Educational destinations of Key Stage 4 and post-16 learners, 2012/13

In December 2014 we published the statistical article “Educational Destinations of Key Stage 4 and Post-16 Learners 2011/12”. This is an update of that article with destinations for the 2012/13 leavers cohort.

Background

Arrangements for measuring performance in school sixth forms and in further education/work-based learning are currently entirely separate. Performance measures are produced from different data-collection systems using differing analysis methodologies. This means we are unable to compare outcomes in a meaningful way across learner settings, and that learners and parents do not have access to transparent information to inform their choices. This has been identified as an issue by various reviews such as the Robert Hill review and the Review of Qualifications.

To address this disparity, the Welsh Government is currently working to develop a set of consistent measures for further education institutions and sixth forms to enable the publication of headline and provider level information on an annual basis. Further information about the development of consistent measures for post-16 learning can be found on the Welsh Government website.

One of the proposed measures is learner destination (i.e. what a learner moves on to do after completing their learning) and Welsh Government (WG) statisticians have been working closely with policy officials to consider and overcome the issues involved in deriving this measure.

Destinations of learners can be categorised into two broad types: educational and employment. A separate project is looking at options for how the employment destinations of learners could be determined, and the resource implications. This article therefore focuses on the educational destinations of learners and provides an overview of progress made in addition to some preliminary analysis. These are experimental data, and as such we would value any feedback on the methodology, please see further information section.
Data Sources

There are three distinct data-sources relating to learners in Wales: the Pupil Level Annual School Census (PLASC), Lifelong Learning Wales Record (LLWR) and the Higher Education Statistics Agency (HESA) student record. These collections relate to pupils enrolled at maintained schools in Wales; learners accessing post-16 learning at Further Education (FE) institutions, Work Based Learning (WBL) providers or Local Authorities; and students enrolled at HE institutions in the UK respectively.

Data Linking

In the first year of the project initial discussions were held to review the commonality of these datasets and consider the issues involved in linking them to determine the educational destinations/progression of learners.

Specific consideration was given to the Unique Learner Number (ULN) which was introduced in Wales in 2011. The requirement to submit ULN data for learners was added to both the PLASC and LLWR specifications from 2011/12 onwards and this information will facilitate data-linkage in future. However, analysis revealed that ULN-coverage was less than complete for 2011/12 and, combined with the absence of ULN data on the HESA student record, it was concluded that a significant amount of the data-linking work would need to be undertaken externally.

Following a tender exercise, a contract to match the key datasets was awarded to Fischer Family Trust (FFT) for two years. Datasets relating to the 2011/12 and 2012/13 academic years, and in this second year 2012/13 to 2013/14, were produced from the PLASC, LLWR and HESA data-collections and provided to FFT. Data-linking was undertaken throughout the summer and matched output datasets were delivered to the WG at the end of August. Further information on the data-matching methodology employed by FFT can be found towards the end of this article.

Initial results

On receipt of the matched datasets, WG statisticians undertook a quality assurance exercise to determine the proportions of the respective learner cohorts in 2011/12 that were successfully matched to an educational destination in 2012/13. In general, the match-rates were at a level as might be expected according to age, and sector:

- High for year 11 and year 12 pupils (92 per cent and 93 per cent respectively) and relatively high for year 13 pupils (79 per cent)
- High for FE learners aged under 20 (68 per cent) but lower for FE learners aged 20 and over (51 per cent), and
- Lowest for WBL learners (35 per cent).

Note that WBL learners will predominantly progress into, or remain in, employment following their programme and therefore the low match-rate to educational destinations was not unexpected.

(Similar match rates were achieved in this subsequent year of the analysis).

Based on these match-rates, it was decided to focus analysis on the Key Stage 4 and Key Stage 5 cohorts. For the purposes of this output, we have defined learners aged 16 to 19 who are engaged in a level 3 programme (excluding apprenticeship provision) at either a school sixth form or FE institution as Key Stage 5.
Methodological Issues

Having evaluated the match-rates, a significant amount of analysis was then undertaken to resolve issues arising from the disparity of the data-sources and produce learner destination data from the matched datasets. In particular, this involved:

**Determination of leaver cohorts**

The Key Stage 4 leaver cohort is defined as all Year 11 pupils included on PLASC.

Defining the cohort for the Key Stage 5 measure is more complex due to the different data sources involved in the analysis. The LLWR is a full-year data collection and includes information relating to completion status and the end-dates of learning programmes. Therefore determining leaver cohorts from FE institutions and WBL providers in a given academic year was relatively straightforward.

However, until 2012/13 the Post-16 PLASC was a census-based data-collection which included all pupils “in learning” as at a given date in January each year. (Data on completion status or actual leave dates have begun to be collected for the 2013/14 academic year onwards through the post-16 PLASC. As the quality of this data improves we will look at incorporating into this methodology in future years.)

In determining a Key Stage 5 leaver cohort, pupils in years 12, 13 and 14 on the January 2013 PLASC were compared against the pupils in years 12, 13 and 14 on the January 2014 PLASC. The pupils that were not recorded on the January 2014 PLASC at the same school were defined as ‘leavers’. It therefore includes leavers from Year 12 (i.e. during/after the first year of sixth form), as well as Years 13 and 14.

**Categorisation of learning programmes**

To quantify learner progression, it is necessary to determine the types and levels of learning programmes that learners have both undertaken and subsequently progressed to.

LLWR data for WBL provision is generally categorised into well-defined learning programmes (e.g. Apprenticeships, Traineeships), which reflect the funding and contractual arrangements for WBL. However, this isn’t the case for FE provision or sixth form provision (which has historically been funded at learning activity level, with programme-based funding introduced in 2014/15).

Hence, it was necessary to develop a methodology to derive the type and level of programme based on the learning activities undertaken by each learner (in the case of PLASC learners, this involved linking to the Post-16 PLASC activity dataset). Once developed, this methodology was then applied to both ‘leaver’ and ‘destination’ datasets.

The destination programmes of some sixth form learners could not be derived, due to matching issues between the PLASC Post-16 PLASC These are detailed under ‘Unspecified programme at school sixth form’ in the subsequent analysis. The number of such occurrences has fallen from over 1,000 to close to 600 in this second year of the analysis.

**Learners with multiple destinations**

Our initial analysis of the matched datasets showed that some learners had been matched to multiple data-sources and therefore had multiple destinations. These instances can occur due to collaborative arrangements between school sixth forms and FE institutions. Other examples might include learners progressing to learning at an FE institution, withdrawing and subsequently enrolling at a sixth form in the same academic year. Further to this, some learners who were matched to LLWR were recorded as
undertaking multiple learning programmes in 2013/14 (which may mean that they transferred or progressed from one programme to another in-year, or undertook two programmes concurrently).

Hence a hierarchal approach was developed which prioritised one destination for each leaver. In brief, this approach took the highest level destination for each learner and multiple destinations at the same level were then prioritised based on the start date of the respective programmes.

However, the Key Stage 4 analysis showed a large number of learners that were matched to ‘Other Undergraduate’ programmes on the HESA record in addition to level 3 programmes on PLASC/LLWR. Further investigation suggested these were enrolments on HE ‘taster’ courses delivered by Welsh HE institutions. Hence, in these cases, the level 3 programme was prioritised ahead of HE.

**Educational Destinations of Key Stage 4 and Key Stage 5 Learners**

Tables 1 and 2 below detail the educational destinations of Key Stage 4 and Key Stage 5 learners who left in 2012/13.

Note that independent schools are not included in the analysis in terms of either the leaver or destination cohort as these establishments fall outside the scope of the PLASC data collection.

Key results for 2012/13 leavers are as follows:

- 61 per cent of all Key Stage 4 leavers progressed to a level 3 programme at a school sixth form, FE institution or WBL provider. A further 32 per cent remained in some other form of education or training
- 46 per cent of Key Stage 4 leavers with a matched destination were at school sixth forms and 45 per cent were at FE institutions.
- Compared to 2011/12, a higher proportion of Key Stage 4 leavers are matched to a destination of a level 3 programme (61 per cent compared to 58 per cent in 2011/12). (Note part of this increase may be accounted for by the decrease in unspecified programme at school sixth form: 1.7 per cent compared to 3.0 per cent of 2011/12 leavers.)
- 36 per cent of all Key Stage 5 leavers progressed to a Higher Education programme at a HE or FE institution. A further 36 per cent remained in some other form of education or training (i.e. at level 3 or below).
- 50 per cent of Key Stage 5 leavers with a matched destination were at HE institutions, 39 per cent were at FE institutions and 8 per cent were at WBL providers.
- Compared to 2011/12, a slightly lower proportion of Key Stage 5 leavers are matched to a HE programme (36 per cent compared to 37 per cent in 2011/12). However, the overall proportion matched to an education (or training) destination has increased to 72 per cent from 70 per cent.
<table>
<thead>
<tr>
<th>Level of Destination Programme</th>
<th>Type of Destination Programme</th>
<th>School Sixth Form</th>
<th>Further Education Institution</th>
<th>Other (b)</th>
<th>Total Learners</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level 4</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td>0</td>
<td>115</td>
<td>30</td>
<td>145</td>
<td>0.4</td>
</tr>
<tr>
<td>Level 3</td>
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<td>12,305</td>
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<td>590</td>
<td>1.7</td>
</tr>
<tr>
<td>Level 2</td>
<td>Intermediate Welsh Baccalaureate</td>
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<td>1,005</td>
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<tr>
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<td>All</td>
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<td>730</td>
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<td>1.8</td>
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<td>350</td>
<td>3,100</td>
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<td>14,870</td>
<td>2,830</td>
<td>35,435</td>
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</tr>
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</table>

% 46.3 45.1 8.6

Sources: Pupil Level Annual Schools Census (PLASC), Lifelong Learning Wales Record (LLWR), HESA Student Record

(a) Defined as all year 11 learners enrolled at maintained schools in Wales.

(b) Includes HE institutions and WBL providers
### Table 2: Educational Destinations of Key Stage 5 leavers\(^{(a)}\), 2012/13

<table>
<thead>
<tr>
<th>Level of Destination Programme</th>
<th>Type of Destination Programme</th>
<th>Educational Establishment</th>
<th>Total Learners</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>School Sixth Form</td>
<td>Further Education Institution</td>
<td>Other(^{(b)})</td>
</tr>
<tr>
<td>Level 4+</td>
<td>Higher Education - Oxbridge</td>
<td>0</td>
<td>0</td>
<td>65</td>
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<tr>
<td></td>
<td>Higher Education - Sutton Trust</td>
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<td>0</td>
<td>2,890</td>
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<td>Higher Education - Other Institution</td>
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</tr>
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<td></td>
<td>Other</td>
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<td>20</td>
</tr>
<tr>
<td></td>
<td>All</td>
<td>0</td>
<td>120</td>
<td>11,990</td>
</tr>
<tr>
<td>Level 3</td>
<td>Advanced Welsh Baccalaureate</td>
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<td>1,775</td>
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</tr>
<tr>
<td></td>
<td>A/AS Levels</td>
<td>200</td>
<td>1,800</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Vocational</td>
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<td>3,035</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Apprenticeship</td>
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<td>0</td>
<td>525</td>
</tr>
<tr>
<td></td>
<td>Other</td>
<td>20</td>
<td>530</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>All</td>
<td>590</td>
<td>7,140</td>
<td>525</td>
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<tr>
<td>Unspecified programme at school sixth form</td>
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<td>Level 2</td>
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</tr>
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<td>1,045</td>
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<tr>
<td>Level 1</td>
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</tr>
<tr>
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<td></td>
<td>Traineeship - Level 1</td>
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</tr>
<tr>
<td></td>
<td>Other</td>
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</tr>
<tr>
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<td>All</td>
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<td>390</td>
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<td>Other levels</td>
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<td>210</td>
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<td></td>
<td>Other Employability Programmes</td>
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</tr>
<tr>
<td></td>
<td>Other</td>
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<td>295</td>
<td>0</td>
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<tr>
<td></td>
<td>All</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Learners not matched to an educational destination</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>All learners</strong></td>
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<td>605</td>
</tr>
<tr>
<td>%</td>
<td></td>
<td></td>
<td></td>
<td>2.5</td>
</tr>
</tbody>
</table>

Sources: Pupil Level Annual Schools Census (PLASC), Lifelong Learning Wales Record (LLWR), HESA Student Record

\(^{(a)}\) Defined as all learners aged 16 to 19 engaged in a level 3 programme at either a school sixth form or FE institution.

\(^{(b)}\) Includes HE institutions and WBL providers
Further Information

1 Data Sources

- This Statistical Article summarises data on the educational destinations of learners leaving Key Stage 4 and Post-16 learning in 2012/13. The leaver cohorts comprise Key Stage 4 (year 11) leavers from maintained schools in Wales and Key Stage 5 leavers from maintained school sixth forms and FE institutions.

- The key data-sources used in this article are as follows:
  
  Pupil Level Annual School Census (PLASC);
  
  Lifelong Learning Wales Record (LLWR); and
  
  Higher Education Statistics Agency (HESA) student record

- Our statement of administrative sources, which refers specifically to the LLWR and HESA student record, can be found at: Statement of Administrative Sources

2 Data Matching Process

- The PLASC, LLWR and HESA datasets were matched to the FFT core pupil table\(^2\) to assign unique candidate identifiers that were common across each dataset.

- The specified requirement was for the PLASC, LLWR and HESA records to be statistically matched. That is, they were required to be matched at a level of quality suitable for use at aggregate level and statistical purposes, but not at individual pupil-level. Although the same matching routines would be applied by FFT when performing a full non-statistical match, there is less manual checking and fewer amendments of individual records. Instead, automated rules are used that guarantee a high rate of accuracy based on past matches using the same criteria from similar datasets that have been fully checked.

- After matching had taken place, the post-16 unique identifiers along with other fields were used to cross-check the candidate identifiers allocated. The chances of successfully matching a record depend on: the number of common fields; the similarity of their values; and how effectively they discriminate between candidates. To improve the chances of a correct match the identifying fields are cleaned and reformatted to form a set of standard matching fields in each dataset.

- The matching routines iterate through a list of field combinations until a match is found and an identifier can be assigned from one record to the other. The combinations include many transformations such as surname/forename reversals and so forth. To find the best match between datasets the routines work from the strongest through to relatively weaker match levels or combinations. Around two thousand match levels were used.

- The match level can be used to approximate the quality of the match. It is important to note that any individual match is either successful or not and those at weaker levels are not necessarily mismatches. Match levels have been sampled and rated over time, with the matching of numerous similar datasets having contributed to match level ratings.

- Minimum match criteria is applied to prevent over-matching. Over-matching is the problem where two candidates are matched when they should not be. Under-matching is the problem where two

\(^2\) The FFT core pupil table is produced as part of a separate WG contract to produce school value-added measures
records belonging to a single candidate are not matched together. In principle, under-matching is considered a preferable solution when the data quality does not allow correct matching to consistently take place.

- Previously unseen learners (not present in FFT’s core pupil database) from the two leaver cohort datasets were allocated new candidate identifiers. Subsequent grouping and matching across all five datasets ensured that common identifiers were maintained across both the leavers and destinations cohorts.

### 3 Definitions

#### 3.1 Terminology

- The term ‘academic year’ is used throughout this article to refer to the period 1 August to 31 July.
- The term ‘learning activity’ refers to a specific qualification or course pursued by a learner, for example, an A Level or Essential Skill. The term ‘learning programme’ refers to a group of related learning activities.

#### 3.2 Cohorts

- The base cohorts underpinning table 1 comprises all year 11 pupils in maintained schools in Wales recorded on PLASC. In instances where a pupil is enrolled at more than one school, we have taken the pupil’s main school and excluded the registration at the subsidiary school.
- The base cohort underpinning table 2 comprises the leaver cohort of year 12, 13 and 14 pupils undertaking level 3 programmes in maintained schools as well as all learners aged 16 to 19 undertaking level 3 programmes at FE institutions in the respective academic year.
- The cohort includes learners in maintained special schools (but not Pupil Referral Units). Learners in independent schools are not included.

#### 3.3 Destination

- Note that the coverage of education destinations is limited to maintained schools, FE institutions and work-based learning providers in Wales. Destinations to either schools, FE institutions or work-based learning providers in England will not be identified, nor to independent schools whether in Wales or England. The HESA data covers all UK institutions. Leavers with a deferred entry into Higher Education would not be reflected.
- The Sutton Trust has developed a list of the 30 most highly selective British Universities. The list includes the University of Oxford and the University of Cambridge but we have detailed learner progression to these institutions separately in Table 2.

### 4. Rounding and Suppression

- All figures in this Statistical Article are rounded to the nearest 5 and therefore there may be apparent slight differences between the sum of the constituent rows/columns and the totals. A ‘*’ represents numbers greater than 0 but less than 5.
5 Key Quality Information

This section provides a summary of information on this output against five dimensions of quality: Relevance, Accuracy, Timeliness and Punctuality, Accessibility and Clarity, and Comparability.

5.1 Relevance

The measures set out in this article are intended to be used:

- by the Welsh Government, to monitor providers’ performance and as baseline information to set targets for improvement;
- by providers themselves, as a management tool to measure their own performance and benchmark themselves against sector averages, as part of their annual self-assessment cycles; and
- in future years once the analysis is established, as the basis of published performance indicators for individual providers, to inform Estyn inspections and learner and parental choice.

The measures are also used both within and outside the Welsh Government to monitor educational trends and as a baseline for further analysis of the underlying data. Some of the key users are:

- Ministers and the Members Research Service in the National Assembly for Wales;
- Officials in the Welsh Government;
- Other government departments;
- Students, researchers, and academics;
- Individual citizens, private companies, and the media.

These statistics are used in a variety of ways. Some examples of these are:

- general background and research;
- inclusion in reports and briefings;
- advice to Ministers;
- to inform and evaluate the education policy-making process in Wales.

5.2 Accuracy

Statisticians within the Welsh Government undertake quality assurance processes ahead of publishing this article.

Pages 2 and 3 provide an overview of methodological/data-quality issues that relate specifically to the data in this output.

5.3 Timeliness and Punctuality

Data for a given academic year is derived and published as soon as possible, subject to availability of the data-sources and completion of the external data-matching process.

5.4 Accessibility and Clarity

This statistical release is pre-announced and then published on the Statistics and Research section of the Welsh Government website.
5.5  Comparability

The Department for Education (DfE) has released analysis detailing the destinations of Key Stage 4 and Key Stage 5 learners in England which can be found via the following link:

[Destinations of key stage 4 and key stage 5 pupils](#)

However, due to differences in methodology and data collection, caution should be exercised in making direct comparisons with the figures contained within this release. In particular, the DfE figures:

- detail employment destinations as well as education destination
- measure participation in a destination that has been sustained for 2 terms, and
- use a different definition for Key Stage 5 learners.

5.6  Coherence

Careers Wales undertake an annual survey of school leavers on behalf of the Welsh Government. The data from this survey provides a valuable snapshot of pupil destinations.

The education destinations of year 11 leavers in 2013 are broadly comparable with the figures detailed in Table 1 of this article.

6.  Additional Information

This data is designated as experimental statistics. We welcome and value any feedback on the methodology or contents of this output.
Notes on the use of statistical articles

Statistical articles generally relate to one-off analyses for which there are no updates planned, at least in the short-term, and serve to make such analyses available to a wider audience than might otherwise be the case. They are mainly used to publish analyses that are exploratory in some way, for example:

- Introducing a new experimental series of data;
- A partial analysis of an issue which provides a useful starting point for further research but that nevertheless is a useful analysis in its own right;
- Drawing attention to research undertaken by other organisations, either commissioned by the Welsh Government or otherwise, where it is useful to highlight the conclusions, or to build further upon the research;
- An analysis where the results may not be of as high quality as those in our routine statistical releases and bulletins, but where meaningful conclusions can still be drawn from the results.

Where quality is an issue, this may arise in one or more of the following ways:

- being unable to accurately specify the timeframe used (as can be the case when using an administrative source);
- the quality of the data source or data used; or
- other specified reasons.

However, the level of quality will be such that it does not significantly impact upon the conclusions. For example, the exact timeframe may not be central to the conclusions that can be drawn, or it is the order of magnitude of the results, rather than the exact results, that are of interest to the audience.

The analysis presented does not constitute a National Statistic, but may be based on National Statistics outputs and will nevertheless have been subject to careful consideration and detailed checking before publication. An assessment of the strengths and weaknesses in the analysis will be included in the article, for example comparisons with other sources, along with guidance on how the analysis might be used, and a description of the methodology applied.

Articles are subject to the release practices as defined by the release practices protocol, and so, for example, are published on a pre-announced date in the same way as other statistical outputs. Missing value symbols used in the article follow the standards used in other statistical outputs, as outlined below.

.. The data item is not available
.
The data item is not applicable
- The data item is not exactly zero, but estimated as zero or less than half the final digit shown
* The data item is disclosive or not sufficiently robust for publication

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