

Statistical Bulletin





Short-Term Output Indicators for Wales: January to March 2022

The short-term output indicators within this release relate to January to March 2022. Care should be taken when interpreting these indices – estimates for individual quarters can fluctuate and so consideration of longer-term trends is recommended. Estimates for Wales are typically more volatile than for the UK and therefore comparisons between Wales and the UK should be treated with caution.

Background and Key Points

All three indices increased on an annual basis; the latest four quarters (April 2021 to March 2022) compared to the previous four quarters. On a quarterly basis, all three indices showed increases. This follows a period of change with the largest quarterly decreases on record being seen in April to June 2020 (which included part of the initial lockdown period) and the subsequent largest increases on record during July to September 2020 (reflecting the easing of restrictions over the summer months).

Index of Market Services

- On an annual basis, the Index of Market Services increased by 9.3% in Wales and by 10.7% in the UK.
- Compared to the previous quarter, the Index of Market Services **increased** by 1.1% in Wales and by 0.9% in the UK.

Index of Production

- On an annual basis, the Index of Production increased by 4.4% in Wales and by 6.0% in the UK.
- Comparing to the previous quarter, the Index of Production **increased** by 3.1% in Wales and by 1.3% in the UK.

Index of Construction

- On an annual basis, the Index of Construction increased by 21.7% in Wales and by 15.5% in the UK
- Compared to the previous quarter, the Index of Construction increased by 0.7% in Wales and by 2.2% in the UK.

28 July 2022 SFR 173/2022

About this release

The indices of market services, production and construction for Wales are quarterly indices showing short-term movements in the output of companies in the market services, production and construction sectors within Wales. This release includes data up to March 2022.

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Impact of coronavirus on short-term output indicators

The latest estimate for UK gross domestic product (GDP) published by the Office for National Statistics (ONS) for the 2021 calendar year suggests that GDP increased by 7.4% over the year, following a 9.3% decline in 2020. The latest <u>UK quarterly gross domestic product</u> (GDP) for January to March 2022 estimated an increase of 0.8%, higher than pre-pandemic levels.

There is typically a large element of volatility in short-term output indicators and care should be taken when interpreting the data. Another impact of the pandemic, as described by ONS, has been the impact on data collection which might have a greater impact on the Welsh series. The response rates recovered in 2020 Q3 following a decrease during the pandemic (see section 7.2).

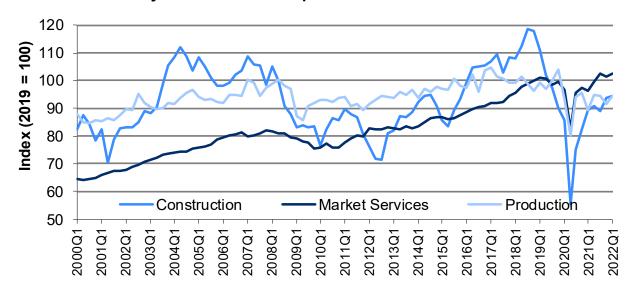
Short-term output indicator and GDP data form part of the picture of how coronavirus has impacted the Welsh economy. Other data sources such as the latest <u>labour market indicators</u>, the <u>Business Insights and Conditions Survey</u> and estimates of <u>Welsh international goods trade</u> also give an indication of the scale of the impact.

Important Quality Information

ONS recently discovered that a business within Financial and Insurance activities had been incorrectly classified. Due to the Index of Market Services methodology, reclassifying this individual business would cause a notable and potentially disclosive change within the series that could also potentially be misleading users as to how the Market Services industry was performing. Taking this into consideration, ONS and Welsh Government have made the decision not to carry out the reclassification.

1. Summary of Indices

Chart 1.1: Summary of Short-Term Output Indicators



Source: Short-term output indicators, WG and ONS

The Index of Production, the Index of Construction and the Index of Market Services are three separate indices. The Index of Production covers sections B to E of the Standard Industrial Classification (SIC) 2007, the Index of Construction covers section F and the Index of Market Services covers sections G to N and R to T:

| Section B: Mining and Quarrying | | | | |
|--|--------------------------|--|--|--|
| Section C: Manufacturing | | | | |
| Section D: Electricity, Gas, Steam and Air Conditioning Supply | Index of Production | | | |
| Section E: Water Supply; Sewerage, Waste Management and Remediation Activities | | | | |
| Section F: Construction | Index of Construction | | | |
| Section G: Distribution | | | | |
| Section H: Transport | | | | |
| Section I: Accommodation and Food Service Activities | | | | |
| Section J: Information and Communication Activities | | | | |
| Section K: Financial and Insurance Activities | Index of Market Services | | | |
| Section L: Real Estate Activities | | | | |
| Section M: Professional, Scientific and Technical Activities | | | | |
| Section N: Administrative and Support Service Activities | | | | |
| Sections R, S & T: Other Services | | | | |

The Index of Production is composed of three sub-indices, the largest of which is Manufacturing and accounts for 79.4%. Electricity, Gas and Water Supply accounts for 19.5% and Mining and Quarrying for 1.1%.

The largest components within Manufacturing are Transport Equipment and Food, Beverages and Tobacco accounting for 17.5% and 15.4% of Manufacturing, respectively. The smallest component is Textiles, Wearing Apparel and Leather accounting for 1.6%.

The largest industries within the Index of Market Services for Wales are Real Estate Activities and Distribution accounting for 24.8% and 21.0%, respectively. The smallest industries are Transport (accounting for 6.4%) and Other Services (accounting for 6.8%). For further information on these industry sections and sub-sectors see Appendix A.

Table 1.1 shows the Index of Production, Index of Construction and the Index of Market Services for Wales. Percentage changes are provided to show the change on an annual basis and the latest quarter for Wales and the UK.

Table 1.1: Seasonally Adjusted Indices of Output for Wales (1)

(2019 = 100)

| | | | | | | Latest percentage change | | | | |
|--|-----------|-----------|-----------|----------|-------|--------------------------|-------------------|---------------------|-------------------|--|
| | 2021 | | | | 2022 | 4 qtr previous | | qtr to previous qtr | | |
| | Q1 | Q2 | Q3 | Q4 | Q1 | Wales | UK ⁽²⁾ | Wales | UK ⁽²⁾ | |
| PRODUCTION | 89.5 (r) | 94.8 (r) | 94.3 (r) | 91.7 (r | 94.5 | 4.4 | 6.0 | 3.1 | 1.3 | |
| Manufacturing | 86.2 (r) | 90.8 (r) | 90.8 (r) | 88.7 (r | 92.6 | 4.0 | 8.6 | 4.4 | 1.4 | |
| Mining and Quarrying | 88.3 (r) | 119.6 (r) | 81.2 (r) | 86.2 (r | 69.5 | -1.0 | -9.1 | -19.3 | -0.5 | |
| Electricity, Gas and Water Supply ⁽³⁾ | 103.2 (r) | 109.9 (r) | 109.3 (r) | 103.9 | 103.4 | 5.7 | 2.1 | -0.5 | 1.3 | |
| CONSTRUCTION | 89.3 (r) | 90.8 (r) | 88.9 (r) | 93.7 (r | 94.4 | 21.7 | 15.5 | 0.7 | 2.2 | |
| MARKET SERVICES | 96.5 (r) | 99.7 (r) | 102.6 (r) | 101.4 (r | 102.5 | 9.3 | 10.7 | 1.1 | 0.9 | |
| Distribution | 96.6 (r) | 106.7 (r) | 106.3 (r) | 103.4 (r | 108.7 | 15.0 | 10.8 | 5.1 | -2.1 | |
| Transport | 85.3 (r) | 78.9 (r) | 89.0 (r) | 88.4 (r | 85.2 | 6.0 | 18.9 | -3.6 | 4.9 | |
| Accommodation & Food Service Activities | 66.8 (r) | 97.8 | 126.8 (r) | 113.5 (r | 124.3 | 100.5 | 112.4 | 9.5 | 5.0 | |
| Information & Communication Activities | 101.8 (r) | 97.8 (r) | 99.1 (r) | 96.1 (r | 96.6 | -2.9 | 8.7 | 0.5 | 4.2 | |
| Financial & Insurance Activities | 100.4 (r) | 99.9 (r) | 96.6 (r) | 95.9 (r | 99.1 | -1.7 | 0.9 | 3.4 | 0.9 | |
| Real Estate Activities | 99.8 (r) | 99.2 (r) | 97.8 (r) | 97.0 (r | 97.7 | -3.0 | -0.4 | 0.7 | -0.2 | |
| Professional, Scientific & Technical Activities | 122.0 (r) | 118.0 (r) | 118.3 (r) | 120.8 (r | 116.8 | 6.7 | 11.7 | -3.3 | -0.6 | |
| Administrative & Support Service Activities | 98.0 (r) | 96.6 (r) | 103.4 (r) | 109.0 (r | 98.9 | 16.3 | 19.1 | -9.3 | 3.1 | |
| Other Services | 85.2 (r) | 85.8 (r) | 87.1 (r) | 90.9 (r | 90.7 | 3.9 | 22.9 | -0.3 | 2.2 | |

Source: Short-term output indicators, WG and ONS

- (1) All series are seasonally adjusted. Please see Table B (Appendix B) for more detail on industrial sectors.
- (2) Revisions to the series are normally made each quarter to take account both of more recent information and improved seasonal factors.
- (3) UK figures for Production and Market Services as published by the Office for National Statistics on 30 June 2022 and UK figures for Construction as published by the Office for National Statistics on 12 May 2022.
- (r) Revised data.

Other sources of economic output statistics

Prior to September 2019, these short-term output indicators (STOI) were the best and most timely output measures available for the Welsh economy. The Office for National Statistics (ONS) have developed experimental statistics that are conceptually similar to STOI called <u>GDP for Wales and the English regions. A Chief Statistician's update</u> was published in September 2019 which described the new statistics in some more detail.

Following publication of these experimental statistics, we publish a <u>statistical headline</u> which draws out the key points for Wales.

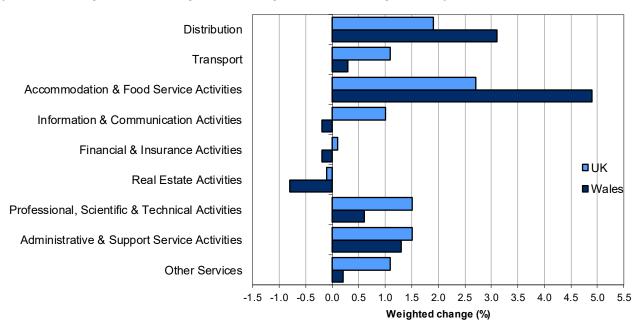
Since the end of 2021, ONS have been publishing <u>experimental nowcasting estimates of regional GVA</u> (previously produced by <u>ESCOE</u>). ONS published an <u>article</u> on these model based estimates, which describes the model and compares the estimates with the existing ONS' estimates of UK GDP, regions and countries. More information can be found in the key quality information section of this release.

2. Index of Market Services: latest changes

This section examines the outputs of each industry within the Index of Market Services and their respective impact on the overall index. The Index of Market Services accounts for approximately 43.7% of the Welsh economy.

Charts 2.1 and 2.2 show the impact of changes in the sub-sectors on the index as a whole, on an annual basis and on a quarterly basis (based on weighted data).

Chart 2.1: Contribution to the Index of Market Services annual percentage change (latest four quarters compared with previous four quarters)

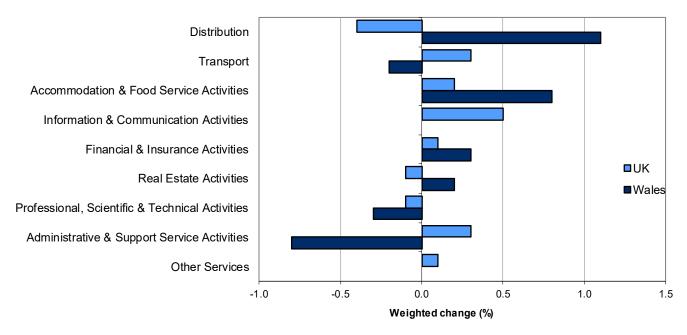


Source: Short-term output indicators, WG and ONS

In Wales, six of the nine sub-sectors increased on an annual basis, while three decreased. Eight of the nine sub-sectors increased in the UK over the same period, with one seeing a decrease.

Three sub-sectors within Wales contributed 1.0% or more to the annual increase seen in Market Services, with Accommodation & Food Service Activities showing the largest growth in both Wales and in the UK.

Chart 2.2: Contribution to the Index of Market Services quarterly percentage change, current quarter compared with previous quarter



Source: Short-term output indicators, WG and ONS

In Wales, four of the nine industries increased over the quarter with Distribution showing the largest increase (1.1%). In the UK, six of the nine industries experienced increases; the industry with the largest increase was Information & Communication Activities (0.5%).

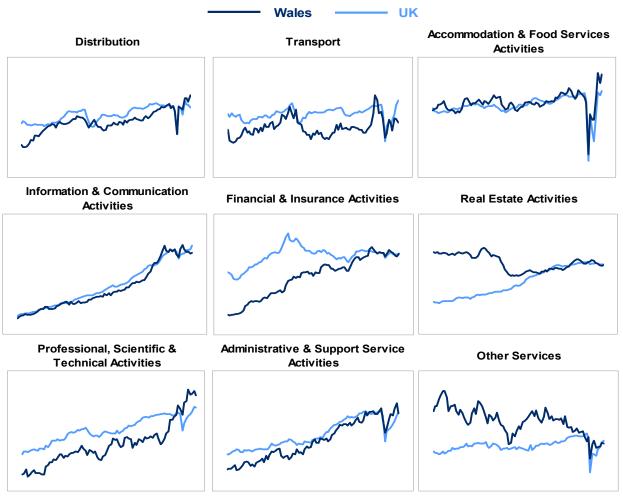
In Wales, three of the nine industries decreased over the quarter with two unchanged. In the UK, three of the nine industries decreased. The largest decrease in Wales was in Administrative & Support Service Activities (0.8%), and in the UK was Distribution (0.4%).

Estimated changes in Wales are typically larger than for the UK, reflecting the smaller sample sizes in Wales which result in a more volatile series. This is particularly the case in the short-term data, but longer-term trends are regarded as reliable.

3. Index of Market Services: industry trends

This section shows changes in output since 2000 for the nine industries which comprise the Index of Market Services. The Welsh results for some industries are more volatile than for the UK equivalents because of smaller survey samples. Table B2 in Appendix B provides the latest annual and quarterly data for the industries and their sub-sectors. Time series for the Index of Market Services industry sectors and sub-sectors are available on StatsWales.

Chart 3.1: Market services Sub-indices - 2000 Q1 to 2022 Q1, (2019=100)



Source: Short-term output indicators, WG and ONS

Distribution

The Index of Distribution fell during the 2008-09 recession in Wales and the UK, but both saw an overall increase until the start of the coronavirus pandemic. After the lockdowns were introduced in 2020, the index saw a sudden decrease in both Wales and the UK. However, despite recent decreases, it has generally been increasing since the low point in 2020 Q2.

Transport

There was a significant fall in activity in Wales and across the UK during the 2008-09 recession, with the recovery reaching pre-recession peaks in 2019. There was a sharp increase in the Welsh index in 2019 Q1, however, most of this largely reflects re-classification of business activity and a change in the sample, rather than an actual increase in activity. Following the start of the coronavirus pandemic, the index fell in Wales and the UK, but has since been recovering.

Accommodation and Food Service Activities

Though trends in Wales are more volatile than for the UK as a whole, the Index of Accommodation and Food Service Activities in Wales has generally tracked the UK trend over the long-term. The index was greatly impacted by the coronavirus lockdowns, however rose to the highest on record in 2021 Q3 in Wales. In the UK, this index is currently (2022 Q1) the highest on record.

Information and Communication Activities

The Index of Information and Communication Activities for both Wales and the UK experienced a small decrease due to the coronavirus (COVID-19) pandemic, however, it was not as notable as for other industries. Overall, there has generally been steady growth in both Wales and the UK since the series began.

Financial and Insurance Activities

Since 2000, the Index of Finance and Insurance Activities for Wales has increased with a broadly stable upward trend. In the UK, the sector increased up to 2008 and, after a decrease to 2010, has changed relatively little since.

Real Estate Activities

Real Estate Activities continues to be one of the sub-sectors least effected by the pandemic. Historical trends in Real Estate Activities have been very different for Wales and the UK. In Wales, the index was broadly flat from 2000 to 2007, before falling substantially during the recession. After a period of recovery, the index has been remained broadly the same since 2015 following a marginal increase with some fluctuations. By contrast, at a UK level Real Estate Activities have generally increased over the whole period.

Professional, Scientific and Technical Activities

Professional, Scientific and Technical Activities in Wales and the UK followed similar upward trends, with Wales generally below the UK until the Welsh index began to rise at the end of 2017. The Welsh index rose above that of the UK in 2019 Q4 and has remained higher ever since.

Administrative and Support Service Activities

Administrative and Support Service Activities have increased in both Wales and the UK until the pandemic. At the start of the pandemic, both Wales and the UK experienced large decreases, but have generally been recovering since the middle of 2020. Wales has now recovered to above prepandemic levels, reaching its highest point in the series in 2021 Q4, whilst the UK index remains below pre-pandemic levels.

Other Services

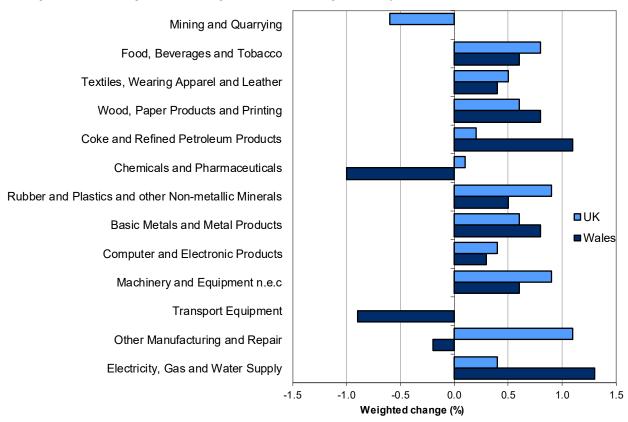
Since 2000, the Index of Other Services for Wales has been volatile, with a decreasing trend overall. The UK trend, by contrast, has seen a relatively stable increase up until the start of the pandemic. The index fell due to the pandemic in both Wales and the UK and has not yet recovered to pre-pandemic levels.

4. Index of Production: latest changes

This section examines the outputs of each industry within the Index of Production and their respective impact on the overall index. The Index of Production accounts for approximately 20.6% of the Welsh economy.

Charts 4.1 and 4.2 show the impact of changes in the sub-sectors on the index as a whole on an annual basis and a quarterly basis (based on weighted data).

Chart 4.1: Contribution to the Index of Production annual percentage change (latest four quarters compared with previous four quarters)

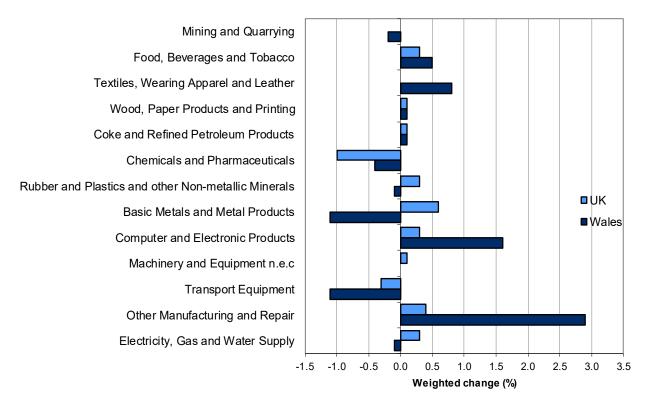


Source: Short-term output indicators, WG and ONS

In Wales, nine of the thirteen industries experienced an increase over the year, three experienced a decrease, and one remained unchanged. Electricity, Gas and Water Supply experienced the largest increase contributing a weighted change of 1.3% followed by Coke and Refined Petroleum Products with a contribution of 1.1%. Chemicals and Pharmaceuticals saw the largest negative contribution of the Welsh sub-sectors (down 1.0%).

In the UK, eleven industries increased, one industry decreased and one remained unchanged. The largest increase was in Other Manufacturing and Repair with 1.1%. Mining and Quarrying saw the only negative contribution of the UK sub-sectors (down 0.6%)

Chart 4.2: Contribution to the Index of Production quarterly percentage change, current quarter compared with previous quarter



Source: Short-term output indicators, WG and ONS

Six industries within the Index of Production for Wales showed increases over the quarter, six industries showed decreases, whilst one remained unchanged. Other Manufacturing and Repair experienced the largest increase contributing a weighted change of 2.9% followed by Computer and Electronic Products with 1.6%. Basic Metals and Metal Products and Transport Equipment saw the largest negative contribution of the Welsh sub-sectors (down 1.1%)

Two of the thirteen industries in the UK decreased over the quarter, nine increased and two remained unchanged. The largest decrease was in Chemicals and Pharmaceuticals (down 1.0%), and the largest increase was in Basic Metals and Metal Products (up 0.6%).

Estimates for changes in Wales are typically larger than for the UK, reflecting the smaller sample sizes in Wales which result in less stable series. This is particularly the case in the short-term data but longer-term trends are regarded as reliable.

5. Index of Production: industry trends

This section shows changes in output since 2000 for the three industries which comprise the Index of Production. The Welsh results can be more volatile than for the UK equivalents because of smaller survey samples.

Tables B1 in <u>Appendix B</u> provides the latest annual and quarterly data for the industries and their sub-sectors. Time series' for the Index of Production and its sub-indices are available on <u>StatsWales</u>.

Chart 5.1: Production Sub-indices - 2000 Q1 to 2022 Q1, (2019=100)



Source: Short-term output indicators, WG and ONS

Index of Mining and Quarrying

Activity in Mining and Quarrying remained broadly similar in Wales despite fluctuations around the overall trend between 1999 and 2012. In 2012, there were some large increases before remaining relatively stable until 2016. In 2016 there was a sharp decrease, and the index has remained at that lower level since. For the UK as a whole, output generally fell (with large fluctuations around the trend) until 2013 and, despite variations, has remained broadly similar since.

Index of Manufacturing

Historically, the Index of Manufacturing has shown a similar trend in both Wales and the UK, increasing until the 2008-09 recession, then recovering before a sharp fall at the beginning of the coronavirus pandemic. The manufacturing industry is the main driver of the production industries as it accounts for 79.4% of the Index of Production.

Index of Electricity, Gas and Water Supply

The Index of Electricity, Gas and Water Supply in Wales and the UK is volatile, but in Wales, there was a sharp increase in 2012 due to the opening of a new power station in Pembroke. However, output has generally decreased since the end of 2016, which can be attributed to the downgrading in operations of Aberthaw power station. The fall continued due to the pandemic and in 2020 Q2 the series reached its lowest level since records began. Despite decreases in the latest quarter for Wales, both the UK and Welsh series have generally been recovering since 2020 Q2.

6. Index of Construction

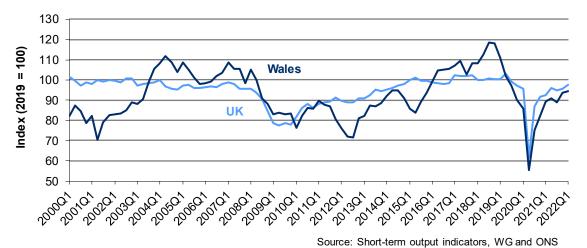
The construction sector accounts for approximately 5.8% of the Welsh economy.

Following the recession of 2008-09, both Wales and the UK saw a fall in construction output, with Wales seeing a larger fall than the UK. Since then, output gradually increased overall and surpassed pre-recession levels. The index in Wales began decreasing at the start of 2019 and then the coronavirus pandemic caused indices for both Wales and the UK to fall to their lowest levels in the series in 2020 Q2. the index of construction was impacted by the coronavirus (VODI-19) pandemic far greater than the other two indices, however, in the index is now higher than prepandemic levels for both Wales and the UK.

The Index of Construction increased over the latest quarter in both Wales and the UK (up 0.7% and 2.2% respectively). It also rose over the year, with the Welsh index increasing by 21.7% and the UK index increasing by 15.5%.

A time series for the Index of Construction is available on StatsWales.

Chart 6.1: Index of Construction



7. Key Quality Information

7.1 Relevance

This release provides estimates of output in market services, production, and construction industries for Wales and the UK. The UK production estimates are taken from the Quarterly National Accounts release from the ONS, the construction estimates are taken from the ONS monthly construction release and the UK market services estimates are taken from the Quarterly National Accounts Index of Services release from the ONS. These statistics are used by the Welsh Government to monitor the output for these industries in the Welsh economy as well as providing comparisons with the UK. They are also used by other public sector organisations, businesses, academia and private individuals to identify the key trends in production and construction output for Wales.

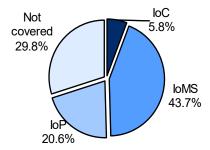
The output indices show the quarterly movements in gross output of the production, construction, and market services sectors in Wales. Gross output is used as a proxy for Gross Value Added (GVA), measured by a variety of data sources since GVA cannot currently be measured.

The indices are estimated using a combination of:

- Directly collected data from existing monthly surveys.
- A quarterly top up of specifically Welsh data from large inter-regional businesses.
- Post stratification methodology.
- Volume data from a number of different sources.
- Directly collected data from a small additional quarterly survey sent to wholly Welsh finance businesses.

The majority of the data comes from the ONS Monthly Business Survey. The results from this survey are used to calculate the relative movements of the individual series', which in turn are weighted together to produce the overall index. The weights are derived from the distribution of GVA for Wales using the Regional Accounts. Both volume and sales data are used to compile the index. GVA is a measure of economic activity at basic prices, which includes taxes (less subsidies) on production but excludes taxes (less subsidies) on products. The sales data are deflated to 2010 prices using the deflators produced for the UK index.

The following pie chart represents the percentage that the Index of Market Services, Index of Production and Index of Construction for Wales have in the overall Regional GVA by industry, based on 2020 GVA in line with the STOI methodology. Industries not covered include agriculture and fishing industries and the public sector.



Source: Short-term output indicators, Welsh Government and ONS

7.2 Accuracy

Due to the impact of COVID-19, some response rates for 2020Q1 and Q2 were much lower than the target response rate and should be treated with caution. Response rates are now in line with those seen prior to the pandemic.

Estimates are subject to revision. Estimates for individual quarters fluctuate due to random sampling error and therefore it is recommended that emphasis is placed on changes in the average of the latest four quarters compared to the average of the previous four quarters for more volatile series'. The entire time series is open to revisions arising from changes in the seasonally adjusted series from the addition of a new data point, and changes to the last 15 months turnover data from late or revised survey returns. For more information on our revisions policy see our website. Table 7.2 shows the revisions and rebasing made (in index points) to the previous quarter's estimates.

Table 7.2: Comparison of Current and Previous Estimates of 2021 Quarter 4 (1)

| | Current | Previous | Revision |
|---|---------|----------|----------|
| Index of Production | 91.7 | 91.8 | -0.1 |
| Manufacturing | 88.7 | 88.9 | -0.1 |
| Mining and Quarrying | 86.2 | 86.1 | 0.0 |
| Electricity, Gas & Water | 103.9 | 103.9 | 0.0 |
| Construction | 93.7 | 94.8 | -1.1 |
| Index of Market Services | 101.4 | 101.9 | -0.5 |
| Distribution | 103.4 | 105.2 | -1.8 |
| Transport | 88.4 | 88.3 | 0.1 |
| Accommodation and Food Service Activities | 113.5 | 113.8 | -0.3 |
| Information and Communication Activities | 96.1 | 96.4 | -0.2 |
| Financial and Insurance Activities | 95.9 | 95.5 | 0.4 |
| Real Estate Activities | 97.0 | 95.7 | 1.3 |
| Professional, Scientific and Technical Activities | 120.8 | 121.2 | -0.4 |
| Administrative and Support Service Activities | 109.0 | 114.3 | -5.3 |
| Other Services | 90.9 | 89.9 | 1.0 |

Source: Short-term output indicators, WG and ONS

As described in section 7.5, experimental GDP statistics, which are conceptually similar to these Short-term Output Indicators, are available for Wales. Previously comparisons have been made between ONS' experimental GDP figures for Wales and STOI, however, ONS have paused updating the time series between Quarter 1 2012 and Quarter 4 2019 to focus on developing methods to improve data quality and minimise the frequency of revisions.

7.3 Timeliness and punctuality

This release is published quarterly. It is the earliest official indicator of the performance of the Welsh production and construction industries other than the UK figures, which are produced by the Office for National Statistics monthly. There is approximately a 14 week lag between publication and the period to which the release refers to.

⁽¹⁾ Numbers in the table have been rounded to one decimal place, therefore there may be slight discrepancies between the constituent items and the overall revision shown.

7.4 Accessibility and clarity

This statistical bulletin and the headline statistics are available on the Welsh Government Statistics website. Additional information on all three indices is available on StatsWales, in addition to the data from 1998. A Summary Quality Report containing information on the quality of the Index of Production and Index of Construction as well as a summary of methods used to compile the output is available on our website. The equivalent report for the Index of Market Services can also be found on our website.

7.5 Comparability and coherence

The Office for National Statistics (ONS) developed the <u>official statistics for GDP for Wales and the English regions</u>. These statistics, which are based almost exclusively on VAT records, are conceptually similar to STOI – they estimate changes in the output of businesses over a period of time.

For the first publication of these statistics in September 2019, we published a <u>statistical headline</u> which draws out the key points for Wales and is updated quarterly. Additionally, in September 2019, we published a <u>Chief Statistician's update</u> which describes the statistics in some more detail. The GDP statistics have been categorised as 'experimental' for the time being.

The GDP data have a more comprehensive coverage of the economy and are comparable with the other countries and regions of the UK. ONS also believe that the GDP data are likely to be a better reflection of the type of business activity taking place regionally. The short-term output indicators remain the fastest available measures for Wales however, with a three to four-month lag from the reference period, compared with an approximately six-month lag for GDP.

To note, currently ONS have paused updating the time series between Quarter 1 2012 and Quarter 4 2019 to focus on developing methods to improve data quality and minimise the frequency of revisions.

We want to hear from you

We want to hear about how you use STOI and your views on its strengths and limitations in light of the new statistics on GDP for Wales. This will help inform a decision about whether both series will be needed indefinitely. Please email economic.stats@gov.wales with your thoughts.

For the time being we will continue to publish STOI alongside GDP to help inform our understanding of their differences and similarities, and their relative strengths and limitations. In theory the benefits of GDP are that they are based on a much larger amount of data, they have full coverage of the economy and, in general, are thought to more accurately classify business activity. STOI meanwhile, has more stable seasonal adjustment (though GDP seasonal adjustment will improve over time) and is more timely.

The UK and Wales estimates in this release are calculated by the Office for National Statistics (ONS) and are comparable as they use the same methodology. Methodologies relating to the components within the Index of Production and Index of Construction are available from the background information tab on the release webpage. The Scottish Government publishes a GDP measure in place of short-term output indicators. The Northern Ireland Assembly publishes the Northern Ireland

Composite Economic Index (NICEI), which is also not directly comparable to the Welsh short-term output indicators.

Due to difficulties collecting historical data from contributors from earlier time periods, the time series begins in 1998 but early quarters and initial years include a proportion of estimated data. More information is given in the Summary Quality Reports for <u>Index of Market Services</u> and the <u>Index of Production and Construction</u>.

Throughout the release, references to the longer-term refer to the latest four quarters compared to the previous four quarters, and references to the short-term refer to the current quarter compared to the previous quarter. It is recommended that when looking at the growth rates of volatile series, users should focus on the percentage change over the longer-term.

7.6 National Statistics status

The United Kingdom Statistics Authority has designated these statistics as National Statistics, in accordance with the Statistics and Registration Service Act 2007 and signifying compliance with the Code of Practice for Statistics.

National Statistics status means that official statistics meet the highest standards of trustworthiness, quality and public value.

All official statistics should comply with all aspects of the Code of Practice for Statistics. They are awarded National Statistics status following an assessment by the UK Statistics Authority's regulatory arm. The Authority considers whether the statistics meet the highest standards of Code compliance, including the value they add to public decisions and debate. The designation of these statistics as National Statistics was confirmed in February 2012 following a <u>full assessment against</u> the Code of Practice.

Since the latest review by the Office for Statistics Regulation, we have continued to comply with the Code of Practice for Statistics, and have made the following improvements:

- Eliminated un-necessary tables from bulletin as they are freely available on <u>StatsWales</u>
- Combined the two releases into one to improve user experience
- Improved visuals and commentary of long-term trends for sub-sectors
- Included comparisons with other conceptually similar statistics such as GDP

It is Welsh Government's responsibility to maintain compliance with the standards expected of National Statistics. If we become concerned about whether these statistics are still meeting the appropriate standards, we will discuss any concerns with the Authority promptly. National Statistics status can be removed at any point when the highest standards are not maintained, and reinstated when standards are restored.

7.7 Well-being of Future Generations Act (WFG)

The Well-being of Future Generations Act 2015 is about improving the social, economic, environmental and cultural wellbeing of Wales. The Act puts in place seven wellbeing goals for

Wales. These are for a more equal, prosperous, resilient, healthier and globally responsible Wales, with cohesive communities and a vibrant culture and thriving Welsh language. Under section (10)(1) of the Act, the Welsh Ministers must (a) publish indicators ("national indicators") that must be applied for the purpose of measuring progress towards the achievement of the wellbeing goals, and (b) lay a copy of the national indicators before Senedd Cymru. Under section 10(8) of the Well-being of Future Generations Act, where the Welsh Ministers revise the national indicators, they must as soon as reasonably practicable (a) publish the indicators as revised and (b) lay a copy of them before the Senedd. These national indicators were laid before the Senedd in 2021. The indicators laid on 14 December 2021 replace the set laid on 16 March 2016.

Information on the indicators, along with narratives for each of the wellbeing goals and associated technical information is available in the Wellbeing of Wales report.

Further information on the Well-being of Future Generations (Wales) Act 2015.

The statistics included in this release could also provide supporting narrative to the national indicators and be used by public services boards in relation to their local wellbeing assessments and local wellbeing plans.

7.8 Further details

Links

This document is available at https://gov.wales/short-term-output-indicators

Previous publications of this statistical release contained more extensive tables in Appendix B. All the information contained within these tables can now be found on <u>StatsWales</u>.

Next update

October 2022

We want your feedback

We welcome any feedback on any aspect of these statistics which can be provided by email to economic.stats@gov.wales.

Open Government Licence

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Appendix A: Sections of Standard Industrial Classification¹ in Index of Production, Index of Construction and Index of Market Services

Table A1: Sections and sub-sections in Index of Production

| SIC 2007 | Description |
|--------------|---|
| В | Mining and Quarrying |
| С | Manufacturing |
| CA (10-12) | Food products, beverages and tobacco |
| CB (13-15) | Textiles, wearing apparel and leather products |
| CC (16-18) | Wood and paper products, and printing |
| CD (19) | Coke and refined petroleum products |
| CECF (20-21) | Chemicals and pharmaceuticals |
| CG (22-23) | Rubber & plastics products, & other non-metallic minerals |
| CH (24-25) | Basic metals and metal products |
| CICJ (26-27) | Computer and electronic products |
| CK (28) | Machinery and equipment n.e.c. |
| CL (29-30) | Transport equipment |
| CM (31-33) | Other manufacturing and repair |
| CIJKL | Engineering and allied industries |
| CCGM | Other manufacturing |
| DE | Electricity, gas and water supply |

Table A2: Sections in Index of Construction

| SIC 2007 | Description | |
|----------|--------------|--|
| F | Construction | |

Table A3: Sections and sub-sections in Index of Market Services

| SIC 2007 | Description |
|------------|--|
| G | Distribution |
| 45 | Wholesale, Retail Sale & Repair of Motor Vehicles |
| 46 | Wholesale Trade except Motor Vehicles |
| 47 | Retail Sales except Motor Vehicles |
| Н | Transportation and Storage |
| 49-51 | Land, water and air transport |
| 52-53 | Warehousing and support activities for transportation; postal and courier activities |
| 1 | Accommodation and Food Service Activities |
| 55 | Accommodation |
| 56 | Food and beverage service activities |
| J | Information and Communication |
| JA (58-60) | Publishing, audio-visual and broadcasting activities |
| JB (61) | Telecommunications |
| JC (62-63) | Information technology and other information activities |
| K | Financial and Insurance Activities |
| L | Real Estate Activities |
| L x OOD | Real Estate excluding Owner Occupied Dwellings |
| OOD | Owner Occupied Dwellings |
| M | Professional, Scientific and Technical Activities |
| N | Administrative and Support Service Activities |
| R-T | Other Services |

¹ See <u>UK Standard Industrial Classification of Economic Activities 2007</u> for full category descriptions.

Appendix B: Reference Table

Table B1: Index of Production and Index of Construction for Wales (1)

Latest percentage change 4 atrs to previous 4 gtr to previous gtr **Annual Indices** 2007 STANDARD INDUSTRIAL CLASSIFICATION Index 2020 2021 2022 atrs Q1 Wales UK⁽⁴⁾ UK⁽⁴⁾ Weights⁽³⁾ 2020 (r) 2021 (r) Q4 (r) (r) Q2 (r) Q3 (r) Q4 (r) Q1 Wales Section Description 94.8 (r) 94.3 (r) 91.7 (r) B-E PRODUCTION INDUSTRIES 1000 90.9 92.6 94.5 3.1 95.7 (r) 89.5 (r) 4.4 6.0 1.3 В Mining and Quarrying 11 93.3 (r) 93.8 93.0 88.3 (r) 119.6 (r) 81.2 (r) 86.2 (r) 69.5 -1.0 -9.1 -19.3 -0.5 С Manufacturing 794 88.9 (r) 89.1 93.6 (r) 86.2 (r) 90.8 (r) 90.8 (r) 88.7 (r) 92.6 4.0 8.6 4.4 1.4 CA 95.7 92.3 (r) 2.6 Food. Beverages and Tobacco 154 94.1 (r) 89.4 (r) 94.6 (r) 95.7 (r) 100.3 (r) 104.0 4.3 6.9 36 СВ Textiles, Wearing Apparel and Leather 16 82.1 (r) 112.2 102.3 (r) 119.4 (r) 122.1 (r) 112.4 (r) 94.7 (r) 151.6 31.8 21.0 60.1 1.0 CC Wood, Paper Products and Printing 69 73.4 (r) 77.0 73.2 (r) 67.7 (r) 74.3 (r) 84.6 (r) 81.5 (r) 83.9 20.2 13.2 3.0 2.8 CD Coke and Refined Petroleum Products 42 77.8 (r) 72.7 76.0 (r) 32.1 (r) 64.2 (r) 94.8 (r) 99.7 (r) 103.2 50.9 16.8 3.5 7.1 CF-CF Chemicals and Pharmaceuticals 105 95.5 (r) 87.2 91.8 (r) 94.9 (r) 86.0 (r) 81.9 (r) 85.9 (r) 81.3 -11 4 1.0 -5.3 -9 1 Rubber and Plastics and other Non-CG metallic Minerals 61 108.6 (r) 97.1 (r) 109.9 107.1 (r) 112.3 112.4 (r) 106.2 (r) 107.1 9.5 17.5 -1.3 4.4 CH Basic Metals and Metal Products 100 87.3 (r) 102.6 94.8 (r) 101.3 (r) 105.8 (r) 104.5 (r) 8.5 -13.5 8.3 98.5 (r) 85.2 10.6 CI-CJ Computer and Electronic Products 112 96.7 (r) 95.1 97.8 (r) 93.1 (r) 101.1 (r) 95.4 (r) 90.6 (r) 106.7 2.7 6.5 17.8 4.7 CK Machinery and Equipment n.e.c 41 103.9 (r) 120.9 102.5 (r) 115.0 (r) 112.5 (r) 124.8 (r) 131.3 (r) 131.8 16.1 16.6 0.4 1.8 CL Transport Equipment 175 68.5 (r) 61.8 69.0 (r) 61.6 (r) 65.1 (r) 65.4 (r) 55.0 (r) 48.0 -8.6 0.4 -12.7 -2.9 CM Other Manufacturing and Repair 125 103.9 (r) 93.6 136.4 (r) 89.3 (r) 101.3 (r) 93.5 (r) 90.4 (r) 117.7 -1.7 15.1 30.1 5.7 CIJKL Engineering and Allied Industries 328 2.4 0.8 82.6 (r) 80.5 83.0 (r) 79.0 (r) 83.3 (r) 83.1 (r) 76.7 (r) 78.5 0.1 7.2 CCGM Other Manufacturing 255 94.0 (r) 93.0 112.3 (r) 89.0 (r) 96.7 (r) 94.2 92.4 (r) 106.0 5.5 15.3 14.8 4.6

SEASONALLY ADJUSTED (2): 2019 = 100

Source: Short-term output indicators, WG and ONS

CONSTRUCTION

Electricity, Gas and Water Supply (5)

99.0 (r)

74.6 (r)

106.6

90.7

195

1000

104.5 (r)

82.3 (r)

103.2 (r)

89.3 (r)

109.9 (r)

90.8 (r)

109.3 (r)

88.9 (r)

103.9

93.7 (r)

103.4

94.4

5.7

21.7

2.1

15.5

-0.5

0.7

1.3

2.2

DE

F

⁽¹⁾ Revisions to the series are normally made each quarter to take account both of more recent information and improved seasonal factors

⁽²⁾ All series are seasonally adjusted except CB, CC, CD and CK.

⁽³⁾ Where the sections are highlighted in bold; the weights sum to the Index of Production (IoP = 1,000). Those sub-sections whose weights are not highlighted sum to the individual section e.g the sum of the weights for sub-sections CC, CG and CM sum to Section CCGM. There may be some apparent slight discrepancies between the constituent items and the total due to rounding.

⁽⁴⁾ UK figures for Production as published by the Office for National Statistics on 30 June 2022 and UK figures for Construction as published by the Office for National Statistics on 12 May 2022.

⁽⁵⁾ Relates to SIC 2007 Sections D - Electricity, Gas and Air Conditioning Supply and Section E - Water Supply; Sewerage, Waste Management and Remediation Activities.

⁽r) Revised data.

Table B2: Index of Market Services for Wales (1)

SEASONALLY ADJUSTED(2): 2019 = 100

| | | | | | | | | | | | Latest percentage change | | | |
|---|--|------------------------|--------------------------------|-----------|-----------|-----------|------------------------------|-----------|------------------------|-------|--------------------------|-------------------|-------|-------------------|
| 2007 STANDARD INDUSTRIAL CLASSIFICATION | | Index | Index Annual Indices 2020 2021 | | | 2022 | 4 qtrs to previous 4 qtrs | | qtr to previous qtr | | | | | |
| Section | Description | Weights ⁽³⁾ | 2020 | 2021 | Q4 (r) | Q1 (r) | Q2 (r) | Q3 (r) | Q4 (r) | Q1 | Wales | UK ⁽⁴⁾ | Wales | UK ⁽⁴⁾ |
| IoMS | MARKET SERVICES | 1000 | 93.0 (r) | 100.0 (r) | 97.2 (r) | 96.5 (r) | 99.7 (r) | 102.6 (r) | 101.4 (r) | 102.5 | 9.3 | 10.7 | 1.1 | 0.9 |
| G | Distribution | 210 | 92.1 (r) | 103.2 (r) | 98.0 (r) | 96.6 (r) | 106.7 (r) | 106.3 (r) | 103.4 (r) | 108.7 | 15.0 | 10.8 | 5.1 | -2.1 |
| 45 | Wholesale, Retail Sale & Repair of Motor Vehicles | 201 | 81.4 (r) | 98.0 (r) | 93.9 (r) | 85.3 (r) | 105.9 (r) | 101.2 (r) | 99.5 (r) | 111.8 | 29.5 | 28.3 | 12.4 | -8.1 |
| 46 | Wholesale Trade except Motor Vehicles | 321 | 88.5 | 103.2 (r) | 89.7 (r) | 90.8 | 103.0 (r) | 110.0 | 109.1 (r) | 111.7 | 24.5 | 10.0 | 2.3 | -1.4 |
| 47 | Retail Sales except Motor Vehicles | 478 | 99.0 | 105.5 (r) | 105.2 (r) | 105.3 (r) | 109.5 | 105.9 (r) | 101.2 (r) | 105.3 | 4.5 | 6.7 | 4.1 | -0.7 |
| Н | Transport | 64 | 81.5 | 85.4 (r) | 88.1 (r) | 85.3 (r) | 78.9 (r) | 89.0 (r) | 88.4 (r) | 85.2 | 6.0 | 18.9 | -3.6 | 4.9 |
| 49-51 52,53 | Land, Water & Air Transport Warehousing & Transport Support Activities; Postal & | 428 | 68.7 | 73.6 (r) | 66.1 (r) | 67.2 (r) | 68.4 (r) | 76.8 (r) | 82.1 (r) | 90.7 | 30.3 | 29.1 | 10.5 | 5.2 |
| , | Courier Activities | 572 | 92.9 | 96.3 (r) | 106.4 (r) | 100.7 (r) | 88.7 | 100.3 | 95.4 (r) | 83.6 | -5.1 | 11.1 | -12.4 | 4.6 |
| 1 | Accommodation & Food Service Activities | 78 | 63.1 | 101.2 (r) | 67.1 (r) | 66.8 (r) | 97.8 | 126.8 (r) | 113.5 (r) | 124.3 | 100.5 | 112.4 | 9.5 | 5.0 |
| 55 | Accommodation | 314 | 60.9 | 111.9 (r) | 75.6 (r) | 72.5 (r) | 111.2 (r) | 149.1 (r) | 114.9 (r) | 119.6 | 116.4 | 167.3 | 4.1 | 1.9 |
| 56 | Food & Beverage Service Activities | 686 | 64.2 | 96.3 (r) | 63.1 (r) | 64.2 (r) | 91.7 (r) | 116.6 (r) | 112.8 (r) | 126.5 | 93.3 | 96.4 | 12.1 | 6.3 |
| J | Information & Communication Activities | 74 | 98.7 | 98.7 (r) | 106.6 (r) | 101.8 (r) | 97.8 (r) | 99.1 (r) | 96.1 (r) | 96.6 | -2.9 | 8.7 | 0.5 | 4.2 |
| JA | Publishing, Audio Visual & Broadcasting Activities | 113 | 90.1 | 97.5 (r) | 92.9 | 87.6 (r) | 91.7 (r) | 93.8 (r) | 117.0 (r) | 115.3 | 23.4 | 19.6 | -1.4 | -0.3 |
| JB | Telecommunications | 456 | 99.1 | 94.1 (r) | 106.0 (r) | 94.9 (r) | 93.5 | 92.4 (r) | 95.6 (r) | 96.6 | -3.9 | 2.8 | 1.1 | 0.3 |
| JC | Information Technology & Other Information Activities | 431 | 100.5 | 103.9 (r) | 110.8 (r) | 112.9 (r) | 104.0 (r) | 107.6 (r) | 91.2 (r) | 91.7 | -7.5 | 6.9 | 0.5 | 9.2 |
| K | Financial & Insurance Activities | 96 | 99.5 | 98.2 (r) | 102.8 (r) | 100.4 (r) | 99.9 (r) | 96.6 (r) | 95.9 (r) | 99.1 | -1.7 | 0.9 | 3.4 | 0.9 |
| L | Real Estate Activities | 248 | 101.0 (r) | 98.5 (r) | 101.4 (r) | 99.8 (r) | 99.2 (r) | 97.8 (r) | 97.0 (r) | 97.7 | -3.0 | -0.4 | 0.7 | -0.2 |
| LXOOD | Real Estate Activities excluding OOD | 118 | 95.0 | 93.6 (r) | 98.5 (r) | 92.6 (r) | 94.2 | 93.9 (r) | 93.6 (r) | 93.2 | -0.4 | -3.7 | -0.5 | -1.3 |
| OOD | Owner Occupied Dwellings | 882 | 101.8 (r) | 99.1 (r) | 101.8 (r) | 100.8 (r) | 99.9 (r) | 98.3 (r) | 97.5 (r) | 98.3 | -3.3 | 1.0 | 0.8 | 0.4 |
| M | Professional, Scientific & Technical Activities | 79 | 106.7 | 119.8 (r) | 112.1 (r) | 122.0 (r) | 118.0 (r) | 118.3 (r) | 120.8 (r) | 116.8 | 6.7 | 11.7 | -3.3 | -0.6 |
| N | Administrative & Support Service Activities | 83 | 86.3 (r) | 101.8 (r) | 92.2 (r) | 98.0 (r) | 96.6 (r) | 103.4 (r) | 109.0 (r) | 98.9 | 16.3 | 19.1 | -9.3 | 3.1 |
| RST | Other Services | 68 | 88.4 | 87.2 (r) | 94.0 | 85.2 (r) | 85.8 (r) | 87.1 (r) | 90.9 (r) | 90.7 | 3.9 | 22.9 | -0.3 | 2.2 |

Source: Short-term output indicators, WG and ONS

⁽¹⁾ Revisions to the series are normally made each quarter to take account both of more recent information and improved seasonal factors

⁽²⁾ All series are seasonally adjusted except JC and K.

⁽³⁾ Where the sections are highlighted in bold; the weights sum to the Index of Market Services (IoMS = 1,000). There may be some apparent slight discrepancies between the constituent items and the total due to rounding.

⁽⁴⁾ UK figures as published by the Office for National Statistics on 30 June 2022.

⁽r) Revised data.