25.9
Q4	1.7	1.3	1.6	15.2
2022 Q1	2.2	3.5	2.9	2.0
Q2	1.2	1.4	1.4	3.9
Q3	1.5	1.6	2.4	1.1
Revisions				
	ZZ8B	ZZ8C	ZZ8D	ZZ8E
2020 Q3	-	-	-	-
Q4	-	-	-	-
2021 Q1	-	-	-	-
Q2	-	-	-	-
Q3	-	-	-	-
Q4	-	-	-	-
2022 Q1	-	-1.3	0.4	0.7
Q2	-	1.3	-	-0.4
Q3	-	-0.5	-0.1	0.9

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

2 Previous estimates refers to estimates from the Quarterly National Accounts

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

AG Annex G - Income components of GDP- growths and revisions from previous estimate^{1,2}, Current Price
 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				
2020 Q3	KGI5 -0.5	KH4X 3.7	KH6V -	KH67 -48.4
Q4	2.5	-6.1	-0.6	-39.9
2021 Q1	1.8	-1.9	1.7	-42.7
Q2	8.0	10.8	3.0	-1 195.0
Q3	7.6	-2.1	3.3	71.5
Q4	6.7	5.8	4.1	69.8
2022 Q1	9.0	7.2	6.1	95.8
Q2	7.3	4.4	7.1	54.3
Q3	6.7	7.6	8.8	24.9
Q4	6.1	22.3	8.1	-15.9
Previous estimates²				
2020 Q3	A2CP -0.5	A2CQ 3.7	A2CR -	A2CS -48.4
Q4	2.5	-6.1	-0.6	-39.9
2021 Q1	1.8	-1.9	1.7	-42.7
Q2	8.0	10.8	3.0	-1 195.0
Q3	7.6	-2.1	3.3	71.5
Q4	6.7	5.8	4.1	69.8
2022 Q1	9.0	8.5	5.7	94.4
Q2	7.3	4.3	6.7	53.7
Q3	6.8	8.0	8.6	23.3
Revisions				
2020 Q3	ZZ8F -	ZZ8G -	ZZ8H -	ZZ8I -
Q4	-	-	-	-
2021 Q1	-	-	-	-
Q2	-	-	-	-
Q3	-	-	-	-
Q4	-	-	-	-
2022 Q1	-	-1.3	0.4	1.4
Q2	-	0.1	0.4	0.6
Q3	-0.1	-0.4	0.2	1.6

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

2 Previous estimates refers to estimates from the Quarterly National Accounts

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