

## Output Prospectus

April 2004

### Introduction

Population Censuses were held in Northern Ireland, England and Wales and Scotland on 29 April 2001. In Northern Ireland the Census was carried out by the Northern Ireland Statistics and Research Agency. This prospectus details the results released to date and describes how and when future Northern Ireland results will be released.

The Census is a count of all people and households in Northern Ireland. It provides essential statistical information, informing the planning and funding of public services, including health, education and transport. Results also support research and business. Information will be available from the Northern Ireland level down to small geographical areas.

This prospectus covers the scope and phasing of the results. There are links to supplementary information ranging from the geographical base of the Census to detailed outlines of tables. It will be updated regularly and in time will become a catalogue with links to actual results.

Similar prospectuses are available for [England and Wales](#) and for [Scotland](#).

Within this document there are a number of internal links and links to further information on our Website, requiring an internet connection.

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Census Customer Services  
NISRA  
McAuley House  
2-14 Castle Street  
Belfast  
BT1 1SA

**Telephone:** ++44 (0) 28 90348160  
**Fax:** ++44 (0) 28 90348161  
**E-mail:** census.nisra@dfpni.gov.uk

**Website:** [www.nisra.gov.uk](http://www.nisra.gov.uk)

# Output Prospectus

## Headlines

The first results from the 2001 Census – a count of the population by age and gender – were published on 30 September 2002. The mid-year population estimates for 2001, which are based on 2001 Census data, were published on the same date.

More detailed results, in the form of Key Statistics (percentage counts for each Census question) have been released for a range of geographic areas, from Northern Ireland as a whole through to Census Output Areas. The first set of Key Statistics for Northern Ireland and geographies down to Local Government District was issued on 19 December 2002 in a paper report. An electronic version of the report is also available. This report has subsequently been complemented by electronic versions of Key Statistics for Electoral Wards and Census Output Areas.

Standard Tables were published at the Northern Ireland level on 20 March 2003. Tables were produced for geographies down to Local Government District on 16 April 2003 and for Wards on 23 July 2003. These tables contain detailed cross-tabular output on a wide variety of Census variables.

Less detailed cross-tabulations in the form of Census Area Statistics were released in electronic form on 10 September 2003, these tables provide cross-tabular output at lower geographical levels and are available for all geographies down to Census Output Areas.

Univariate tables providing detailed information on single variables were released on 14 November 2003. These results are available for a range of geographies including Census Output Areas.

A final Key Statistics table on Migration (KS25) was also released on 14 November 2003. A range of other tables providing Migration, Travel to Work and Workplace population statistics were released on 17 February 2004 and provide both univariate counts and cross-tabular results at various levels of geography.

A number of Theme Tables that provide output for a variety of sub-populations were released on 30 March 2004. While the majority of these will be available at Local Government District Level, some will also be available at Electoral Ward level and Census Output Area level. The results will be made available

- in printed reports pursuant to the Census Act (Northern Ireland) 1969
- on the Northern Ireland Statistics and Research Agency website
- on the Northern Ireland Census Access website
- as part of the Northern Ireland Neighbourhood Statistics service
- 
- as complete sets of detailed results on CD-ROMs in a variety of electronic formats for the more experienced user.

Every Census topic will be covered in a consistent and comparable way for all output geographies including Local Government Districts, Wards and sub-Ward Census Output Areas. Click [HERE](#) for more information on Output Areas.

The main results will be complemented by:

- UK multi-source topic reports
- Specialised Outputs, including the Origin-Destination Statistics Product, Samples of Anonymised Records (SARs) and the Grid Square Product
- Services to provide customised Census output.

Value added products will be supplied by licensed intermediaries. Click [HERE](#) for more information.

Click [HERE](#) for more background information about the 2001 Census.

### Consultation

The topic content of the Census and the programme of output has been developed through rounds of consultation in which proposals have been put to user organisations and revised on the basis of feedback.

## Using this prospectus

The prospectus has summaries of planned Census products with

- links to detailed specifications\*
- links to other information\* such as output geography
- descriptions of services available on request\*

\* Linked documents will become progressively available on our Website, and will be updated whenever necessary. Printed versions will be available from Census Customer Services.

The prospectus will be updated regularly, including confirmation of release dates and will increasingly become a catalogue with direct links to results on our Website.

### Output for England and Wales and Scotland

This prospectus is largely about the results of the Northern Ireland Census.

The Censuses throughout the UK are closely co-ordinated. Click [HERE](#) for information about output in England and Wales and [HERE](#) for information about output in Scotland. Many of the Census figures are comparable throughout the UK.

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## Access to results

Access to the main results of the Census is free and use is subject to minimal restrictions (Click [HERE](#) for further information). This is a major change from previous Censuses, and reflects wider policies on government information.

The dissemination of Census results is governed by two parts of the Census (Northern Ireland) Act 1969. Section 2.3 provides central funding in effect making the main statistical results free. Section 4 requires Census reports to be made to the Northern Ireland Assembly and allows further output to be commissioned, provided that additional marginal costs are recovered.

Up to and including the 1991 Census there were quite elaborate schemes to recover costs, and to restrict supply to third parties to prevent loss of income. However, it became clear in consultations around 1999 that such an approach was incompatible with the thrust on modernising government. NISRA has initiated a project - Northern Ireland Census Access - with the aim of delivering the main results of the 2001 Census, including a mapping facility, in an unrestricted, user friendly and largely electronic way to be free to all at the point of use.

The Census Access package, available free to all users at the point of delivery will include

- all standard area statistics
- extended tables with more detail
- a complete geographical framework
- information on definitions and methodology, and
- re-use and publication licences

It is available as a freestanding Web based service. The majority of this information is also available via the Census website. Click [HERE](#) to go to the Census website.

## Scope and phasing of output

The volume of 2001 Census output means that the release of the main results is occurring in a number of phases. This started in 2002 and will continue throughout 2003 and 2004.

### Printed reports

The first '2001 Population' report, which was published on 30 September 2002, provided population counts and mid-year population estimates. This was followed on 19 December 2002 by a report giving Key Statistics for Local Government Districts, Health and Social Services Boards, Education and Library Boards, NUTS level III areas and Parliamentary Constituencies.

The 'Standard Tables' report, which contains detailed crosstabulations of Census results at the Northern Ireland level, was published on 20 March 2003. Each of these reports was laid before the Northern Ireland Assembly.

A printed report on the Migration, Travel to Work and

Workplace Population Statistics tables was published on 17 February 2004. The 'Theme Tables' report was published on the 30 March 2004.

### Census Access

The complete set of results are issued under the arrangements of the Northern Ireland Census Access (NICA) project. In this way Key Statistics, Standard Tables, Theme tables, Census Area Statistics and Univariate Tables will contribute to an integrated set of statistics, geography and metadata free to end users via the website.

### Electronic media

CD ROMs, with software for viewing and manipulation of the data are also used to make results available. These supplement the printed reports for Key Statistics, Standard Tables, Univariate Tables, Theme Tables and the Migration, Travel to Work and Workplace Statistics product and contain equivalent information at lower geographical levels. Census Area Statistics are also available on CD ROM as well as on the web.

The statistics released on CD ROM and via the Web build into a complete set of data for Northern Ireland. In addition, licensed intermediaries may package the information, without charge for the statistics themselves but including their software as an added value service.

### Charges for standard output

There will be no charge for output on our website. Material costs of supply on other media will be recovered through charges, as will the marginal costs of producing specially commissioned customised output.

### Confidentiality

The 2001 Census will provide a uniquely rich source of information which is being made widely, freely and flexibly available. This will include detailed counts, inter-relationships of variables, and information for a large number of area types including neighbourhoods. The protection of the confidentiality of personal Census information to meet assurances given when it was collected remains paramount however, and disclosure control procedures have been implemented to meet these assurances.

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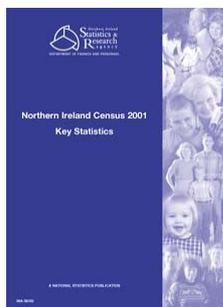
## Census reports

### 2001 Population Report

This report, published on 30 September 2002, provided details of the resident population counts at Census Day (29 April 2001) by gender and age for Northern Ireland and its Local Government Districts. The mid-year (30 June) population estimates for 2001, which are based on the Census, were also published on that date. Both have been adjusted to take account of any undercoverage in the Census. Click [HERE](#) to view the report.

### The Key Statistics series

On 19 December 2002 a printed volume of Key Statistics gave summary results for each main Census topics, mainly in percentage terms



The content of this report was made available on CD-ROMs and versions have been placed on our website. Software is included to view and manipulate the electronic versions.

The printed volume, CD and website provide Key Statistics for Northern Ireland as a whole and its constituent Local Government Districts, Health and Social Services Boards, Education and Library Boards, NUTS level III areas and Parliamentary Constituencies. Click [HERE](#) to view the report.

Key Statistics for Electoral Wards and Census Output Areas have also been released. Click [HERE](#) to view the spreadsheets. Key statistics for all areas are available on CD and are available on the NICA website.

Topographical reference maps showing the boundaries of the areas featured in each report are included on the Website. Click [HERE](#) to view the maps. They are also available (at a charge) as hard copies on request from Census Customer Services.

### Profiles

Profiles provide selected data from the Key Statistics, either as an option in electronic products, or as hard copies on request from Census Customer Services. Data is presented in a number of standard templates for selected areas at different levels of geography, or as a picture of a pre-defined area, also containing some comparative measures. Profiles are currently available from Census Customer Services and are available on the NICA website

### Standard Tables

The printed volume released on 20 March 2003 (and available for purchase from 16 April 2003) provides the full set of Standard Tables for Northern Ireland as a whole. Click [HERE](#) to view the report. The electronic supplements, in addition, provide Standard Tables for Health and Social Services Boards, Education and Library Boards, Local Government Districts and Wards

### Univariate Tables

Univariate tables were released electronically on 14 November 2003. These tables are available for a range of geographies down to Census Output Area. Click [HERE](#) to view the tables.

### Census Area Statistics

Census Area Statistics were made available on 10 September 2003 in electronic form only, to view these statistics click [HERE](#). This product includes less detailed crosstabulations for all geographies down to Census Output Area

### Migration/Travel to work/ Work Place Statistics

The Migration, Travel to Work and Workplace Statistics report was released on 17 February 2004 containing both univariate and cross-tabular output. Click [HERE](#) to view this report.

### Theme Tables

A printed volume was released on 30 March 2004 providing summary statistics for various sub-populations of interest within Northern Ireland. The printed report includes statistics for Northern Ireland as a whole. In addition, Theme tables for Health and Social Services Boards, Education and Library Boards, Local Government Districts and Wards are available as an electronic supplement. Click [HERE](#) to view the Theme Tables

Themes include:

- people and places
- families
- ethnicity and religion
- the labour market
- health
- migration
- the elderly
- housing

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## UK Multi-source topic reports

The main results of the Census will be followed, at a later date, by commentaries on important findings from the Census and other sources at the UK level

- providing consistent interpretation where there is more than one source of figures, such as the Census, sample surveys or administrative records
- with non-technical, illustrated explanations of patterns and trends
- prepared for release via our Website - some may also be printed
- backed up by more detailed tables from the Census and other sources.

## Census evaluation reports

Reports on the conduct and performance of the 2001 Census will be issued from June 2002 as

- a series of notes placed on our Website evaluating successive parts of the Census operation - click [HERE](#) to view the notes.
- a report on the coverage and statistical quality of the Census, also available on our Website
- a printed General Report on the whole conduct of the Census, also available on our Website

## Specialised Output

### SARs (Samples of anonymised records)

SARs are samples of individual Census records which have been adapted to preserve respondents' confidentiality. This is achieved by removing identifying information and restricting the amount of detail available. Two SAR products will be made available: one giving information on households and the individuals living in them, and the other based on individuals. The first will be a 1% sample and the second will be a 3% sample. The two samples will be non-overlapping. Further information on this product is available [HERE](#)

The Individual SAR will be released in 2004, with the Household SAR to follow thereafter.

There will also be Small Area Microdata (SAM) made available, which comprise of a 5% sample of individual records. This sample will be available at a lower geographical level, therefore the variables will be more collapsed than in the Individual SAR. This is due to follow after the production of the Household SARs. However, access to this product will be restricted.

### Origin Destination Product

The Origin Destination Product comprises of a number of tables covering the movement of people from a specific origin to a specific destination. It will include both movements due to migration and movements due to travel to work. Further information is available [HERE](#)

## Grid Square Product

This is a traditional Census product which was produced in 1971, 1981 and 1991. This will be available electronically from the end of 2004.

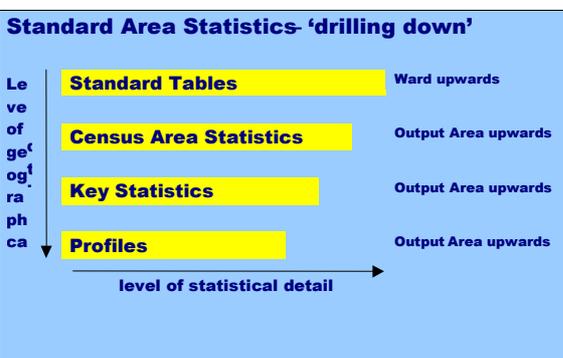
## Output hierarchy

Census results are available as a hierarchy of standard, pre-defined sets of increasing detail designed for release for progressively larger populations. These provide ready comparability between areas. Users can go straight to simple figures, or drill down for more detail through a familiar structure.

The standard table sets are

- *Profiles* - sets of between 20 and 50 counts in a number of standard templates, designed as indicators to be presented as percentages in a limited number of simple tables.
- *Key Statistics* - around 500 counts covering all main Census topics, designed as indicators to be presented as percentages in a limited number of simple tables. Click [HERE](#) to view tables
- *Standard Tables* - around 25,000 counts presented in cross-tabulations giving more depth than the CAS tables. Click [HERE](#) to view tables.
- *Census Area Statistics (CAS)* - around 6,700 counts presented as cross-tabulations covering all main Census topics and the relationships between them. Click [HERE](#) to view tables
- *Univariate Tables* - detailed counts for a wide selection of Census variables Click [HERE](#) to view tables.
- *Theme Tables* - additional topic extension tables for selected sub-populations. Click [HERE](#) to view tables.

Substantial parts of the standard area statistics are common throughout the UK.



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## Output geography

Standard output will be available for a range of areas as defined on Census day 2001.

### Area types

The main types of existing areas which the Census recognises are: Ward, Local Government District, Health and Social Services Boards, Education and Library Boards, Parliamentary Constituency and NUTS level III areas. These areas all have boundaries which are currently consistent with one another although they may be subject to change at some time.

### Geographical referencing

Census data are aggregated within different boundaries by assembling small geographical 'building bricks' to which the data are coded. The most adaptable and unchanging 'building brick' is the Irish Grid co-ordinate reference. A grid reference resolution of one metre gives a building, and the households and people in it, a unique geographical location. Data with such references can be captured and aggregated for any area with a boundary represented by a line of co-ordinates - termed a digital boundary.

Every record on the output database of the 2001 Census has a co-ordinate reference to a one metre resolution, as well as a postcode and more conventional area codes. This allows the data to be aggregated to any higher geographical area. It also allows for the creation of new small areas for the presentation of the statistics – the Output Areas.

### Output Areas

Small area statistics from the 1991 Census were aggregated and presented for areas drawn up for the conduct of the Census in the field – Enumeration Districts (EDs) – each of which was the workload for an Enumerator. The size and character of each ED was determined for operational purposes, and it was also convenient to use the ED codes in processing and as the smallest Output 'building brick', but variability made them less than ideal for statistical purposes.

The 2001 Census Output Areas are designed specifically for statistical purposes. They are based on the results of the 2001 Census and are built from postcodes. They are used not only for Census output but also for the Northern Ireland Neighbourhood Information Service (NINAS).

The system for creating Output Areas was fully automated and applies systematic and consistent criteria throughout Northern Ireland. Its development has been made possible through the availability of the computing power necessary to facilitate the automatic zoning methods used and also through the availability of co-ordinate referenced and postcoded data.

In simple terms, the Output Area Planning System created Output Areas with around 125 households and populations which tend towards homogeneity. These 5,022 Census Output Areas nest within Wards and comprise of whole unit postcodes and part postcodes. The system produced, in the main, compactly shaped areas following natural boundaries, but in some cases the shapes are convoluted because of the underlying street patterns and postcode referencing.

For each ward the system created a boundary around clusters of similarly postcoded addresses, with no gaps in between. The boundaries formed a set of unit postcode and part postcode polygons.

The system then looked for aggregations of contiguous postcode and part postcode within each Ward which optimised the homogeneity criteria for Output Areas using a process of very rapid iterative combinations.

For further information on the creation of Output Areas, click [HERE](#) to access a website prepared by Professor David Martin of the University of Southampton which provides a detailed account of the methods used in the Output Area production system.

Key Statistics for Output Areas were published on 30 May 2003.

### Geographical products

The main product of the system is Output Area boundaries which are the basis for reference or statistical maps, or for use in geographical information systems. The system also produces directories, or look-up tables, showing the postcodes which form each Output Area. These may be used to link non-Census data coded to postcodes to the denominators provided by Census statistics.

The Output Area boundaries and look-up tables are now available, in electronic format, subject to licensing arrangements for re-use. Click [HERE](#) for further information.

The complete range of geographic products include

- the Output Area boundaries, in vector format, for re-use in geographic information systems
- an Output Area attributes file
- look-up tables of Output Areas by postcodes
- look-up tables of Output Areas to administrative and statutory geographies
- postcode counts providing counts of households and persons for unit postcodes at Census Day

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Where the geographical base is delivered in an integrated package, e.g. through the Northern Ireland Census Access website or CDs, it is being used

- as an entry route to the data (point at a map, ask for the results around a postcode or location, or choose from a list of named areas)
- to display reference maps at various scales
- as the basis for pre-defined statistical maps for standard geographies
- a basis for simple ad hoc mapping by the user (the packages will allow export of data for more specialised mapping by the user), and
- a means of highlighting particular areas to view statistical data.

## Conditions of use

The Census geography products are included in the scope of Northern Ireland Census Access (NICA) and, with the exception of the recovery of material costs, will be free at the point of use. An agreement has been drawn up with the Ordnance Survey Northern Ireland in respect of the use of OSNI material in Census Access and Neighbourhood Statistics. Conditions for the use of geographical material, which have been delineated within the integrated packages, must be accepted before use.

## Media

### Printed reports

Printed reports have been published for all Standard Area Statistics available at high level geographies with the exception of Census Area Statistics and Univariate tables.

The reports are available through the Stationery Office and will have cover charges to recover production and distribution costs.

### CD-ROM

CD-ROMs have been developed to provide electronic versions of the material in the printed reports together with supplementary material. The CDs also contain data for lower geographical areas along with software to view and manipulate the tables.

The CD-ROMs are available with a charge to cover material costs and handling from Census Customer Services.

### The NISRA Website/ NICA Website

Electronic versions of the tables for all available geographical levels and copies of the printed reports are available without charge on the Census pages of the Website, wherever possible providing the complete content.

A specially commissioned Northern Ireland Census Access (NICA) website makes the full range of Census

results available and includes an online mapping facility. This includes the complete set of published tables for all geographical areas from Northern Ireland as a whole down to Output Area level. These statistics along with the reference maps and metadata will form an integrated dataset.

Facilities are provided to view, manipulate and download the material, with easy navigation. Tables are available for selection by either topic or area.

### Approved distributors

NISRA will work with approved distributors who will be licensed to take the material delivered in bulk and re-package it, with software if required, to provide value added products for end users. NISRA will not make any charge for the Census material disseminated in this way, but the distributors may charge for added value.

### Print on demand

NISRA will supply hard copies of Profiles on demand. For further information contact Census Customer Services (see [page 10](#) for contact details).

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## Release dates

Scheduled release dates are:

<b>30 September 2002</b>	Population statistics (by age and gender) for Northern Ireland, LGDs, H&SSBs, E&LB, NUTs Level 3 areas in published report.
<b>19 December 2002</b>	Key Statistics for Northern Ireland, LGDs, H&SSBs, E&LB, NUTs Level 3 areas in published report. Keys Statistics for Wards in electronic format. Population statistics for Wards and Parliamentary Constituencies in electronic format. Census profiles.
<b>20 March 2003</b>	Standard Tables for Northern Ireland in printed report and electronic format.
<b>16 April 2003</b>	Standard Tables for Local Government Districts in electronic format.
<b>30 May 2003</b>	Key Statistics at Output Area Level and revised Ward Level Key Statistics and Population statistics in electronic format.
<b>23 July 2003</b>	Standard Tables at Ward Level in electronic format.
<b>10 September 2003</b>	Census Area Statistics for all areas down to Output Area level will be released in electronic format.
<b>14 November 2003</b>	Univariate Tables for all areas down to Output Area level in electronic format.
<b>17 February 2004</b>	Migration, Travel to Work and Workplace Statistics tables will be released in electronic format
<b>30 March 2004</b>	Theme tables for all geographies down to Ward level will be released in electronic format.
<b>Mid 2004</b>	UK Origin Destination Product will be released electronically.
<b>Mid 2004</b>	SARS will be released electronically by The Cathie Marsh Centre for Census and Survey Research.
<b>Late 2004</b>	Grid Square Product will be disseminated electronically.

## Commissioning output

Census Customer Services will offer speedy and cost effective production of further output on request. Charges will be made to recover production, material and handling costs.

Requirements for output which can be met using standard output classifications and standard geographies will be able to be submitted and supplied by e-mail and charges will be modest. This service is now fully available and users are advised to allow two weeks for completion of any commissioned work.

There will also be a service to produce customised output which cannot be met using standard output classifications. Charges will cover any necessary development work, and estimates will be provided in advance of production.

## Disclosure protection

The protection of the confidentiality of personal Census information is paramount, and a number of protection measures have been used to prevent the inadvertent disclosure of information about identifiable individuals. In particular

- a sample of Census records was swapped between geographical locations in the output database, adding a small amount of uncertainty to Census outputs
- minimum thresholds of numbers of households and individuals apply before output is produced. These are 40 households and 100 individuals for Census Area Statistics and 400 households and 1,000 people for Standard Tables. Desirable Census output that falls below these thresholds is examined on a case-by-case basis.
- all outputs are subject to small cell adjustment, that is, for those cells in output tables where the cell count is small, the count is adjusted.
- Click [HERE](#) for further detail on disclosure protection.

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## Further information

The full scope for flexibility in output, including the possibility of an interactive service for customised output, will be covered in updates.

All Census output is Crown copyright. The use of material from Reports will be subject to the acknowledgement of copyright and source, and licences may be required.

### End user licences

The supply of all Census material in electronic form will be subject to end user licences which grant unrestricted use of the material but with conditions which require:

- that the user shall not attempt to derive information about identifiable individuals nor purport to have done so
- the acknowledgement of Crown copyright and source
- that the user shall obtain a licence to cover re-use and publication.

### Re-use and publication

Any re-use and publication of the standard area statistics must be covered by a free click-use licence obtained from HMSO as Controller of Crown copyright. The definition of re-use and publication is comprehensive and includes use on an intranet and any form of publication to a third party. An organisation may be covered by a single licence which applies for a period of five years. Re-use and publication of other material must be covered by specially tailored licences.

### Licensed intermediaries and Approved Suppliers

Organisations may use the 2001 census output to create value-added products and supply these to third parties under a Click-Use Licence or a Distribution Licence that additionally allows sub-licensing of re-use and publication, both for non-commercial and commercial purposes.

Organisations supplying such value-added products under a Distribution Licence can apply for Approved Supplier status. The Approved Suppliers scheme has been introduced by the UK Census organisations to indicate that members meet agreed standards. [CLICK HERE](#) for further information on the Approved Suppliers Scheme.

### Contact points and more information

**Census Customer Services**  
**Northern Ireland Statistics and Research Agency**  
**McAuley House**  
**2-14 Castle Street**  
**Belfast**  
**BT1 1SA**

Telephone : 028 90348160  
Email : [census.nisra@dfpni.gov.uk](mailto:census.nisra@dfpni.gov.uk)