

Statistical bulletin

GDP quarterly national accounts, UK: April to June 2023

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



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

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1 . Main points

- UK gross domestic product (GDP) is estimated to have increased by an unrevised 0.2% in Quarter 2 (Apr to June) 2023.
- UK GDP is now estimated to have increased by 0.3% in Quarter 1 (Jan to Mar) 2023, revised up from a previous estimate of 0.1%, while growth across all quarters of 2022 is unrevised.
- In output terms, growth in the latest quarter was driven by a 1.2% increase in the production sector, where there were increases in 9 out of the 13 sub-sectors; this reflects falling input prices across the quarter relieving some pressure on manufacturers.
- The household saving ratio grew by 9.1% in the latest quarter, up from 7.9% in Quarter 1 2023, with income (driven by a rise in social benefits together with increased wages and salaries) growing more than expenditure.
- Real households' disposable income (RHDI) grew by 1.2% in Quarter 2 (Apr to June) 2023 following no change in the previous quarter.

2 . **Headline GDP figures**

UK gross domestic product (GDP) is estimated to have increased by an unrevised 0.2% in Quarter 2 (Apr to June) 2023. This follows upwardly revised growth of 0.3% in the previous quarter (previously 0.1%). Figure 1 shows there have been minimal revisions to GDP from 2022 onwards, with only one of the six recent quarters revised.

In line with the [National Accounts Revisions Policy](#), this release contains data that are consistent with the UK National Accounts, the Blue Book 2023, which will be released on 31 October 2023. We [preannounced the revisions to estimates up to 2021](#) in our article on 1 September. As noted previously, these revisions were larger than normal, reflecting the larger movements in GDP and the practical challenges of estimating GDP throughout the coronavirus (COVID-19) pandemic.

This release now includes revisions to 2022 and 2023 as a result of the Blue Book 2023 methodological changes, including improved source data and additional updated data, as would happen in all quarterly national accounts releases. This also includes new Value Added Tax (VAT) turnover data for Quarter 4 (Oct to Dec) 2022 and Quarter 1 (Jan to Mar) 2023. Based on these new data, we have also reviewed the balancing of the three approaches to measuring GDP from 2022 onwards.

While the quarterly path of real GDP at an aggregate level is unrevised across all of 2022 and Quarter 2 2023, there have been some revisions to individual components for GDP. For more information, see [Section 6: Revisions to GDP](#). An indicative monthly real GDP path consistent with these quarterly figures can be found in our [associated dataset](#).

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

The coronation of King Charles III on 6 May 2023 led to an additional bank holiday on Monday 8 May. As this was a one-off event, the impact does not get removed from our seasonally adjusted estimates. This should be considered when interpreting the seasonally adjusted movements involving May and June 2023, and to a lesser extent, the Quarter 2 2023 estimates.

Figure 1: Real GDP is estimated to have increased by 0.2% in Quarter 2 (Apr to June) 2023, unrevised from the first estimate

UK, Quarter 1 (Jan to Mar) 2022 to Quarter 2 (Apr to June) 2023

Figure 1: Real GDP is estimated to have increased by 0.2% in Quarter 2 (Apr to June) 2023, unrevised from the first estimate

UK, Quarter 1 (Jan to Mar) 2022 to Quarter 2 (Apr to June) 2023



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

Notes:

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

UK GDP is now estimated to have increased by 4.3% in 2022, revised from a first estimate of 4.1%. As announced in our previous [Impact of Blue Book 2023 changes on gross domestic product article](#) on 1 September 2023, annual volume GDP growth in 2021 is revised up 1.1 percentage points to an 8.7% increase; this follows a revised 10.4% fall in 2020 (previously an 11.0% fall).

Taking into account all our recent revisions, this means that GDP is now estimated to be 1.8% above pre-coronavirus (COVID-19) pandemic levels in Quarter 2 (Apr to June) 2023.

Nominal GDP is estimated to have increased by 2.5% in Quarter 2 2023, revised up from a previous estimate of 2.3%.

Table 1: Headline national accounts indicators for the UK

% growth [note 1]

	Chained volume measures		Current market prices	
	GDP	GDP per head [note 3]	GDP	GDP implied deflator
Seasonally adjusted				
2022	4.3	3.2	9.7	5.2
Q1 2022	0.5	0.2	2.0	1.5
Q2 2022	0.1	-0.2	2.2	2.1
Q3 2022	-0.1	-0.2	1.4	1.5
Q4 2022	0.1	0.0	2.2	2.1
Q1 2023	0.3	0.2	2.1	1.8
Q2 2023	0.2	0.1	2.5	2.4

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

Notes

1. Percentage change on previous period.
2. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept) and Q4 refers to Quarter 4 (Oct to Dec).
3. Population data are consistent with the mid-2020 estimates published on 27 January 2023.

The implied GDP deflator represents the broadest measure of inflation in the domestic economy, reflecting changes in the price of all goods and services that comprise GDP. It is important to note that the GDP deflator covers the whole of the domestic economy, not just consumer spending, and also reflects the change in the relative price of exports to imports. For more information on the implied GDP deflator, see our [Measuring price changes of the UK national accounts: February 2023 article](#).

The implied price of GDP rose by a revised 2.4% in Quarter 2 2023 (previously 2.1%), which was primarily driven by higher price pressures for household consumption and government consumption.

Revisions to the implied deflator, particularly in Quarter 1 and 2 2023, are driven by upward revisions in the implied price for government consumption, household consumption and gross capital formation.

Compared with the same quarter a year ago, there was a 7.9% increase in the GDP implied deflator, revised from a first estimate of 6.7% (Figure 2). In the year to Quarter 2 2023, growth has been driven by strong rises in the price of household consumption, though there was a slowing in how much these prices increased. There have also been large price movements in internationally traded goods and services, where there was an easing in the implied price of imports; this contributes positively to the increase in the GDP implied deflator. Further information on the price movements of trade is discussed in our [Purchasing power of GDP, UK: 2022 article](#).

Figure 2: The implied price of GDP increased by revised 7.9% in Quarter 2 (Apr to June) 2023 compared with the same quarter a year ago

UK, quarter on quarter a year ago growth in the implied price of GDP, Quarter 1 (Jan to Mar) 2022 to Quarter 2 (Apr to June) 2023

Figure 2: The implied price of GDP increased by revised 7.9% in Quarter 2 (Apr to June) 2023 compared with the same quarter a year ago

UK, quarter on quarter a year ago growth in the implied price of GDP, Quarter 1 (Jan to Mar) 2022 to Quarter 2 (Apr to June) 2023



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

Notes:

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

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- Explore the latest trends in employment, prices and trade in our [economic dashboard](#).
- View [all economic data](#).

3 . Output

In Quarter 2 (Apr to June) 2023, output is estimated to have increased by 0.2% (unrevised from the first estimate). The services sector is now estimated to show no growth in the second quarter of 2023, revised down from a first estimate of 0.1%. The production sector is now estimated to have increased by 1.2%, revised up from a first estimate of 0.7%. Elsewhere construction output is unrevised from a first estimate increase of 0.3%.

Services

Services output is now estimated to show no growth in the latest quarter, revised down from a first estimate increase of 0.1%. Figure 3 shows that there was a mixed performance for the service sub-sectors in the first quarter, with growth in 8 out of the 14 sub-sectors partially offset by falls in the other 6. This position is largely unchanged from the first estimate.

Overall, consumer-facing services grew by 0.9% in Quarter 2 2023, revised up from growth of 0.8% in our first estimate.

The largest positive contribution to growth was from the information and communication sub-sector, which grew by 0.9%. The biggest increases were in motion picture, video and TV programme production, and computer programming, consultancy and related activities. The next largest positive contribution to growth was from accommodation and food service activities, which increased by 2.1%. This was driven by food and beverage services, which saw a particularly strong month in June. Anecdotal evidence from the Monthly Business Survey suggested that good weather and an increase in live events boosted turnover for businesses.

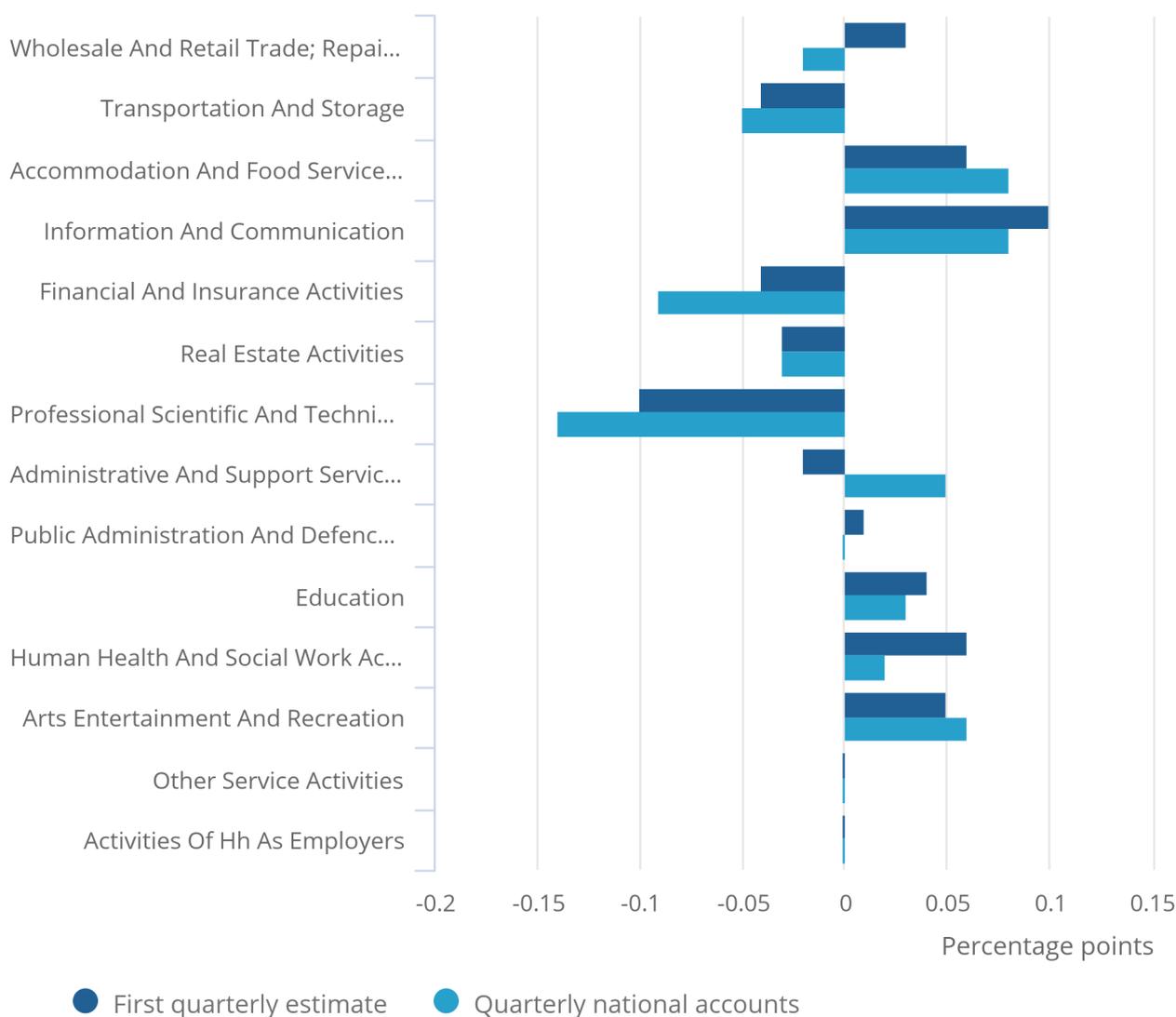
The largest negative contribution to growth was from the professional, scientific and technical activities subsector, which fell by 1.3%, with declines in scientific research and development, architectural and engineering activities, and advertising and market research.

Figure 3: There have been minimal revisions to quarterly growth across the services sector in Quarter 2 (Apr to June) 2023

UK, contributions to services growth, Quarter 2 (Apr to June) 2023

Figure 3: There have been minimal revisions to quarterly growth across the services sector in Quarter 2 (Apr to June) 2023

UK, contributions to services growth, Quarter 2 (Apr to June) 2023



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

Notes:

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

Across 2022 and 2023, the services sector sees revisions to growth mainly driven by the government and other services sub-sector (Figure 4). Overall, the revisions to services mainly reflect human health and social work activities, education, and business services and finances.

Human health and social work activities (within government services) saw revisions over the course of 2021, as explained in our [Impact of Blue Book 2023 changes on gross domestic product article](#). We have reflected more timely information on the inputs as part of producing the output of human health and social work activities, which are now being used to construct estimates of gross value added for 2022 and 2023.

Education (within government services) has been updated with estimates on school attendance. For further information please, refer to the Consumption of government goods and services sub-section in [Section 4: Expenditure](#).

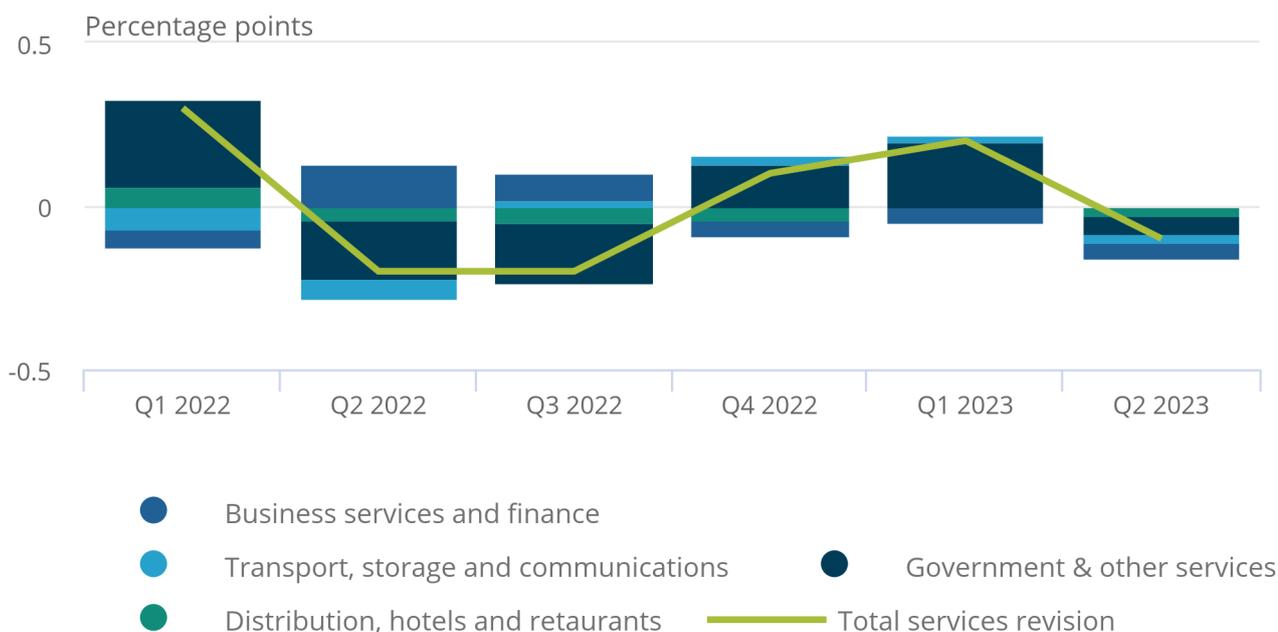
Business services and finances revisions are caused by deflator improvements introduced as part of Blue Book 2023. For more information, see the GDP monthly estimate sub-section within [Section 11: Measuring the data](#). This sub-sector also sees revisions because of revised and new Value Added Tax (VAT) data, and a review of seasonal adjustment.

Figure 4: Revisions to services across 2022 and 2023 are mainly driven by the government and other services sub-sector

UK, revisions contributions to services growth, Quarter 1 (Jan to Mar) 2022 to Quarter 2 (Apr to June) 2023

Figure 4: Revisions to services across 2022 and 2023 are mainly driven by the government and other services sub-sector

UK, revisions contributions to services growth, Quarter 1 (Jan to Mar) 2022 to Quarter 2 (Apr to June) 2023



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

Notes:

1. Components contribution may not sum to total because of rounding.
2. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept) and Q4 refers to Quarter 4 (Oct to Dec).

Production

Production output increased by 1.2% in Quarter 2 2023, revised up from a first estimate increase of 0.7%. This follows unrevised growth of 0.1% in the previous quarter.

The increase in production output in the latest quarter was mainly driven by an increase of 1.9% in manufacturing. There were increases in 9 out of the 13 sub-sectors, which may reflect [falling input prices](#) across the quarter relieving some pressure on manufacturers.

The largest positive contribution was from the manufacture of transport equipment (Figure 5), in particular the manufacture of motor vehicles, trailers and semi-trailers, which performed strongly in April and June 2023. Anecdotal evidence from the [Society of Motor Manufacturers and Traders \(SMMT\)](#) reported a 16.2% increase in car manufacturing in June 2023 compared with the same month a year ago.

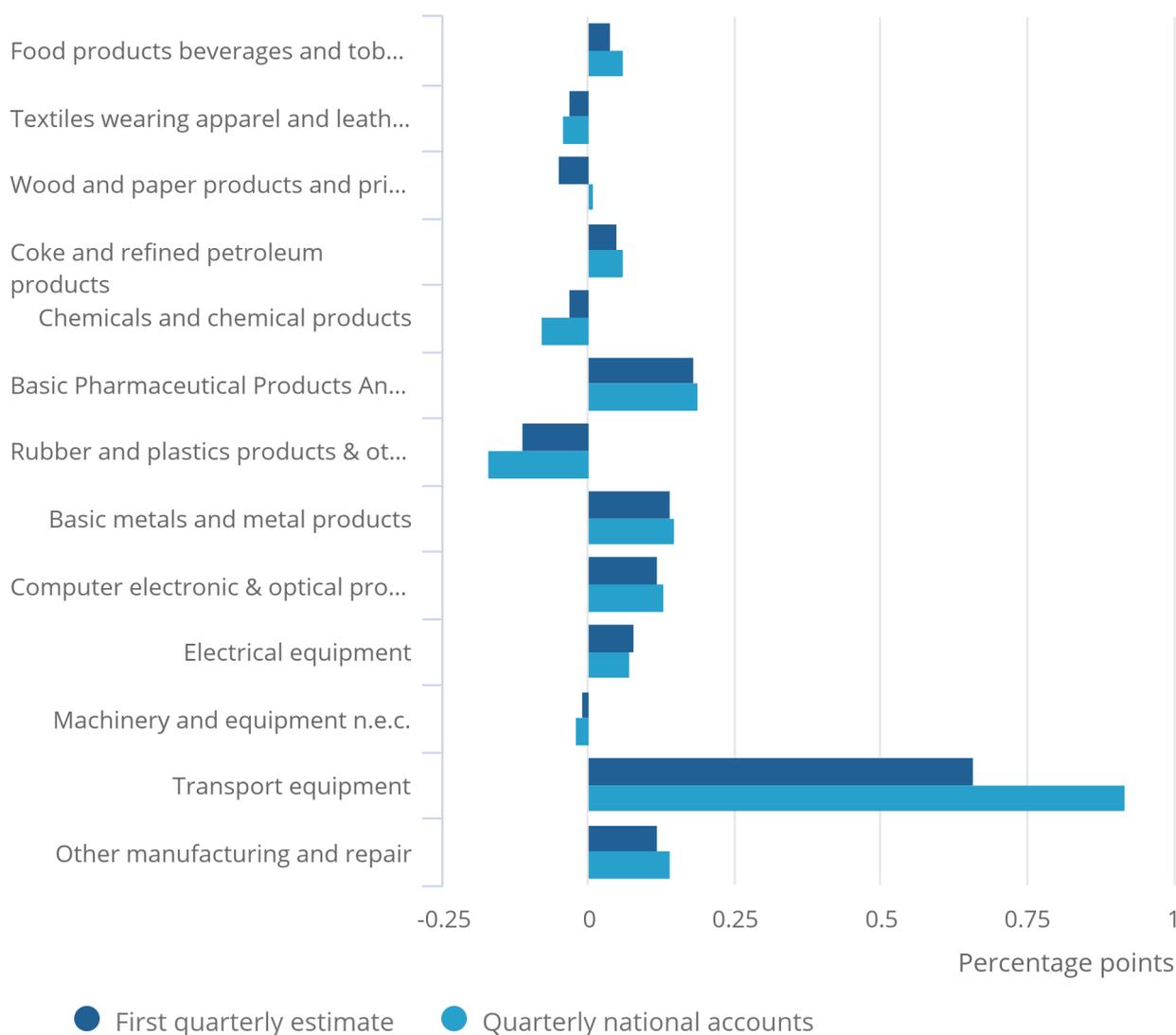
Figure 5 shows the contributions to manufacturing growth is largely unchanged from the first estimate.

Figure 5: There have been minimal revisions to quarterly growth across the manufacturing sector in Quarter 2 (Apr to June) 2023

UK, contributions to manufacturing growth, Quarter 2 (Apr to June) 2023

Figure 5: There have been minimal revisions to quarterly growth across the manufacturing sector in Quarter 2 (Apr to June) 2023

UK, contributions to manufacturing growth, Quarter 2 (Apr to June) 2023



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

Notes:

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

Across 2022 and 2023, the production sector sees revisions to growth mainly driven by manufacturing and the mining and quarrying sub-sectors (Figure 6). Overall, the revisions to production reflect:

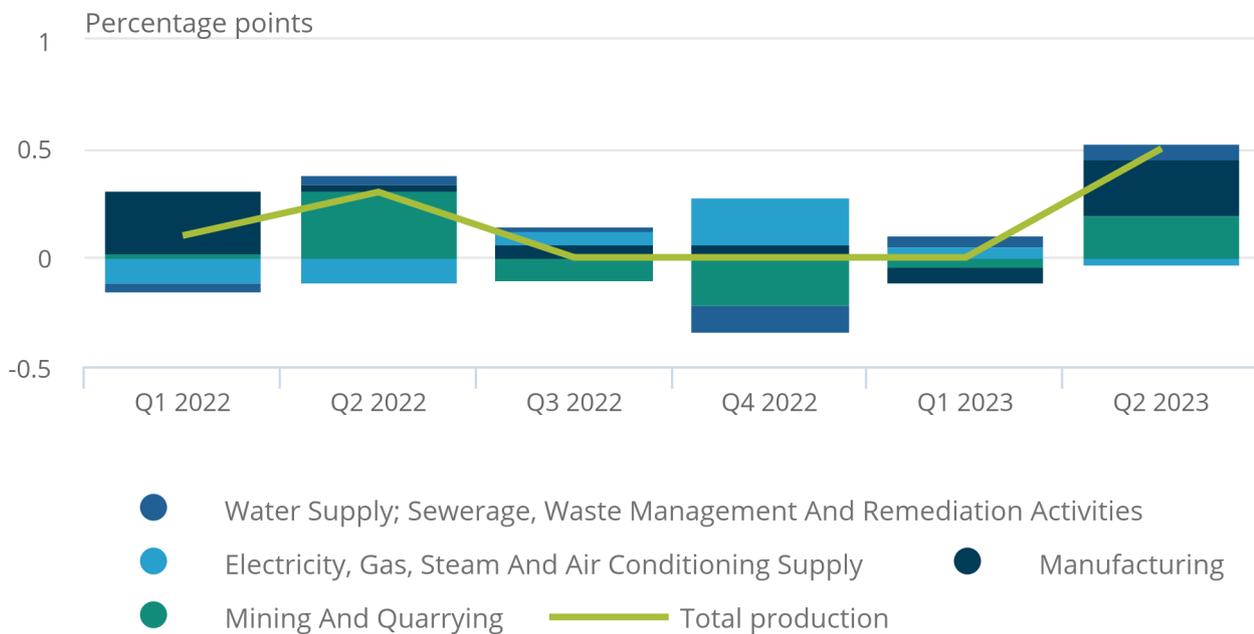
- revised volume data from the Department for Energy Security and Net Zero (DESNZ) for mining and quarrying
- new VAT turnover data for Quarter 4 (Oct to Dec) 2022 and Quarter 1 (Jan to Mar) 2023, and revisions to previous quarters
- a review of seasonal adjustment models

Figure 6: Revisions to production output across 2022 and 2023 are mainly driven by manufacturing and the mining and quarrying sub-sectors

UK, revisions contributions to production growth, Quarter 1 (Jan to Mar) 2022 to Quarter 2 (Apr to June) 2023

Figure 6: Revisions to production output across 2022 and 2023 are mainly driven by manufacturing and the mining and quarrying sub-sectors

UK, revisions contributions to production growth, Quarter 1 (Jan to Mar) 2022 to Quarter 2 (Apr to June) 2023



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

Notes:

1. Components contribution may not sum to total because of rounding.
2. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept) and Q4 refers to Quarter 4 (Oct to Dec).

Construction

Construction output rose by 0.3% in Quarter 2 2023, unrevised from the first estimate. This follows revised growth of 0.6% (previously 0.4%) in Quarter 1 2023. The growth in Quarter 2 2023 was driven by repair and maintenance, which grew by 1.8%. This growth was partially offset by a fall of 0.7% in new work.

4 . Expenditure

There was an increase in household consumption in Quarter 2 (Apr to June) 2023, while there was also higher government spending on the quarter. This was partially offset by a decrease in the volume of net trade in Quarter 2 2023.

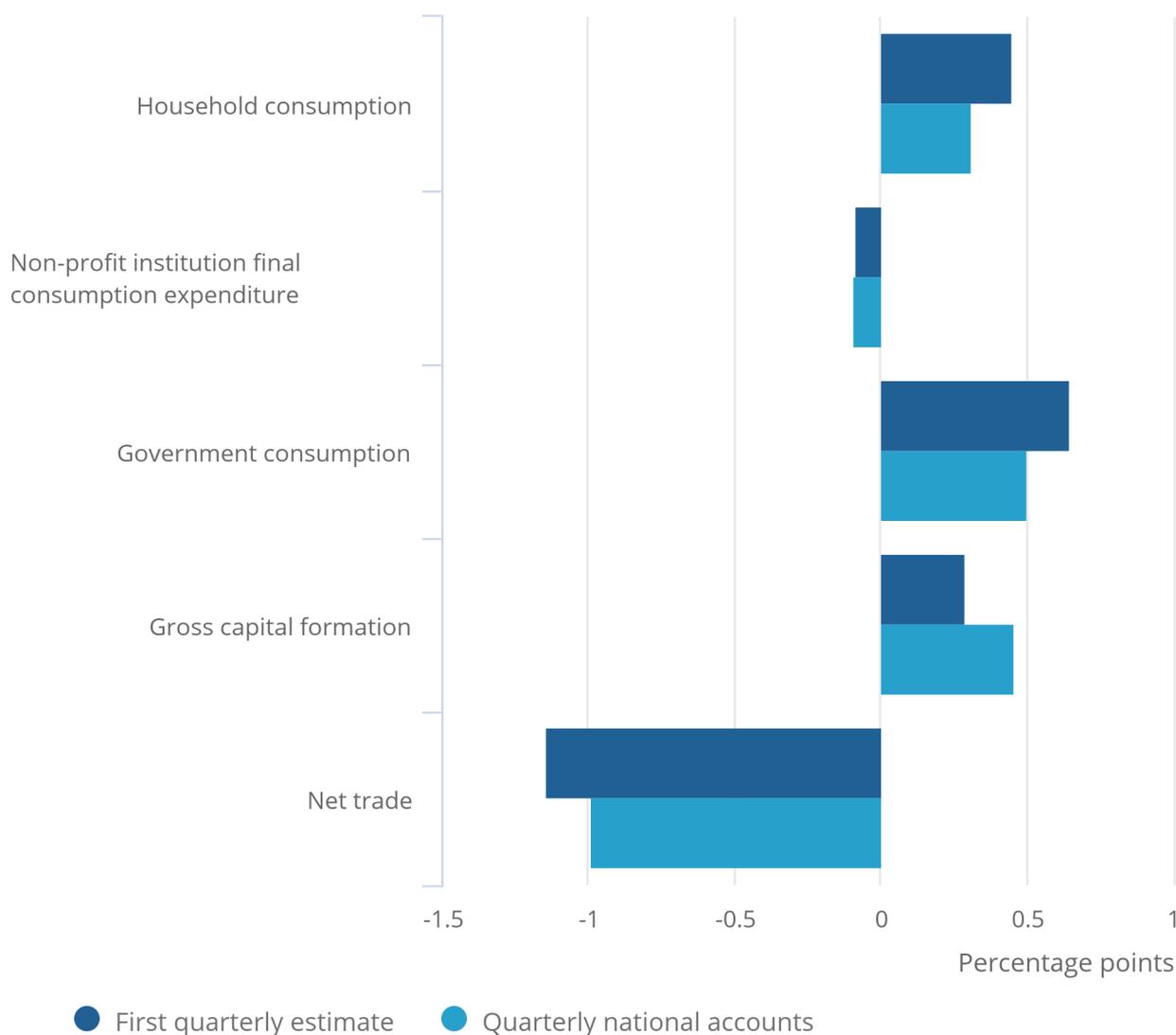
Figure 7 shows the previous and latest contributions to expenditure in Quarter 2 2023. The impact of revisions on real gross domestic expenditure over this quarter have been minimal. These revisions to components are discussed in more detail.

Figure 7: There has been minimal impact of revisions on real gross domestic expenditure, although there have been some revisions to underlying components

UK, contributions by expenditure components, Quarter 2 (Apr to June) 2023

Figure 7: There has been minimal impact of revisions on real gross domestic expenditure, although there have been some revisions to underlying components

UK, contributions by expenditure components, Quarter 2 (Apr to June) 2023



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

Notes:

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

Household consumption

There was a 0.5% increase in real household expenditure in Quarter 2 2023, revised down from a first estimate increase of 0.7%. This follows upwardly revised growth in the previous quarter of 0.7%; previously, this showed no growth. Within household consumption, the largest contributions to growth in the latest quarter were from spending on housing, water, electricity and gas, transport, and recreation and culture.

Figure 8 shows there have been notable revisions to household consumption across 2022 and 2023. These revisions include updated data on transport, health, recreation and culture, and restaurants and hotels.

[Net tourism](#) is a significant driver of the revisions in household consumption, including the revision to Quarter 1 (Jan to Mar) 2023. These revisions reflect:

- revised and updated data from the [International Passenger Survey](#), particularly for Quarter 4 (Oct to Dec) 2022 and Quarter 1 2023
- new Blue Book 2023 [methodology introduced for measuring travel exports](#)
- new Blue Book 2023 data deflator changes, which better reflect changing prices in travel exports and import

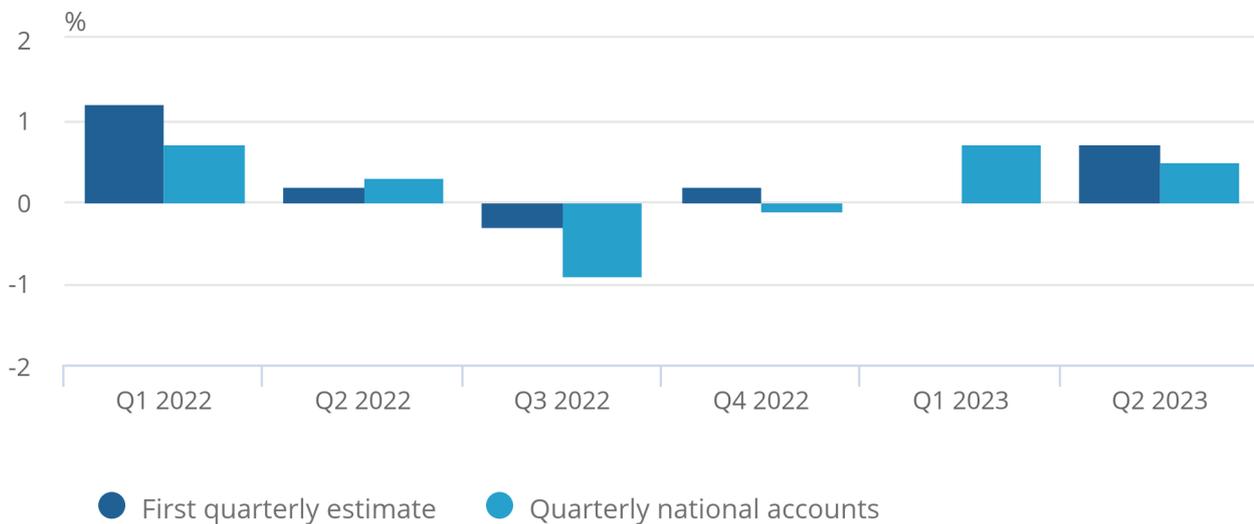
While household consumption sees large revisions because of net tourism, these are offset within trade, and there is therefore no impact on the GDP aggregate.

Figure 8: Household consumption growth sees revisions across 2022 and 2023, mainly as a result of revisions to net tourism

UK, quarter on previous quarter household consumption growth, Quarter 1 (Jan to Mar) 2022 to Quarter 2 (Apr to June) 2023

Figure 8: Household consumption growth sees revisions across 2022 and 2023, mainly as a result of revisions to net tourism

UK, quarter on previous quarter household consumption growth, Quarter 1 (Jan to Mar) 2022 to Quarter 2 (Apr to June) 2023



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

Notes:

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

Consumption of government goods and services

Real government consumption expenditure increased by 2.5% in Quarter 2 2023, revised down from a first estimate increase of 3.1%. Growth in the latest quarter is mainly reflecting higher spending on public administration and defence. There was also pick-up in the final consumption expenditure of health, which saw higher than normal growth for this time of year, despite industrial action.

Nominal government consumption expenditure increased by 5.9% in Quarter 2 2023, driven by increased spending on health, and on public administration and defence. The increase in health spending is primarily reflected in higher wages and salaries, reflecting the NHS pay settlement. For further details, please see GOV.UK's press release, [Government and health unions agree pay deal paving way for an end to strike action](#). However, these expenditure data are based on early outturn data and budgetary plans, and may be subject to revision when firmer data become available.

Over the course of 2022 and 2023, government consumption sees revisions mainly as a result of:

- new Blue Book 2023 [methodology introduced to better measure adult social care](#)
- updated data for a number of components, including our annual health benchmark data, where we capture more detailed information on services delivered by the NHS
- updated estimates of final consumption expenditure of education where pupil absenteeism from Quarter 2 2020 had been overestimated (which had resulted in lower estimates of school attendance); figures have been updated from Quarter 1 2022 onwards, and we will update estimates for Quarter 2 2020 to Quarter 4 2021 when the revision policy next allows, as a result, there is a small step change between Quarter 4 2021 and Quarter 1 2022

Gross capital formation

Gross fixed capital formation (GFCF) is now estimated to have increased by 0.8% in the latest quarter, revised up from a first estimate of no growth. This follows a rise of 2.5% in Quarter 1 2023.

There was a 4.1% increase in business investment on the quarter, revised up from a first estimate increase of 3.4%. Growth in business investment was driven by increased transport investment, in particular on aircraft, which saw an increase in imports from the United States in April 2023 as shown by our [UK trade: April 2023 bulletin](#). Elsewhere, investment in information and communication technology (ICT) equipment and other machinery equipment declined on the quarter, following strong growth in Quarter 1 2023. This brought investment forward in response to the [super-deduction allowance](#) expiring on 31 March 2023.

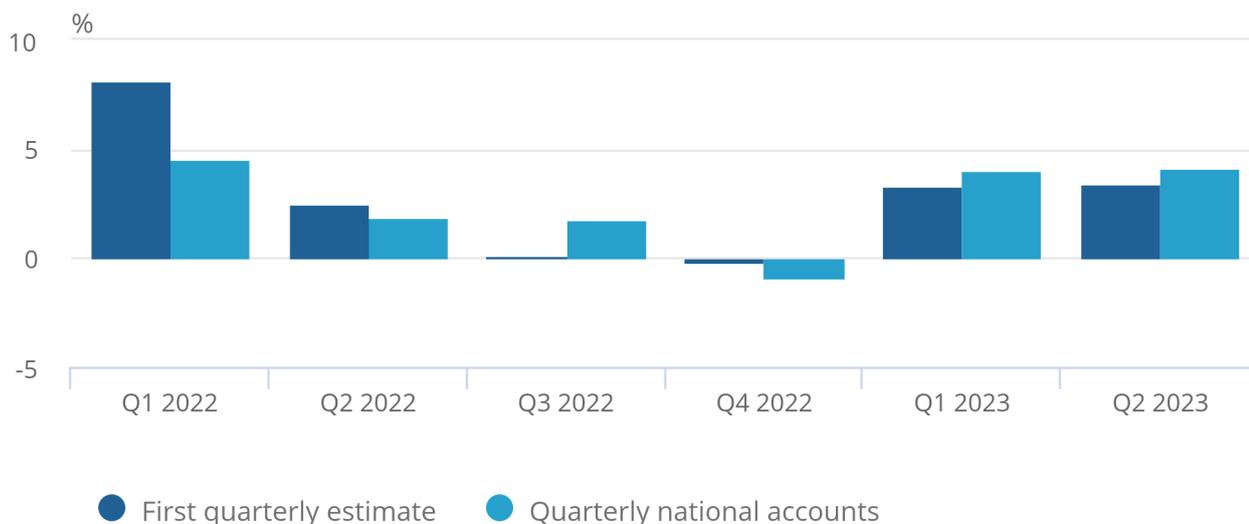
Figure 9 shows that there have been some revisions to the path to business investment, particularly in 2022. This reflects revised aircraft data, new Blue Book 2023 methodology with the introduction of the [computer hardware deflator](#), as well as updates to the seasonal adjustment model.

Figure 9: Business investment sees revisions to growth across 2022, with little revision in 2023

UK, quarter on previous quarter business investment growth, Quarter 1 (Jan to Mar) 2022 to Quarter 2 (Apr to June) 2023

Figure 9: Business investment sees revisions to growth across 2022, with little revision in 2023

UK, quarter on previous quarter business investment growth, Quarter 1 (Jan to Mar) 2022 to Quarter 2 (Apr to June) 2023



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

Notes:

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

Excluding the alignment and balancing adjustments, estimates show that inventories fell by £3.2 billion in Quarter 2 2023, revised down from a fall of £2.0 billion in the first estimate.

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

	Change in Inventories	Of which alignment	Of which balancing	Change in Inventories excluding alignment and balancing
Q1 2022 Current price	9891	-3137	500	12528
Q1 2022 Chained volume measure	9177	-2898	-500	12575
Q2 2022 Current price	11807	3240	700	7867
Q2 2022 Chained volume measure	8155	2984	-600	5771
Q3 2022 Current price	1768	-2192	-250	4210
Q3 2022 Chained volume measure	-2928	-1947	-100	-881
Q4 2022 Current price	2436	2089	200	147
Q4 2022 Chained volume measure	2781	1861	1400	-480
Q1 2023 Current price	-479	1172	-800	-851
Q1 2023 Chained volume measure	-742	1025		-1767
Q2 2023 Current price	-1521	753	-300	-1974
Q2 2023 Chained volume measure	-2024	642	500	-3166

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

Notes

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

Net trade

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

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

Separately, in 2021, the use of Staged Customs Controls (SCC) allowed customs declarations to be reported up to 175 days after the date of import for imports of non-controlled goods from the EU to Great Britain. The [UK government introduced full customs controls in January 2022](#), while July 2022 marked the first full month of data where delayed customs declarations submitted under SCC could not be included. Temporary arrangements still apply for imports of goods from Ireland to Great Britain.

In our [Impact of trade in goods data collection changes on UK trade statistics: further update on Staged Customs Controls article](#) published on 3 July 2023, we presented analysis on the impact of SCC on trade in goods data for imports from the EU to Great Britain in 2022. To account for the impact of SCC, we have now applied an adjustment to our estimates of goods imports from the EU for the period January to June 2022, which has contributed to downward revisions of trade imports for this period. Revised estimates will also be published in our [UK trade: August 2023 bulletin](#) on 12 October 2023. We will also be publishing an [Impact of trade in goods data collection changes on UK trade statistics: adjustments to 2022 EU imports estimates article](#), providing a detailed breakdown of the impact of these adjustments.

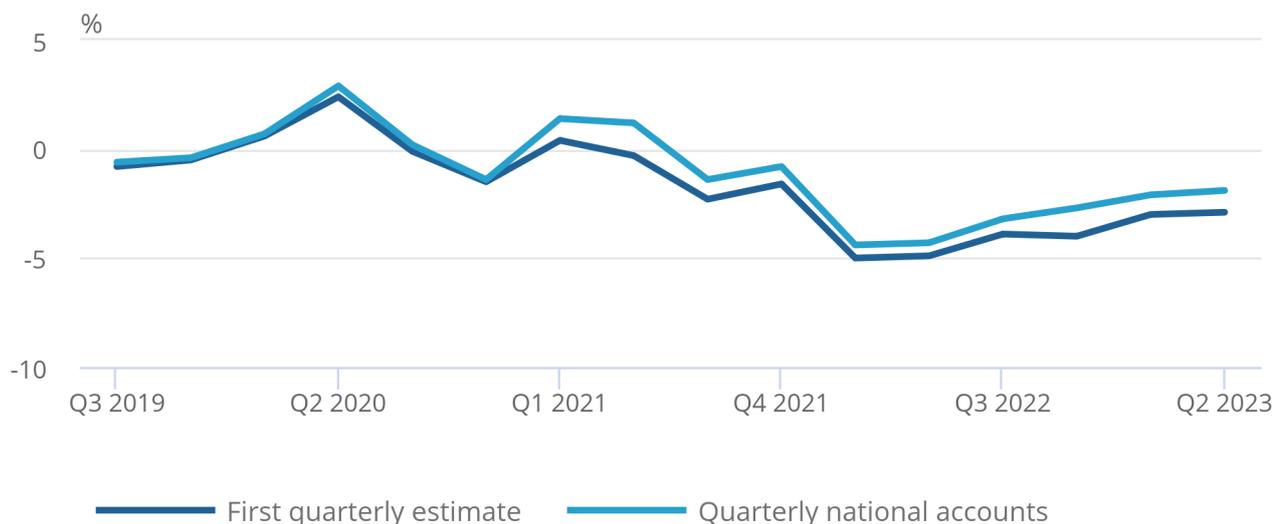
The UK's trade deficit for goods and services was 1.5% of nominal gross domestic product (GDP) in Quarter 2 2023, revised up from a first estimate deficit of 2.4%. However, there have been large movements in non-monetary gold over the last quarter, which can be volatile. Excluding non-monetary gold, the trade deficit was 1.9% of nominal GDP in Quarter 2 2023, revised up from a first estimate deficit of 2.9% (Figure 10).

Figure 10: Excluding non-monetary gold, the UK had a trade deficit of 1.9% of nominal GDP in Quarter 2 (Apr to June) 2023

UK, trade balance as a percentage of nominal GDP, excluding non-monetary gold, Quarter 3 (July to Sept) 2019 to Quarter 2 (Apr to June) 2023

Figure 10: Excluding non-monetary gold, the UK had a trade deficit of 1.9% of nominal GDP in Quarter 2 (Apr to June) 2023

UK, trade balance as a percentage of nominal GDP, excluding non-monetary gold, Quarter 3 (July to Sept) 2019 to Quarter 2 (Apr to June) 2023



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

Notes:

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

Export volumes fell by 0.9% in the latest quarter, revised up from a first estimate fall of 2.5%. The fall in the latest quarter was driven by an unrevised fall of 0.8% in goods exports, as well as a revised 1.0% fall in services exports (previously estimated as a 4.0% fall).

The fall in goods exports was mainly driven by large movements in non-monetary gold. However, this data series also appears within gross capital formation (GCF) as valuables, so the effect is GDP neutral. Revisions to goods exports mainly reflects new Blue Book 2023 methodology to improve measurement of globalisation. Further information on this improvement is discussed in our [Globalisation in the context of the UK National Accounts: Blue Book 2023 article](#).

The fall in services exports was driven mainly by other business services, with decreases in advertising and market research, management consulting, and other trade in services. Services exports see upward revisions throughout 2022 and 2023, mainly reflecting updated estimates of transportation and travel services. This is where we have new information from the [International Passenger Survey](#), as well as new Blue Book 2023 data deflator changes, which better reflect changing prices in travel exports and imports.

Import volumes increased by a revised 2.2% in the latest quarter (previously estimated as a 1.0% increase). Growth in the latest quarter was driven by a 1.5% increase in goods imports (revised down from a first estimate increase of 1.8%) and 3.7% increase in services imports (revised up from a first estimate fall of 0.4%).

Revisions to goods imports reflect adjustments made as discussed in our [Staged Customs Controls article for Quarter 1 and 2 2022](#), as well as improvements to the measurement of globalisation.

Revisions to services imports reflect revised [International trade in services](#) data, with new information on management consulting and advertising, market research and public opinion polling services. Services imports are also impacted by new Blue Book 2023 methodology for better estimating travel services.

5 . Income

Nominal gross domestic product (GDP) rose by 2.5% in Quarter 2 (Apr to June) 2023, revised up from a previous estimate of 2.3%. The quarterly rise was driven by growth in compensation of employees and taxes less subsidies.

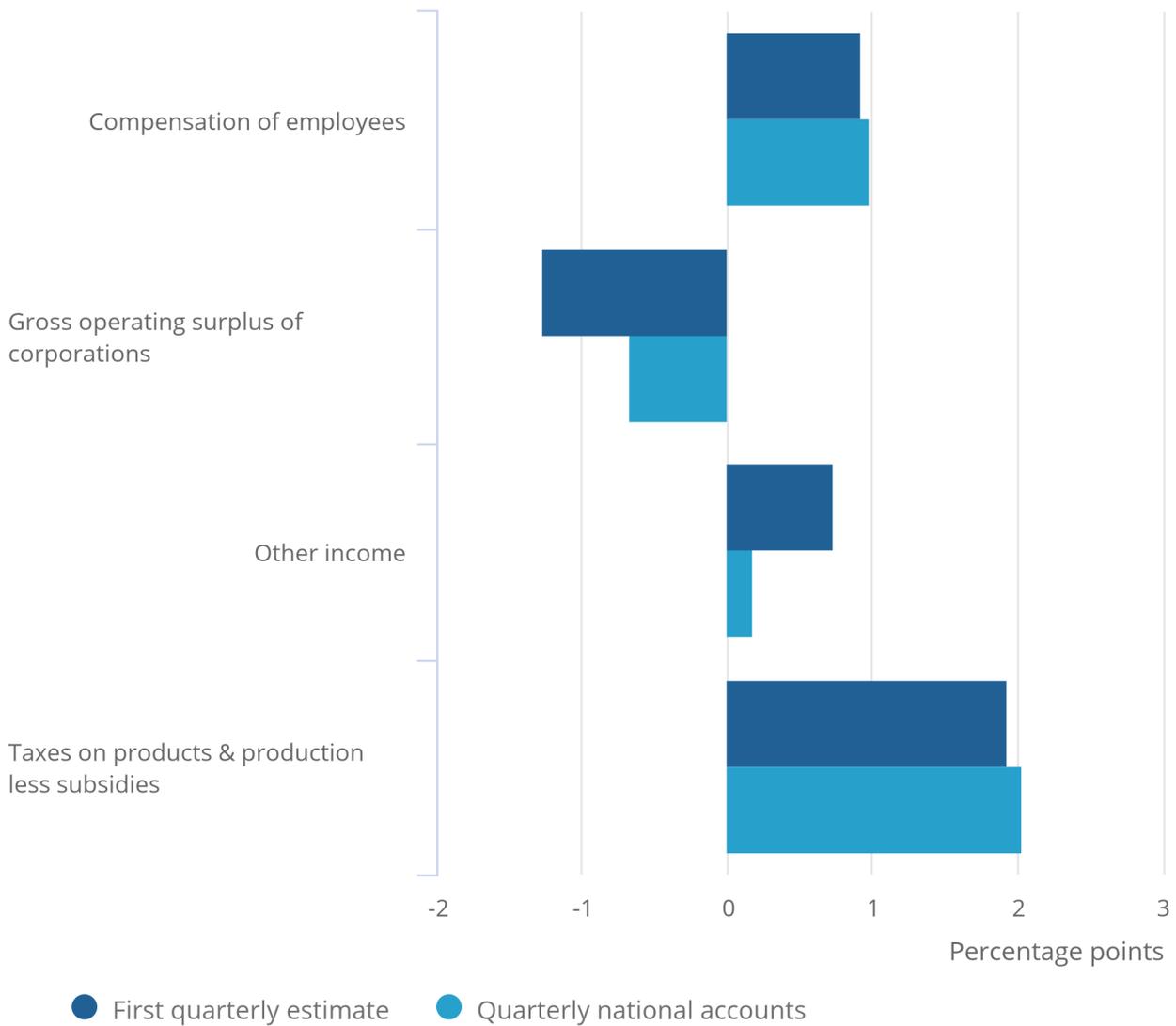
Figure 11 shows the previous and latest contributions to nominal GDP for Quarter 2 2023. The impact of revisions on nominal gross domestic income over this period has been minimal, although there have been larger revisions to income components.

Figure 11: There has been minimal impact of revisions on nominal gross domestic income, although there have been some revisions to underlying components

UK, contributions to nominal GDP, Quarter 2 (Apr to June) 2023

Figure 11: There has been minimal impact of revisions on nominal gross domestic income, although there have been some revisions to underlying components

UK, contributions to nominal GDP, Quarter 2 (Apr to June) 2023



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

Notes:

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

Compensation of employees increased by 2.0% in Quarter 2 2023 (previously estimated to be 1.9%), driven by a rise in wages and salaries of 2.2%, and a 1.0% in employers' social contributions. Early estimates suggest that the strong increase in wages and salaries reflects rises in public sector earnings, particularly hospital wages and salaries, partly reflecting the non-consolidated payments in the NHS.

Early estimates show that taxes less subsidies increased by 23.7% in Quarter 2 2023, driven by a large decrease in subsidies because of the lower payments as part of the Energy Price Guarantee scheme and the Energy Bill Relief Scheme. In October 2022, the Office for National Statistics (ONS) announced that 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 review](#).

The equivalent support scheme for businesses and non-domestic customers was announced as the Energy Bill Relief Scheme. This scheme provided 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 review](#). Data for Quarter 2 2023 are an initial indicative estimate, which will be revised over the coming months as firmer data become available.

Total gross operating surplus (GOS) of corporations excluding the alignment adjustment fell by 4.5% (Table 3), reflecting lower subsidies paid out as part of the Energy Price Guarantee scheme. There continues to be increased uncertainty around the full impacts of this scheme, which has been reflected in a larger than normal alignment adjustment in Quarter 1 (Jan to Mar) 2023 and Quarter 2 2023 (Table 3). More detail can be found in [Section 11: Measuring the data](#). Data content for this component is low at this stage in the [GDP publication model](#).

Table 3: Gross operating surplus of corporations, including and excluding alignment adjustments
UK, Quarter 1 (Jan to Mar) 2022 to Quarter 2 (Apr to June) 2023

	Gross operating surplus of corporations	Of which alignment	Gross operating surplus of corporations excluding alignment	Gross operating surplus of corporations excluding alignment	Quarter-on-quarter growth
Q1 2022	133381	-1199	134580		3.3
Q2 2022	138957	1542	137415		2.1
Q3 2022	136800	-1150	137950		0.4
Q4 2022	150285	807	149478		8.4
Q1 2023	161116	5878	155238		3.9
Q2 2023	156619	8409	148210		-4.5

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

Notes

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

6 . Revisions to GDP

In line with the [National Accounts Revisions Policy](#), all time periods in the dataset are open for revision.

Table 4 shows the revisions to quarter-on-quarter growth for the components of GDP.

Table 4: Revisions to quarter-on-quarter growth for components of GDP
Quarter 1 (Jan to Mar) 2022 to Quarter 2 (Apr to June) 2023

Percentage points						
	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023
Average GDP in chained volume measures	0.0	0.0	0.0	0.0	0.2	0.0
Output						
Production	0.1	0.3	0.0	0.0	0.0	0.5
Construction	0.2	0.0	0.0	0.2	0.2	0.0
Services	0.3	-0.2	-0.2	0.1	0.2	-0.1
Expenditure						
Households	-0.5	0.1	-0.6	-0.3	0.7	-0.2
Non-profit institutions serving households	-0.1	-0.2	0.1	0.1	0.5	-0.6
General government	1.2	-0.3	-0.1	-1.2	0.6	-0.6
Gross fixed capital formation	-2.9	2.4	0.1	-0.3	0.1	0.8
Total exports	-0.5	0.5	0.6	1.6	0.5	1.6
Total imports	1.1	1.4	-0.3	0.7	2.0	1.2
Average GDP in current prices	-0.3	0.2	0.0	0.2	0.9	0.2
Income						
Compensation of employees	0.4	0.2	0.1	0.3	0.1	0.1
Gross operating surplus of corporations	1.0	1.4	-1.3	1.4	2.1	2.7
Other income	0.3	-0.3	0.5	0.0	1.0	-2.9
Taxes on products & production less subsidies	-0.7	-0.4	0.6	-1.5	2.1	1.5

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 first quarterly estimate published 11 August 2023 and quarterly national accounts published 29 September 2023.

7 . Quarterly sector accounts

Estimates published for the first time today, 29 September 2023, are consistent with several methodological improvements to the institutional sector accounts introduced as part of our annual improvement programme; we discussed indicative impacts of changes to the main financial and non-financial accounts estimates in our [Detailed assessment of changes to institutional sector accounts: 1997 to 2021 article](#).

Household saving ratio

The household saving ratio is 9.1% in Quarter 2 (Apr to June) 2023, up from 7.9% in Quarter 1 (Jan to Mar) 2023. This upward movement was driven by a rise in social benefits other than transfers in kind of £10.2 billion, together with increased wages and salaries of £6.0 billion.

Social benefits was itself driven by increased benefits in line with inflation. Wages and salaries' biggest contributor to growth was the increases in public sector pay. This was partially offset by households' expenditure, which increased by 2.0% in the latest quarter, slower growth than in Quarter 1 2023 where growth was 2.3%.

Real households' disposable income (seasonally adjusted)

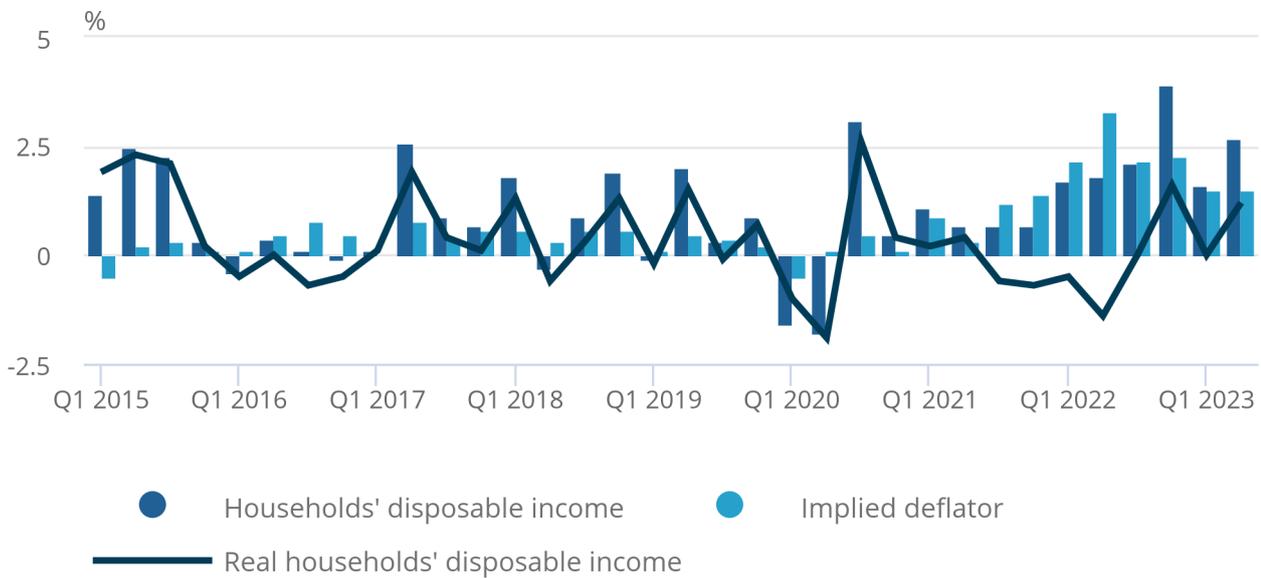
Real households' disposable income (RHDI) grew by 1.2% following no change in Quarter 1 (Jan to Mar) 2023. Within RHDI, nominal gross disposable income saw growth at 2.7% driven by increased income as described in the previous section on the households saving ratio. This was offset by growth in the implied deflator of 1.5% as households experienced price increases in several spending categories, including restaurants and hotels, food, and transport.

Figure 12: Real households disposable income grew by 1.2% in Quarter 2 (Apr to June) 2023, from flat growth of 0.0% in the previous quarter

Real household disposable income, seasonally adjusted, Quarter 1 (Jan to Mar) 2015 to Quarter 2 (Apr to June) 2023

Figure 12: Real households disposable income grew by 1.2% in Quarter 2 (Apr to June) 2023, from flat growth of 0.0% in the previous quarter

Real household disposable income, seasonally adjusted, Quarter 1 (Jan to Mar) 2015 to Quarter 2 (Apr to June) 2023



Source: Quarterly sector accounts from the Office for National Statistics

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

The UK's borrowing position with the rest of the world as a percentage of gross domestic product (GDP) increased to 3.9% in Quarter 2 2023 compared with 2.4% of GDP in Quarter 1 2023.

Financial corporations increased their net lending position to 2.8% of GDP, from 2.3% of GDP in Quarter 1 2023. This was driven by a rise in other capital transfers receivable of £5.6 billion, together with a rise in net property income of £3.1 billion, driven by increased net interest at £5.8 billion, partially offset by an increase in other investment income payable on pension entitlements of £3.4 billion.

Non-financial corporations decreased their net lending to 0.4% of GDP in Quarter 2 2023, from 2.8% of GDP in Quarter 1 2023. Within non-financial corporations, private non-financial corporations (PNFCs) had a net lending position of £2.3 billion, down from £17.4 billion in the previous quarter. This decrease was driven by a £9.7 billion decrease in net reinvested income on foreign direct investment driven by falling dividends. Gross operating surplus also decreased by £3.0 billion as a result of updated source data and methodology changes.

Households increased their net lending position to 2.4% of GDP in Quarter 2 2023 compared with 1.5% of GDP in Quarter 1 2023. This was driven by greater increases in income than expenditure as described in the previous section on the saving ratio.

General government increased net borrowing to 7.3% of GDP in Quarter 2 2023, from 7.1% of GDP in Quarter 1 2023. Within general government, central government increased net borrowing by £5.3 billion. This increase was driven by a decrease in net social contributions of £9.9 billion together with an increase in final consumption expenditure of £7.3 billion, partially offset by rises in taxes on production and imports less subsidies of £14 billion.

Financial account net lending and borrowing (not seasonally adjusted)

Households saw an increase in their net lending as a percentage of GDP in the latest quarter at 3.0%, from 1.4% in Quarter 1 2023. Within their financial account, households saw increases in deposits with UK monetary financial institutions of £16.1 billion together with a rise in equity and investment funds shares and units of £3.0 billion, partially offset by decreases in net loans. Households continue to have negative net secured lending of negative £1.8 billion with the previous quarter at negative £4.9 billion. This is caused by household repayments outstripping new lending, driven by lending from banks and building societies.

Financial corporations increased their net lending as a percentage of GDP to 2.3% in the latest quarter, following lending of 0.2% in Quarter 1 2023. This was driven by a rise in equity and investment fund shares and units of £72.7 billion and a rise in derivatives and employee stock options of £16.2 billion. This was partially offset by a fall in net currency and deposits of £66.3 billion.

Non-financial corporations switched to a net lending as a percentage of GDP of 1.7% in the latest quarter, following net borrowing of 0.2% in Quarter 1 2023. Within this sector, private non-financial corporations (PNFCs) switched to net lending as a percentage of GDP of 1.5% following borrowing of 0.2% in Quarter 2 2023. This was driven by increased currency and deposits of £17.4 billion together with increased net loans at £14.2 billion, partially offset by fall in net equity and investment fund shares and units of £27.5 billion.

General government increased their net borrowing as a percentage of GDP to 9.7% in the latest quarter, from 2.7% in Quarter 1 2023. This rise was driven by a fall in net debt securities of £67.4 billion, offset by increased deposits at £21.4 billion.

8 . International comparisons

Gross Domestic Product (GDP)

Table 5: Real GDP growth for the G7 economies

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

Country	Quarter on previous quarter (%)							Quarter on quarter growth (%), Q2 2023 compared to prepandemic Q4 2019	Annual growth (%)	
	Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023	Q2 2023	2021	2022	
Canada	0.6	0.9	0.6	0.0	0.6	0.0	3.5	5.0	3.4	
France	-0.1	0.4	0.3	0.1	0.0	0.5	1.7	6.4	2.5	
Germany	1.0	-0.1	0.4	-0.4	-0.1	0.0	0.2	3.2	1.8	
Italy	0.1	1.2	0.3	-0.2	0.6	-0.4	2.1	8.3	3.7	
Japan	-0.6	1.3	-0.3	0.1	0.8	1.2	3.0	2.2	1.0	
United Kingdom	0.5	0.1	-0.1	0.1	0.3	0.2	1.8	8.7	4.3	
United States	-0.4	-0.1	0.8	0.6	0.5	0.5	6.1	5.9	2.1	

Source: GDP quarterly national accounts from the Office for National Statistics, Organisation for Economic Co-operation and Development, and Italian National Institute of Statistics

Notes

1. Q1 refers to Quarter 1 (Jan to Mar), Q2 refers to Quarter 2 (Apr to June), Q3 refers to Quarter 3 (July to Sept) and Q4 refers to Quarter 4 (Oct to Dec).
2. The Group of Seven (G7) is an intergovernmental organisation, which consists of the United States, UK, France, Germany, Italy, Canada and Japan.
3. Annual growths for Italy have been calculated using the annual national accounts data from the Istat website, retrieved on 28 September 2023. All other data are accessed and retrieved from the OECD website on 28 September 2023, where revision policies for published estimates can differ between countries.

9 . GDP quarterly national accounts data

[GDP – data tables](#)

Dataset | Released 29 September 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 29 September 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 29 September 2023

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

10 . Glossary

11 . Measuring the data

Reaching the GDP balance

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

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

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

Alignment adjustments, found in Table M of our [GDP 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 challenges of balancing the three approaches of GDP article](#). Our standard practice is to prefer that the alignment adjustment be out of tolerance rather than over-adjust individual GDP components to achieve a balance. This is most likely to occur in the latest quarter where the constraints are larger, where we must align to the output estimate for the change in GDP, and where the data content is at its lowest.

In this quarter, the alignment adjustment, used to align income to average GDP, is larger than normal (Table 3), reflecting the current challenges and uncertainties within the income approaches, in particular on the measurement of the Energy Price Guarantee scheme and the Energy Bill Relief Scheme within the accounts, although the size of this alignment adjustment has halved since the first estimate, reflecting upward revisions across income components. Work will continue with a focus on the 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 quarterly national accounts dataset
Quarter 1 (Jan to Mar) 2022 to Quarter 2 (Apr to June) 2023

GDP measurement approach and component adjustment applied to		Q1 2022	Q2 2022	Q3 2022	Q4 2022	Q1 2023	Q2 2023
Expenditure							
Non-profit institution serving households consumption	Current prices					120	-150
	Chained volume measure	540	160	300	350	300	400
Gross fixed capital formation	Current prices	1900	1200	100	200	-200	
	Chained volume measure	900	500	500	1400	800	700
Change in inventories	Current prices	500	700	-250	200	-800	-300
	Chained volume measure	-500	-600	-100	1400		500
Trade in services	Current prices	1500	1300	3500	800	2500	-1000
	Chained volume measure	2500	2600	2100	2600	2100	500
Income							
Compensation of employees	Current prices	-1000	250				
Private non-financial corporations gross operating surplus	Current prices		750	-1000	2500	1000	2000

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

Notes

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

GDP monthly estimate

Although this release focuses on providing the best quarterly estimate of GDP, an indicative monthly path for the updated time series is provided in the [dataset](#). A full breakdown of the monthly data consistent with this quarterly release will be available in the next monthly GDP release (on 12 October 2023).

A number of changes have been made to the methods and data sources used in compiling monthly GDP and output approach to measuring GDP estimates as part of Blue Book 2023.

Deflators

As announced in our [Blue Book 2023 changes article](#), we have made a number of deflator improvements as part of Blue Book 2023. The following deflator improvements have been incorporated in our monthly GDP estimates. These will affect all industries that produce these products.

The weights used to combined the Producer Price Index and Export Price Index to create an overall output price have been improved for all of manufacturing.

The amount of Services Producer Price Indices (SPPI) has been increased, replacing lower quality deflators for the following products:

- CPA_J62: Computer programming, consultancy and related services
- CPA_J63: Information services
- CPA_M691: Legal activities
- CPA_M692: Accounting, bookkeeping and auditing services; tax consulting services
- CPA_M70: Services of head offices; management consulting services
- CPA_M71: Architectural and engineering services; technical testing and analysis services
- CPA_M73: Advertising and market research services
- CPA_M74: Other professional, scientific and technical services
- CPA_N82: Office administrative, office support and other business support services

A new methodology to account for changes in the quality of computer hardware has been included within the deflator for product CPA_C26: Computer, electronic and optical products.

The deflator for product CPA_M72: Scientific research and development services has been updated to include a Consumer Price Index (CPI).

Implied deflators from household final consumption expenditure have been replaced with Consumer Price Indices (CPI).

Non-market and market sector breakdowns

We have expanded our non-market output industry coverage to be consistent with our approach to supply and use, bringing in data for the non-profit institutions serving households (NPISH) sector to go alongside general government data sources.

The annual Blue Book processing, where we align our monthly output estimates with the higher quality annual estimates of gross value added (GVA) from supply use, is now done separately for each sector, using estimates of market output for the market sector and non-market output for the non-market sector. These concepts are slightly different as the non-market sector can produce market output where an economically significant fee is charged, which will be included in the GVA estimate but the approach taken provides the best estimate in the short term.

Estimates of GVA in the most recent time periods (often referred to as “the tail” which are time periods beyond where supply use estimates are available), are created separately for the market and non-market sectors by splicing the growth from our market and non-market output series onto the series that have been aligned to sectors GVA from supply use. This removes the need for fixed based weights for aggregating market and non-market data to estimate the total economy.

Market output continues to be measured in the same way, predominantly using the Monthly Business Survey (MBS). While the MBS will pick up some non-market output of the NPISH sector, this is a small component and it remains the best estimate of market sector growth in our short-term estimates.

Office for Statistics Regulation revisions of estimates of UK GDP review

As previously announced, the Office for Statistics Regulation (OSR) is [undertaking a short review](#) into the practices around the preparation and release of information about revisions to estimates of GDP. For more details please contact regulation@statistics.gov.uk.

12 . Strengths and limitations

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

Important quality information

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

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

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

Many different approaches can be used to summarise revisions; the “Accuracy and reliability” section in the Gross domestic product (GDP) QMI analyses the mean average revision and the mean absolute revision for GDP estimates over data publication iterations.

13 . Related links

[GDP first quarterly estimate, UK: January to March 2023](#)

Bulletin | Released 12 May 2023

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

[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.

[Communicating the UK economic cycle](#)

Article | Released 11 November 2022

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

14 . Cite this statistical bulletin

Office for National Statistics (ONS), released 29 September 2023, ONS website, statistical bulletin, [GDP quarterly national accounts, UK: April to June 2023](#)

A1 National accounts aggregates^{1,2}

2019 = 100

	Value indices at current prices		Chained volume indices				Implied deflators ³			
	Gross domestic product at market prices	Gross value added at basic prices	Gross domestic product at market prices	Gross value added at basic prices	Gross national disposable income at market prices	Market sector gross value added	Gross national expenditure	Gross domestic product at market prices	Gross value added at basic prices	
	YBEU	YBEX	YBEZ	CGCE	YBFP	L48H	YBFV	YBGB	CGBV	
2020	94.2	95.1	89.6	90.0	88.0	92.2	104.7	105.1	105.6	
2021	102.2	102.6	97.4	97.6	98.3	98.5	105.1	105.0	105.0	
2022	112.2	112.5	101.7	101.6	101.7	102.3	111.5	110.4	110.8	
Seasonally adjusted										
2021 Q1	96.3	97.2	91.2	91.6	91.8	93.9	105.5	105.6	106.1	
Q2	101.7	102.1	97.9	98.2	99.3	99.1	103.4	103.9	104.0	
Q3	104.1	104.2	99.5	99.7	100.0	100.0	104.8	104.6	104.6	
Q4	106.8	106.6	101.1	101.0	102.1	101.1	106.5	105.7	105.5	
2022 Q1	109.0	108.8	101.6	101.5	100.2	101.9	108.3	107.3	107.2	
Q2	111.4	111.3	101.7	101.6	103.0	102.4	110.6	109.5	109.6	
Q3	112.9	112.6	101.6	101.5	100.7	102.2	113.3	111.1	110.9	
Q4	115.4	117.4	101.7	101.7	103.0	102.5	114.1	113.5	115.4	
2023 Q1	117.9	121.7	102.1	102.1	102.0	103.0	115.9	115.5	119.2	
Q2	120.9	122.2	102.2	102.2	101.6	103.1	117.8	118.2	119.6	
Percentage change, latest year on previous year										
	IHYM	KGL6	IHYP	KGM7	KH6X	L489	KH7D	IHYS	KGM4	
2020	-5.8	-4.9	-10.4	-10.0	-12.0	-7.8	4.7	5.1	5.6	
2021	8.5	7.8	8.7	8.4	11.7	6.8	0.3	-0.1	-0.5	
2022	9.7	9.7	4.3	4.1	3.5	3.8	6.1	5.2	5.5	
Percentage change, latest quarter on previous quarter										
	IHYN	KGL8	IHYQ	KGM9	KH6Z		KH7E	IHYT	KGM5	
2021 Q1	-0.1	0.2	-1.0	-1.2	1.5	-0.9	0.9	0.9	1.4	
Q2	5.6	5.0	7.3	7.1	8.2	5.5	-2.0	-1.7	-1.9	
Q3	2.4	2.1	1.7	1.6	0.7	0.9	1.4	0.7	0.5	
Q4	2.6	2.3	1.5	1.3	2.1	1.1	1.6	1.1	0.9	
2022 Q1	2.0	2.1	0.5	0.5	-1.9	0.9	1.7	1.5	1.6	
Q2	2.2	2.3	0.1	0.1	2.9	0.5	2.1	2.1	2.2	
Q3	1.4	1.2	-0.1	-0.1	-2.3	-0.3	2.5	1.5	1.3	
Q4	2.2	4.2	0.1	0.2	2.3	0.3	0.7	2.1	4.0	
2023 Q1	2.1	3.7	0.3	0.4	-1.0	0.5	1.6	1.8	3.3	
Q2	2.5	0.4	0.2	0.1	-0.3	0.1	1.7	2.4	0.3	
Percentage change, latest quarter on corresponding quarter of previous year										
	IHYO	KGM2	IHYR	KG3	KH73	L48D	KH7F	IHYU	KGM6	
2021 Q1	-3.3	-2.7	-6.7	-6.5	-5.2	-5.4	4.1	3.6	4.1	
Q2	19.4	17.7	25.7	25.7	33.9	22.5	-5.7	-5.1	-6.3	
Q3	9.0	7.8	9.5	9.1	10.5	6.4	0.1	-0.5	-1.3	
Q4	10.8	9.9	9.7	9.0	12.9	6.7	1.9	1.0	0.8	
2022 Q1	13.2	11.9	11.4	10.8	9.2	8.5	2.7	1.6	1.0	
Q2	9.5	9.0	3.9	3.5	3.8	3.4	6.9	5.4	5.3	
Q3	8.5	8.1	2.1	1.9	0.7	2.2	8.0	6.3	6.1	
Q4	8.0	10.1	0.7	0.7	0.9	1.4	7.1	7.3	9.4	
2023 Q1	8.1	11.9	0.5	0.5	1.8	1.0	7.0	7.6	11.2	
Q2	8.5	9.8	0.6	0.6	-1.4	0.6	6.6	7.9	9.1	

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

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

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

A2 National accounts aggregates¹

£ million

	Current prices					Chained Volume Measures (Reference year 2019)				
	Gross national income at market prices	Net income from abroad ²	Gross domestic product at market prices	less Basic price adjustment ³	Gross value added at basic prices	Gross domestic product at market prices	less Basic price adjustment ³	Gross value added at basic prices	Gross value added excluding oil & gas ⁴	
	ABMZ	CAES	YBHA	NTAP	ABML	ABMI	NTAO	ABMM	KLS2	
2020	2 059 457	-44 831	2 104 288	206 331	1 897 957	2 002 489	205 615	1 796 874	1 779 274	
2021	2 296 612	12 533	2 284 079	237 443	2 046 636	2 176 203	227 882	1 948 321	1 935 444	
2022	2 518 852	12 682	2 506 170	260 123	2 246 047	2 270 793	243 373	2 027 420	2 014 814	
Seasonally adjusted										
2021 Q1	537 213	-799	538 012	52 924	485 088	509 261	52 033	457 228	453 611	
Q2	569 781	1 894	567 887	58 390	509 497	546 579	56 847	489 732	486 948	
Q3	583 950	2 444	581 506	61 437	520 069	555 956	58 630	497 326	493 957	
Q4	605 668	8 994	596 674	64 692	531 982	564 407	60 372	504 035	500 928	
2022 Q1	602 020	-6 797	608 817	65 918	542 899	567 372	60 865	506 507	503 339	
Q2	631 397	9 386	622 011	66 555	555 456	567 878	60 953	506 925	503 642	
Q3	632 494	1 843	630 651	68 662	561 989	567 392	60 860	506 532	503 363	
Q4	652 941	8 250	644 691	58 988	585 703	568 151	60 695	507 456	504 470	
2023 Q1	655 033	-3 296	658 329	51 075	607 254	569 973	60 691	509 282	506 534	
Q2	664 776	-10 333	675 109	65 270	609 839	571 043	61 120	509 923	507 202	
Percentage change, latest year on previous year										
	KH74		IHYM		KGL6	IHYP		KGM7	KLH8	
2020	-7.7		-5.8		-4.9	-10.4		-10.0	-10.1	
2021	11.5		8.5		7.8	8.7		8.4	8.8	
2022	9.7		9.7		9.7	4.3		4.1	4.1	
Percentage change, latest quarter on previous quarter										
	KH75		IHYN		KGL8	IHYQ		KGM9		
2021 Q1	1.3		-0.1		0.2	-1.0		-1.2	-1.1	
Q2	6.1		5.6		5.0	7.3		7.1	7.3	
Q3	2.5		2.4		2.1	1.7		1.6	1.4	
Q4	3.7		2.6		2.3	1.5		1.3	1.4	
2022 Q1	-0.6		2.0		2.1	0.5		0.5	0.5	
Q2	4.9		2.2		2.3	0.1		0.1	0.1	
Q3	0.2		1.4		1.2	-0.1		-0.1	-0.1	
Q4	3.2		2.2		4.2	0.1		0.2	0.2	
2023 Q1	0.3		2.1		3.7	0.3		0.4	0.4	
Q2	1.5		2.5		0.4	0.2		0.1	0.1	
Percentage change, latest quarter on corresponding quarter of previous year										
	KH76		IHYO		KGM2	IHYR		KGN3	KLH9	
2021 Q1	-1.8		-3.3		-2.7	-6.7		-6.5	-1.7	
Q2	25.5		19.4		17.7	25.7		25.7	5.8	
Q3	10.6		9.0		7.8	9.5		9.1	2.3	
Q4	14.2		10.8		9.9	9.7		9.0	2.2	
2022 Q1	12.1		13.2		11.9	11.4		10.8	2.6	
Q2	10.8		9.5		9.0	3.9		3.5	0.8	
Q3	8.3		8.5		8.1	2.1		1.9	0.5	
Q4	7.8		8.0		10.1	0.7		0.7	0.2	
2023 Q1	8.8		8.1		11.9	0.5		0.5	0.2	
Q2	5.3		8.5		9.8	0.6		0.6	0.2	

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

2 Includes employment, entrepreneurial and property income.

3 Taxes on products less subsidies.

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

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

2019 = 100

	Production						Service industries						Gross value added ⁴	Gross value added excluding oil & gas
	Agri-culture, forestry, and fishing	Mining & quarrying inc oil & gas extract	Manu-facturing	Electric, gas, steam & air	Water supply, sewerage	Total	Constr-uction	Distri-bution, hotels & restaura-nts	Trans-port storage and commu-nications	Business services and finance	Govern-ment and other services	Total		
2019 Weights³	7	11	98	15	12	136	62	133	103	340	218	794	1000	991
	L2KL	L2KR	L2KX	L2MW	L2N2	L2KQ	L2N8	L2PZ	KI8M	KI8O	KI8Q	L2NC	CGCE	KLH7
2020	90.7	100.1	102.2	105.0	101.6	102.3	87.4	79.4	91.2	96.3	79.3	88.1	90.0	89.9
2021	84.6	76.7	103.8	71.3	106.0	98.3	96.0	96.1	99.0	101.3	92.7	97.7	97.6	97.8
2022	85.8	76.1	100.4	63.1	106.2	94.9	102.2	101.1	107.7	103.9	101.4	103.3	101.6	101.9
Seasonally adjusted														
2021 Q1	83.1	84.3	105.4	85.5	105.8	101.6	93.6	79.7	93.2	99.7	79.1	89.8	91.6	91.7
Q2	83.8	68.5	104.8	76.4	106.1	99.0	97.5	99.3	98.8	101.4	92.2	98.2	98.2	98.5
Q3	85.5	79.0	102.6	62.4	105.7	96.6	95.7	104.2	100.6	101.6	97.1	100.6	99.7	99.9
Q4	85.8	74.8	102.5	61.0	106.6	96.2	97.1	101.3	103.2	102.5	102.2	102.3	101.0	101.3
2022 Q1	85.5	77.4	101.8	64.0	106.9	96.2	100.1	101.5	106.8	102.8	102.7	103.1	101.5	101.8
Q2	86.1	78.7	100.9	63.4	107.5	95.6	102.0	101.9	107.1	104.0	101.0	103.2	101.6	101.8
Q3	86.1	76.4	99.2	62.5	105.5	93.9	102.6	100.4	108.4	104.4	100.9	103.3	101.5	101.8
Q4	85.6	71.9	99.8	62.3	104.9	93.9	104.1	100.5	108.5	104.6	101.1	103.5	101.7	102.0
2023 Q1	85.5	67.2	100.3	62.7	105.8	94.0	104.7	100.4	109.4	104.8	101.7	103.8	102.1	102.4
Q2	85.6	66.4	102.1	62.4	104.7	95.2	105.0	100.8	109.6	104.4	102.1	103.8	102.2	102.6
Percentage change, latest year on previous year														
	L3BB	L3BH	L3BN	L3DM	L3DQ	L3BG	L3DW	L3GP	KI8L	KI8N	KI8P	L3E2	KGM7	KLH8
2020	-9.3	0.1	2.2	5.0	1.6	2.3	-12.6	-20.6	-8.8	-3.7	-20.7	-11.9	-10.0	-10.1
2021	-6.8	-23.4	1.6	-32.1	4.4	-3.9	9.8	21.1	8.4	5.2	16.9	10.9	8.4	8.8
2022	1.5	-0.7	-3.3	-11.6	0.2	-3.5	6.5	5.2	8.8	2.6	9.5	5.6	4.1	4.1
Percentage change, latest quarter on previous quarter														
													KGM9	
2021 Q1	-3.8	-8.4	-4.3	-12.6	1.0	-4.9	-0.5	-3.2	-0.8	1.5	-2.2	-0.4	-1.2	-1.1
Q2	0.8	-18.8	-0.6	-10.6	0.3	-2.6	4.1	24.7	6.0	1.7	16.7	9.3	7.1	7.3
Q3	2.1	15.4	-2.1	-18.4	-0.3	-2.4	-1.9	4.8	1.8	0.2	5.3	2.5	1.6	1.4
Q4	0.3	-5.3	-0.1	-2.2	0.8	-0.5	1.5	-2.8	2.5	0.9	5.3	1.6	1.3	1.4
2022 Q1	-0.4	3.4	-0.7	4.9	0.3	-	3.1	0.2	3.6	0.3	0.4	0.8	0.5	0.5
Q2	0.7	1.8	-0.9	-1.0	0.6	-0.6	1.9	0.4	0.2	1.2	-1.6	0.2	0.1	0.1
Q3	-	-2.9	-1.7	-1.3	-1.9	-1.8	0.6	-1.5	1.2	0.3	-0.1	-	-0.1	-0.1
Q4	-0.6	-5.9	0.6	-0.3	-0.6	-	1.5	-	0.1	0.2	0.2	0.2	0.2	0.2
2023 Q1	-	-6.6	0.5	0.6	0.8	0.1	0.6	-0.1	0.8	0.2	0.5	0.3	0.4	0.4
Q2	-	-1.2	1.9	-0.4	-1.1	1.2	0.3	0.4	0.2	-0.5	0.4	-	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
2021 Q1	-16.3	-18.8	1.7	-22.1	3.5	-2.5	-5.4	-12.6	-5.8	0.1	-16.8	-7.2	-6.5	-1.7
Q2	-4.4	-34.5	20.1	-28.2	8.9	8.0	49.0	76.3	22.8	10.6	44.3	28.0	25.7	5.8
Q3	-4.4	-21.0	-4.9	-41.2	3.6	-9.3	5.1	18.8	9.9	6.3	25.3	13.4	9.1	2.3
Q4	-0.7	-18.7	-6.9	-37.7	1.7	-10.1	3.2	23.1	9.7	4.4	26.5	13.4	9.0	2.2
2022 Q1	2.9	-8.3	-3.4	-25.2	1.0	-5.3	6.9	27.4	14.6	3.1	29.9	14.7	10.8	2.6
Q2	2.8	14.9	-3.7	-17.1	1.4	-3.4	4.6	2.6	8.3	2.6	9.5	5.1	3.5	0.8
Q3	0.6	-3.3	-3.3	0.2	-0.2	-2.8	7.2	-3.6	7.7	2.8	3.9	2.6	1.9	0.5
Q4	-0.3	-3.9	-2.7	2.1	-1.6	-2.3	7.2	-0.8	5.2	2.1	-1.1	1.1	0.7	0.2
2023 Q1	0.1	-13.1	-1.5	-2.0	-1.0	-2.2	4.6	-1.1	2.4	2.0	-1.0	0.7	0.5	0.2
Q2	-0.6	-15.7	1.2	-1.5	-2.7	-0.5	3.0	-1.1	2.4	0.3	1.1	0.6	0.6	0.2

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

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

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

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

B2 Gross value added at chained volume measures basic prices, by category of output^{1,2}

2019 = 100

Service industries											
	Wholesale and retail trade	Transport storage and communications	Accommodation & food services	Financial and insurance activities	Real estate	Professional scientific admin & support	Public admin, defence, social security	Education	Health and social work	Other services ⁴	Total services
2019 Weights³	102	103	30	82	131	127	49	58	76.9	34	794
	L2NE	KI8M	L2NQ	L2O6	L2OC	L2OH	L2P8	L2PA	L2PC	L2Q5	L2NC
2020	84.4	91.2	62.2	98.4	99.5	91.4	94.8	79.6	70.0	77.4	88.1
2021	100.4	99.0	81.6	103.8	101.1	99.8	96.8	90.5	94.5	86.4	97.7
2022	101.0	107.7	101.5	104.9	101.7	105.7	100.3	100.7	104.9	96.5	103.3
Seasonally adjusted											
2021 Q1	89.1	93.2	47.7	102.9	101.0	96.3	93.7	76.6	72.3	77.3	89.8
Q2	104.3	98.8	82.6	103.4	101.2	100.3	97.2	94.0	90.6	85.9	98.2
Q3	104.4	100.6	103.5	102.9	100.9	101.3	98.1	95.6	101.6	88.2	100.6
Q4	103.8	103.2	92.6	106.1	101.2	101.4	98.1	95.9	113.3	94.2	102.3
2022 Q1	102.4	106.8	98.6	105.1	101.4	102.8	99.5	100.1	110.3	94.4	103.1
Q2	101.1	107.1	104.6	105.1	101.8	105.6	99.6	101.1	103.9	96.3	103.2
Q3	100.1	108.4	101.7	105.1	101.9	106.5	100.9	101.2	102.3	97.2	103.3
Q4	100.3	108.5	101.0	104.1	101.7	107.9	101.2	100.6	102.8	98.3	103.5
2023 Q1	99.9	109.4	101.9	105.4	101.5	108.0	100.5	101.5	103.0	100.6	103.8
Q2	99.8	109.6	104.0	104.5	101.3	107.4	100.5	101.9	103.3	102.0	103.8
Percentage change, latest year on previous year											
	L3E4	KI8L	L3EG	L3EU	L3F2	L3F7	L3FW	L3FY	L3G2	L3GT	L3E2
2020	-15.6	-8.8	-37.8	-1.6	-0.5	-8.6	-5.2	-20.4	-30.0	-22.6	-11.9
2021	18.9	8.4	31.3	5.4	1.6	9.2	2.0	13.7	35.0	11.7	10.9
2022	0.6	8.8	24.3	1.0	0.6	5.9	3.7	11.3	11.0	11.7	5.6
Percentage change, latest quarter on previous quarter											
2021 Q1	-1.5	-0.8	-12.9	1.2	1.6	1.7	0.6	-13.1	8.6	-6.3	-0.4
Q2	17.0	6.0	73.1	0.5	0.2	4.1	3.7	22.7	25.2	11.2	9.3
Q3	0.1	1.8	25.3	-0.4	-0.3	1.0	1.0	1.7	12.2	2.6	2.5
Q4	-0.5	2.5	-10.5	3.1	0.3	0.1	-	0.3	11.4	6.8	1.6
2022 Q1	-1.4	3.6	6.4	-0.9	0.1	1.4	1.5	4.3	-2.6	0.2	0.8
Q2	-1.2	0.2	6.2	0.1	0.5	2.7	-	1.0	-5.8	2.0	0.2
Q3	-1.0	1.2	-2.8	-	-	0.8	1.3	0.1	-1.6	0.9	-
Q4	0.2	0.1	-0.6	-0.9	-0.2	1.3	0.3	-0.6	0.5	1.1	0.2
2023 Q1	-0.4	0.8	0.9	1.2	-0.2	0.1	-0.7	0.9	0.2	2.4	0.3
Q2	-0.2	0.2	2.1	-0.8	-0.2	-0.5	0.1	0.4	0.2	1.4	-
Percentage change, latest quarter on corresponding quarter of the previous year											
	L44S	KI12	L456	L45K	L45Q	L45V	L46M	L46O	L46Q	L47J	L44Q
2021 Q1	-0.4	-5.8	-50.9	4.1	0.5	-3.0	-3.0	-17.1	-25.4	-16.6	-7.2
Q2	52.7	22.8	424.3	8.0	2.1	23.4	1.3	67.9	69.6	56.0	28.0
Q3	16.4	9.9	27.8	5.4	1.9	11.9	4.6	16.7	61.3	11.4	13.4
Q4	14.9	9.7	69.1	4.4	1.8	7.1	5.3	8.8	70.1	14.1	13.4
2022 Q1	14.9	14.6	106.5	2.1	0.3	6.8	6.3	30.6	52.5	22.1	14.7
Q2	-3.0	8.3	26.7	1.7	0.6	5.3	2.5	7.5	14.7	12.0	5.1
Q3	-4.1	7.7	-1.8	2.1	0.9	5.1	2.8	5.9	0.7	10.2	2.6
Q4	-3.4	5.2	9.1	-1.8	0.4	6.4	3.1	4.9	-9.2	4.3	1.1
2023 Q1	-2.4	2.4	3.4	0.3	0.1	5.0	0.9	1.4	-6.6	6.6	0.7
Q2	-1.3	2.4	-0.6	-0.6	-0.5	1.7	1.0	0.8	-0.6	6.0	0.6

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

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

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

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

C1 Gross domestic product: expenditure at current market prices¹

£ million

National expenditure on goods and services at market prices															
Final consumption expenditure							Gross capital formation							Statistical discrepancy (expenditure)	Gross domestic product at market prices
Households	Non-profit institutions ^{2,7}	General government	Gross fixed capital formation	Of which business investment ³	Of which changes in inventories ⁴	Of which alignment adjustments	Acquisitions less disposals of valuables ⁵	Total	Total exports	Gross final expenditure	less imports	Total	Trade balance ⁶		
ABJQ	HAYE	NMRP	NPQS	NPEK	CAEX	DMUN	NPJQ	YBIL	IKBH	ABMF	IKBI	IKBJ	GIXM	YBHA	
2020	1 201 787	44 286	475 618	367 488	207 363	1 316	–	969 2 091	464 624 805	2 716 269 611	981	12 824	–	2 104 288	
2021	1 322 966	46 370	508 716	403 847	215 979	–3 028	–	8 726 2 287	597 676 026	2 963 623 679	544	–3 518	–	2 284 079	
2022	1 502 608	49 823	525 044	459 733	245 821	25 902	–	–20 024 2 543	086 833 858	3 376 944 901	810	–67 952	31 036	2 506 170	
Seasonally adjusted															
2021 Q1	295 665	10 842	129 099	95 160	50 004	–1 153	–218	8 584	538 197 156	517	694 714 156	702	–185	–	538 012
Q2	331 279	11 451	126 020	99 190	52 670	–7 639	–2 963	–583	559 718 170	177	729 895 162	008	8 169	–	567 887
Q3	345 193	11 910	126 347	104 563	56 612	585	277	3 684	592 282 163	010	755 292 173	786	–10 776	–	581 506
Q4	350 829	12 167	127 250	104 934	56 693	5 179	2 904	–2 959	597 400 186	322	783 722 187	048	–726	–	596 674
2022 Q1	361 327	12 187	132 920	111 264	59 555	9 891	–3 137	8 153	635 742 178	657	814 399 212	558	–33 901	6 976	608 817
Q2	374 610	12 359	127 910	113 771	61 327	11 807	3 240	2 133	642 590 198	285	840 875 226	886	–28 601	8 022	622 011
Q3	379 252	12 558	131 996	116 792	62 407	1 768	–2 192	–12 442	629 924 226	140	856 064 232	789	–6 649	7 376	630 651
Q4	387 419	12 719	132 218	117 906	62 532	2 436	2 089	–17 868	634 830 230	776	865 606 229	577	1 199	8 662	644 691
2023 Q1	396 288	12 780	132 831	121 751	65 646	–479	1 172	–6 036	657 135 217	553	874 688 225	208	–7 655	8 849	658 329
Q2	404 221	12 670	140 658	123 542	68 455	–1 521	753	–3 620	675 950 214	787	890 737 224	704	–9 917	9 076	675 109
Percentage change, latest year on previous year															
	KG77	KGZ8	KH2C	KG6O	KG6N			KGX3	KH2O	KG7V	KH3H			IHYM	
2020	–12.8	–10.2	11.5	–9.6	–9.3			–7.7	–11.6	–8.6	–17.1			–5.8	
2021	10.1	4.7	7.0	9.9	4.2			9.4	8.2	9.1	11.0			8.5	
2022	13.6	7.4	3.2	13.8	13.8			11.2	23.3	13.9	32.7			9.7	
Percentage change, latest quarter on previous quarter															
	KG78	KGZ9	KH2D	KG6W	KG6V			KGX4	KH2P	KG78	KH3I			IHYN	
2021 Q1	–2.4	–1.8	4.2	–1.7	–5.8			–2.7	–1.1	–2.3	–9.1			–0.1	
Q2	12.0	5.6	–2.4	4.2	5.3			4.0	8.7	5.1	3.4			5.6	
Q3	4.2	4.0	0.3	5.4	7.5			5.8	–4.2	3.5	7.3			2.4	
Q4	1.6	2.2	0.7	0.4	0.1			0.9	14.3	3.8	7.6			2.6	
2022 Q1	3.0	0.2	4.5	6.0	5.0			6.4	–4.1	3.9	13.6			2.0	
Q2	3.7	1.4	–3.8	2.3	3.0			1.1	11.0	3.3	6.7			2.2	
Q3	1.2	1.6	3.2	2.7	1.8			–2.0	14.0	1.8	2.6			1.4	
Q4	2.2	1.3	0.2	1.0	0.2			0.8	2.1	1.1	–1.4			2.2	
2023 Q1	2.3	0.5	0.5	3.3	5.0			3.5	–5.7	1.0	–1.9			2.1	
Q2	2.0	–0.9	5.9	1.5	4.3			2.9	–1.3	1.8	–0.2			2.5	
Percentage change, latest quarter on corresponding quarter of previous year															
	KG79	KH22	KH2E	KG76	KG75			KGX5	KH2Q	KG79	KH3J			IHYO	
2021 Q1	–11.4	–10.9	18.5	–3.1	–11.6			–2.6	–8.8	–4.1	–6.7			–3.3	
Q2	29.1	11.3	3.8	23.8	13.2			23.6	15.6	21.6	30.2			19.4	
Q3	11.9	10.5	4.1	13.2	10.7			11.1	10.3	10.9	18.1			9.0	
Q4	15.8	10.2	2.7	8.4	6.8			8.0	17.8	10.2	8.5			10.8	
2022 Q1	22.2	12.4	3.0	16.9	19.1			18.1	14.1	17.2	35.6			13.2	
Q2	13.1	7.9	1.5	14.7	16.4			14.8	16.5	15.2	40.0			9.5	
Q3	9.9	5.4	4.5	11.7	10.2			6.4	38.7	13.3	34.0			8.5	
Q4	10.4	4.5	3.9	12.4	10.3			6.3	23.9	10.4	22.7			8.0	
2023 Q1	9.7	4.9	–0.1	9.4	10.2			3.4	21.8	7.4	6.0			8.1	
Q2	7.9	2.5	10.0	8.6	11.6			5.2	8.3	5.9	–1.0			8.5	

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

2 Non-profit institutions serving households.

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

4 Quarterly alignment adjustment included in this series.

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

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

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

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

Reference year 2019, £ million

National expenditure on goods and services at market prices															
Final consumption expenditure							Gross capital formation							Statistical discrepancy (expenditure)	Gross domestic product at market prices
Households	Non-profit institutions ^{2,7}	General government	Gross fixed capital formation	Of which business investment ³	Of which changes in inventories ⁴	Of which alignment adjustments	Acquisitions less disposals of valuables ⁵	Total	Total exports	Gross final expenditure	less imports	Total balance ⁶			
ABJR	HAYO	NMRY	NPQT	NPEL	CAFU	DMUM	NPJR	YBIM	IKBK	ABMG	IKBL	IKBM	GIXS	ABMI	
2020	1 199 896	39 044	392 967	362 657	204 300	2 523	-	-445 1	996 642	625 640	2 622 282	619 793	5 847	-	2 002 489
2021	1 289 290	41 815	451 510	389 652	208 294	-1 714	-	6 959 2	1 777 512	656 554	2 834 066	657 863	-1 309	-	2 176 203
2022	1 351 939	47 766	462 849	420 601	228 260	17 185	-	-19 458 2	2 280 882	712 741	2 993 623	750 925	-38 184	28 095	2 270 793
Seasonally adjusted															
2021 Q1	291 628	9 352	105 864	93 777	48 113	2 619	-203	6 979	510 219	154 707	664 926	155 665	-958	-	509 261
Q2	325 915	10 536	114 096	98 872	53 705	-7 457	-2 839	-545	541 417	166 787	708 204	161 625	5 162	-	546 579
Q3	335 438	10 905	115 146	98 233	53 035	2 108	281	3 118	564 948	159 497	724 445	168 489	-8 992	-	555 956
Q4	336 309	11 022	116 404	98 770	53 441	1 016	2 761	-2 593	560 928	175 563	736 491	172 084	3 479	-	564 407
2022 Q1	338 756	11 636	117 297	104 443	55 875	9 177	-2 898	5 762	587 071	161 894	748 965	188 094	-26 200	6 501	567 372
Q2	339 924	11 909	114 908	104 512	56 960	8 155	-2 984	1 848	581 256	170 897	752 153	191 599	-20 702	7 324	567 878
Q3	336 822	12 069	115 748	105 808	57 966	-2 928	-1 947	-11 384	556 135	189 799	745 934	185 178	4 621	6 636	567 392
Q4	336 437	12 152	114 896	105 838	57 459	2 781	1 861	-15 684	556 420	190 151	746 571	186 054	4 097	7 634	568 151
2023 Q1	338 909	12 037	113 546	108 477	59 775	-742	1 025	-5 107	567 120	177 929	745 049	182 737	-4 808	7 661	569 973
Q2	340 690	11 499	116 414	109 370	62 208	-2 024	642	-2 122	573 827	176 328	750 155	186 789	-10 461	7 677	571 043
Percentage change, latest year on previous year															
2020	KGZ5	KH26	KH2I	KG7N	KG7M			KGX9	KH2U	KGW5	KH3N			IHYP	
2021	-13.0	-20.8	-7.9	-10.8	-10.6			-11.9	-11.5	-11.8	-16.0			-10.4	
2022	7.5	7.1	14.9	7.4	2.0			9.1	4.9	8.1	6.1			8.7	
2022	4.9	14.2	2.5	7.9	9.6			4.7	8.6	5.6	14.1			4.3	
Percentage change, latest quarter on previous quarter															
2021 Q1	KGZ6	KH27	KH2J	KG7Q	KG7P			KGY2	KH2V	KGW6	KH3O			IHYQ	
Q2	-3.3	-7.7	1.0	-2.5	-9.1			-3.6	-1.8	-3.2	-9.6			-1.0	
Q3	11.8	12.7	7.8	5.4	11.6			6.1	7.8	6.5	3.8			7.3	
Q4	2.9	3.5	0.9	-0.6	-1.2			4.3	-4.4	2.3	4.2			1.7	
2022 Q1	0.7	5.6	0.8	5.7	4.6			-0.7	10.1	1.7	2.1			1.5	
Q2	0.7	5.6	0.8	5.7	4.6			4.7	-7.8	1.7	9.3			0.5	
Q3	0.3	2.3	-2.0	0.1	1.9			-1.0	5.6	0.4	1.9			0.1	
Q4	-0.9	1.3	0.7	1.2	1.8			-4.3	11.1	-0.8	-3.4			-0.1	
2023 Q1	-0.1	0.7	-0.7	-	-0.9			0.1	0.2	0.1	0.5			0.1	
2023 Q1	0.7	-0.9	-1.2	2.5	4.0			1.9	-6.4	-0.2	-1.8			0.3	
Q2	0.5	-4.5	2.5	0.8	4.1			1.2	-0.9	0.7	2.2			0.2	
Percentage change, latest quarter on corresponding quarter of previous year															
2021 Q1	KGZ7	KH28	KH2K	KG7T	KG7S			KGY3	KH2W	KGW7	KH3P			IHYR	
Q2	-12.8	-17.7	2.2	-3.5	-14.1			-6.4	-9.2	-7.0	-8.3			-6.7	
Q3	26.9	33.3	34.8	25.9	18.7			31.0	12.1	26.0	26.8			25.7	
Q4	9.2	13.0	15.2	8.2	5.8			11.0	7.1	10.1	12.1			9.5	
2022 Q1	11.5	8.8	11.0	2.7	1.0			6.0	11.4	7.2	-0.1			9.7	
2022 Q1	16.2	24.4	10.8	11.4	16.1			15.1	4.6	12.6	20.8			11.4	
Q2	4.3	13.0	0.7	5.7	6.1			7.4	2.5	6.2	18.5			3.9	
Q3	0.4	10.7	0.5	7.7	9.3			-1.6	19.0	3.0	9.9			2.1	
Q4	-	10.3	-1.3	7.2	7.5			-0.8	8.3	1.4	8.1			0.7	
2023 Q1	-	3.4	-3.2	3.9	7.0			-3.4	9.9	-0.5	-2.8			0.5	
Q2	0.2	-3.4	1.3	4.6	9.2			-1.3	3.2	-0.3	-2.5			0.6	

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D Gross domestic product by category of income: current prices¹

£ million

	Compensation of employees		Gross operating surplus of corporations							Taxes on production less subsidies				Statistical discrepancy (income)	Gross domestic product at market prices
	Wages and Salaries	Employers social contributions	Private non-financial corporations ²	Of which alignment adjustment	Financial corporations	Public corporations	Total ³	Other income ⁴	Gross value added at factor cost	Taxes	Subsidies	Total			
	DTWL	DTWP	DTWM	CAER	DMUQ	NHCZ	CAEQ	CGBZ	CGBX	CGCB	NTAB	AAXW	CMVL	GIXQ	YBHA
2020	894 610	200 334	1 094 944	384 939	–	81 738	11 803 478	480	397 917	1 971 341	254 253	121 306	132 947	–	2 104 288
2021	949 974	206 178	1 156 152	394 531	–	96 433	13 091 504	055	412 913	2 073 120	283 726	72 767	210 959	–	2 284 079
2022	1 018 551	222 820	1 241 371	434 902	–	110 575	13 946 559	423	446 095	2 246 889	324 660	42 224	282 436	–23 155	2 506 170
Seasonally adjusted															
2021 Q1	229 737	50 732	280 469	94 201	–2 100	22 183	3 048 119	432	102 342	502 243	64 336	28 567	35 769	–	538 012
Q2	236 601	51 845	288 446	100 523	2 399	24 755	3 477 128	755	103 275	520 476	69 807	22 396	47 411	–	567 887
Q3	239 866	52 142	292 008	99 976	1 361	24 149	3 182 127	307	102 974	522 289	73 057	13 840	59 217	–	581 506
Q4	243 770	51 459	295 229	99 831	–1 660	25 346	3 384 128	561	104 322	528 112	76 526	7 964	68 562	–	596 674
2022 Q1	248 708	53 825	302 533	103 844	–1 199	26 223	3 314 133	381	107 932	543 846	78 674	8 394	70 280	–5 309	608 817
Q2	251 753	55 726	307 479	108 701	1 542	26 824	3 432 138	957	109 005	555 441	80 261	7 868	72 393	–5 823	622 011
Q3	256 121	56 525	312 646	105 110	–1 150	28 090	3 600 136	800	112 379	561 825	82 499	8 012	74 487	–5 661	630 651
Q4	261 969	56 744	318 713	117 247	807	29 438	3 600 150	285	116 779	585 777	83 226	17 950	65 276	–6 362	644 691
2023 Q1	267 136	56 429	323 565	128 047	5 878	29 478	3 591 161	116	122 596	607 277	82 880	25 330	57 550	–6 498	658 329
Q2	273 144	56 986	330 130	125 092	8 409	28 079	3 448 156	619	123 821	610 570	83 845	12 641	71 204	–6 665	675 109
Percentage change, latest year on previous year															
	CWNH	CWNE	KGI3	KH59	KH5L	KH53	KH4V	KH6T	KH6N	JJDC	JJDU	KH65	IHYM		
2020	0.2	2.9	0.7	–2.1	2.8	–2.6	–1.3	0.5	0.2	–12.3	398.3	–49.9	–5.8		
2021	6.2	2.9	5.6	2.5	18.0	10.9	5.3	3.8	5.2	11.6	–40.0	58.7	8.5		
2022	7.2	8.1	7.4	10.2	14.7	6.5	11.0	8.0	8.4	14.4	–42.0	33.9	9.7		
Percentage change, latest quarter on previous quarter															
	CWNI	CWNI	KGI4	KH5A	KH5M	KH54	KH4W	KH6U	KH6O	JJDH	JJZ	KH66	IHYN		
2021 Q1	0.3	–2.1	–0.1	–0.2	9.9	–2.8	1.5	2.0	0.7	–2.6	8.4	–10.0	–0.1		
Q2	3.0	2.2	2.8	6.7	11.6	14.1	7.8	0.9	3.6	8.5	–21.6	32.5	5.6		
Q3	1.4	0.6	1.2	–0.5	–2.4	–8.5	–1.1	–0.3	0.3	4.7	–38.2	24.9	2.4		
Q4	1.6	–1.3	1.1	–0.1	5.0	6.3	1.0	1.3	1.1	4.7	–42.5	15.8	2.6		
2022 Q1	2.0	4.6	2.5	4.0	3.5	–2.1	3.7	3.5	3.0	2.8	5.4	2.5	2.0		
Q2	1.2	3.5	1.6	4.7	2.3	3.6	4.2	1.0	2.1	2.0	–6.3	3.0	2.2		
Q3	1.7	1.4	1.7	–3.3	4.7	4.9	–1.6	3.1	1.1	2.8	1.8	2.9	1.4		
Q4	2.3	0.4	1.9	11.5	4.8	–	9.9	3.9	4.3	0.9	124.0	–12.4	2.2		
2023 Q1	2.0	–0.6	1.5	9.2	0.1	–0.2	7.2	5.0	3.7	–0.4	41.1	–11.8	2.1		
Q2	2.2	1.0	2.0	–2.3	–4.7	–4.0	–2.8	1.0	0.5	1.2	–50.1	23.7	2.5		
Percentage change, latest quarter on corresponding quarter of previous year															
	CWNJ	CWNG	KGI5	KH5B	KH5N	KH55	KH4X	KH6V	KH6P	JJDS	JJG4	KH67	IHYO		
2021 Q1	2.0	3.5	2.3	–0.7	–0.2	3.7	–0.5	3.0	1.7	–9.8	221.6	–42.7	–3.3		
Q2	8.7	6.9	8.4	8.5	26.4	28.2	12.0	4.8	8.5	29.5	–61.3	302.7	19.4		
Q3	7.7	2.2	6.7	–2.9	22.3	5.6	1.2	3.4	4.7	16.1	–50.9	70.6	9.0		
Q4	6.4	–0.7	5.1	5.8	25.6	7.9	9.2	3.9	5.8	15.8	–69.8	72.6	10.8		
2022 Q1	8.3	6.1	7.9	10.2	18.2	8.7	11.7	5.5	8.3	22.3	–70.6	96.5	13.2		
Q2	6.4	7.5	6.6	8.1	8.4	–1.3	7.9	5.5	6.7	15.0	–64.9	52.7	9.5		
Q3	6.8	8.4	7.1	5.1	16.3	13.1	7.5	9.1	7.6	12.9	–42.1	25.8	8.5		
Q4	7.5	10.3	8.0	17.4	16.1	6.4	16.9	11.9	10.9	8.8	125.4	–4.8	8.0		
2023 Q1	7.4	4.8	7.0	23.3	12.4	8.4	20.8	13.6	11.7	5.3	201.8	–18.1	8.1		
Q2	8.5	2.3	7.4	15.1	4.7	0.5	12.7	13.6	9.9	4.5	60.7	–1.6	8.5		

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

2 Quarterly alignment adjustment included in this series.

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

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

E1 Household final consumption expenditure by purpose Current prices

£ million

UK NATIONAL ²															
UK DOMESTIC ³															
COICOP ¹	Total	Net tourism	Total	Food & drink	Alcohol & tobacco	Clothing & footwear	Housing	Household goods & services	Health	Transport	Communication	Recreation & culture	Education	Restaurants & hotels	Miscellaneous
				01	02	03	04	05	06	07	08	09	10	11	12
	ABJQ	ABTF	ZAKV	ZWUM	ZAKX	ZAKZ	ZAVN	ZAVV	ZAWB	ZAWL	ZAVV	ZAWZ	ZWUS	ZAXR	ZAYF
2020	1 201 787	2 467	1 199 320	116 529	49 366	56 107	354 835	68 094	22 684	123 254	29 576	116 695	29 912	88 561	143 707
2021	1 322 966	607	1 322 359	117 950	48 403	62 840	366 820	73 875	28 644	147 424	27 740	134 285	32 841	122 524	159 013
2022	1 502 608	16 379	1 486 229	124 039	46 096	70 599	393 544	75 242	29 747	191 412	27 499	144 032	35 321	166 666	182 032
Seasonally adjusted															
2021 Q1	295 665	-1 487	297 152	29 690	12 570	13 502	90 614	17 105	6 334	29 545	6 943	30 816	7 921	15 324	36 788
Q2	331 279	-1 213	332 492	29 453	12 419	16 332	91 691	19 526	7 092	35 188	7 025	34 128	8 130	31 159	40 349
Q3	345 193	333	344 860	29 221	11 761	16 270	91 491	18 441	7 571	39 376	6 945	34 251	8 313	40 963	40 257
Q4	350 829	2 974	347 855	29 586	11 653	16 736	93 024	18 803	7 647	43 315	6 827	35 090	8 477	35 078	41 619
2022 Q1	361 327	2 745	358 582	29 416	11 458	17 398	93 876	19 000	7 494	45 909	7 026	36 126	8 615	39 236	43 028
Q2	374 610	4 962	369 648	30 169	11 535	17 450	97 799	18 657	7 248	47 274	6 872	36 140	8 756	43 145	44 603
Q3	379 252	4 329	374 923	31 584	11 572	17 625	99 829	18 738	7 447	48 562	6 899	35 957	8 901	42 071	45 738
Q4	387 419	4 343	383 076	32 870	11 531	18 126	102 040	18 847	7 558	49 667	6 702	35 809	9 049	42 214	48 663
2023 Q1	396 288	5 595	390 693	33 862	11 459	18 296	103 655	19 361	7 897	48 042	6 897	36 176	9 202	43 253	52 593
Q2	404 221	5 483	398 738	34 721	11 995	18 489	104 984	19 522	8 169	49 923	6 900	37 509	9 357	45 028	52 141
Percentage change, latest year on previous year															
2020	KG7Y		KG6U	KG9N	KG6F	KG9F	KG6G	KG6H	KG6I	KG6J	KG6K	KG6L	KG6M	KG6N	KG6O
	-12.8		-11.6	6.4	14.5	-19.6	1.5	2.8	-21.0	-36.1	4.7	-12.8	2.3	-38.5	-11.3
2021	10.1		10.3	1.2	-2.0	12.0	3.4	8.5	26.3	19.6	-6.2	15.1	9.8	38.3	10.7
2022	13.6		12.4	5.2	-4.8	12.3	7.3	1.9	3.9	29.8	-0.9	7.3	7.6	36.0	14.5
Percentage change, latest quarter on previous quarter															
2021 Q1	KG78		KG74	KG9R	KG64	KG62	KG68	KG66	KG67	KG65	KG63	KG69	KG6B	KG6C	KG6E
	-2.4		-1.9	4.4	-0.4	-10.8	1.5	-4.2	3.0	-1.8	-7.5	0.3	2.8	-27.4	1.4
Q2	12.0		11.9	-0.8	-1.2	21.0	1.2	14.2	12.0	19.1	1.2	10.7	2.6	103.3	9.7
Q3	4.2		3.7	-0.8	-5.3	-0.4	-0.2	-5.6	6.8	11.9	-1.1	0.4	2.3	31.5	-0.2
Q4	1.6		0.9	1.2	-0.9	2.9	1.7	2.0	1.0	10.0	-1.7	2.4	2.0	-14.4	3.4
2022 Q1	3.0		3.1	-0.6	-1.7	4.0	0.9	1.0	-2.0	6.0	2.9	3.0	1.6	11.9	3.4
Q2	3.7		3.1	2.6	0.7	0.3	4.2	-1.8	-3.3	3.0	-2.2	-	1.6	10.0	3.7
Q3	1.2		1.4	4.7	0.3	1.0	2.1	0.4	2.7	2.7	0.4	-0.5	1.7	-2.5	2.5
Q4	2.2		2.2	4.1	-0.4	2.8	2.2	0.6	1.5	2.3	-2.9	-0.4	1.7	0.3	6.4
2023 Q1	2.3		2.0	3.0	-0.6	0.9	1.6	2.7	4.5	-3.3	2.9	1.0	1.7	2.5	8.1
Q2	2.0		2.1	2.5	4.7	1.1	1.3	0.8	3.4	3.9	-	3.7	1.7	4.1	-0.9
Percentage change, latest quarter on corresponding quarter of previous year															
2021 Q1	KG79		KG7C	KG9V	KG65	KG63	KG69	KG67	KG68	KG66	KG64	KG6L	KG6B	KG6C	KG6E
	-11.4		-10.0	1.1	11.8	-6.3	2.8	2.2	-6.6	-30.6	-5.2	-6.3	6.2	-55.5	-5.2
Q2	29.1		29.1	-1.6	-3.8	38.6	4.0	27.4	60.1	105.0	-1.6	38.5	11.1	338.0	27.6
Q3	11.9		11.7	1.5	-6.6	10.1	2.5	1.4	42.1	17.8	-8.7	20.4	11.9	58.3	8.9
Q4	15.8		14.9	4.0	-7.6	10.6	4.2	5.3	24.4	44.0	-9.0	14.2	10.1	66.2	14.7
2022 Q1	22.2		20.7	-0.9	-8.8	28.9	3.6	11.1	18.3	55.4	1.2	17.2	8.8	156.0	17.0
Q2	13.1		11.2	2.4	-7.1	6.8	6.7	-4.5	2.2	34.3	-2.2	5.9	7.7	38.5	10.5
Q3	9.9		8.7	8.1	-1.6	8.3	9.1	1.6	-1.6	23.3	-0.7	5.0	7.1	2.7	13.6
Q4	10.4		10.1	11.1	-1.0	8.3	9.7	0.2	-1.2	14.7	-1.8	2.0	6.7	20.3	16.9
2023 Q1	9.7		9.0	15.1	-	5.2	10.4	1.9	5.4	4.6	-1.8	0.1	6.8	10.2	22.2
Q2	7.9		7.9	15.1	4.0	6.0	7.3	4.6	12.7	5.6	0.4	3.8	6.9	4.4	16.9

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	1 201 787	2 467	1 199 320	523 919	123 114	113 196	287 609	675 401	
2021	1 322 966	607	1 322 359	565 427	130 067	127 723	307 637	756 932	
2022	1 502 608	16 379	1 486 229	613 928	139 533	133 603	340 792	872 301	
Seasonally adjusted									
2021 Q1	295 665	-1 487	297 152	131 679	28 219	28 684	74 776	165 473	
Q2	331 279	-1 213	332 492	145 739	34 598	33 457	77 684	186 753	
Q3	345 193	333	344 860	142 399	33 337	32 561	76 501	202 461	
Q4	350 829	2 974	347 855	145 610	33 913	33 021	78 676	202 245	
2022 Q1	361 327	2 745	358 582	148 261	35 608	33 437	79 216	210 321	
Q2	374 610	4 962	369 648	151 634	34 161	33 400	84 073	218 014	
Q3	379 252	4 329	374 923	155 367	34 832	33 202	87 333	219 556	
Q4	387 419	4 343	383 076	158 666	34 932	33 564	90 170	224 410	
2023 Q1	396 288	5 595	390 693	159 844	34 519	33 996	91 329	230 849	
Q2	404 221	5 483	398 738	162 469	35 483	34 542	92 444	236 269	
Percentage change, latest year on previous year									
	KG7		KG6U	KHC9	KHB5	KHH5	KHE5	KHF9	
2020	-12.8		-11.6	-5.5	-7.9	-14.1	-0.4	-15.9	
2021	10.1		10.3	7.9	5.6	12.8	7.0	12.1	
2022	13.6		12.4	8.6	7.3	4.6	10.8	15.2	
Percentage change, latest quarter on previous quarter									
	KG78		KG74	KHD2	KHB6	KHH6	KHE6	KHG2	
2021 Q1	-2.4		-1.9	-2.3	-14.0	-6.4	4.9	-1.6	
Q2	12.0		11.9	10.7	22.6	16.6	3.9	12.9	
Q3	4.2		3.7	-2.3	-3.6	-2.7	-1.5	8.4	
Q4	1.6		0.9	2.3	1.7	1.4	2.8	-0.1	
2022 Q1	3.0		3.1	1.8	5.0	1.3	0.7	4.0	
Q2	3.7		3.1	2.3	-4.1	-0.1	6.1	3.7	
Q3	1.2		1.4	2.5	2.0	-0.6	3.9	0.7	
Q4	2.2		2.2	2.1	0.3	1.1	3.2	2.2	
2023 Q1	2.3		2.0	0.7	-1.2	1.3	1.3	2.9	
Q2	2.0		2.1	1.6	2.8	1.6	1.2	2.3	
Percentage change, latest quarter on corresponding quarter of previous year									
	KG79		KG7C	KHD3	KHB7	KHH7	KHE7	KHG3	
2021 Q1	-11.4		-10.0	-1.2	-8.5	0.2	1.3	-16.0	
Q2	29.1		29.1	24.1	50.0	38.5	10.7	33.2	
Q3	11.9		11.7	2.8	-8.4	9.5	5.8	19.0	
Q4	15.8		14.9	8.1	3.3	7.7	10.4	20.3	
2022 Q1	22.2		20.7	12.6	26.2	16.6	5.9	27.1	
Q2	13.1		11.2	4.0	-1.3	-0.2	8.2	16.7	
Q3	9.9		8.7	9.1	4.5	2.0	14.2	8.4	
Q4	10.4		10.1	9.0	3.0	1.6	14.6	11.0	
2023 Q1	9.7		9.0	7.8	-3.1	1.7	15.3	9.8	
Q2	7.9		7.9	7.1	3.9	3.4	10.0	8.4	

1 ESA 10 Classification of Individual Consumption by Purpose.

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

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

E3 Household final consumption expenditure by purpose

Chained volume measures

Reference year 2019, £ million

UK NATIONAL ²															
UK DOMESTIC ³															
COICOP ¹	Total	Net tourism	Total	Food & drink	Alcohol & tobacco	Clothing & footwear	Housing	Household goods & services	Health	Transport	Communication	Recreation & culture	Education	Restaurants & hotels	Miscellaneous
				01	02	03	04	05	06	07	08	09	10	11	12
	ABJR	ABTH	ZAKW	ZWUN	ZAKY	ZALA	ZAVO	ZAVW	ZAWC	ZAWM	ZAWW	ZAXA	ZWUT	ZAXS	ZAYG
2020	1 199 896	2 591 1	1 197 305	115 249	48 303	56 634	353 610	67 996	22 172	121 780	34 459	114 830	27 682	87 627	146 963
2021	1 289 290	2 282 1	1 287 008	116 158	46 367	63 239	359 458	71 531	27 333	136 792	34 543	128 694	31 190	116 224	155 479
2022	1 351 939	17 784 1	1 334 155	110 052	42 707	66 247	357 058	65 970	27 400	158 934	34 929	131 654	32 281	149 065	157 858
Seasonally adjusted															
2021 Q1	291 628	-1 932	293 560	29 460	12 088	14 375	89 934	16 983	6 132	27 641	8 418	29 946	7 622	14 730	36 231
Q2	325 915	-823	326 738	29 249	12 018	16 529	90 938	19 142	6 776	33 739	8 689	32 971	7 818	29 217	39 652
Q3	335 438	1 063	334 375	28 820	11 280	16 178	89 047	17 754	7 182	36 591	8 713	32 636	7 957	38 138	40 079
Q4	336 309	3 974	332 335	28 629	10 981	16 157	89 539	17 652	7 243	38 821	8 723	33 141	7 793	34 139	39 517
2022 Q1	338 756	3 522	335 234	27 810	10 767	17 080	89 501	17 201	7 012	39 121	8 910	33 451	7 944	36 336	40 101
Q2	339 924	5 521	334 403	27 635	10 733	16 464	89 206	16 493	6 731	39 718	8 612	33 248	8 072	37 661	39 830
Q3	336 822	4 478	332 344	27 356	10 699	16 273	89 323	16 293	6 828	39 423	8 729	32 722	8 180	37 368	39 150
Q4	336 437	4 263	332 174	27 251	10 508	16 430	89 028	15 983	6 829	40 672	8 678	32 233	8 085	37 700	38 777
2023 Q1	338 909	5 434	333 475	27 147	10 360	16 715	89 203	16 148	6 943	41 246	8 858	32 218	8 221	37 696	38 720
Q2	340 690	5 272	335 418	26 959	10 430	16 316	89 912	16 122	7 077	41 991	8 812	32 671	8 360	37 792	38 976
Percentage change, latest year on previous year															
2020	KGZ5		KG7O	KG9Y	KGF6	KGG4	KGH2	KGH8	KG19	KGJ7	KGK5	KGL3	KGB8	KGD4	KGE8
	-13.0		-11.8	5.2	12.0	-18.8	1.2	2.7	-22.7	-36.8	22.0	-14.2	-5.4	-39.2	-9.3
2021	7.5		7.5	0.8	-4.0	11.7	1.7	5.2	23.3	12.3	0.2	12.1	12.7	32.6	5.8
2022	4.9		3.7	-5.3	-7.9	4.8	-0.7	-7.8	0.2	16.2	1.1	2.3	3.5	28.3	1.5
Percentage change, latest quarter on previous quarter															
2021 Q1	KGZ6		KG7R	KGA3	KGF7	KGG5	KGH3	KGH9	KGJ2	KGJ8	KGK6	KGL4	KGB9	KGD5	KGE9
	-3.3		-2.6	4.4	-1.0	-3.9	0.8	-4.3	1.8	-5.5	-5.3	-0.3	7.8	-30.5	-1.1
Q2	11.8		11.3	-0.7	-0.6	15.0	1.1	12.7	10.5	22.1	3.2	10.1	2.6	98.4	9.4
Q3	2.9		2.3	-1.5	-6.1	-2.1	-2.1	-7.3	6.0	8.5	0.3	-1.0	1.8	30.5	1.1
Q4	0.3		-0.6	-0.7	-2.7	-0.1	0.6	-0.6	0.8	6.1	0.1	1.5	-2.1	-10.5	-1.4
2022 Q1	0.7		0.9	-2.9	-1.9	5.7	-	-2.6	-3.2	0.8	2.1	0.9	1.9	6.4	1.5
Q2	0.3		-0.2	-0.6	-0.3	-3.6	-0.3	-4.1	-4.0	1.5	-3.3	-0.6	1.6	3.6	-0.7
Q3	-0.9		-0.6	-1.0	-0.3	-1.2	0.1	-1.2	1.4	-0.7	1.4	-1.6	1.3	-0.8	-1.7
Q4	-0.1		-0.1	-0.4	-1.8	1.0	-0.3	-1.9	-	3.2	-0.6	-1.5	-1.2	0.9	-1.0
2023 Q1	0.7		0.4	-0.4	-1.4	1.7	0.2	1.0	1.7	1.4	2.1	-	1.7	-	-0.1
Q2	0.5		0.6	-0.7	0.7	-2.4	0.8	-0.2	1.9	1.8	-0.5	1.4	1.7	0.3	0.7
Percentage change, latest quarter on corresponding quarter of previous year															
2021 Q1	KGZ7		KG7U	KGA6	KGF8	KGG6	KGH4	KG12	KGJ3	KGJ9	KGK7	KGL5	KGC2	KGD6	KGF2
	-12.8		-11.3	1.0	7.8	-2.6	2.7	1.4	-8.1	-34.8	0.3	-8.1	3.5	-57.2	-8.5
Q2	26.9		26.8	-0.3	-4.1	37.6	2.9	24.8	57.3	94.4	5.4	35.9	22.0	348.9	19.9
Q3	9.2		8.8	1.0	-8.6	8.5	0.6	-2.2	39.1	11.7	-2.6	16.8	16.3	49.6	6.4
Q4	11.5		10.3	1.5	-10.1	8.0	0.4	-0.6	20.2	32.7	-1.8	10.3	10.2	61.1	7.9
2022 Q1	16.2		14.2	-5.6	-10.9	18.8	-0.5	1.3	14.4	41.5	5.8	11.7	4.2	146.7	10.7
Q2	4.3		2.3	-5.5	-10.7	-0.4	-1.9	-13.8	-0.7	17.7	-0.9	0.8	3.2	28.9	0.4
Q3	0.4		-0.6	-5.1	-5.2	0.6	0.3	-8.2	-4.9	7.7	0.2	0.3	2.8	-2.0	-2.3
Q4	-		-	-4.8	-4.3	1.7	-0.6	-9.5	-5.7	4.8	-0.5	-2.7	3.7	10.4	-1.9
2023 Q1	-		-0.5	-2.4	-3.8	-2.1	-0.3	-6.1	-1.0	5.4	-0.6	-3.7	3.5	3.7	-3.4
Q2	0.2		0.3	-2.4	-2.8	-0.9	0.8	-2.2	5.1	5.7	2.3	-1.7	3.6	0.3	-2.1

1 ESA 10 Classification of Individual Consumption by Purpose.

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

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

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	1 199 896	2 591	1 197 305	521 164	119 894	113 381	287 889	676 141	
2021	1 289 290	2 282	1 287 008	547 755	120 748	126 482	300 525	739 253	
2022	1 351 939	17 784	1 334 155	530 218	120 012	123 936	286 270	803 937	
Seasonally adjusted									
2021 Q1	291 628	-1 932	293 560	130 182	26 384	29 465	74 333	163 378	
Q2	325 915	-823	326 738	143 754	32 765	33 343	77 646	182 984	
Q3	335 438	1 063	334 375	136 958	30 699	31 933	74 326	197 417	
Q4	336 309	3 974	332 335	136 861	30 900	31 741	74 220	195 474	
2022 Q1	338 756	3 522	335 234	135 622	30 783	31 906	72 933	199 612	
Q2	339 924	5 521	334 403	132 729	29 947	31 099	71 683	201 674	
Q3	336 822	4 478	332 344	131 168	29 692	30 490	70 986	201 176	
Q4	336 437	4 263	332 174	130 699	29 590	30 441	70 668	201 475	
2023 Q1	338 909	5 434	333 475	130 615	29 463	30 828	70 324	202 860	
Q2	340 690	5 272	335 418	130 874	29 503	30 482	70 889	204 544	
Percentage change, latest year on previous year									
2020	KGZ5		KG7O	KHD7	KHC3	KHI3	KHF3	KHG7	
	-13.0		-11.8	-6.0	-10.3	-13.9	-0.3	-15.8	
2021	7.5		7.5	5.1	0.7	11.6	4.4	9.3	
2022	4.9		3.7	-3.2	-0.6	-2.0	-4.7	8.7	
Percentage change, latest quarter on previous quarter									
2021 Q1	KGZ6		KG7R	KHD8	KHC4	KHI4	KHF4	KHG8	
	-3.3		-2.6	-2.7	-16.6	-3.0	3.5	-2.5	
Q2	11.8		11.3	10.4	24.2	13.2	4.5	12.0	
Q3	2.9		2.3	-4.7	-6.3	-4.2	-4.3	7.9	
Q4	0.3		-0.6	-0.1	0.7	-0.6	-0.1	-1.0	
2022 Q1	0.7		0.9	-0.9	-0.4	0.5	-1.7	2.1	
Q2	0.3		-0.2	-2.1	-2.7	-2.5	-1.7	1.0	
Q3	-0.9		-0.6	-1.2	-0.9	-2.0	-1.0	-0.2	
Q4	-0.1		-0.1	-0.4	-0.3	-0.2	-0.4	0.1	
2023 Q1	0.7		0.4	-0.1	-0.4	1.3	-0.5	0.7	
Q2	0.5		0.6	0.2	0.1	-1.1	0.8	0.8	
Percentage change, latest quarter on corresponding quarter of previous year									
2021 Q1	KGZ7		KG7U	KHD9	KHC5	KHI5	KHF5	KHG9	
	-12.8		-11.3	-1.9	-13.3	1.8	1.3	-17.5	
Q2	26.9		26.8	22.5	44.0	36.9	10.6	30.3	
Q3	9.2		8.8	-0.2	-12.5	7.4	2.6	16.1	
Q4	11.5		10.3	2.3	-2.4	4.5	3.3	16.6	
2022 Q1	16.2		14.2	4.2	16.7	8.3	-1.9	22.2	
Q2	4.3		2.3	-7.7	-8.6	-6.7	-7.7	10.2	
Q3	0.4		-0.6	-4.2	-3.3	-4.5	-4.5	1.9	
Q4	-		-	-4.5	-4.2	-4.1	-4.8	3.1	
2023 Q1	-		-0.5	-3.7	-4.3	-3.4	-3.6	1.6	
Q2	0.2		0.3	-1.4	-1.5	-2.0	-1.1	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 equipment ³	Dwellings ⁴	Other buildings and structures ⁵	Intellectual Property Products		
	Business investment ¹	General government	Dwellings ⁴	Costs of transfer of ownership of non-produced assets	Dwellings ⁴	Costs of transfer of ownership of non-produced assets	Total								
2020	NPEK 207 363	RPZG 66 087	L62R 4 282	L62S 787	L62T 71 468	L62U 17 498	NPQS 367 488	TLPX 19 000	TLPW 58 392	GGAE 76 745	EQED 120 507	TLPK 92 844	NPQS 367 488		
2021	215 979	71 712	5 197	636	88 931	21 392	403 847	17 208	63 941	94 316	131 273	97 111	403 847		
2022	245 821	77 947	6 249	725	105 671	23 320	459 733	26 360	71 000	112 017	148 415	101 941	459 733		
Seasonally adjusted															
2021 Q1	50 004	18 039	1 164	145	20 882	4 926	95 160	3 592	15 211	22 115	31 742	22 500	95 160		
Q2	52 670	17 679	1 287	154	22 145	5 255	99 190	3 878	15 499	23 460	31 944	24 411	99 190		
Q3	56 612	18 066	1 336	163	22 838	5 548	104 563	4 544	17 055	24 213	33 680	25 071	104 563		
Q4	56 693	17 928	1 410	174	23 066	5 663	104 934	5 194	16 176	24 528	33 907	25 129	104 934		
2022 Q1	59 555	19 449	1 482	174	24 770	5 834	111 264	6 041	18 362	26 295	35 525	25 041	111 264		
Q2	61 327	18 346	1 517	195	26 339	6 047	113 771	6 753	17 422	27 864	36 578	25 154	113 771		
Q3	62 407	19 339	1 617	190	27 231	6 008	116 792	6 539	17 788	28 860	37 871	25 734	116 792		
Q4	62 532	20 813	1 633	166	27 331	5 431	117 906	7 027	17 428	28 998	38 441	26 012	117 906		
2023 Q1	65 646	22 072	1 690	148	26 996	5 199	121 751	7 136	19 645	28 762	40 029	26 179	121 751		
Q2	68 455	21 444	1 572	152	26 867	5 052	123 542	8 844	19 295	28 511	40 291	26 601	123 542		
Percentage change, latest year on previous year															
2020	KG6N -9.3	KH7N 6.4	L64E -7.2	L64H -33.2	L64K -17.2	L64N -25.8	KG6O -9.6	KG6T -10.4	KG6S -8.4	KH7X -16.2	KH7W -12.8	KG6R 1.2	KG6O -9.6		
2021	4.2	8.5	21.4	-19.2	24.4	22.3	9.9	-9.4	9.5	22.9	8.9	4.6	9.9		
2022	13.8	8.7	20.2	14.0	18.8	9.0	13.8	53.2	11.0	18.8	13.1	5.0	13.8		
Percentage change, latest quarter on previous quarter															
2021 Q1	KG6V -5.8	KH7P 5.1	L64F 3.9	L64I 9.8	L64L 1.7	L64O 4.0	KG6W -1.7	KG73 -41.7	KG72 -1.2	KH83 2.7	KH82 2.9	KG6Z -1.6	KG6W -1.7		
Q2	5.3	-2.0	10.6	6.2	6.0	6.7	4.2	8.0	1.9	6.1	0.6	8.5	4.2		
Q3	7.5	2.2	3.8	5.8	3.1	5.6	5.4	17.2	10.0	3.2	5.4	2.7	5.4		
Q4	0.1	-0.8	5.5	6.7	1.0	2.1	0.4	14.3	-5.2	1.3	0.7	0.2	0.4		
2022 Q1	5.0	8.5	5.1	-	7.4	3.0	6.0	16.3	13.5	7.2	4.8	-0.4	6.0		
Q2	3.0	-5.7	2.4	12.1	6.3	3.7	2.3	11.8	-5.1	6.0	3.0	0.5	2.3		
Q3	1.8	5.4	6.6	-2.6	3.4	-0.6	2.7	-3.2	2.1	3.6	3.5	2.3	2.7		
Q4	0.2	7.6	1.0	-12.6	0.4	-9.6	1.0	7.5	-2.0	0.5	1.5	1.1	1.0		
2023 Q1	5.0	6.0	3.5	-10.8	-1.2	-4.3	3.3	1.6	12.7	-0.8	4.1	0.6	3.3		
Q2	4.3	-2.8	-7.0	2.7	-0.5	-2.8	1.5	23.9	-1.8	-0.9	0.7	1.6	1.5		
Percentage change, latest quarter on corresponding quarter of previous year															
2021 Q1	KG75 -11.6	KH7R 18.9	L64G -0.6	L64J -40.3	L64M 3.3	L64P 2.0	KG76 -3.1	KG7B -30.7	KG7A -0.9	KH87 2.0	KH86 -0.5	KG79 -6.6	KG76 -3.1		
Q2	13.2	4.9	35.2	-48.3	93.4	29.4	23.8	85.1	16.7	81.5	11.2	5.6	23.8		
Q3	10.7	6.9	28.6	43.0	18.6	43.2	13.2	-18.3	18.7	17.5	16.0	10.1	13.2		
Q4	6.8	4.5	25.9	31.8	12.3	19.6	8.4	-15.7	5.1	13.9	10.0	9.9	8.4		
2022 Q1	19.1	7.8	27.3	20.0	18.6	18.4	16.9	68.2	20.7	18.9	11.9	11.3	16.9		
Q2	16.4	3.8	17.9	26.6	18.9	15.1	14.7	74.1	12.4	18.8	14.5	3.0	14.7		
Q3	10.2	7.0	21.0	16.6	19.2	8.3	11.7	43.9	4.3	19.2	12.4	2.6	11.7		
Q4	10.3	16.1	15.8	-4.6	18.5	-4.1	12.4	35.3	7.7	18.2	13.4	3.5	12.4		
2023 Q1	10.2	13.5	14.0	-14.9	9.0	-10.9	9.4	18.1	7.0	9.4	12.7	4.5	9.4		
Q2	11.6	16.9	3.6	-22.1	2.0	-16.5	8.6	31.0	10.8	2.3	10.2	5.8	8.6		

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	204 300	64 408	4 243	491	71 549	17 667	362 657	18 556	57 976	76 024	119 042	91 059	362 657	
2021	208 294	70 851	5 000	602	85 557	19 349	389 652	17 173	64 375	90 736	124 638	92 729	389 652	
2022	228 260	71 317	5 561	649	94 277	20 537	420 601	25 952	68 105	99 924	131 566	95 054	420 601	
Seasonally adjusted														
2021 Q1	48 113	19 283	1 119	138	20 603	4 522	93 777	3 728	15 088	21 788	31 263	21 910	93 777	
Q2	53 705	16 891	1 292	147	22 125	4 711	98 872	3 687	16 196	23 445	30 971	24 573	98 872	
Q3	53 035	17 338	1 286	154	21 455	4 965	98 233	4 488	16 840	22 778	31 053	23 073	98 233	
Q4	53 441	17 339	1 303	163	21 374	5 151	98 770	5 270	16 251	22 725	31 351	23 173	98 770	
2022 Q1	55 875	19 099	1 352	160	22 702	5 255	104 443	6 076	18 036	24 093	33 033	23 205	104 443	
Q2	56 960	16 841	1 397	175	23 742	5 397	104 512	6 509	16 765	25 146	32 554	23 538	104 512	
Q3	57 966	16 993	1 412	167	24 023	5 247	105 808	6 382	17 142	25 446	32 786	24 052	105 808	
Q4	57 459	18 384	1 400	147	23 810	4 638	105 838	6 985	16 162	25 239	33 193	24 259	105 838	
2023 Q1	59 775	19 335	1 422	130	23 239	4 576	108 477	7 397	17 808	24 726	34 182	24 364	108 477	
Q2	62 208	18 480	1 356	133	22 695	4 498	109 370	8 911	17 729	24 112	33 974	24 644	109 370	
Percentage change, latest year on previous year														
2020	KG7M	KH9Z	L64T	L64W	L654	L64Z	KG7N	KH95	KH96	KH8Y	KH97	KH98	KG7N	
	-10.6	3.6	-8.1	-58.3	-17.1	-25.0	-10.8	-12.5	-9.1	-16.9	-13.8	-0.8	-10.8	
2021	2.0	10.0	17.8	22.6	19.6	9.5	7.4	-7.5	11.0	19.4	4.7	1.8	7.4	
2022	9.6	0.7	11.2	7.8	10.2	6.1	7.9	51.1	5.8	10.1	5.6	2.5	7.9	
Percentage change, latest quarter on previous quarter														
2021 Q1	KG7P	KH9C	L64U	L64X	L655	L652	KG7Q	KH9F	KH9G	KH9A	KH9H	KH9I	KG7Q	
	-9.1	13.1	2.1	7.0	1.7	-3.7	-2.5	-41.2	-2.9	1.8	2.8	-2.4	-2.5	
Q2	11.6	-12.4	15.5	6.5	7.4	4.2	5.4	-1.1	7.3	7.6	-0.9	12.2	5.4	
Q3	-1.2	2.6	-0.5	4.8	-3.0	5.4	-0.6	21.7	4.0	-2.8	0.3	-6.1	-0.6	
Q4	0.8	-	1.3	5.8	-0.4	3.7	0.5	17.4	-3.5	-0.2	1.0	0.4	0.5	
2022 Q1	4.6	10.2	3.8	-1.8	6.2	2.0	5.7	15.3	11.0	6.0	5.4	0.1	5.7	
Q2	1.9	-11.8	3.3	9.4	4.6	2.7	0.1	7.1	-7.0	4.4	-1.5	1.4	0.1	
Q3	1.8	0.9	1.1	-4.6	1.2	-2.8	1.2	-2.0	2.2	1.2	0.7	2.2	1.2	
Q4	-0.9	8.2	-0.8	-12.0	-0.9	-11.6	-	9.4	-5.7	-0.8	1.2	0.9	-	
2023 Q1	4.0	5.2	1.6	-11.6	-2.4	-1.3	2.5	5.9	10.2	-2.0	3.0	0.4	2.5	
Q2	4.1	-4.4	-4.6	2.3	-2.3	-1.7	0.8	20.5	-0.4	-2.5	-0.6	1.1	0.8	
Percentage change, latest quarter on corresponding quarter of previous year														
2021 Q1	KG7S	KH9M	L64V	L64Y	L656	L653	KG7T	KH9P	KH9Q	KH9K	KH9R	KH9S	KG7T	
	-14.1	30.6	-1.6	-2.8	1.7	-7.7	-3.5	-24.1	-1.0	1.2	-1.0	-8.5	-3.5	
Q2	18.7	3.6	30.9	36.1	89.7	11.1	25.9	81.4	24.0	85.0	8.8	10.0	25.9	
Q3	5.8	6.5	25.7	37.5	10.8	29.7	8.2	-14.9	19.1	11.5	8.6	3.3	8.2	
Q4	1.0	1.7	18.9	26.4	5.5	9.7	2.7	-16.9	4.6	6.2	3.1	3.2	2.7	
2022 Q1	16.1	-1.0	20.8	15.9	10.2	16.2	11.4	63.0	19.5	10.6	5.7	5.9	11.4	
Q2	6.1	-0.3	8.1	19.0	7.3	14.6	5.7	76.5	3.5	7.3	5.1	-4.2	5.7	
Q3	9.3	-2.0	9.8	8.4	12.0	5.7	7.7	42.2	1.8	11.7	5.6	4.2	7.7	
Q4	7.5	6.0	7.4	-9.8	11.4	-10.0	7.2	32.5	-0.5	11.1	5.9	4.7	7.2	
2023 Q1	7.0	1.2	5.2	-18.8	2.4	-12.9	3.9	21.7	-1.3	2.6	3.5	5.0	3.9	
Q2	9.2	9.7	-2.9	-24.0	-4.4	-16.7	4.6	36.9	5.8	-4.1	4.4	4.7	4.6	

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

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

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

4 Includes new dwellings and improvements to dwellings.

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

G1 Changes in inventories at current prices ¹

£ million

	Mining and quarrying	Manufacturing industries				Electricity, gas and water supply	Distributive trades			Changes in inventories ³
		Materials and fuel	Work in progress	Finished goods	Total		Wholesale ²	Retail ²	Other industries ³	
Level of inventories held at end-December 2019	442	28 421	20 090	22 084	70 595	567	43 807	34 323	57 637	207 371
2020	FAHS 235	FAGF -464	FADY -109	FALR 207	NZTP -366	FAGI -317	FBHE 3 391	FAHA -170	CWVD -1 457	CAEX 1 316
2021	-1 457	-1 734	424	394	-916	-1 975	2 534	3 222	-4 436	-3 028
2022	-2 137	854	491	5 385	6 730	-1 043	17 612	3 041	1 699	25 902
Seasonally adjusted										
2021 Q1	-789	-1 489	615	1 070	196	-803	256	1 107	-1 120	-1 153
Q2	-355	-425	408	-655	-672	152	-199	676	-7 241	-7 639
Q3	-65	704	-267	-116	321	-1 188	1 012	953	-448	585
Q4	-248	-524	-332	95	-761	-136	1 465	486	4 373	5 179
2022 Q1	-1 462	790	281	2 986	4 057	-443	5 280	4 294	-1 835	9 891
Q2	-512	-226	295	3 164	3 233	-2 302	5 614	2 076	3 698	11 807
Q3	-175	844	-567	-121	156	1 373	6 328	-1 876	-4 038	1 768
Q4	12	-554	482	-644	-716	329	390	-1 453	3 874	2 436
2023 Q1	-269	88	-418	-1 103	-1 433	690	-757	-3 024	4 314	-479
Q2	339	573	-221	609	961	147	-3 671	-874	1 577	-1 521

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

2 Wholesaling and retailing estimates exclude the motor trades.

3 Quarterly alignment adjustment included in this series.

G2 Changes in inventories at chained volume measures¹

Reference year 2019, £ million

	Mining and quarrying	Manufacturing industries				Electricity, gas and water supply	Distributive trades			Changes in inventories ³
		Materials and fuel	Work in progress	Finished goods	Total		Wholesale ²	Retail ²	Other industries ³	
Level of inventories held at end-December 2019	442	28 421	20 090	22 084	70 595	567	43 807	34 323	57 637	207 371
2020	FAEA 5 432	FBNF 632	FBNG -2 527	FBNH 1 599	DHBM -296	FAEB 2 738	FAJX 4 810	FBYN -1 364	DLWX -8 796	CAFU 2 523
2021	-1 043	-2 133	3 591	4 521	5 979	-343	1 447	692	-8 445	-1 714
2022	-1 862	-1 433	-346	4 548	2 769	-814	14 200	3 635	-743	17 185
Seasonally adjusted										
2021 Q1	74	-1 282	2 485	987	2 190	-485	163	1 273	-596	2 619
Q2	-1 067	-203	-163	1 912	1 546	121	-51	-496	-7 510	-7 457
Q3	575	-98	1 039	741	1 682	836	824	393	-2 202	2 108
Q4	-625	-550	230	881	561	-815	511	-478	1 863	1 016
2022 Q1	-1 288	1 170	-29	4 061	5 202	-976	4 171	3 454	-1 386	9 177
Q2	-351	-1 685	-413	3 707	1 609	-1 513	3 928	2 738	1 744	8 155
Q3	-276	908	-813	-1 476	-1 381	2 027	5 677	-1 939	-7 036	-2 928
Q4	53	-1 826	909	-1 744	-2 661	-352	424	-618	5 935	2 781
2023 Q1	520	572	345	-1 493	-576	547	-822	-4 569	4 158	-742
Q2	428	442	-686	591	347	-2 046	-1 155	-1 128	1 530	-2 024

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

2 Wholesaling and retailing estimates exclude the motor trades.

3 Quarterly alignment adjustment included in this series.

H1 Exports and imports of goods and services

Current market prices

£ million

	Exports			Imports			Balance		
	Goods	Services	Total	Goods	Services	Total	Goods	Services	Total ¹
	BOKG	IKBB	IKBH	BOKH	IKBC	IKBI	BOKI	IKBD	IKBJ
2020	314 202	310 603	624 805	441 615	170 366	611 981	-127 413	140 237	12 824
2021	331 240	344 786	676 026	494 666	184 878	679 544	-163 426	159 908	-3 518
2022	422 611	411 247	833 858	641 902	259 908	901 810	-219 291	151 339	-67 952
Seasonally adjusted									
2021 Q1	74 518	81 999	156 517	115 570	41 132	156 702	-41 052	40 867	-185
Q2	85 728	84 449	170 177	119 449	42 559	162 008	-33 721	41 890	8 169
Q3	79 075	83 935	163 010	127 251	46 535	173 786	-48 176	37 400	-10 776
Q4	91 919	94 403	186 322	132 396	54 652	187 048	-40 477	39 751	-726
2022 Q1	88 108	90 549	178 657	156 346	56 212	212 558	-68 238	34 337	-33 901
Q2	99 258	99 027	198 285	161 375	65 511	226 886	-62 117	33 516	-28 601
Q3	117 089	109 051	226 140	165 169	67 620	232 789	-48 080	41 431	-6 649
Q4	118 156	112 620	230 776	159 012	70 565	229 577	-40 856	42 055	1 199
2023 Q1	100 778	116 775	217 553	150 505	74 703	225 208	-49 727	42 072	-7 655
Q2	99 040	115 747	214 787	147 127	77 577	224 704	-48 087	38 170	-9 917
Percentage change, latest year on previous year									
	KG9K	KH35	KH2O	KG9L	KH3W	KH3H			
2020	-14.7	-8.2	-11.6	-13.9	-24.2	-17.1			
2021	5.4	11.0	8.2	12.0	8.5	11.0			
2022	27.6	19.3	23.3	29.8	40.6	32.7			
Percentage change, latest quarter on previous quarter									
	KG9O	KH36	KH2P	KG9P	KH3X	KH3I			
2021 Q1	-9.1	7.7	-1.1	-12.7	2.6	-9.1			
Q2	15.0	3.0	8.7	3.4	3.5	3.4			
Q3	-7.8	-0.6	-4.2	6.5	9.3	7.3			
Q4	16.2	12.5	14.3	4.0	17.4	7.6			
2022 Q1	-4.1	-4.1	-4.1	18.1	2.9	13.6			
Q2	12.7	9.4	11.0	3.2	16.5	6.7			
Q3	18.0	10.1	14.0	2.4	3.2	2.6			
Q4	0.9	3.3	2.1	-3.7	4.4	-1.4			
2023 Q1	-14.7	3.7	-5.7	-5.3	5.9	-1.9			
Q2	-1.7	-0.9	-1.3	-2.2	3.8	-0.2			
Percentage change, latest quarter on corresponding quarter of previous year									
	KG9S	KH37	KH2Q	KG9T	KH3Y	KH3J			
2021 Q1	-11.0	-6.7	-8.8	1.5	-23.9	-6.7			
Q2	16.8	14.4	15.6	38.0	12.4	30.2			
Q3	5.3	15.4	10.3	16.9	21.4	18.1			
Q4	12.1	24.0	17.8	-	36.3	8.5			
2022 Q1	18.2	10.4	14.1	35.3	36.7	35.6			
Q2	15.8	17.3	16.5	35.1	53.9	40.0			
Q3	48.1	29.9	38.7	29.8	45.3	34.0			
Q4	28.5	19.3	23.9	20.1	29.1	22.7			
2023 Q1	14.4	29.0	21.8	-3.7	32.9	6.0			
Q2	-0.2	16.9	8.3	-8.8	18.4	-1.0			

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

H2 Exports and imports of goods and services

Chained volume measures

Reference year 2019, £ million

	Exports			Imports			Balance
	Goods	Services	Total	Goods	Services	Total	Total ¹
	BQKQ	IKBE	IKBK	BQKO	IKBF	IKBL	IKBM
2020	323 037	302 603	625 640	449 513	170 280	619 793	5 847
2021	326 582	329 972	656 554	475 535	182 328	657 863	-1 309
2022	355 857	356 884	712 741	518 800	232 125	750 925	-38 184
Seasonally adjusted							
2021 Q1	75 889	78 818	154 707	114 755	40 910	155 665	-958
Q2	85 412	81 375	166 787	118 059	43 566	161 625	5 162
Q3	78 523	80 974	159 497	122 216	46 273	168 489	-8 992
Q4	86 758	88 805	175 563	120 505	51 579	172 084	3 479
2022 Q1	78 477	83 417	161 894	135 298	52 796	188 094	-26 200
Q2	82 607	88 290	170 897	132 061	59 538	191 599	-20 702
Q3	97 252	92 547	189 799	125 213	59 965	185 178	4 621
Q4	97 521	92 630	190 151	126 228	59 826	186 054	4 097
2023 Q1	83 471	94 458	177 929	119 909	62 828	182 737	-4 808
Q2	82 837	93 491	176 328	121 654	65 135	186 789	-10 461
Percentage change, latest year on previous year							
	KG9X	KH3B	KH2U	KG9W	KH44	KH3N	
2020	-12.3	-10.6	-11.5	-12.4	-24.2	-16.0	
2021	1.1	9.0	4.9	5.8	7.1	6.1	
2022	9.0	8.2	8.6	9.1	27.3	14.1	
Percentage change, latest quarter on previous quarter							
	KGA2	KH3C	KH2V	KG9Z	KH45	KH3O	
2021 Q1	-9.5	6.8	-1.8	-13.4	2.9	-9.6	
Q2	12.5	3.2	7.8	2.9	6.5	3.8	
Q3	-8.1	-0.5	-4.4	3.5	6.2	4.2	
Q4	10.5	9.7	10.1	-1.4	11.5	2.1	
2022 Q1	-9.5	-6.1	-7.8	12.3	2.4	9.3	
Q2	5.3	5.8	5.6	-2.4	12.8	1.9	
Q3	17.7	4.8	11.1	-5.2	0.7	-3.4	
Q4	0.3	0.1	0.2	0.8	-0.2	0.5	
2023 Q1	-14.4	2.0	-6.4	-5.0	5.0	-1.8	
Q2	-0.8	-1.0	-0.9	1.5	3.7	2.2	
Percentage change, latest quarter on corresponding quarter of previous year							
	KGA5	KH3D	KH2W	KGA4	KH46	KH3P	
2021 Q1	-9.9	-8.5	-9.2	-0.3	-25.1	-8.3	
Q2	9.8	14.6	12.1	30.7	17.3	26.8	
Q3	1.7	12.9	7.1	9.5	19.4	12.1	
Q4	3.5	20.4	11.4	-9.0	29.7	-0.1	
2022 Q1	3.4	5.8	4.6	17.9	29.1	20.8	
Q2	-3.3	8.5	2.5	11.9	36.7	18.5	
Q3	23.9	14.3	19.0	2.5	29.6	9.9	
Q4	12.4	4.3	8.3	4.7	16.0	8.1	
2023 Q1	6.4	13.2	9.9	-11.4	19.0	-2.8	
Q2	0.3	5.9	3.2	-7.9	9.4	-2.5	

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

H3 Breakdown of exports and imports of goods

Current Prices SA

£ million

	Trade in goods					
	Non-EU Exports	Non-EU Imports	Non-EU Balance	EU Exports	EU Imports	EU Balance
	L87M	L87O	L87K	L87S	L87U	L87Q
2020	165 793	208 621	-42 828	148 409	232 994	-84 585
2021	173 888	257 042	-83 154	157 352	237 624	-80 272
2022	225 972	334 948	-108 976	196 639	306 954	-110 315
2021 Q1	41 658	60 693	-19 035	32 860	54 877	-22 017
Q2	44 953	60 700	-15 747	40 775	58 749	-17 974
Q3	39 657	65 566	-25 909	39 418	61 685	-22 267
Q4	47 620	70 083	-22 463	44 299	62 313	-18 014
2022 Q1	44 329	84 962	-40 633	43 779	71 384	-27 605
Q2	49 196	83 217	-34 021	50 062	78 158	-28 096
Q3	64 646	89 180	-24 534	52 443	75 989	-23 546
Q4	67 801	77 589	-9 788	50 355	81 423	-31 068
2023 Q1	53 755	70 213	-16 458	47 023	80 292	-33 269
Q2	52 743	66 044	-13 301	46 297	81 083	-34 786

H4 Breakdown of exports and imports of goods

Chained Volume Measures SA

£ million

	Trade in Goods					
	Non-EU Exports	Non-EU Imports	Non-EU Balance	EU Exports	EU Imports	EU Balance
	LGEB	LGEU	CTVU	LGCN	LGDF	CTVT
2020	168 542	215 058	-46 516	154 495	234 455	-79 960
2021	173 529	242 767	-69 238	153 053	232 768	-79 715
2022	194 957	248 828	-53 871	160 900	269 972	-109 072
2021 Q1	42 863	60 042	-17 179	33 026	54 713	-21 687
Q2	45 551	59 912	-14 361	39 861	58 147	-18 286
Q3	39 868	61 920	-22 052	38 655	60 296	-21 641
Q4	45 247	60 893	-15 646	41 511	59 612	-18 101
2022 Q1	40 231	68 718	-28 487	38 246	66 580	-28 334
Q2	42 220	62 742	-20 522	40 387	69 319	-28 932
Q3	55 121	59 378	-4 257	42 131	65 835	-23 704
Q4	57 385	57 990	-605	40 136	68 238	-28 102
2023 Q1	45 008	54 065	-9 057	38 463	65 844	-27 381
Q2	44 217	53 628	-9 411	38 620	68 026	-29 406

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

£ million

	Health	Education	Social Protection	Justice and Fire	Military Defence	Central Government Other	Local Government Other	Total
	KSP4	KSP3	KSP7	KSP6	KSP5	KSQ2	KSQ3	NMRP
2020	196 014	76 577	50 199	10 778	43 354	52 129	46 567	475 618
2021	210 823	79 906	53 406	11 422	45 737	58 533	48 889	508 716
2022	209 082	83 728	51 746	12 147	47 823	66 977	53 541	525 044
2021 Q1	55 010	19 748	13 183	3 067	11 348	14 517	12 226	129 099
Q2	52 338	19 774	13 211	2 682	11 566	14 307	12 142	126 020
Q3	51 571	20 000	13 379	2 902	11 245	14 994	12 256	126 347
Q4	51 904	20 384	13 633	2 771	11 578	14 715	12 265	127 250
2022 Q1	55 246	20 533	13 590	2 951	11 786	16 331	12 483	132 920
Q2	50 315	20 645	12 499	3 019	11 690	16 292	13 450	127 910
Q3	51 906	21 239	12 799	3 020	12 219	17 110	13 703	131 996
Q4	51 615	21 311	12 858	3 157	12 128	17 244	13 905	132 218
2023 Q1	52 792	21 522	13 075	3 298	11 647	16 179	14 318	132 831
Q2	56 419	22 076	13 632	3 414	12 876	18 491	13 750	140 658

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

£ million

	Health	Education	Social Protection	Justice and Fire	Military Defence	Central Government Other	Local Government Other	Total
	KSR6	KSR5	KSR9	KSR8	KSR7	KSS4	KSS5	NMRY
2020	143 934	54 615	47 772	9 268	41 683	50 572	45 123	392 967
2021	184 321	64 970	48 932	9 339	42 694	55 384	45 870	451 510
2022	176 612	74 985	49 879	9 862	42 680	60 689	48 142	462 849
2021 Q1	42 532	12 814	12 219	2 302	10 695	13 898	11 404	105 864
Q2	46 260	17 135	12 306	2 347	10 949	13 557	11 542	114 096
Q3	46 790	17 442	12 346	2 327	10 463	14 224	11 554	115 146
Q4	48 739	17 579	12 061	2 363	10 587	13 705	11 370	116 404
2022 Q1	46 499	18 614	12 396	2 449	10 665	15 574	11 100	117 297
Q2	43 550	18 821	12 437	2 414	10 490	14 688	12 508	114 908
Q3	43 154	18 957	12 509	2 567	10 828	15 301	12 432	115 748
Q4	43 409	18 593	12 537	2 432	10 697	15 126	12 102	114 896
2023 Q1	43 043	18 640	12 578	2 433	10 121	14 553	12 178	113 546
Q2	43 667	18 897	12 688	2 416	11 224	15 680	11 842	116 414

Gross value added at basic prices: individual measures

	£ million				Index numbers (2019 = 100) ³				
	Expenditure-based estimate at chained volume measures	At current prices			Value indices at current prices		Chained volume indices		
		Expenditure-based estimate	Income-based estimate	Residual error ¹	Expenditure-based estimate	Income-based estimate	Expenditure-based estimate	Income-based estimate ²	Output-based estimate
	CAGR	CAGQ	CAGS	DJDS	IHYA	IHYB	IHYC	IHYD	YBFR
2020	1 796 874	1 897 957	1 897 957	–	95.1	95.1	90.0	90.0	90.0
2021	1 948 321	2 046 636	2 046 636	–	102.6	102.6	97.6	97.6	97.6
2022	1 999 325	2 215 011	2 269 202	–54 191	111.0	113.7	100.2	102.6	101.9
Seasonally adjusted									
2021 Q1	457 228	485 088	485 088	–	97.2	97.2	91.6	91.6	91.6
Q2	489 732	509 497	509 497	–	102.1	102.1	98.2	98.2	98.2
Q3	497 326	520 069	520 069	–	104.2	104.2	99.7	99.7	99.7
Q4	504 035	531 982	531 982	–	106.6	106.6	101.0	101.0	101.0
2022 Q1	500 006	535 923	548 208	–12 285	107.4	109.9	100.2	102.5	101.8
Q2	499 601	547 434	561 279	–13 845	109.7	112.5	100.1	102.7	102.0
Q3	499 896	554 613	567 650	–13 037	111.2	113.8	100.2	102.6	101.8
Q4	499 822	577 041	592 065	–15 024	115.7	118.7	100.2	102.8	102.1
2023 Q1	501 621	598 405	613 752	–15 347	119.9	123.0	100.5	103.1	102.4
Q2	502 246	600 763	616 504	–15 741	120.4	123.6	100.7	103.3	102.6
Percentage change, latest year on previous year									
	KH4D	KH47	KH68		KH47	KH68	KH4D	KH6E	GDPQ
2020	–10.0	–4.9	–4.9		–4.9	–4.9	–10.0	–10.0	–10.0
2021	8.4	7.8	7.8		7.8	7.8	8.4	8.4	8.4
2022	2.6	8.2	10.9		8.2	10.9	2.6	5.1	4.4
Percentage change, latest quarter on previous quarter									
	KH4F	KH49	KH6A		KH49	KH6A	KH4F	KH6G	
2021 Q1	–1.2	0.2	0.2		0.2	0.2	–1.2	–1.2	–1.2
Q2	7.1	5.0	5.0		5.0	5.0	7.1	7.1	7.1
Q3	1.6	2.1	2.1		2.1	2.1	1.6	1.5	1.6
Q4	1.3	2.3	2.3		2.3	2.3	1.3	1.4	1.4
2022 Q1	–0.8	0.7	3.1		0.7	3.1	–0.8	1.5	0.8
Q2	–0.1	2.1	2.4		2.1	2.4	–0.1	0.2	0.2
Q3	0.1	1.3	1.1		1.3	1.1	0.1	–0.1	–0.2
Q4	–	4.0	4.3		4.0	4.3	–	0.2	0.2
2023 Q1	0.4	3.7	3.7		3.7	3.7	0.4	0.3	0.3
Q2	0.1	0.4	0.4		0.4	0.4	0.1	0.2	0.2
Percentage change, latest quarter on corresponding quarter of previous year									
	KH4H	KH4B	KH6C		KH4B	KH6C	KH4H	KH6I	GDPR
2021 Q1	–6.5	–2.7	–2.7		–2.7	–2.7	–6.5	–6.5	–6.5
Q2	25.7	17.7	17.7		17.7	17.7	25.7	25.7	25.7
Q3	9.1	7.8	7.8		7.8	7.8	9.1	9.1	9.1
Q4	9.0	9.9	9.9		9.9	9.9	9.0	9.0	9.0
2022 Q1	9.4	10.5	13.0		10.5	13.0	9.4	11.9	11.1
Q2	2.0	7.4	10.2		7.4	10.2	2.0	4.6	3.9
Q3	0.5	6.6	9.1		6.6	9.1	0.5	2.9	2.2
Q4	–0.8	8.5	11.3		8.5	11.3	–0.8	1.7	1.0
2023 Q1	0.3	11.7	12.0		11.7	12.0	0.3	0.6	0.6
Q2	0.5	9.7	9.8		9.7	9.8	0.5	0.6	0.6

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

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

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

M Alignment adjustments¹

£ million

	Changes in inventories		Gross operating surplus of non-financial corporations at current prices
	At current prices	Chained volume measures (Reference year 2019)	
Seasonally adjusted			
	DMUN	DMUM	DMUQ
2021 Q1	-218	-203	-2 100
Q2	-2 963	-2 839	2 399
Q3	277	281	1 361
Q4	2 904	2 761	-1 660
2022 Q1	-3 137	-2 898	-1 199
Q2	3 240	2 984	1 542
Q3	-2 192	-1 947	-1 150
Q4	2 089	1 861	807
2023 Q1	1 172	1 025	5 878
Q2	753	642	8 409

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

N Selected financial year variables ^{1,2}

£ millions except deflator index which is 2022/23 = 100

	Current prices					Chained Volume Measures (reference year 2019)				
	Gross domestic product at market prices	Gross domestic product at market prices non seasonally adjusted	Gross value added at basic prices	General government final consumption expenditure	General government gross fixed capital formation	Gross domestic product at market prices	Gross value added at basic prices	General government final consumption expenditure	General government gross fixed capital formation	Implied GDP deflator at market prices ^{3,4}
	YBHA	BKTL	ABML	NMRP	RPZG	ABMI	ABMM	NMRY	DLWF	L8GG
2020/21	2 086 121	2 085 084	1 884 602	495 816	68 953	1 966 153	1 765 089	395 257	68 922	94.4961
2021/22	2 354 884	2 361 452	2 104 447	512 537	73 122	2 234 314	1 997 600	462 943	70 667	93.7420
2022/23	2 555 682	2 552 226	2 310 402	524 955	80 570	2 273 394	2 030 195	459 098	71 553	100.0000
Seasonally adjusted										
2021 Q1	538 012	536 631	485 088	129 099	18 039	509 261	457 228	105 864	19 283	93.9792
Q2	567 887	564 886	509 497	126 020	17 679	546 579	489 732	114 096	16 891	92.4250
Q3	581 506	574 173	520 069	126 347	18 066	555 956	497 326	115 146	17 338	93.0452
Q4	596 674	608 389	531 982	127 250	17 928	564 407	504 035	116 404	17 339	94.0427
2022 Q1	608 817	614 004	542 899	132 920	19 449	567 372	506 507	117 297	19 099	95.4551
Q2	622 011	615 550	555 456	127 910	18 346	567 878	506 925	114 908	16 841	97.4369
Q3	630 651	628 478	561 989	131 996	19 339	567 392	506 532	115 748	16 993	98.8750
Q4	644 691	648 138	585 703	132 218	20 813	568 151	507 456	114 896	18 384	100.9412
2023 Q1	658 329	660 060	607 254	132 831	22 072	569 973	509 282	113 546	19 335	102.7470
Q2	675 109	667 727	609 839	140 658	21 444	571 043	509 923	116 414	18 480	105.1685
Percentage change, latest financial year on previous financial year										
2020/21	-6.9	-7.1	-6.0	14.6	11.9	-11.6	-11.3	-7.0	13.8	5.4
2021/22	12.9	13.3	11.7	3.4	6.0	13.6	13.2	17.1	2.5	-0.8
2022/23	8.5	8.1	9.8	2.4	10.2	1.7	1.6	-0.8	1.3	6.7
Percentage change, latest quarter on previous quarter										
	IHYN	A8L9	KGL8	KH2D	KH7P	IHYQ	KGM9	KH2J	KH9C	L8GH
2021 Q1	-0.1	-3.3	0.2	4.2	5.1	-1.0	-1.2	1.0	13.1	0.9
Q2	5.6	5.3	5.0	-2.4	-2.0	7.3	7.1	7.8	-12.4	-1.7
Q3	2.4	1.6	2.1	0.3	2.2	1.7	1.6	0.9	2.6	0.7
Q4	2.6	6.0	2.3	0.7	-0.8	1.5	1.3	1.1	-	1.1
2022 Q1	2.0	0.9	2.1	4.5	8.5	0.5	0.5	0.8	10.2	1.5
Q2	2.2	0.3	2.3	-3.8	-5.7	0.1	0.1	-2.0	-11.8	2.1
Q3	1.4	2.1	1.2	3.2	5.4	-0.1	-0.1	0.7	0.9	1.5
Q4	2.2	3.1	4.2	0.2	7.6	0.1	0.2	-0.7	8.2	2.1
2023 Q1	2.1	1.8	3.7	0.5	6.0	0.3	0.4	-1.2	5.2	1.8
Q2	2.5	1.2	0.4	5.9	-2.8	0.2	0.1	2.5	-4.4	2.4
Percentage change, latest quarter on corresponding quarter of previous year										
	IHYO	A8LA	KGM2	KH2E	KH7R	IHYR	KGN3	KH2K	KH9M	L8GI
2021 Q1	-3.3	-3.5	-2.7	18.5	18.9	-6.7	-6.5	2.2	30.6	3.6
Q2	19.4	20.1	17.7	3.8	4.9	25.7	25.7	34.8	3.6	-5.1
Q3	9.0	9.7	7.8	4.1	6.9	9.5	9.1	15.2	6.5	-0.5
Q4	10.8	9.7	9.9	2.7	4.5	9.7	9.0	11.0	1.7	1.0
2022 Q1	13.2	14.4	11.9	3.0	7.8	11.4	10.8	10.8	-1.0	1.6
Q2	9.5	9.0	9.0	1.5	3.8	3.9	3.5	0.7	-0.3	5.4
Q3	8.5	9.5	8.1	4.5	7.0	2.1	1.9	0.5	-2.0	6.3
Q4	8.0	6.5	10.1	3.9	16.1	0.7	0.7	-1.3	6.0	7.3
2023 Q1	8.1	7.5	11.9	-0.1	13.5	0.5	0.5	-3.2	1.2	7.6
Q2	8.5	8.5	9.8	10.0	16.9	0.6	0.6	1.3	9.7	7.9

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

2 All data are seasonally adjusted unless otherwise specified.

3 Implied deflator is expressed in terms of 2022/2023 =100 for presentational

purposes, whereas in table A1 it is expressed as 2019 = 100.

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

O Selected implied deflators¹

2022 = 100

	Implied deflators ²		
	Gross national expenditure	Gross domestic product at market prices ³	Gross value added at basic prices
	MNE2	MNF2	MNX5
2020	94.1621	95.4112	95.5883
2021	94.1734	95.1068	94.8368
2022	100.0000	100.0000	100.0000
Seasonally adjusted			
2021 Q1	94.5611	95.7243	95.7679
Q2	92.6756	94.1412	93.9108
Q3	93.9827	94.7729	94.3957
Q4	95.4742	95.7889	95.2727
2022 Q1	97.0774	97.2276	96.7534
Q2	99.1048	99.2461	98.9096
Q3	101.5397	100.7109	100.1506
Q4	102.2781	102.8154	104.1865
2023 Q1	103.8742	104.6548	107.6328
Q2	105.5994	107.1212	107.9551
Percentage change, latest year on previous year			
	MNE3	MNF3	MNX6
2020	5.0	5.3	5.9
2021	-	-0.3	-0.8
2022	6.2	5.1	5.4
Percentage change, latest quarter on previous quarter			
	MNE4	MNF4	MNX7
2021 Q1	0.9	0.9	1.4
Q2	-2.0	-1.7	-1.9
Q3	1.4	0.7	0.5
Q4	1.6	1.1	0.9
2022 Q1	1.7	1.5	1.6
Q2	2.1	2.1	2.2
Q3	2.5	1.5	1.3
Q4	0.7	2.1	4.0
2023 Q1	1.6	1.8	3.3
Q2	1.7	2.4	0.3
Percentage change, latest quarter on corresponding quarter of previous year			
	MNE5	MNF5	MNX8
2021 Q1	4.1	3.6	4.1
Q2	-5.7	-5.1	-6.3
Q3	0.1	-0.5	-1.3
Q4	1.9	1.0	0.8
2022 Q1	2.7	1.6	1.0
Q2	6.9	5.4	5.3
Q3	8.0	6.3	6.1
Q4	7.1	7.3	9.4
2023 Q1	7.0	7.6	11.2
Q2	6.6	7.9	9.1

1 Implied deflator is expressed in terms of 2022 = 100, whereas in table A1 it is expressed as 2019 = 100. This deflator is calculated in a different way to the deflators in table A1 therefore there may be slight discrepancies, as such we recommend using the deflators in table A1 where possible.

2 Data are only considered accurate to 1 decimal place.

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

P GDP Per Head¹

£

	UK resident population mid-year estimates (persons thousands) ²	Current Prices		Chained volume measures (Reference year 2019)	
		Gross domestic product at market prices ³	Gross domestic product per head	Gross domestic product at market prices ³	Gross domestic product per head
	EBAQ	YBHA	IHXT	ABMI	IHXW
2020	67 081	2 104 288	31 369	2 002 489	29 852
2021	67 026	2 284 079	34 078	2 176 203	32 468
2022	67 791	2 506 170	36 969	2 270 793	33 497
Seasonally adjusted					
2021 Q1	67 040	538 012	8 025	509 261	7 596
Q2	67 026	567 887	8 473	546 579	8 155
Q3	67 218	581 506	8 651	555 956	8 271
Q4	67 409	596 674	8 852	564 407	8 373
2022 Q1	67 600	608 817	9 006	567 372	8 393
Q2	67 791	622 011	9 175	567 878	8 377
Q3	67 874	630 651	9 291	567 392	8 359
Q4	67 957	644 691	9 487	568 151	8 360
2023 Q1	68 040	658 329	9 676	569 973	8 377
Q2	68 122	675 109	9 910	571 043	8 383
Percentage change, latest year on previous year					
		IHYM	N3Y3	IHYP	N3Y6
2020		-5.8	-6.2	-10.4	-10.7
2021		8.5	8.6	8.7	8.8
2022		9.7	8.5	4.3	3.2
Percentage change, latest quarter on previous quarter					
		IHYN	N3Y4	IHYQ	N3Y7
2021 Q1		-0.1	-0.1	-1.0	-1.0
Q2		5.6	5.6	7.3	7.4
Q3		2.4	2.1	1.7	1.4
Q4		2.6	2.3	1.5	1.2
2022 Q1		2.0	1.7	0.5	0.2
Q2		2.2	1.9	0.1	-0.2
Q3		1.4	1.3	-0.1	-0.2
Q4		2.2	2.1	0.1	-
2023 Q1		2.1	2.0	0.3	0.2
Q2		2.5	2.4	0.2	0.1
Percentage change, latest quarter on corresponding quarter of previous year					
		IHYO	N3Y5	IHYR	N3Y8
2021 Q1		-3.3	-3.3	-6.7	-6.7
Q2		19.4	19.5	25.7	25.8
Q3		9.0	8.7	9.5	9.3
Q4		10.8	10.2	9.7	9.1
2022 Q1		13.2	12.2	11.4	10.5
Q2		9.5	8.3	3.9	2.7
Q3		8.5	7.4	2.1	1.1
Q4		8.0	7.2	0.7	-0.2
2023 Q1		8.1	7.4	0.5	-0.2
Q2		8.5	8.0	0.6	0.1

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

2 In line with National accounts revision policy (<https://www.ons.gov.uk/methodology/methodologytopicsandstatisticalconcepts/revisions/revisionspoliciesforeconomicstatistics/nationalaccountsrevisionspolicyupdated-december2017>), 2022 now consistent with mid-year population projection as published on 27 January 2023 <https://www.ons.gov.uk/peoplepopulationandcommunity/populationandmigration/populationprojections/datasets/tablea11-principalprojectionuksummary>.

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

R Revisions Analysis¹

Revisions since previously published estimates

£ million

2022

Latest less previously published levels of GDP at current market prices

National accounts aggregates at current prices (Table A2)

Gross domestic product at market prices	KB7D	14 932
less Basic price adjustment	KB7E	-848
Gross value added at basic prices	KB7F	15 780

Gross domestic product:

expenditure at current prices (Table C1)

National expenditure on goods and services at market prices		
Households	KB7K	-11 907
Non-profit institutions serving households	KB7L	-2 506
General government	KB7M	554
Gross fixed capital formation	KB7N	7 693
Changes in inventories	KB7O	-9 523
Acquisitions less disposals of valuables	KB7P	-131
Total	KB7Q	-15 820
Total exports	KB7R	18 659
Total imports	KB7S	-28
Statistical discrepancy (expenditure)	KB7T	12 065

Gross domestic product:

income at current prices (Table D)

Compensation of employees	KB7U	-6 177
Gross operating surplus of corporations	KB7V	20 385
Other income	KB7W	-376
Gross value added at factor cost	KB7X	13 832
Taxes on products & production less Subsidies	KB7Y	-275
Statistical discrepancy (income)	KB7Z	1 375

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

2022

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

Percentage changes in volume of GDP (Table A2)

Gross domestic product chained volume measures Year on year growth	KB82	0.2
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Percentage changes in volume

of GVA output components (Table B1)

GVA at basic prices		
Agriculture, forestry and fishing	KB83	-2.0
Mining and quarrying inc oil & gas extraction	KB84	-2.8
Manufacturing	KB85	0.4
Electricity, gas, steam and air	KB86	-8.0
Water supply, sewerage	KNT7	-1.8
Total Production	KB87	-0.7
Construction	KB88	0.3
Distribution, hotels and restaurants	KB89	-0.1
Transport storage and communications	KB8A	-1.2
Business services and finance	KB8B	-0.4
Government and other services	KB8C	2.1
Total services	KB8D	0.1
Total GVA	KB8E	-
Total GVA excluding Oil	KB8F	0.4

Percentage changes in volume

of GDP expenditure components (Table C2)

National expenditure on goods and services at market prices		
Households	KB8G	-0.4
Non-profit institutions serving households	KB8H	0.1
General government	KB8I	0.7
Gross fixed capital formation	KB8J	-0.7
Total	KB8K	0.3
Total exports	KB8L	-1.3
Total imports	KB8M	0.8

R Revisions Analysis¹

Revisions since previously published estimates

continued

£ million

		2022 Q1	2022 Q2	2022 Q3	2022 Q4	2023 Q1	2023 Q2
Latest less previously published levels of GDP							
at current market prices							
National accounts aggregates							
at current prices (Table A2)							
Gross domestic product at market prices	KB7D	2 550	3 801	3 506	5 075	11 219	13 009
less Basic price adjustment	KB7E	237	-318	154	-921	195	1 634
Gross value added at basic prices	KB7F	2 313	4 119	3 352	5 996	11 024	11 375
Gross domestic product:							
expenditure at current prices (Table C1)							
National expenditure on goods and services							
at market prices							
Households	KB7K	-1 278	-1 607	-3 829	-5 193	-1 568	-2 568
Non-profit institutions serving households	KB7L	-677	-634	-618	-577	-604	-607
General government	KB7M	-169	174	465	84	1 511	986
Gross fixed capital formation	KB7N	10	2 196	2 714	2 773	3 000	2 910
Changes in inventories	KB7O	-2 423	-2 422	-1 337	-3 341	-115	3 511
Acquisitions less disposals of valuables	KB7P	144	-22	-122	-131	-165	-795
Total	KB7Q	-4 393	-2 315	-2 726	-6 386	2 059	3 437
Total exports	KB7R	2 212	3 412	3 990	9 045	10 891	13 763
Total imports	KB7S	-1 417	299	41	1 049	5 321	7 884
Statistical discrepancy (expenditure)	KB7T	3 314	3 003	2 283	3 465	3 590	3 693
Gross domestic product:							
income at current prices (Table D)							
Compensation of employees	KB7U	-2 434	-1 821	-1 512	-410	-183	333
Gross operating surplus of corporations	KB7V	4 014	5 942	4 131	6 298	9 720	13 521
Other income	KB7W	-65	-448	73	64	1 189	-2 325
Gross value added at factor cost	KB7X	1 515	3 673	2 692	5 952	10 726	11 529
Taxes on products & production less Subsidies	KB7Y	196	-76	359	-754	668	1 684
Statistical discrepancy (income)	KB7Z	839	204	455	-123	-175	-204

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

		2022 Q1	2022 Q2	2022 Q3	2022 Q4	2023 Q1	2023 Q2
Latest less previously published growth rates							
for GDP in chained volume terms							
Percentage changes in volume of GDP (Table A2)							
Gross domestic product chained volume measures							
Quarter on quarter growth	KB82	-	-	-	-	0.2	-
Quarter on same quarter a year earlier	KB94	0.8	0.1	0.1	0.1	0.3	0.2
Percentage changes in volume							
of GVA output components (Table B1)							
GVA at basic prices quarter on quarter growth							
Agriculture, forestry and fishing	KB83	-1.0	0.1	0.1	-0.1	-	-0.2
Mining and quarrying inc oil & gas extraction	KB84	0.6	4.8	-1.8	-3.5	-1.2	3.1
Manufacturing	KB85	0.4	0.1	0.2	0.1	-0.1	0.3
Electricity, gas, steam and air	KB86	0.8	-1.3	0.2	1.8	0.6	-0.4
Water supply, sewerage	KNT7	-0.4	0.4	0.2	-1.3	0.5	0.7
Total Production	KB87	0.1	0.3	-	-	-	0.5
Construction	KB88	0.2	-	-	0.2	0.2	-
Distribution, hotels and restaurants	KB89	0.5	-0.1	-0.6	-0.3	-0.2	-0.1
Transport storage and communications	KB8A	-0.5	-0.4	0.1	0.3	0.4	-0.4
Business services and finance	KB8B	-	0.3	0.3	-0.1	-0.3	-
Government and other services	KB8C	1.3	-1.0	-0.7	0.6	1.0	0.1
Total services	KB8D	0.3	-0.2	-0.2	0.1	0.2	-0.1
Total GVA	KB8E	-	0.1	-	-	0.3	-0.1
Total GVA excluding Oil	KB8F	0.3	0.1	-	0.1	0.2	-
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	-0.5	0.1	-0.6	-0.3	0.7	-0.2
Non-profit institutions serving households	KB8H	-0.1	-0.2	0.1	0.1	0.5	-0.6
General government	KB8I	1.2	-0.3	-0.1	-1.2	0.6	-0.6
Gross fixed capital formation	KB8J	-2.9	2.4	0.1	-0.3	0.1	0.8
Total	KB8K	-0.3	0.4	-0.2	-0.4	0.7	-0.1
Total exports	KB8L	-0.5	0.5	0.6	1.6	0.5	1.6
Total imports	KB8M	1.1	1.4	-0.3	0.7	2.0	1.2



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

Chained Volume Measures

Seasonally adjusted data

Reference year 2019

	Agri- culture, forestry, and fishing	Total Production	Mining & quarrying inc oil & gas extract	Manu- facturing	Electric, gas, steam & air	Water supply, sewerage	Constr uction ³	Total Services	Distri- bution, hotels & restaurants	Transport storage and commu- nications	Business services and finance	Govern- ment and other services
Percentage change, latest year on previous year												
Growth												
	L3BB	L3BG	L3BH	L3BN	L3DM	L3DQ	L3DW	L3E2	L3GP	KI8L	KI8N	KI8P
2020	-9.3	2.3	0.1	2.2	5.0	1.6	-12.6	-11.9	-20.6	-8.8	-3.7	-20.7
2021	-6.8	-3.9	-23.4	1.6	-32.1	4.4	9.8	10.9	21.1	8.4	5.2	16.9
2022	1.5	-3.5	-0.7	-3.3	-11.6	0.2	6.5	5.6	5.2	8.8	2.6	9.5
Contributions to growth												
	ZZ3V	ZZ3W	ZZ3Y	ZZ3X	ZZ3Z	ZZ42	ZZ43	ZZ44	ZZ45	ZZ46	ZZ47	ZZ48
2020	-0.06	0.32	-	0.22	0.08	0.02	-0.79	-9.43	-2.73	-0.90	-1.27	-4.52
2021	-0.05	-0.61	-0.27	0.18	-0.57	0.06	0.59	8.49	2.46	0.88	1.90	3.24
2022	0.01	-0.48	-0.01	-0.35	-0.13	-	0.40	4.49	0.67	0.93	0.93	1.96
Percentage change, latest quarter on previous quarter												
Growth												
	L3BB	L3BG	L3BH	L3BN	L3DM	L3DQ	L3DW	L3E2	L3GP	KI8L	KI8N	KI8P
2020 Q3	2.1	16.2	-4.4	23.6	-0.3	4.8	39.2	15.7	55.6	13.7	4.3	21.2
Q4	-3.3	0.4	-7.9	2.2	-7.8	2.6	3.3	1.7	-6.1	2.7	2.8	4.3
2021 Q1	-3.8	-4.9	-8.4	-4.3	-12.6	1.0	-0.5	-0.4	-3.2	-0.8	1.5	-2.2
Q2	0.8	-2.6	-18.8	-0.6	-10.6	0.3	4.1	9.3	24.7	6.0	1.7	16.7
Q3	2.1	-2.4	15.4	-2.1	-18.4	-0.3	-1.9	2.5	4.8	1.8	0.2	5.3
Q4	0.3	-0.5	-5.3	-0.1	-2.2	0.8	1.5	1.6	-2.8	2.5	0.9	5.3
2022 Q1	-0.4	-	3.4	-0.7	4.9	0.3	3.1	0.8	0.2	3.6	0.3	0.4
Q2	0.7	-0.6	1.8	-0.9	-1.0	0.6	1.9	0.2	0.4	0.2	1.2	-1.6
Q3	-	-1.8	-2.9	-1.7	-1.3	-1.9	0.6	-	-1.5	1.2	0.3	-0.1
Q4	-0.6	-	-5.9	0.6	-0.3	-0.6	1.5	0.2	-	0.1	0.2	0.2
2023 Q1	-	0.1	-6.6	0.5	0.6	0.8	0.6	0.3	-0.1	0.8	0.2	0.5
Q2	-	1.2	-1.2	1.9	-0.4	-1.1	0.3	-	0.4	0.2	-0.5	0.4
Contributions to growth												
	ZZ2F	ZZ2G	ZZ2I	ZZ2H	ZZ2J	ZZ2K	ZZ2L	ZZ2M	ZZ2N	ZZ2O	ZZ2P	ZZ2Q
2020 Q3	0.02	2.60	-0.06	2.59	-0.01	0.07	2.05	12.27	5.32	1.46	1.71	3.79
Q4	-0.02	0.06	-0.09	0.25	-0.14	0.04	0.20	1.28	-0.78	0.28	0.98	0.79
2021 Q1	-0.02	-0.78	-0.09	-0.50	-0.20	0.01	-0.03	-0.32	-0.37	-0.09	0.55	-0.41
Q2	-	-0.40	-0.18	-0.07	-0.15	-	0.26	7.24	2.84	0.63	0.62	3.14
Q3	0.01	-0.33	0.11	-0.22	-0.22	-	-0.12	1.99	0.65	0.19	0.06	1.08
Q4	-	-0.06	-0.04	-0.01	-0.02	0.01	0.09	1.32	-0.38	0.26	0.31	1.12
2022 Q1	-	0.01	0.03	-0.07	0.04	-	0.19	0.61	0.03	0.38	0.11	0.09
Q2	-	-0.07	0.01	-0.09	-0.01	0.01	0.12	0.13	0.05	0.02	0.41	-0.36
Q3	-	-0.23	-0.02	-0.17	-0.01	-0.02	0.04	0.03	-0.19	0.13	0.11	-0.02
Q4	-	-	-0.05	0.06	-	-0.01	0.09	0.15	0.01	0.01	0.08	0.05
2023 Q1	-	0.02	-0.05	0.05	0.01	0.01	0.04	0.28	-0.01	0.08	0.09	0.11
Q2	-	0.15	-0.01	0.18	-	-0.01	0.02	-	0.05	0.02	-0.16	0.09
Percentage change, latest quarter on corresponding quarter of previous year												
Growth												
	L3ZZ	L426	L427	L42D	L44C	L44G	L44M	L44Q	L47F	KII2	KIH9	KIH8
2020 Q3	-12.5	6.2	-0.6	7.7	5.1	1.2	-9.5	-11.7	-11.8	-9.7	-5.1	-22.9
Q4	-18.1	3.6	-11.3	8.0	-13.3	3.6	-6.3	-9.8	-16.8	-6.5	-2.1	-19.2
2021 Q1	-16.3	-2.5	-18.8	1.7	-22.1	3.5	-5.4	-7.2	-12.6	-5.8	0.1	-16.8
Q2	-4.4	8.0	-34.5	20.1	-28.2	8.9	49.0	28.0	76.3	22.8	10.6	44.3
Q3	-4.4	-9.3	-21.0	-4.9	-41.2	3.6	5.1	13.4	18.8	9.9	6.3	25.3
Q4	-0.7	-10.1	-18.7	-6.9	-37.7	1.7	3.2	13.4	23.1	9.7	4.4	26.5
2022 Q1	2.9	-5.3	-8.3	-3.4	-25.2	1.0	6.9	14.7	27.4	14.6	3.1	29.9
Q2	2.8	-3.4	14.9	-3.7	-17.1	1.4	4.6	5.1	2.6	8.3	2.6	9.5
Q3	0.6	-2.8	-3.3	-3.3	0.2	-0.2	7.2	2.6	-3.6	7.7	2.8	3.9
Q4	-0.3	-2.3	-3.9	-2.7	2.1	-1.6	7.2	1.1	-0.8	5.2	2.1	-1.1
2023 Q1	0.1	-2.2	-13.1	-1.5	-2.0	-1.0	4.6	0.7	-1.1	2.4	2.0	-1.0
Q2	-0.6	-0.5	-15.7	1.2	-1.5	-2.7	3.0	0.6	-1.1	2.4	0.3	1.1
Contributions to growth												
	ZZ36	ZZ37	ZZ39	ZZ38	ZZ3A	ZZ3B	ZZ3C	ZZ3D	ZZ3E	ZZ3F	ZZ3G	ZZ3H
2020 Q3	-0.09	0.84	-0.01	0.76	0.08	0.01	-0.60	-9.29	-1.55	-1.01	-1.73	-4.99
Q4	-0.13	0.50	-0.12	0.80	-0.23	0.04	-0.39	-7.75	-2.19	-0.67	-0.73	-4.16
2021 Q1	-0.11	-0.36	-0.21	0.18	-0.37	0.05	-0.34	-5.68	-1.56	-0.61	0.03	-3.55
Q2	-0.03	1.28	-0.49	2.21	-0.58	0.14	2.56	21.88	7.29	2.43	4.24	7.92
Q3	-0.03	-1.48	-0.24	-0.57	-0.72	0.05	0.31	10.35	2.39	1.03	2.23	4.70
Q4	-	-1.58	-0.20	-0.81	-0.60	0.02	0.20	10.35	2.71	1.02	1.57	5.05
2022 Q1	0.02	-0.81	-0.08	-0.39	-0.36	0.01	0.44	11.47	3.15	1.54	1.15	5.63
Q2	0.02	-0.46	0.11	-0.39	-0.20	0.02	0.29	4.09	0.35	0.87	0.92	1.95
Q3	-	-0.36	-0.03	-0.34	-	-	0.43	2.10	-0.50	0.81	0.96	0.83
Q4	-	-0.30	-0.03	-0.27	0.02	-0.02	0.43	0.91	-0.11	0.55	0.71	-0.24
2023 Q1	-	-0.29	-0.11	-0.15	-0.02	-0.01	0.28	0.58	-0.15	0.26	0.68	-0.22
Q2	-	-0.06	-0.13	0.12	-0.01	-0.03	0.19	0.45	-0.15	0.26	0.11	0.24

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

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	-13.0	-20.8	-7.9	-11.2	-10.8	-10.6	-11.5	-16.0	
2021	7.5	7.1	14.9	8.3	7.4	2.0	4.9	6.1	
2022	4.9	14.2	2.5	5.9	7.9	9.6	8.6	14.1	
Contributions to growth									
	ZZ6M	ZZ6N	ZZ6O	ZZ6P	ZZ6Q	ZZ6R	ZZ6S	ZZ6T	ZZ6U
2020	-8.00	-0.46	-1.51	-2.05	-1.96	-1.09	-3.63	-5.29	1.66
2021	4.46	0.14	2.92	1.51	1.35	0.20	1.54	1.90	-0.36
2022	2.88	0.27	0.52	1.08	1.42	0.92	2.58	4.28	-1.69
Percentage change, latest quarter on previous quarter									
Growth									
	KGZ6	KH27	KH2J	ZZ5H	KG7Q	KG7P	KH2V	KH3O	
2020 Q3	19.6	22.1	18.1	44.1	15.5	10.8	-	18.0	
Q4	-1.8	4.9	4.9	21.9	5.9	5.5	5.8	14.5	
2021 Q1	-3.3	-7.7	1.0	-8.1	-2.5	-9.1	-1.8	-9.6	
Q2	11.8	12.7	7.8	-12.1	5.4	11.6	7.8	3.8	
Q3	2.9	3.5	0.9	13.9	-0.6	-1.2	-4.4	4.2	
Q4	0.3	1.1	1.1	-6.1	0.5	0.8	10.1	2.1	
2022 Q1	0.7	5.6	0.8	22.8	5.7	4.6	-7.8	9.3	
Q2	0.3	2.3	-2.0	-4.1	0.1	1.9	5.6	1.9	
Q3	-0.9	1.3	0.7	-20.1	1.2	1.8	11.1	-3.4	
Q4	-0.1	0.7	-0.7	1.6	-	-0.9	0.2	0.5	
2023 Q1	0.7	-0.9	-1.2	10.4	2.5	4.0	-6.4	-1.8	
Q2	0.5	-4.5	2.5	2.5	0.8	4.1	-0.9	2.2	
Contributions to growth									
	ZZ5M	ZZ5N	ZZ5O	ZZ5P	ZZ5Q	ZZ5R	ZZ5S	ZZ5T	ZZ5U
2020 Q3	11.60	0.40	3.52	6.50	2.80	1.12	0.02	5.27	-5.25
Q4	-1.09	0.09	0.97	3.98	1.06	0.54	1.71	4.30	-2.59
2021 Q1	-1.95	-0.15	0.20	-1.78	-0.46	-0.93	-0.56	-3.22	2.66
Q2	6.73	0.23	1.62	-2.46	1.00	1.10	2.37	1.17	1.20
Q3	1.74	0.07	0.19	2.30	-0.12	-0.12	-1.33	1.26	-2.59
Q4	0.16	0.02	0.23	-1.13	0.10	0.07	2.89	0.65	2.24
2022 Q1	0.43	0.11	0.16	3.93	1.01	0.43	-2.42	2.84	-5.26
Q2	0.21	0.05	-0.42	-0.86	0.01	0.19	1.59	0.62	0.97
Q3	-0.55	0.03	0.15	-4.05	0.23	0.18	3.33	-1.13	4.46
Q4	-0.07	0.01	-0.15	0.25	0.01	-0.09	0.06	0.15	-0.09
2023 Q1	0.44	-0.02	-0.24	1.71	0.46	0.41	-2.15	-0.58	-1.57
Q2	0.31	-0.09	0.50	0.46	0.16	0.43	-0.28	0.71	-0.99
Percentage change, latest quarter on corresponding quarter of previous year									
Growth									
	KGZ7	KH28	KH2K	ZZ5Y	KG7T	KG7S	KH2W	KH3P	
2020 Q3	-11.0	-21.1	-6.5	-7.7	-11.1	-12.4	-17.0	-17.7	
Q4	-12.4	-12.0	-2.3	27.5	-4.8	-7.7	-15.4	-2.6	
2021 Q1	-12.8	-17.7	2.2	7.9	-3.5	-14.1	-9.2	-8.3	
Q2	26.9	33.3	34.8	41.8	25.9	18.7	12.1	26.8	
Q3	9.2	13.0	15.2	12.1	8.2	5.8	7.1	12.1	
Q4	11.5	8.8	11.0	-13.6	2.7	1.0	11.4	-0.1	
2022 Q1	16.2	24.4	10.8	15.5	11.4	16.1	4.6	20.8	
Q2	4.3	13.0	0.7	26.0	5.7	6.1	2.5	18.5	
Q3	0.4	10.7	0.5	-11.6	7.7	9.3	19.0	9.9	
Q4	-	10.3	-1.3	-4.4	7.2	7.5	8.3	8.1	
2023 Q1	-	3.4	-3.2	-14.0	3.9	7.0	9.9	-2.8	
Q2	0.2	-3.4	1.3	-8.1	4.6	9.2	3.2	-2.5	
Contributions to growth									
	ZZ65	ZZ66	ZZ67	ZZ68	ZZ69	ZZ6A	ZZ6B	ZZ6C	ZZ6D
2020 Q3	-6.74	-0.46	-1.23	-1.38	-2.02	-1.27	-5.44	-5.75	0.31
Q4	-7.60	-0.25	-0.45	4.33	-0.86	-0.78	-5.13	-0.84	-4.29
2021 Q1	-7.82	-0.37	0.42	1.39	-0.63	-1.44	-2.86	-2.58	-0.28
Q2	15.91	0.61	6.78	6.16	4.67	1.94	4.13	7.86	-3.73
Q3	5.56	0.25	3.00	2.19	1.47	0.57	2.09	3.57	-1.48
Q4	6.74	0.17	2.25	-2.98	0.51	0.10	3.49	-0.03	3.52
2022 Q1	9.25	0.45	2.25	3.14	2.09	1.52	1.41	6.37	-4.96
Q2	2.56	0.25	0.15	4.33	1.03	0.60	0.75	5.48	-4.73
Q3	0.25	0.21	0.11	-2.15	1.36	0.89	5.45	3.00	2.45
Q4	0.02	0.20	-0.27	-0.75	1.25	0.71	2.58	2.48	0.11
2023 Q1	0.03	0.07	-0.66	-2.95	0.71	0.69	2.83	-0.94	3.77
Q2	0.13	-0.07	0.27	-1.64	0.86	0.92	0.96	-0.85	1.80

30 status GDPSFA publication NASB Tue Sep 26 11:11:04 2023

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. 3 Non-profit institutions serving households
Chained volume measure data for this component are available in table C2

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

Current Prices

Seasonally adjusted data

	Compen- sation of employees	Gross operating surplus of corporations ³	Other income ⁴	Taxes on products & production less subsidies
Percentage change, latest year on previous year				
Growth				
	KGI3	KH4V	KH6T	KH65
2020	0.7	-1.3	0.5	-49.9
2021	5.6	5.3	3.8	58.7
2022	7.4	11.0	8.0	33.9
Contributions to growth				
	ZZ7H	ZZ7I	ZZ7J	ZZ7K
2020	0.33	-0.29	0.09	-5.93
2021	2.89	1.21	0.71	3.69
2022	3.72	2.42	1.45	3.12
Percentage change, latest quarter on previous quarter				
Growth				
	KGI4	KH4W	KH6U	KH66
2020 Q3	2.8	9.4	1.0	-980.6
Q4	2.7	-6.4	0.8	14.5
2021 Q1	-0.1	1.5	2.0	-10.0
Q2	2.8	7.8	0.9	32.5
Q3	1.2	-1.1	-0.3	24.9
Q4	1.1	1.0	1.3	15.8
2022 Q1	2.5	3.7	3.5	2.5
Q2	1.6	4.2	1.0	3.0
Q3	1.7	-1.6	3.1	2.9
Q4	1.9	9.9	3.9	-12.4
2023 Q1	1.5	7.2	5.0	-11.8
Q2	2.0	-2.8	1.0	23.7
Contributions to growth				
	ZZ6Z	ZZ72	ZZ73	ZZ74
2020 Q3	1.57	2.27	0.22	8.14
Q4	1.30	-1.44	0.14	0.90
2021 Q1	-0.06	0.25	0.29	-0.58
Q2	1.50	1.75	0.17	2.18
Q3	0.63	-0.26	-0.05	2.08
Q4	0.55	0.22	0.23	1.60
2022 Q1	1.20	0.79	0.59	0.28
Q2	0.82	0.93	0.18	0.35
Q3	0.84	-0.35	0.55	0.34
Q4	0.95	2.11	0.69	-1.44
2023 Q1	0.75	1.67	0.90	-1.19
Q2	0.98	-0.67	0.18	2.03
Percentage change, latest quarter on corresponding quarter of previous year				
Growth				
	KGI5	KH4X	KH6V	KH67
2020 Q3	0.1	1.5	1.0	-48.1
Q4	2.8	-6.6	0.3	-40.1
2021 Q1	2.3	-0.5	3.0	-42.7
Q2	8.4	12.0	4.8	-1 302.7
Q3	6.7	1.2	3.4	70.6
Q4	5.1	9.2	3.9	72.6
2022 Q1	7.9	11.7	5.5	96.5
Q2	6.6	7.9	5.5	52.7
Q3	7.1	7.5	9.1	25.8
Q4	8.0	16.9	11.9	-4.8
2023 Q1	7.0	20.8	13.6	-18.1
Q2	7.4	12.7	13.6	-1.6
Contributions to growth				
	ZZ79	ZZ7A	ZZ7B	ZZ7C
2020 Q3	0.03	0.33	0.18	-5.74
Q4	1.34	-1.48	0.05	-4.71
2021 Q1	1.13	-0.11	0.53	-4.85
Q2	4.69	2.90	0.99	10.81
Q3	3.46	0.29	0.64	4.61
Q4	2.67	2.02	0.74	5.37
2022 Q1	4.11	2.60	1.04	6.43
Q2	3.34	1.79	1.01	4.38
Q3	3.57	1.64	1.63	2.64
Q4	3.91	3.62	2.08	-0.55
2023 Q1	3.44	4.54	2.40	-2.08
Q2	3.63	2.83	2.37	-0.19

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						Total exports	less Total imports
	Households	Non-profit institutions ²	General government	Gross capital formation	Gross fixed capital formation			
Percentage change, latest year on previous year								
	ZZ93	ZZ94	ZZ95	ZZ96	ZZ97	ZZ98	ZZ99	
2020	0.2	13.4	21.0	1.4	1.3	-0.1	-1.3	
2021	2.5	-2.2	-6.9	2.3	2.3	3.1	4.6	
2022	8.3	-5.9	0.7	7.3	5.5	13.6	16.3	
Percentage change, latest quarter on previous quarter								
	ZZ8N	ZZ8O	ZZ8P	ZZ8Q	ZZ8R	ZZ8S	ZZ8T	
2020 Q3	0.5	-14.2	-15.4	-0.7	-0.3	0.4	0.3	
Q4	0.1	-2.4	-2.6	1.9	-1.1	1.1	2.3	
2021 Q1	0.9	6.4	3.1	-2.9	0.8	0.8	0.5	
Q2	0.3	-6.3	-9.4	0.9	-1.1	0.9	-0.4	
Q3	1.2	0.5	-0.7	5.1	6.1	0.2	2.9	
Q4	1.4	1.1	-0.4	4.8	-0.2	3.8	5.4	
2022 Q1	2.2	-5.1	3.7	-1.8	0.3	4.0	4.0	
Q2	3.3	-0.9	-1.8	3.0	2.2	5.1	4.8	
Q3	2.2	0.3	2.4	4.0	1.4	2.7	6.2	
Q4	2.3	0.6	0.9	-4.9	0.9	1.9	-1.8	
2023 Q1	1.5	1.4	1.7	1.8	0.7	0.7	-0.1	
Q2	1.5	3.8	3.3	0.2	0.6	-0.4	-2.4	
Percentage change, latest quarter on corresponding quarter of previous year								
	ZZ8U	ZZ8V	ZZ8W	ZZ8X	ZZ8Y	ZZ8Z	ZZ92	
2020 Q3	0.1	10.7	20.2	-0.7	1.3	-1.4	-3.5	
Q4	-	6.7	15.7	1.3	0.4	0.7	0.6	
2021 Q1	1.5	8.2	16.0	-2.6	0.4	0.4	1.8	
Q2	1.7	-16.6	-23.0	-0.8	-1.7	3.1	2.7	
Q3	2.5	-2.2	-9.6	4.9	4.6	2.9	5.4	
Q4	3.9	1.3	-7.5	7.9	5.6	5.7	8.6	
2022 Q1	5.2	-9.7	-7.1	9.1	5.0	9.1	12.3	
Q2	8.4	-4.5	0.8	11.4	8.5	13.7	18.1	
Q3	9.4	-4.7	3.9	10.3	3.7	16.6	21.9	
Q4	10.4	-5.2	5.3	-	4.9	14.4	13.5	
2023 Q1	9.6	1.4	3.2	3.7	5.4	10.8	9.1	
Q2	7.7	6.2	8.5	0.9	3.8	5.0	1.6	

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	Distrib- ution, hotels & restaurants	Transport, storage and commu- nications	Business services and finance	Govern- ment & other services
Percentage change, latest year on previous year												
Current estimates³												
	L3BB	L3BG	L3BH	L3BN	L3DM	L3DQ	L3DW	L3E2	L3GP	KI8L	KI8N	KI8P
2020	-9.3	2.3	0.1	2.2	5.0	1.6	-12.6	-11.9	-20.6	-8.8	-3.7	-20.7
2021	-6.8	-3.9	-23.4	1.6	-32.1	4.4	9.8	10.9	21.1	8.4	5.2	16.9
2022	1.5	-3.5	-0.7	-3.3	-11.6	0.2	6.5	5.6	5.2	8.8	2.6	9.5
Previous estimates²												
	A2EQ	A2ER	A2ET	A2ES	A2EU	A2EV	A2EW	A2EY	A2F2	A2F3	A2F4	A2F5
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	-2.8	2.1	-3.7	-3.6	2.0	6.2	5.5	5.3	10.0	3.0	7.4
Revisions												
	ZZ52	ZZ53	ZZ55	ZZ54	ZZ56	ZZ57	ZZ58	ZZ59	ZZ5A	ZZ5B	ZZ5C	ZZ5D
2020	-5.8	1.1	3.3	2.1	-4.1	-3.2	0.9	0.5	2.7	3.7	-0.5	-0.9
2021	-12.6	-11.2	-11.7	-8.1	-37.2	-3.4	-3.3	3.9	12.4	1.0	0.4	6.6
2022	-2.0	-0.7	-2.8	0.4	-8.0	-1.8	0.3	0.1	-0.1	-1.2	-0.4	2.1
Percentage change, latest quarter on previous quarter												
Current estimates³												
	L3BB	L3BG	L3BH	L3BN	L3DM	L3DQ	L3DW	L3E2	L3GP	KI8L	KI8N	KI8P
2020 Q3	2.1	16.2	-4.4	23.6	-0.3	4.8	39.2	15.7	55.6	13.7	4.3	21.2
Q4	-3.3	0.4	-7.9	2.2	-7.8	2.6	3.3	1.7	-6.1	2.7	2.8	4.3
2021 Q1	-3.8	-4.9	-8.4	-4.3	-12.6	1.0	-0.5	-0.4	-3.2	-0.8	1.5	-2.2
Q2	0.8	-2.6	-18.8	-0.6	-10.6	0.3	4.1	9.3	24.7	6.0	1.7	16.7
Q3	2.1	-2.4	15.4	-2.1	-18.4	-0.3	-1.9	2.5	4.8	1.8	0.2	5.3
Q4	0.3	-0.5	-5.3	-0.1	-2.2	0.8	1.5	1.6	-2.8	2.5	0.9	5.3
2022 Q1	-0.4	-	3.4	-0.7	4.9	0.3	3.1	0.8	0.2	3.6	0.3	0.4
Q2	0.7	-0.6	1.8	-0.9	-1.0	0.6	1.9	0.2	0.4	0.2	1.2	-1.6
Q3	-	-1.8	-2.9	-1.7	-1.3	-1.9	0.6	-	-1.5	1.2	0.3	-0.1
Q4	-0.6	-	-5.9	0.6	-0.3	-0.6	1.5	0.2	-	0.1	0.2	0.2
2023 Q1	-	0.1	-6.6	0.5	0.6	0.8	0.6	0.3	-0.1	0.8	0.2	0.5
Q2	-	1.2	-1.2	1.9	-0.4	-1.1	0.3	-	0.4	0.2	-0.5	0.4
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	-0.1	2.8	-1.1	4.1	0.7	2.9	0.5	-0.3	4.1	0.3	-0.9
Q2	0.6	-0.9	-3.0	-1.0	0.3	0.2	1.9	0.4	0.5	0.6	0.9	-0.6
Q3	-0.1	-1.8	-1.1	-1.9	-1.5	-2.1	0.6	0.2	-0.9	1.1	-	0.6
Q4	-0.5	-	-2.4	0.5	-2.1	0.7	1.3	0.1	0.3	-0.2	0.3	-0.4
2023 Q1	-	0.1	-5.4	0.6	-	0.3	0.4	0.1	0.1	0.4	0.5	-0.5
Q2	0.2	0.7	-4.3	1.6	-	-1.8	0.3	0.1	0.5	0.6	-0.5	0.3
Revisions												
	ZZ4A	ZZ4B	ZZ4D	ZZ4C	ZZ4E	ZZ4F	ZZ4G	ZZ4H	ZZ4I	ZZ4J	ZZ4K	ZZ4L
2020 Q3	-3.1	-1.9	-1.5	-0.7	-10.1	-1.3	-2.7	0.7	8.2	-0.6	1.0	-3.2
Q4	-3.8	-3.7	-6.1	-3.7	-6.0	0.3	-1.8	1.1	3.1	0.4	0.8	1.1
2021 Q1	-5.9	-4.9	-3.5	-3.6	-17.8	-1.7	-1.6	1.3	4.6	-0.7	-0.6	3.3
Q2	-1.5	-2.9	-	-1.9	-15.0	-0.2	0.3	1.6	2.7	2.3	0.5	1.9
Q3	-1.6	-2.0	-9.0	-1.2	-8.9	-1.2	-0.3	0.1	-0.1	-0.2	-0.7	1.4
Q4	0.1	0.9	-1.9	1.2	1.3	-1.2	0.1	-0.5	-1.0	-1.1	-0.8	0.9
2022 Q1	-1.0	0.1	0.6	0.4	0.8	-0.4	0.2	0.3	0.5	-0.5	-	1.3
Q2	0.1	0.3	4.8	0.1	-1.3	0.4	-	-0.2	-0.1	-0.4	0.3	-1.0
Q3	0.1	-	-1.8	0.2	0.2	0.2	-	-0.2	-0.6	0.1	0.3	-0.7
Q4	-0.1	-	-3.5	0.1	1.8	-1.3	0.2	0.1	-0.3	0.3	-0.1	0.6
2023 Q1	-	-	-1.2	-0.1	0.6	0.5	0.2	0.2	-0.2	0.4	-0.3	1.0
Q2	-0.2	0.5	3.1	0.3	-0.4	0.7	-	-0.1	-0.1	-0.4	-	0.1

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

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

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

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

continued

Seasonally adjusted data

Reference year 2019

	Agri- culture, forestry, and fishing	Total Production	Mining & quarrying inc oil & gas extract	Manu- facturing	Electric, gas, steam & air	Water supply, sewerage	Constr- uction	Total Services	Distri- bution, hotels & restaurants	Transport, storage and commu- nications	Business services and finance	Govern- ment & other services
Percentage growths, latest quarter on corresponding quarter of previous year												
Current estimates³												
	L3ZZ	L426	L427	L42D	L44C	L44G	L44M	L44Q	L47F	KII2	KIH9	KIH8
2020 Q3	-12.5	6.2	-0.6	7.7	5.1	1.2	-9.5	-11.7	-11.8	-9.7	-5.1	-22.9
Q4	-18.1	3.6	-11.3	8.0	-13.3	3.6	-6.3	-9.8	-16.8	-6.5	-2.1	-19.2
2021 Q1	-16.3	-2.5	-18.8	1.7	-22.1	3.5	-5.4	-7.2	-12.6	-5.8	0.1	-16.8
Q2	-4.4	8.0	-34.5	20.1	-28.2	8.9	49.0	28.0	76.3	22.8	10.6	44.3
Q3	-4.4	-9.3	-21.0	-4.9	-41.2	3.6	5.1	13.4	18.8	9.9	6.3	25.3
Q4	-0.7	-10.1	-18.7	-6.9	-37.7	1.7	3.2	13.4	23.1	9.7	4.4	26.5
2022 Q1	2.9	-5.3	-8.3	-3.4	-25.2	1.0	6.9	14.7	27.4	14.6	3.1	29.9
Q2	2.8	-3.4	14.9	-3.7	-17.1	1.4	4.6	5.1	2.6	8.3	2.6	9.5
Q3	0.6	-2.8	-3.3	-3.3	0.2	-0.2	7.2	2.6	-3.6	7.7	2.8	3.9
Q4	-0.3	-2.3	-3.9	-2.7	2.1	-1.6	7.2	1.1	-0.8	5.2	2.1	-1.1
2023 Q1	0.1	-2.2	-13.1	-1.5	-2.0	-1.0	4.6	0.7	-1.1	2.4	2.0	-1.0
Q2	-0.6	-0.5	-15.7	1.2	-1.5	-2.7	3.0	0.6	-1.1	2.4	0.3	1.1
Previous estimates²												
	A2DZ	A2E2	A2E4	A2E3	A2E5	A2EE	A2EK	A2EL	A2EM	A2EN	A2EO	A2EP
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	7.0	-1.6	0.3	-2.0	-5.0	4.1	6.6	13.1	25.2	14.1	4.1	23.3
Q2	5.2	-2.7	19.8	-4.2	-8.7	3.8	4.6	5.5	3.2	10.7	3.8	6.8
Q3	1.4	-4.1	-4.8	-5.2	-0.7	0.7	6.9	3.2	-2.5	9.7	2.9	3.5
Q4	0.6	-2.7	-3.8	-3.5	0.8	-0.5	6.8	1.1	-0.4	5.7	1.5	-1.2
2023 Q1	0.1	-2.5	-11.5	-1.8	-3.2	-0.9	4.2	0.7	0.1	1.9	1.6	-0.9
Q2	-0.4	-0.9	-12.7	0.8	-3.5	-2.9	2.6	0.5	0.1	1.9	0.3	-
Revisions												
	ZZ4N	ZZ4O	ZZ4Q	ZZ4P	ZZ4R	ZZ4S	ZZ4T	ZZ4U	ZZ4V	ZZ4W	ZZ4X	ZZ4Y
2020 Q3	-6.7	1.5	1.4	3.5	-7.0	-4.6	0.9	0.7	4.6	2.9	-0.3	-1.6
Q4	-11.3	-3.7	-11.7	-1.0	-14.3	-4.7	-1.1	1.9	5.6	2.9	1.1	0.1
2021 Q1	-12.2	-8.8	-11.8	-5.4	-31.5	-3.4	-2.8	3.2	9.5	0.3	1.5	3.2
Q2	-14.9	-15.3	-8.1	-12.3	-46.7	-3.0	-7.5	5.5	25.8	1.7	1.7	4.9
Q3	-13.3	-13.2	-15.3	-10.5	-38.9	-2.8	-3.4	4.3	11.7	1.8	-	9.0
Q4	-9.3	-8.6	-11.5	-5.4	-33.6	-4.5	-1.5	2.7	7.3	0.2	-1.6	8.8
2022 Q1	-4.1	-3.7	-8.6	-1.4	-20.2	-3.1	0.3	1.6	2.2	0.5	-1.0	6.6
Q2	-2.4	-0.7	-4.9	0.5	-8.4	-2.4	-	-0.4	-0.6	-2.4	-1.2	2.7
Q3	-0.8	1.3	1.5	1.9	0.9	-0.9	0.3	-0.6	-1.1	-2.0	-0.1	0.4
Q4	-0.9	0.4	-0.1	0.8	1.3	-1.1	0.4	-	-0.4	-0.5	0.6	0.1
2023 Q1	-	0.3	-1.6	0.3	1.2	-0.1	0.4	-	-1.2	0.5	0.4	-0.1
Q2	-0.2	0.4	-3.0	0.4	2.0	0.2	0.4	0.1	-1.2	0.5	-	1.1

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

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

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

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							Total exports	less Total imports
	Households	Non-profit institutions ^{3, 5}	General government	Gross Capital Formation	Gross Fixed Capital Formation	Business investment			
Percentage change, latest year on previous year									
Current estimates⁴									
	KGZ5	KH26	KH2I	ZZ6H	KG7N	KG7M	KH2U	KH3N	
2020	-13.0	-20.8	-7.9	-11.2	-10.8	-10.6	-11.5	-16.0	
2021	7.5	7.1	14.9	8.3	7.4	2.0	4.9	6.1	
2022	4.9	14.2	2.5	5.9	7.9	9.6	8.6	14.1	
Previous estimates²									
	A275	A276	A289	A28J	A28L	A29D	A29F	A2CK	
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	14.1	1.8	3.3	8.6	10.8	9.9	13.3	
Revisions									
	ZZ83	ZZ84	ZZ85	ZZ86	ZZ87	ZZ88	ZZ89	ZZ8A	
2020	-0.1	-1.6	-0.6	3.4	-0.3	1.3	0.6	-	
2021	1.2	1.9	2.4	-5.7	1.3	1.1	2.7	-0.1	
2022	-0.4	0.1	0.7	2.6	-0.7	-1.2	-1.3	0.8	
Percentage change, latest quarter on previous quarter									
Current estimates⁴									
	KGZ6	KH27	KH2J	ZZ5H	KG7Q	KG7P	KH2V	KH3O	
2020 Q3	19.6	22.1	18.1	44.1	15.5	10.8	-	18.0	
Q4	-1.8	4.9	4.9	21.9	5.9	5.5	5.8	14.5	
2021 Q1	-3.3	-7.7	1.0	-8.1	-2.5	-9.1	-1.8	-9.6	
Q2	11.8	12.7	7.8	-12.1	5.4	11.6	7.8	3.8	
Q3	2.9	3.5	0.9	13.9	-0.6	-1.2	-4.4	4.2	
Q4	0.3	1.1	1.1	-6.1	0.5	0.8	10.1	2.1	
2022 Q1	0.7	5.6	0.8	22.8	5.7	4.6	-7.8	9.3	
Q2	0.3	2.3	-2.0	-4.1	0.1	1.9	5.6	1.9	
Q3	-0.9	1.3	0.7	-20.1	1.2	1.8	11.1	-3.4	
Q4	-0.1	0.7	-0.7	1.6	-	-0.9	0.2	0.5	
2023 Q1	0.7	-0.9	-1.2	10.4	2.5	4.0	-6.4	-1.8	
Q2	0.5	-4.5	2.5	2.5	0.8	4.1	-0.9	2.2	
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	1.2	5.7	-0.4	24.2	8.6	8.2	-7.3	8.2	
Q2	0.2	2.5	-1.7	-5.9	-2.3	2.5	5.1	0.5	
Q3	-0.3	1.2	0.8	-21.1	1.1	0.1	10.5	-3.1	
Q4	0.2	0.6	0.5	1.6	0.3	-0.2	-1.4	-0.2	
2023 Q1	-	-1.4	-1.8	9.5	2.4	3.3	-6.9	-3.8	
Q2	0.7	-3.9	3.1	1.6	-	3.4	-2.5	1.0	
Revisions									
	ZZ7L	ZZ7M	ZZ7N	ZZ7O	ZZ7P	ZZ7Q	ZZ7R	ZZ7S	
2020 Q3	0.5	3.8	-0.1	-2.4	-0.2	-0.2	0.3	0.6	
Q4	-0.3	2.0	1.1	-1.2	2.7	2.7	-0.2	-0.5	
2021 Q1	0.1	1.3	1.1	-4.7	-0.9	-3.9	2.4	0.4	
Q2	1.6	-3.3	0.1	-1.5	1.4	5.2	1.4	0.7	
Q3	-	1.2	0.5	1.6	-1.5	-3.4	-0.5	-0.2	
Q4	0.1	0.5	-0.2	1.7	0.9	3.5	-2.7	-2.0	
2022 Q1	-0.5	-0.1	1.2	-1.4	-2.9	-3.6	-0.5	1.1	
Q2	0.1	-0.2	-0.3	1.8	2.4	-0.6	0.5	1.4	
Q3	-0.6	0.1	-0.1	1.0	0.1	1.7	0.6	-0.3	
Q4	-0.3	0.1	-1.2	-	-0.3	-0.7	1.6	0.7	
2023 Q1	0.7	0.5	0.6	0.9	0.1	0.7	0.5	2.0	
Q2	-0.2	-0.6	-0.6	0.9	0.8	0.7	1.6	1.2	

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

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

3 Non-profit institutions serving households

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

5 There is a small difference between the gross operating surplus of the Non-profit Institutions Serving households (NPISH) sector in the Table 6.3.3 of the UK Economic Accounts dataset, compared with the consumption of fixed capital for the NPISH sector published in the GDP release. This difference has been addressed from 2022. Remaining differences will be covered by the 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	-11.0	-21.1	-6.5	-7.7	-11.1	-12.4	-17.0	-17.7
Q4	-12.4	-12.0	-2.3	27.5	-4.8	-7.7	-15.4	-2.6
2021 Q1	-12.8	-17.7	2.2	7.9	-3.5	-14.1	-9.2	-8.3
Q2	26.9	33.3	34.8	41.8	25.9	18.7	12.1	26.8
Q3	9.2	13.0	15.2	12.1	8.2	5.8	7.1	12.1
Q4	11.5	8.8	11.0	-13.6	2.7	1.0	11.4	-0.1
2022 Q1	16.2	24.4	10.8	15.5	11.4	16.1	4.6	20.8
Q2	4.3	13.0	0.7	26.0	5.7	6.1	2.5	18.5
Q3	0.4	10.7	0.5	-11.6	7.7	9.3	19.0	9.9
Q4	-	10.3	-1.3	-4.4	7.2	7.5	8.3	8.1
2023 Q1	-	3.4	-3.2	-14.0	3.9	7.0	9.9	-2.8
Q2	0.2	-3.4	1.3	-8.1	4.6	9.2	3.2	-2.5
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	15.0	26.3	9.1	14.9	13.5	14.5	6.9	21.2
Q2	4.6	11.5	-0.4	20.9	6.6	10.3	5.6	18.2
Q3	1.3	10.2	-0.1	-15.1	6.8	8.0	21.5	9.7
Q4	1.4	10.2	-0.8	-6.4	7.6	10.8	6.2	5.2
2023 Q1	0.2	2.8	-2.2	-17.4	1.5	5.8	6.6	-6.5
Q2	0.7	-3.6	2.6	-10.8	3.8	6.7	-1.1	-6.0
Revisions								
	ZZ7T	ZZ7U	ZZ7V	ZZ7W	ZZ7X	ZZ7Y	ZZ7Z	ZZ82
2020 Q3	0.1	-0.5	-1.0	3.9	-0.8	1.3	0.6	-0.2
Q4	-0.2	2.5	0.7	4.0	1.7	4.3	0.6	-0.1
2021 Q1	-0.2	1.9	1.9	-2.7	0.9	0.1	2.3	-0.9
Q2	2.0	4.9	2.9	-13.9	3.6	3.6	4.4	1.5
Q3	1.3	1.9	3.1	-7.3	1.6	-0.2	3.3	0.7
Q4	1.8	0.1	1.7	-3.0	-0.1	0.7	0.9	-0.9
2022 Q1	1.2	-1.9	1.7	0.6	-2.1	1.6	-2.3	-0.4
Q2	-0.3	1.5	1.1	5.1	-0.9	-4.2	-3.1	0.3
Q3	-0.9	0.5	0.6	3.5	0.9	1.3	-2.5	0.2
Q4	-1.4	0.1	-0.5	2.0	-0.4	-3.3	2.1	2.9
2023 Q1	-0.2	0.6	-1.0	3.4	2.4	1.2	3.3	3.7
Q2	-0.5	0.2	-1.3	2.7	0.8	2.5	4.3	3.5

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

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

3 Non-profit institutions serving households

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

5 There is a small difference between the gross operating surplus of the Non-profit Institutions Serving households (NPISH) sector in the Table 6.3.3 of the UK Economic Accounts dataset, compared with the consumption of fixed capital for the NPISH sector published in the GDP release. This affects 2020Q1 onwards. The latest figures for the affected series can be found in the UK Economic Accounts dataset.

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

Seasonally adjusted data

	Compensation of employees	Gross operating surplus of corporations	Other income	Taxes on products & production less subsidies
Percentage change, latest year on previous year				
Current estimates³				
	KGI3	KH4V	KH6T	KH65
2020	0.7	-1.3	0.5	-49.9
2021	5.6	5.3	3.8	58.7
2022	7.4	11.0	8.0	33.9
Previous estimates²				
	A2CT	A2CU	A2CV	A2CW
2020	0.4	-0.1	-	-50.1
2021	6.0	2.9	3.0	58.3
2022	7.5	8.4	8.4	35.1
Revisions				
	ZZ8J	ZZ8K	ZZ8L	ZZ8M
2020	0.3	-1.2	0.5	0.2
2021	-0.4	2.4	0.8	0.4
2022	-0.1	2.6	-0.4	-1.2
Percentage change, latest quarter on previous quarter				
Current estimates³				
	KGI4	KH4W	KH6U	KH66
2020 Q3	2.8	9.4	1.0	-980.6
Q4	2.7	-6.4	0.8	14.5
2021 Q1	-0.1	1.5	2.0	-10.0
Q2	2.8	7.8	0.9	32.5
Q3	1.2	-1.1	-0.3	24.9
Q4	1.1	1.0	1.3	15.8
2022 Q1	2.5	3.7	3.5	2.5
Q2	1.6	4.2	1.0	3.0
Q3	1.7	-1.6	3.1	2.9
Q4	1.9	9.9	3.9	-12.4
2023 Q1	1.5	7.2	5.0	-11.8
Q2	2.0	-2.8	1.0	23.7
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	2.1	2.7	3.2	3.2
Q2	1.4	2.8	1.3	3.4
Q3	1.6	-0.3	2.6	2.3
Q4	1.6	8.5	3.9	-10.9
2023 Q1	1.4	5.1	4.0	-13.9
Q2	1.9	-5.5	3.9	22.2
Revisions				
	ZZ8B	ZZ8C	ZZ8D	ZZ8E
2020 Q3	0.3	-1.7	0.6	-76.6
Q4	0.1	-0.2	-	-1.8
2021 Q1	-0.1	0.7	0.6	0.9
Q2	-	2.3	0.4	1.1
Q3	-0.8	0.8	-0.9	-1.0
Q4	-0.6	-0.3	-0.3	0.6
2022 Q1	0.4	1.0	0.3	-0.7
Q2	0.2	1.4	-0.3	-0.4
Q3	0.1	-1.3	0.5	0.6
Q4	0.3	1.4	-	-1.5
2023 Q1	0.1	2.1	1.0	2.1
Q2	0.1	2.7	-2.9	1.5

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

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

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

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

continued

Seasonally adjusted data

	Compen- sation of employees	Gross operating surplus of corporations	Other income	Taxes on products & production less subsidies
Percentage change, latest quarter on corresponding quarter of previous year				
Current estimates³				
	KGI5	KH4X	KH6V	KH67
2020 Q3	0.1	1.5	1.0	-48.1
Q4	2.8	-6.6	0.3	-40.1
2021 Q1	2.3	-0.5	3.0	-42.7
Q2	8.4	12.0	4.8	-1 302.7
Q3	6.7	1.2	3.4	70.6
Q4	5.1	9.2	3.9	72.6
2022 Q1	7.9	11.7	5.5	96.5
Q2	6.6	7.9	5.5	52.7
Q3	7.1	7.5	9.1	25.8
Q4	8.0	16.9	11.9	-4.8
2023 Q1	7.0	20.8	13.6	-18.1
Q2	7.4	12.7	13.6	-1.6
Previous estimates²				
	A2CP	A2CQ	A2CR	A2CS
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	8.9	7.7	6.0	96.8
Q2	7.4	5.0	7.0	54.8
Q3	7.0	6.7	9.1	25.8
Q4	6.8	14.3	11.6	-2.7
2023 Q1	6.2	17.0	12.4	-18.8
Q2	6.6	7.6	15.3	-4.1
Revisions				
	ZZ8F	ZZ8G	ZZ8H	ZZ8I
2020 Q3	0.6	-2.2	1.0	0.3
Q4	0.3	-0.5	0.9	-0.2
2021 Q1	0.5	1.4	1.3	-
Q2	0.4	1.2	1.8	-107.7
Q3	-0.9	3.3	0.1	-0.9
Q4	-1.6	3.4	-0.2	2.8
2022 Q1	-1.0	4.0	-0.5	-0.3
Q2	-0.8	2.9	-1.5	-2.1
Q3	0.1	0.8	-	-
Q4	1.2	2.6	0.3	-2.1
2023 Q1	0.8	3.8	1.2	0.7
Q2	0.8	5.1	-1.7	2.5

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

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

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