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Introduction

Cervical screening was introduced in Scotland in the 1960s. Although large numbers of women were offered tests, the service at this time was not introduced as a population based programme. In 1978 committees were established by the UK Department of Health and a review was carried out in Scotland resulting in the Strong Report.

The national cervical screening programme was introduced in Scotland in 1988 with the aim of reducing the incidence of invasive cancer of the cervix. Cervical screening is routinely offered to eligible women aged 20-60 every three years. Women with an abnormal screening history will continue to be invited for follow-up as appropriate.

Cervical screening is used to identify cell changes which could develop to be cancerous, in women who otherwise have no symptoms; at this stage, any changes can be easily treated, and treatment is usually very effective.

Within Scotland (as part of the Scottish Cervical Screening Programme) data for publication and management information are compiled by ISD on a quarterly and annual basis. This present release includes data on uptake, laboratory turnaround times, number of cervical screening tests processed and results. The cervical screening year runs from 1st April to 31st March; this current release includes data to 31st March 2012. The Scottish Cervical Screening Programme Statistics for 2011-12 is a National Statistics publication which has been assessed by the UK Statistics Authority as complying with the Code of Practice.

Eligible women are invited to attend cervical screening once every 3 years; uptake statistics are therefore based on women attending in the previous 3.5 years. The additional 0.5 year ensures that all data for women who have attended for screening within that 3 year time period are reported on.
**Key points**

**At 31st March 2012**

- Of eligible women, 73.0% had been screened in the previous 3.5 years, a decrease of 0.6% compared to 31st March 2011.
- Compared to 31st March 2011, uptake rates have remained constant or decreased slightly in all of the 15 NHS Boards. The majority of NHS Boards continue to have a higher uptake rate compared to 4 years ago, at 31st March 2008.

**In 2011-12**

- Just under 409,000 cervical screening tests were processed within the programme which is an increase of approximately 9% in the last 4 years since 2007-08.
- Of all tests processed, over 97% were of satisfactory quality. Of satisfactory results, 90.9% had a negative result, 7.8% had a low grade cell change and the remaining 1.3% had high grade cell changes.
- The lowest average laboratory turnaround time of 17 working days was found in quarter 4 (January to March).
Results and Commentary

Please note that the following tables and charts are based on the pre-2006 Health Board configuration. NHS Highland does not include Argyll & Bute and NHS Greater Glasgow does not include the Clyde area.

Details of all cervical screening statistics included within this publication can be found on the Cervical Screening homepage.

Annual data

Uptake

The population denominator used for calculating uptake includes women aged 20-60 years (excluding medically ineligible women). The numerator is the number of these women with a record of a previous screening test in the last 3.5 years.

- Women are invited to attend cervical screening once every three years. Of eligible women, uptake decreased slightly compared to at 31st March 2011 with 73.0% of women being screened in the previous 3.5 years. Uptake has however increased by 3.3% in the last 4 years since 31st March 2008 (Figure 1 and Table 1).

- Uptake rates, at 31st March 2012, have fallen slightly in 14 of the 15 NHS Boards, in comparison with those calculated in the previous year. Only Dumfries and Galloway remained constant with an uptake of 76.6%. (Figure 1 and Table 1). All but one of the NHS Boards have a higher uptake rate compared to 4 years ago, at 31st March 2008.

Figure 1. Percentage uptake rates of females in Scotland aged 20-601 with a record of a previous screening test taken within the last 3.5 years2, by NHS Board of Residence3

1. Based on the Scottish Cervical Call Recall System (SCCRS) population denominator (excluding medically ineligible women)
2. Cervical screening year runs from 1st April to 31st March.
3. NHS Highland does not include the Argyll & Bute area and figures for NHS Glasgow do not include the Clyde area.
Table 1. Percentage uptake rates of females in Scotland aged 20-60 with a record of a previous screening test taken within the last 3.5 years, by NHS Board of Residence.

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<th>2009-10</th>
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<td>(Former) Argyll &amp; Clyde</td>
<td>67.1</td>
<td>72.4</td>
<td>74.2</td>
<td>74.6</td>
<td>74.2</td>
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<td>Ayrshire &amp; Arran</td>
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<td>75.1</td>
<td>75.6</td>
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<td>76.7</td>
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<td>76.6</td>
<td>76.6</td>
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<td>Fife</td>
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<td>72.6</td>
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<td>72.1</td>
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<td>Forth Valley</td>
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<td>76.2</td>
<td>75.1</td>
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<tr>
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<td>76.1</td>
<td>75.9</td>
<td>75.3</td>
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<td>Greater Glasgow</td>
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<td>70.1</td>
<td>70.1</td>
<td>69.5</td>
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<td>75.8</td>
<td>76.5</td>
<td>76.4</td>
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<td>74.0</td>
<td>73.9</td>
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<td>Orkney</td>
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<td><strong>Scotland</strong></td>
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<td><strong>73.6</strong></td>
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1. Based on SCCRS population denominator (excluding medically ineligible women).
2. Cervical screening runs from 1st April to 31st March.
3. These data are based on the pre-2006 Health Board configuration (former Argyll & Clyde). Figures for NHS Highland do not include the Argyll & Bute area and figures for NHS Greater Glasgow do not include the Clyde area,
• Of those screened in the previous 3.5 years, the number of women attending cervical screening has fallen slightly across all 5 year age bands within the target age group of 20-60 years (Figure 2).

• Where slight decreases in uptake have been reported in all age bands compared to 31st March 2011, it should be noted that uptake rates remain higher than those achieved at 31st March 2008, except for the age band 55-59. (Figure 2).

**Figure 2. Percentage uptake rates of females in Scotland aged 20-60\(^1\) with a record of a previous screening test taken within the last 3.5 years\(^2\), by age group**

1. Based on SCCRS population denominator (excluding medically ineligible women).
2. Cervical screening year runs from 1st April to 31st March.
Workload statistics

- In 2011-12, approximately 409,000 cervical screening tests were processed within the programme, resulting in an increase of 4.8% (over 18,500 tests) compared to the previous year (Figure 3).

- The number of screens processed in 2011-12 is approximately 8.9% higher compared to 2007-08 (Figure 3).

**Figure 3. Number of cervical screening tests processed\(^1\) at NHS laboratories: Scotland, 1\(^{st}\) January 1995\(^2\) to 31\(^{st}\) March 2012**

1. Data includes unsatisfactory screening tests.
2. Cervical screening year runs from 1st April to 31st March except for years 1995-1997 which are reported by calendar year.
Looking at trends in the number of cervical screening tests processed:

- The highest number of screening tests processed in 2011-12 was in Q2 when 107,623 tests were processed. This is an increase of 13.9% compared to Q2 of 2010-11. The lowest number of screening tests processed in 2011-12 was in Q3. Q1, Q2 and Q3 of 2011-12 are all higher than the equivalent quarters in 2010-11 (Figure 4).

- Q4 of 2008-09 showed the largest number of screening tests processed in any quarter since the start of the programme (133,000) (Figure 4). The rise in the number of women attending cervical screening most likely reflects the impact of the publicity surrounding the introduction of the HPV vaccination programme and Jade Goody’s diagnosis and subsequent death from cervical cancer in March 2009.

Figure 4. Trends in the number of cervical screening tests processed\(^1\) by quarter: Scotland, 1\(^{st}\) April 2007\(^2\) to 31\(^{st}\) March 2012

1. Data includes unsatisfactory screening tests
2. Cervical screening year runs from 1\(^{st}\) April to 31\(^{st}\) March
Cervical screening results

- The percentage of screening test results indicating high grade cell changes, which require a further examination, has remained low at around 1.3-1.5% since 2000-01 (Table 2).

**Table 2. Total number of satisfactory screening tests and percentage results: Scotland, 1st April 2000\(^{1}\) to 31st March 2012**

<table>
<thead>
<tr>
<th>Year</th>
<th>Total satisfactory screening tests</th>
<th>Low grade cell changes</th>
<th>High grade cell changes</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000-01</td>
<td>418 727</td>
<td>92.0</td>
<td>6.6</td>
</tr>
<tr>
<td>2001-02</td>
<td>430 430</td>
<td>91.7</td>
<td>6.8</td>
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<tr>
<td>2002-03</td>
<td>407 157</td>
<td>92.7</td>
<td>6.0</td>
</tr>
<tr>
<td>2003-04</td>
<td>412 693</td>
<td>92.8</td>
<td>5.8</td>
</tr>
<tr>
<td>2004-05</td>
<td>397 367</td>
<td>92.8</td>
<td>5.9</td>
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<tr>
<td>2005-06</td>
<td>401 301</td>
<td>92.6</td>
<td>6.1</td>
</tr>
<tr>
<td>2006-07</td>
<td>392 219</td>
<td>92.4</td>
<td>6.2</td>
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<td>2007-08</td>
<td>364 842</td>
<td>92.3</td>
<td>6.4</td>
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<td>2008-09</td>
<td>436 881</td>
<td>91.6</td>
<td>7.0</td>
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<td>2009-10</td>
<td>402 905</td>
<td>91.3</td>
<td>7.4</td>
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<tr>
<td>2010-11</td>
<td>379 355</td>
<td>90.8</td>
<td>7.9</td>
</tr>
<tr>
<td>2011-12</td>
<td>398 858</td>
<td>90.9</td>
<td>7.8</td>
</tr>
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</table>

1. Cervical screening year runs from 1st April to 31st March.
2. Please refer to the glossary on page 14 to see how low and high grade cell change are categorised.
Additional cervical screening statistics

Laboratory turnaround times

- In 2011-12 the average turnaround times in Scotland range from 19 days in Q1, Q2 & Q3 to 17 days in Q4 (Figure 5). The figures for 2011-12 show an increase in turnaround times from 2010-11.

- The highest average laboratory turnaround time of 19 days in Q1, Q2 & Q3 of 2011-12, was the highest since Q1 of 2009-10.

- The spike in laboratory turnaround times in Q1 of 2009-10, is a direct result of the increase in the number of screening tests processed at that time. The increase in workload is most likely due to the raised public awareness of cervical screening.

Figure 5. Average quarterly laboratory turnaround times\(^1\) for cervical screening tests processed by quarter: Scotland, 1\(^{\text{st}}\) April 2007 to 31\(^{\text{st}}\) March 2012

1. The turnaround time is defined as the number of days from the date the sample was received by the laboratory to the date the report was issued by the laboratory.
2. Cervical screening year runs from 1\(^{\text{st}}\) April to 31\(^{\text{st}}\) March.
Invasive cervical cancer incidence

- Overall, the incidence rate of invasive cancer of the cervix has decreased by approximately 46% between 1986 and 2010. (Figure 6).

- Over the last 32 years, European age-standardised rates have fallen from 14.4 diagnoses of cervical cancer per 100,000 persons in 1978, to 11.3 in 2010 (Figure 6), as expected in the presence of a cancer screening programme.

- However, in the past few years the incidence rate has begun to increase following a prior slight decrease in uptake of cervical screening tests. Note that the decrease in uptake may reflect, at least in part, an artefact related to a change in recording practice (See Appendix A1 – Background information).

Figure 6. Cervical Cancer Incidence (European Age Standardised Rates\(^1\)) Females of all ages, Scotland 1975 – 2010

1. Incidence rates have been age-standardised to the European Standard Population and cover females of all ages.
2. Best fit line produced using Poisson regression.

Detailed cervical cancer incidence and mortality data, lifetime risk, prevalence and survival statistics can be found on the cervical cancer statistics page of the Cancer website. Information on the most recent cancer incidence publication can be found here
Unsatisfactory screening results

- In 2011-12 the percentage of unsatisfactory screening tests, where insufficient cells have been taken for testing, has dropped slightly compared to 2010-11 to 2.4% and has fallen by 6.4% in the last 10 years (Figure 7). The main reason for this improvement is the introduction of Liquid Based Cytology (LBC) as a new method of processing tests during the screening year 2003-04. LBC reduces the rate of unsatisfactory tests and low grade results, and therefore the need for repeat examinations.

Figure 7. Percentage of unsatisfactory screening results: Scotland, 1st April 1999¹ to 31st March 2012

1. Cervical screening year runs from 1st April to 31st March
Glossary

**Cytology** - the study of cells

**Dyskaryosis** - cell changes which could develop to be cancerous

**Low grade cell changes** - result grouping which covers borderline squamous/glandular and mild dyskaryosis results.

**High grade cell changes** - result grouping which covers moderate/severe dyskaryosis, severe dyskaryosis/invasive, glandular abnormality and endocervical adenocarcinoma results.

**Cervical screening test** - a test which detects changes in the cells of the cervix and enables affected women to have treatment early

**Adenocarcinoma** - a particular type of malignant tumour arising from glands

**Liquid Based Cytology (LBC)** - a method of assessing cell changes

**Satisfactory screening test** - a test that is of sufficient quality to enable the cytopathologist to interpret the findings and provide a working diagnosis.

Cervical screening terms relating to the data within this publication can be found within our [Glossary](#) document on the [Cervical Screening](#) homepage.
### List of Tables

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<td>Cervical cancer incidence and mortality</td>
<td>1st January 1975 to 31st December 2010</td>
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Contact
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0131 275 7694

Douglas Clark
Information Analyst
douglasclark@nhs.net
0131 275 7182

Further Information
Further information can be found on the ISD website

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Appendix

A1 – Background Information

The use of cervical screening to detect changes in cells, which could develop to be cancerous, has been shown to reduce cervical cancer incidence and mortality. The test involves analysing cells which have been taken from the neck area of the womb, also known as the cervix. Routine checks ensure that any changes in cells can be picked up, monitored and treated if necessary.

In Scotland, eligible women between 20 and 60 years of age are routinely invited to attend cervical screening once every 3 years. Uptake rates are therefore based on women attending in the previous 3.5 years, with the additional 0.5 year to ensure that all data for women, who have attended for screening within that 3 year time period, have been reported.

Cervical screening uptake data are also reported based on a 5.5 year period. The main reason for this is to reference against indicators from the Quality and Outcomes Framework (QOF), a voluntary source of potential income for general practices across the UK. The indicator in question (CS1) measures the percentage of patients aged from 21 to 60 whose notes record that a cervical screening test has been performed in the last 5 years. As above, the 0.5 year is to ensure that data on all women who have attended within the previous 5 years have been reported. For further information on QOF please visit here. The uptake data for 5.5 years is also used to compare against other cervical screening programmes within the United Kingdom.

Until May 2007, Cervical Cytology Statistics were collected quarterly from laboratories on form ISD(D)1Q and annually from health boards on form ISD(D)4, with data being compiled by the Epidemiology and Statistics Group (ESG) in ISD Scotland. More information can be found on our Data Sources page.

In May 2007, following a review of local call recall arrangements in Scotland, a new national IT system, the Scottish Cervical Call Recall System (SCCRS), was introduced across NHS Scotland. Cervical screening data are currently collected by each of the laboratories in Scotland and retained on the Scottish Cervical Call Recall System (SCCRS). SCCR5 collects information relating to each step as a woman moves through her screening episode. More information on SCCR5 can be found on the National Services Division website at www.nsd.scot.nhs.uk.

For publication and management turnaround, ISD extracts data from SCCR5 on cervical screening tests carried out in Scotland on a quarterly basis, for periods ending 31st March, 30th June, 30th September and 31st December. In addition to this, ISD also extract information on cervical screening uptake figures on an annual basis, for years ending 31st March. Until 31st March 2008, uptake rates for those women invited to attend cervical screening in the previous 3.5 years had declined year on year across Scotland. The majority of the decrease, almost 7%, occurred between 31st March 2007 and 31st March 2008. This decline coincided with the implementation of a new standardised recording system, which has improved the quality of the data collected and could explain some of the decrease.

All analytical support of the Scottish Cervical Screening Programme is provided by ISD Scotland.
## A2 – Publication Metadata (including revisions details)

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Quarterly workload data on the number of cervical screening tests processed by NHS Board/laboratory are reported from 2003.

Average laboratory turnaround times by quarter and NHS Board/laboratory are reported from 2003.

Turnaround times for completion of 95% of screening tests by quarter and laboratory are reported from 2008.

Number of cervical screening tests processed and average turnaround times by quarter are reported on from 2007.

Historical quarterly data on the number of cervical screening tests processed and the corresponding results are reported on from 1999.

A new national IT system, the Scottish Cervical Call Recall System (SCCRS), was introduced across Scotland in May 2007 to standardise the recording of cervical screening information. The SCCR S system has improved the quality of the data collected. Data included in this publication prior to May 2007 is compiled from legacy applications.

Revisions relevant to the present publication include the inclusion of quarterly turnaround times, by NHS laboratory and quarter, for 95% of all cervical screening tests processed. This information has been presented from 2008.

The present release also includes a comparison of NHS laboratory workload and average laboratory turnaround times by year and quarter. This information has been presented from 2007.

Please see Cervical Screening FAQ and Glossary document found at the bottom of the Cervical Screening homepage.

ISD's Scottish Cervical Screening Programme statistics are designed for monitoring and evaluating the effectiveness of the Scottish Cervical Screening Programme. The statistics are used for a variety of purposes, including:

- informing Scottish Government planning, including NHS spending and the development of the Scottish cancer care action plan;
- informing Health Boards' planning and commissioning of cancer services;
- health services research and clinical audit;
- promoting changes in societal behaviour, such as increasing screening uptake rates; and
- providing information to compare with UK and international health data.

All cervical screening data are subject to validation when
Further checks on figures are carried out by individual laboratories on a quarterly basis. Any inaccuracies are then reported back for investigation and correction, if necessary.

### Completeness
At time of extraction, data for the most recent year are estimated to be complete. See above note on Revisions.

### Comparability
Currently, cervical screening statistics are not generally compared with other areas of the UK & NI. The eligible age range for invitation to cervical screening varies within the UK.

### Accessibility
It is the policy of ISD Scotland to make its web sites and products accessible according to published guidelines.

### Coherence and clarity
All cervical screening tables are accessible via the Cervical Screening homepage.

Cervical screening data are presented within Excel spreadsheets for each table.

### Value type and unit of measurement
Number of cervical screening tests, results of tests and average turnaround times are reported as a count; uptake and % results are reported as a percentage.

### Disclosure
The ISD protocol on Statistical Disclosure Protocol is followed.

### Official Statistics designation
National Statistics

### UK Statistics Authority Assessment
Assessment by UK Statistics Authority for National Statistics designation completed.

<table>
<thead>
<tr>
<th>Date of first publication</th>
<th>3.5 &amp; 5.5 year uptake information by NHS Board of Residence is available from 1st January 1995. Annual workload information, for the number of cervical screening tests processed, is available from 1st January 1995.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Help email</td>
<td><a href="mailto:nss.isdcancerstats@nhs.net">nss.isdcancerstats@nhs.net</a></td>
</tr>
</tbody>
</table>
| Date form completed      | 8th August 2012                                                                ując
A3 – Early Access details (including Pre-Release Access)

Pre-Release Access

Under terms of the "Pre-Release Access to Official Statistics (Scotland) Order 2008", ISD are obliged to publish information on those receiving Pre-Release Access ("Pre-Release Access" refers to statistics in their final form prior to publication). The standard maximum Pre-Release Access is five working days. Shown below are details of those receiving standard Pre-Release Access and, separately, those receiving extended Pre-Release Access.

Standard Pre-Release Access:

Scottish Government Health Department
NHS Board Chief Executives
NHS Board Communication leads

Extended Pre-Release Access

Extended Pre-Release Access of 8 working days is given to a small number of named individuals in the Scottish Government Health Department (Analytical Services Division). This Pre-Release Access is for the sole purpose of enabling that department to gain an understanding of the statistics prior to briefing others in Scottish Government (during the period of standard Pre-Release Access).

Scottish Government Health Department (Analytical Services Division)

Early Access for Management Information

These statistics will also have been made available to those who needed access to ‘management information’, ie as part of the delivery of health and care:

NHS Board Screening Coordinators

Early Access for Quality Assurance

These statistics will also have been made available to those who needed access to help quality assure the publication:

Scottish Cervical Screening Programme National Coordinator and Programme Manager – National Service Division

Scottish Government Health Directorate, CMO and Public Health Directorate

NHS Board Cervical Screening Laboratory contacts

Cervical screening Quality Assurance Reference Committee (QARC)
A4 – ISD and Official Statistics

About ISD

Scotland has some of the best health service data in the world combining high quality, consistency, national coverage and the ability to link data to allow patient based analysis and follow up.

Information Services Division (ISD) is a business operating unit of NHS National Services Scotland and has been in existence for over 40 years. We are an essential support service to NHSScotland and the Scottish Government and others, responsive to the needs of NHSScotland as the delivery of health and social care evolves.

Purpose: To deliver effective national and specialist intelligence services to improve the health and wellbeing of people in Scotland.

Mission: Better Information, Better Decisions, Better Health

Vision: To be a valued partner in improving health and wellbeing in Scotland by providing a world class intelligence service.

Official Statistics

Information Services Division (ISD) is the principal and authoritative source of statistics on health and care services in Scotland. ISD is designated by legislation as a producer of ‘Official Statistics’. Our official statistics publications are produced to a high professional standard and comply with the Code of Practice for Official Statistics. The Code of Practice is produced and monitored by the UK Statistics Authority which is independent of Government. Under the Code of Practice, the format, content and timing of statistics publications are the responsibility of professional staff working within ISD.

ISD’s statistical publications are currently classified as one of the following:

- National Statistics (ie assessed by the UK Statistics Authority as complying with the Code of Practice)
- National Statistics (ie legacy, still to be assessed by the UK Statistics Authority)
- Official Statistics (ie still to be assessed by the UK Statistics Authority)
- other (not Official Statistics)

Further information on ISD’s statistics, including compliance with the Code of Practice for Official Statistics, and on the UK Statistics Authority, is available on the ISD website.

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 Official Statistics. Designation can be broadly interpreted to mean that the statistics:

- meet identified user needs;
- are well explained and readily accessible;
- are produced according to sound methods, and
- are managed impartially and objectively in the public interest.

Once statistics have been designated as National Statistics it is a statutory requirement that the Code of Practice shall continue to be observed.