

SCOTLAND'S CENSUS 2001

Output Prospectus

'A Guide to the Results and How to obtain them'

April 2005



This guide introduces the range of products and services that will be made available from the 2001 Census in Scotland and provides links to products already available.

The content of the products described in this guide has been developed through consultation with a wide variety of Census users. The products provide varying levels of detail for different sizes of areas to ensure that users can easily locate and use the Census information they want.

The majority of the data is being provided free through the SCROL (Scotland's Census Results OnLine) website to expand access to Census data to all users and improve the use of the data. However, for other media, such as CDs and printed publications, there will be a small charge to cover the material costs of printing or of the media.

All of the results have been adjusted to compensate for undercoverage in the Census, using information derived from the Census Coverage Survey. In addition, steps have been taken to safeguard confidentiality and protect against disclosure of personal information on the Census form.

Contact point:

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ABOUT THIS GUIDE

This guide provides a complete reference to the products and supporting information, presenting the results from the 2001 Census in Scotland. It focuses on the products but also provides links to other material enabling the user to gather a fuller understanding of the Census.

The guide provides information on:

- planned dates for release of products;
- links to products already available;
- methods of delivery (media);
- links to detailed specifications of the products, where available;
- information on SCROL;
- information on prices and licensing; and
- some background to the Census.

The guide will be updated regularly, primarily to the products as they become available.

Users registered with Customer Services, as Census Users will receive a Census Update informing them of the latest additions to the guide. If you'd like to register to receive Census Updates, contact GROS Customer Services (See **Contacts**).

The guide is about the products from the 2001 Census in Scotland only. Similar guides are available for products from the Census in [England and Wales](#) and [Northern Ireland](#).

2001 CENSUS PRODUCTS

A range of Census products have been designed to meet the needs of a wide range of users of Census data. They are intended to cover both users who wish to obtain a broad overview for a particular area, to more demanding users who require very detailed and specific information about a topic – and all types of use in between.

The products have been defined by method of delivery and **Table A** summarises the products by type of primary media and release date.

The tables within the products have been defined through consultation with users. The amount of detail in the tables reduces for smaller areas so as to meet certain confidentiality criteria (See **Appendix A**). **Table B** shows the relationship between products, Census tables, and area level. More information on Census Areas and how they have been defined are given in **Appendix B**.

2001 Population Report

This Parliamentary Report provides resident populations at Census Day (29 April 2001) by age and sex for each council area and mid-year (30 June) population estimates for 2001, which vary slightly to reflect the difference in reference dates.

Both sets of figures have been adjusted to compensate for undercoverage in the Census, in the light of the Census Coverage Survey.

Consistent information for health board areas was made available in November and is available by contacting GROS Customer Services.

Release date: 30 September 2002
Primary Media: Printed publication available from Customer Services priced £5.00. To download a free copy of the report, click [here](#).

Other information: The report and more detailed information about the results can be viewed by clicking [here](#).

Registrar General's 2001 Census Report to the Scottish Parliament

This Parliamentary Report was laid before the Scottish Parliament on 13 February 2003.

The report presents summary statistics from Scotland's 2001 Census covering the majority of Census questions and topics (including housing, health, education qualifications, transport, industry and occupation, religion, ethnic group, Gaelic). Where appropriate the Report provides comparisons with 1991 results with the key points drawn out in a commentary.

Release date: 13 February 2003
Primary Media: Printed publication available from Customer Services priced £6.00. To download a free copy of the report click [here](#).

Key Statistics for Council areas and Health Board areas Scotland

This report provides a complete picture of the 32 Councils and 15 Health Boards in Scotland as at Census day. It provides summary statistics for the majority of Census questions and topics for each Council and Health Board area in a format, which enables easy comparisons between areas.

The report consists of 24 tables providing distributions in the form of percentages with appropriate denominators.

Release date: 13 February 2003
Primary Media: Printed publication available from Customer Services priced £6.00. To download a free copy of the report click [here](#).

Key Statistics for Settlements and Localities Scotland

The Key Statistics report provides a summary picture of the 493 settlements and 587 localities in Scotland as at Census day. It consists of 24 tables providing results in the form of percentages, covering the majority of Census questions and topics, for each Settlement and Locality in a format, which enables easy comparisons between areas.

Release date: 25 March 2003
Primary Media: Printed publication available from Customer Services priced £15.00. To download a free copy of the report click [here](#).

Reference Volume Scotland

The Reference Volume provides all of the detailed statistical tables that are being produced, but at Scotland level only. It serves as an index to the detailed tables that will be available electronically for smaller geographies. Data for the topics travel and migration were not available at time of print and tables about these topics are presented with blank cells.

Release date: 25 March 2003
Primary Media: Printed publication available from Customer Services priced £6.00. To download a free copy of the report click [here](#).

Scottish Census Profiles

Profiles will enable the user to get a quick picture of the key features of an area compared against another area of choice. There are five profiles covering the topics: Population, Households, Health, Education, and Employment; for the following areas: Scotland, Council area, Health Board area, Scottish Parliamentary Constituency, Locality and Census Output area.

This may be very useful to the less frequent user of Census data who will want to obtain some basic information about a particular area of interest.

Profiles will primarily be available through SCROL, but will also be available on request from GROS Customer Services.

Release date: 25 March 2003
Primary Media: Internet via SCROL
Price: Free
Statistical Content: Table outlines are available from 'Scotland's Census 2001 - Reference Volume'.

Headcounts

Headcounts are the simplest statistics to be produced from the Census. They are also produced to the lowest level of geography – the postcode. Headcounts consist of: the number of people in an area; and the number of households in an area.

Release date: 25 March 2003
Primary Media: GROS Postcode to Output Area Index
Price: Free
Statistical Content: Counts of people and counts of households for postcodes.

Key Statistics - All Areas

Key Statistics provide a picture for any area of interest to the user. This dataset has been designed to enable easy comparison between areas across the full range of Census variables. It consists of a series of 24 tables providing distributions in the form of percentages with appropriate denominators.

The table content is the same as in the Key Statistics printed report for Council and Health Board Areas, and of Settlements and Localities, but is available for any of the Census Areas at Output Area level and above. More information on Census Areas and how they have been defined are given in **Appendix B**.

Release date:	from March 2003 onwards
Primary Media:	Internet via SCROL CD: CD 1, CD 2, CD 3, CD 6
Price:	Minimal; Charges will be made to recoup the cost of publication. Free on web.
Statistical Content:	Table outlines are available from 'Scotland's Census 2001 – Reference Volume'.

Standard Tables

Standard Tables provide the most statistically detailed tables of the Area Statistics. They have been designed to present a wide range of cross-tabulated Census results in terms of topics and geographical areas, for different areas across the whole country.

They consist of 116 tables in the form of simple cross-tabulations which are prefixed S; and, 17 theme tables, which are, prefixed T.

Certain cross-tabulations using 14 – category classification of ethnicity are produced for those wards or postcode sectors where there is sufficient ethnic diversity.

Theme tables have been designed to provide more detailed information about specific themes, which are likely to be of interest. Tabulations of Armed forces originally planned have been withdrawn because the occupation questions on the Census form do not identify Armed Forces personnel as such.

Standard Tables will not be produced for any area, which has fewer than 400 households or 1,000 residents.

Standard Tables are available for all Census Areas above either the ward level or postcode sector level. More

information on Census Areas and how they have been defined are given in **Appendix B**.

Release date:	from March 2003 onwards
Primary Media:	Internet via SCROL CD: CD 5 Print: Reference Volume
Price:	Minimal; Charges will be made to recoup the cost of publication. Free on web.
Statistical Content:	Table outlines are available from 'Scotland's Census 2001 – Reference Volume'.

Census Area Statistics (CAS)

CAS have been designed as reduced versions of the Standard Tables for use at a much lower level of geography. Like the Standard Tables they have been designed to present a range of cross-tabulated Census results.

They have been designed principally for use at the Output Area (OA) level, the lowest level of geography for which detailed results are presented, although for many purposes the OAs will be aggregated to form larger areas which are relevant to particular users.

In addition to the 82 CAS tables and 5 CAS Theme tables, the CAS dataset also includes a set of simple univariate tables or tables that only report on one variable, such as marital status. These univariate tables provide a more detailed classification of a variable than the cross-tabulations within CAS without risk of disclosure.

Census Area Statistics are also available for any of the Census Areas above Output Area level. More information on Census Areas and how they have been defined are given in **Appendix B**.

Release date:	March 2003
Primary Media:	Internet via SCROL CD: CD 3, CD 4, CD 6 Print: Reference Volume
Price:	Minimal; Charges will be made to recoup the cost of publications. Free on web.
Statistical Content:	Table outlines are available from 'Scotland's Census 2001 – Reference Volume'.

Origin-Destination Statistics

Origin-Destination (OD) is a term used to describe counts of people (or households) as a combination of two addresses: a home (usually resident) address and an address at work or study; or an address of former residence and address at Census. These tables let users analyse flows of people for Travel and Migration, respectively. For instance, a Special Travel table may show the number of people living in Fife who travel to Edinburgh for work each day. The detail for this flow could be expanded to include method of travel (car, train etc.), age patterns of the people involved, or NS-SeC (National Statistics-Socio-economic Classification).

Figures on people with travel destinations in an area and on out-migrants are included in the **Standard Tables and Census Area Statistics (CAS)**. But the flows of workers and migrants between pairs of areas are provided in additional types of Origin-Destination products **Special Travel Statistics** and **Special Migration Statistics**.

Special Travel Statistics (STS)

The Special Travel Statistics for Scotland will be based on destination of respondents' journey to place of work or study. STS can be used, where appropriate, with Special Workplace Statistics (SWS) to be produced for the rest of the UK (where the equivalent questions on the Census form was limited to travel to place of work). The most detailed set of tables (STS1) will provide the characteristics of those travelling to work or study between Council Areas. The less detailed STS2 will describe the flows between wards and between postcode sectors. STS3 will provide simply the mode of travel for flows between Output Areas.

Special Migration Statistics (SMS)

The Special Migration Statistics for Scotland will be part of a UK product based on respondents' address one year before the Census. The most detailed set of tables (SMS1) will provide the characteristics of migrants between local authorities. The less detailed SMS2 will describe the flows between wards and between postcode sectors. The Census Offices will also be producing SMS3, which gives very simple characteristics of migrants moving between Output Areas.

Release date:	May to Dec 2004
Primary Media:	CD-Rom
Price:	Free.
Statistical Content:	Draft content is available from GROS Customer Services.

Other Products

In addition to the products and datasets, which focus on the statistical results of the Census, there are other products (Geography products, Census Evaluation and Meta-data) which can be used as stand alone products or which can be used to support and enhance the statistical products described in this Guide.

Geography products

One of the key reporting elements of the products and datasets is the geography or area that a table reports on, such as council area. To support and enhance the use and understanding of the Census results, three geography products will be made available.

1. Digital boundaries for Output Areas (OA)

Digitised boundaries may be loaded into a user's own Geographic Information System (GIS) and combined with Census datasets to produce visual analyses of the results. It will also enable early selection and grouping of areas for analysis or enable other data to be linked to these boundaries.

2. Postcode to Output Area index

This index, or look-up table, simply indicates to which Output Area a Postcode belongs. It can be particularly helpful to users who may wish to compare other postcode-based data with Census results. (Contact **GROS Customer Services** to obtain a copy of the index.)

3. Output Area to higher area index

This index, or look-up table, provides a link between the Output Area and the "higher" area that the Output Area belongs to. This enables users to aggregate some output on an Output Area base to a "higher" area, such as Council Area or Parliamentary Constituency. (Contact **GROS Customer Services** to obtain a copy of the index.)

Census Evaluation

'Taking Scotland's 2001 Census – A Review' is the Registrar General's assessment of how the Census in Scotland measured up against its strategic aims:

- To ensure that the question content is appropriate to meet the demonstrated requirements of users;
- To deliver products and services to meet legal obligations and users' needs within stated quality standards and to a pre-defined timetable;

- To ensure that all aspects of the census data collection operation and the dissemination of results are acceptable to the public and comply with Data Protection law;
- To demonstrate that the Census represents value for money.

The first part of the review of Census User Needs and Legislation was released in March 2002. The review of Census Operations was released in June 2002. The two remaining parts of the report on Data Quality of Census Results and Value for Money will be released as soon as they are available. Each part of the review is written in isolation from the remaining parts, and the lessons learned may be reviewed in light of future parts of the review. A final published version is scheduled to be released in April 2005.

Supporting Information

Supporting Information to help users understand and make effective use of Census Results will be an integral part of each of the products. It contains Census classifications and definitions for each variable and derived variable, and information on the One Number Census, Edit and Imputation, Geography and Disclosure Control.

Version 1 of the Supporting Information is available for downloading on the Census pages of the GROS website or from Customer Services. The information will be updated to take account of additional information, as it becomes available, such as levels of edit and imputation, or to take account of changes to the outputs, such as footnotes in the tables.

Census Classifications

Census classifications are used to summarise the diverse range of responses to questions in the Census, facilitating meaningful statistical analysis, and understanding. The classifications, included in the Supporting Information, describe the classifications for questions in the 2001 Census, listing all possible categories within each classification. Derived variables, i.e. variables which were not asked in the Census but have been constructed from specific combinations of other variables (classifications), are also described.

As far as possible, aggregated classifications and standard derived variables have been used that have been commissioned with those used for other Government statistics, although other requirements, such as 1991

Census comparability, have also been considered when designing the content of the pre-defined tables.

SCROL website (Scotland's Census Results OnLine)

This initiative has been launched to develop the potential for electronically disseminating the results of the 2001 Census in Scotland with the aim of improving the use of, and access to, the Census.

This aim will be achieved through a highly innovative website and series of CDs which will deliver the results of the Census in an integrated way with geography, associated metadata and analysis tools which aid the user in analysing and interpreting results from the 2001 Census in Scotland.

The website will be aimed at a very wide range of potential users, such as those working in the public sector, elected representatives, researchers and academics, business users, community workers and school students. It will offer a wide variety of facilities to enable users to use, explore, and understand the full potential of Census output within the constraints needed to avoid disclosure of information because of confidentiality.

Through the website the user will be able to:

- Identify and retrieve any of the pre-defined tables from the Area Statistics through either a search or list facility;
- Use an interactive map and gazetteers to define areas of interest, refine selections for specific geographies, group specific geographical units, or simply roam using standard pan and zoom functions;
- View thematic maps for pre-defined topics;
- View commentary and text which helps the user understand the tables and geography; and
- Download the tables for use locally.

SCROL CD-ROMs

A series of CDs have been developed to provide users with desktop access to the different statistical products at key area levels. In addition to the results, the CDs also contain supporting information to aide the user's understanding of the data, and tabulation software (SuperTABLE) that enables the user to undertake more detailed analysis of the data. The software enables users to:

- Rearrange the tables using simple "drag and drop" methods;
- Easily construct calculations and derivations;
- Present the results as charts; and,
- "Export" the tables for use in other software.

There are currently seven CD ROM products available, providing access to the statistical outputs at different Census areas. The full set of CDs costs £30.00 plus VAT. CD 1 is free. CDs 2 to 7 are £5.00 plus VAT each.

CDs 1 to 6 were released between March and August 2003. CD 7 was released in April 2004. To obtain more information on the CDs contact GROS Customer Services.

Errors were found on the 1st issue of the SCROL CDs. These errors have been corrected as part of the resupply. If you have already purchased any of the CDs you will receive the corrected version free of charge.

Further products planned include a re-release of CD 7 with corrected tables and DVD containing all information from the CDs will be available at a later date. The DVD will have the data in both .csv and SuperTABLE formats and will cost £30.00 plus VAT.

SCROL CD1 Key Statistics and Univariate Statistics for Administrative and Electoral Areas

All 24 Key Statistics tables and 56 Univariate statistic tables are provided for the following geographies:

- Scotland,
- Council areas
- Health board areas
- Scottish Parliamentary Regions and Scottish Parliamentary Constituencies
- CAS Wards

Tables are provided in CSV and SuperTABLE formats and the CD is accessible via all operating platforms.

SCROL CD2 Key Statistics and Univariate Statistics for Output Areas, Wards and Sectors

All 24 Key Statistics tables and 56 Univariate statistic tables are provided on two CDs for the following geographies:

Volume 1

- Output Areas

Volume 2

- Scotland
- Standard and CAS Wards
- Standard and CAS Postcode Sectors

Tables are provided in CSV and SuperTABLE formats and the tables are only accessible via Windows platforms though the CD is accessible via all operating platforms.

SCROL CD3 Key Statistics, Univariate Statistics and CAS for Settlements and Localities

All 24 Key Statistics tables, 56 Univariate statistic tables and 87 Census Area Statistics (CAS) and CAS Theme tables are provided for the following geographies:

- Scotland,
- Settlements and Localities

Tables are provided in CSV and SuperTABLE formats and the tables are only accessible via Windows platforms though the CD is accessible via all operating platforms.

SCROL CD4 CAS for Output Areas and Selected Higher Areas

All 82 Census Area Statistics (CAS) tables and 5 CAS Theme tables are provided for the following geographies:

- Scotland,
- Council areas
- CAS Wards
- CAS Sectors
- Standard Table Wards
- Standard Table Sectors
- Health Board areas
- Scottish Parliamentary Regions and Constituencies
- Output Areas

Tables are provided in SuperTABLE format and the tables are only accessible via Windows platforms though the CD is accessible via all operating platforms.

SCROL CD5 Standard Tables for Wards, Postcode Sectors and Selected Higher Areas

All 116 Standard tables and 17 Standard Theme tables are provided on two CDs for the following geographies:

Volume 1

- Scotland
- Wards
- Scottish Parliamentary Regions and Constituencies

Volume 2

- Scotland
- Postcode Sectors
- Council areas
- Health Board areas

Tables are provided in SuperTABLE format and the tables are only accessible via Windows platforms though the CD is accessible via all operating platforms.

SCROL CD6 Key Statistics, Univariate Statistics and CAS for Civil Parishes and Inhabited Islands

All 24 Key Statistics tables, 56 Univariate Statistics tables and 87 CAS and CAS Theme tables for the following geographies:

- Scotland,
- Civil Parishes
- Inhabited Islands

Tables are provided in SuperTABLE format and the tables are only accessible via Windows platforms though the CD is accessible via all operating platforms.

SCROL CD7 Area Statistics (tables on migration, travel, and households living rent free)

All 8 Standard tables, 11 Univariate tables, 8 CAS tables, 6 Theme tables and 3 Key Statistics tables on the above topics are provided for the following geographies:

- Scotland,
- Council areas
- Health Board areas
- Scottish Parliamentary Regions and Constituencies
- Westminster Parliamentary Constituencies
- Inhabited Islands
- Civil Parishes
- Localities
- Settlements
- Census Standard Wards
- Census Standard Sectors
- Census Area Statistics Sectors
- Census Area Statistics Wards
- Census Output areas

Tables are provided in SuperTABLE format and the CD is only accessible via Windows platforms.

ADDITIONAL SERVICES

In addition to the products outlined elsewhere, there will also be a series of additional services supplied by GROS Customer Services. These services will ensure that users can seek guidance on the use of the products that are available, seek assistance in finding the data they require, or request additional data not part of the pre-defined statistics included in the range of products.

Bulk Delivery

Although the results are available in a number of different formats, GROS recognises that some users will want all of the tables either for particular areas or for all areas in a non-proprietary format. This will enable users to load the data into local software for analysis (e.g. within GIS systems) or for analysis with other data.

This will be delivered via two channels:

1. SCROL has a data warehouse facility, which enables users to easily download all of the tables for a particular area level. Files are compressed to reduce the download time and it is estimated that the biggest file (314 tables for Scotland or about 220KB) would download in approximately 70 seconds. (Assumes a 56k modem used with download rate of about 3KB per second).

The data file is in CSV format and is accompanied by an index file containing the contents of the downloaded file.

2. GROS Customer Services – for users who wish to receive all of the data for all of the lowest level geography for which a data set is available, GROS customer services provides a bulk delivery service. Files will be generated in CSV format for each of the statistical outputs/datasets for the lowest level for which that data is available (e.g. Key Statistics at Output Area or Standard Tables for ST Wards etc).

The supply of tables has been segmented into council areas. The cost for each council area requested is £100+VAT. This fee includes all of the tables from the Key Statistics, Univariate, CAS, and Standard Table datasets. Any requirements for subsets/extensions of the information available will be considered as commissioned output and users will be charged for the cost of compiling the information.

A guide is available providing information on the scope, planned release, timetable, media format, file size, file description, cost, and ongoing arrangements for the bulk

delivery service. The guide is accompanied by a CD containing sample output for the majority of tables.

To obtain a copy of the guide and sample CD, contact GROS Customer Services.

Commissioned tables

Users will be able to request from GROS Customer Services additional tables to meet any needs not met by the material in the Census products. For instance, users may require detailed categories of occupation and industry cross-tabulated at Scotland level only which are not part of the pre-defined material available within the products specified in this Guide.

Each request will be checked to ensure that the information provided does not breach confidentiality conditions. If the request does not pass the confidentiality conditions then users will be asked to modify their request (without charge).

Commissioned output will be subject to a charge. The charge will be based upon the amount of time required to fulfil the enquiry. **The charge will be £20 plus vat per completed hour** and Customer Services will inform the customer of the charge before work begins. It is expected that the majority of customer requests will take less than one hour to complete and will therefore not incur a charge.

Some more complex tables that would incur a charge may be wanted by a wide group of customers. The kind of tables included in the 1991 Census Topic Reports may fall into this category. Users have been asked to commission tables in advance and if they do so it may still be possible to make these available free of charge. Very few requests for tables on the lines of 1991 Census Topic reports have been made to date.

Print on request

All of the pre-defined statistical tables will be made available electronically and a good proportion delivered in paper publications. GROS recognises that not all users will have easy access to the internet or a computer and will therefore offer a print on request service for products made available electronically.

This service will provide the customer with paper copies of the tables that they require. Like commissioned tables, users will be charged by the length of time that it takes customer services to respond to the query. **The charge will be £20 plus vat per completed hour** and Customer Services will inform the customer of the

charge before work begins. However, it is expected that the charges for the service will be minimal, as the vast majority of users will not require large amounts of printed tables.

Copyright and licensing

All Census products are Crown copyright. The use of material from any of the products in this guide is subject to the acknowledgement of copyright and source, and licences may be required.

End user licences

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

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

Re-use and publication

Any re-use and publication of any of the statistics in the Census products 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

Organisations may use the 2001 Census output to create value added products and supply these to third parties under either a click-use licence or a distribution licence which additionally allows sub-licensing of re-use and publication, both for non-commercial and commercial purposes.

There are also a number of organisations, which currently supply value added products based on the 1991 Census, particularly for applications in marketing and other commercial activity. For more information about the current Census value added re-sellers – known as 'Census Agencies' – or about the arrangements for 2001 contact Customer services (See **Contacts**).

CONTACTS

For further information about any of the material in this guide or to request any data from the 1991 or earlier Censuses, please contact:

Customer Services
Dissemination and Census Analysis Branch
General Register Office for Scotland
Ladywell House
Ladywell Road
Edinburgh, EH12 7TF
Tel: 0131 314 4254
Fax: 0131 314 4696
International: Tel: +44 131 314 4254
Fax: +44 131 314 4696
E-mail: customer@gro-scotland.gsi.gov.uk
Website: www.gro-scotland.gov.uk

Separate Censuses were carried out, on the same day and using similar methodologies, in England and Wales, and Northern Ireland. Information on these Censuses is available from:

England and Wales

Census Customer Services
Office for National Statistics
Segensworth Road
Titchfield
Fareham
Hants
PO15 5RR
Tel: 01329 813800
Fax: 01329 813587
International: Tel: +44 1329 813800
Fax: +44 1329 813587
E-mail: census.customerservices@ons.gov.uk
Website: www.statistics.gov.uk

Northern Ireland

Census Customer Services
Northern Ireland Statistics and
Research Agency
McAuley House
2-14 Castle Street
Belfast
BT1 1SA
Tel: (028) 9034 8160
Fax: (028) 9034 8161
International: Tel: +44 28 9034 8160
Fax: +44 28 9034 8161
E-mail: census.nisra@dfpni.gov.uk
Website: www.nisra.gov.uk

CONFIDENTIALITY

Disclosure Control

There is a legal obligation not to reveal information collected in confidence in the Census about individual people and households. In presenting very detailed results from the Census, protecting this data is of key importance. Disclosure of information in Census output is prevented by a combination of methods.

- A. Setting a target or average size for output areas (50 households)
- B. Setting a minimum size of areas for key output (e.g. 20 households and 50 residents for Census Area Statistics)
- C. Creating only one set of output areas (two sets of overlapping output areas could be 'differenced' to create unintended below - threshold areas)
- D. Limiting the detail in classifications used in tables
- E. Record swapping before tabulation
- F. Small Cell Adjustment (workplace tables)

Methods A to D are aimed at ensuring that there is only a limited number of cases in which all the households or persons in one of the categories of a variable in a table belong to a single category in another variable. When this happens, information can be disclosed from the table about those households or persons. For example, if there were only one Chinese person in an output area, a table for that output area tabulating ethnicity (with 'Chinese' as a category) by employment status would reveal that person's employment status. Therefore, a further measure is needed so that no one can be certain that any such instance relates to actual individuals or households. That measure is Method E which completes the disclosure control package by swapping a small proportion of Census records. A swapped record is then tabulated in a different output area from where the data was collected but the aggregated statistics are not materially affected. This approach has been independently reviewed and endorsed by Dick Carter of Statistics Canada.

A small number of tables have been subject to Method F whereby cells containing small numbers were adjusted randomly. These tables are those on OA's as place of workplace rather than place of residence. Methods B & E are effective for data on Workplace.

Users should also note that there is some degree of error in Census information as there would be in any large scale data collection exercise. This applies particularly to counts of people travelling to place of work or study by area of destination or counts of migrants by area of previous address. The accuracy of such counts cannot be controlled in the same way as counts by area of residence (at the time of Census). General information about data quality may be found at Census Update no. 19

In addition to the above, one of the conditions of using Census data is that users will undertake not to attempt to obtain or derive information about specific individual or household, not to claim to have obtained or derived such information.

All three UK Census offices use all methods A to F but not always in the same way or to the same extent.

APPENDIX B

GEOGRAPHY CLASSIFICATIONS

Results from the 2001 Census are available for a wide range of Census areas, from the smallest area, Output Area, to the largest area, Scotland. The main Census Areas for which results will be made available have been decided in consultation with users.

The main building bricks for Census areas are output areas and all higher geographies are built from output areas. **Figure B.1** depicts how the different areas nest into higher areas, all derived from output areas. Any area for which Census output is produced is the aggregation of Output Areas that approximate best to the area. OAs will aggregate exactly to a council area but not necessarily to any other type of area.

CENSUS AREAS

Postcode

All Census geography is based on the set of postcodes and their boundaries, which were frozen in January 2001. Any postcode collected in enumeration that does not belong to this set was replaced during processing by the most appropriate frozen postcode.

Counts of the number of households with residents and the number of residents in each postcode are generated during processing. These headcounts are used to create Output Areas and are also published in their own right as a Census product on the postcode index.

The Postcode to Output Area Index is a look-up table that indicates to which Output Area a Postcode belongs. Contact GROS Customer Services to obtain a copy of the Index.

Ad hoc areas

These will be aggregated from the optimal set of the area types formed in most cases from Output Areas so CAS level information will be available.

Output Area

Output Areas (OAs) for 2001 are created as groups of postcodes nesting as well as possible into the following areas: Council Area, 2001 locality, 1991 OA, postcode sector and 2001 electoral ward in descending order of preference (when not all postcodes in the OA belong to a single combination of these area types). The main aim governing this order of areas is to give continuity with the 1991 OA while ensuring, as far as possible, that 2001 OAs fit into the locality or urban area which is seen as an increasingly important area type.

The Output Areas cover a sufficiently small area that user defined, or ad-hoc, areas can be created while maintaining a sufficient level of quality for user defined areas.

GROS creates only one set of OAs and allocates all other output geographies using the OA as the building brick. Each OA will be assigned to an area in a 'higher' geography by first selecting one of the postcodes in the OA as a 'master' postcode. The OA inherits all of the characteristics of the master postcode including its assignments to higher areas and its centroid grid reference.

The OA is the building brick for geographies based on either of the two 'remote' postcodes collected on the Census form: address one year ago and destination of travel to work or study.

An index or a look-up table is available which provides a link between the OA and the "higher" areas that the OA belongs to, enabling users to aggregate OA level Census results to "higher" areas, such as Council areas or user defined areas. Contact GROS Customer Services to obtain a copy of the OA Index.

Council Areas

The Council Area is the main area for 2001 output. Council Areas were created on 1 April 1996 following a review of the local government structure in Scotland and the Council Areas provide a single tier of local government covering the whole of Scotland. There are 32 Council Areas in Scotland. They are groupings of contiguous electoral wards that are contained within a boundary defined by statute and Council. Each is divided into contiguous electoral wards. Each ward is contained within a boundary defined by statute.

Parliamentary Constituencies

Parliamentary Constituencies are defined in terms of wards existing at the time of their definition, 2001 wards do not nest exactly into any of the current parliamentary areas: Scottish Parliamentary Regions, Scottish Parliamentary Constituencies, or Westminster Parliamentary Constituencies (1996 and 2005).

Health Board Areas

In 1974, 15 Health boards were set up to administer the Scottish Health Service. Health Board areas have remained unchanged since their inception.

Postcode sector

A postcode sector is the set of unit postcodes that are the same apart from the last two characters and has been used in Census output since 1981. Special postcode sectors are created for Census output to ensure that sectors conform to a minimum threshold and do not cross Council Area boundaries. Because the confidentiality thresholds (method B disclosure control differ for Census Area Statistics (CAS) and Standard tables (ST), there are two types of postcode sectors in Census output: Standard Table (ST) and Census Area Statistic (CAS).

- Census Area Statistics (CAS) - First postcode sectors that cross council areas are split and each treated as a postcode sector in its own right. Then as described above (using master postcodes) OAs are assigned to postcode sectors. The resulting 1,010 aggregations we denoted CAS sectors will meet the minimum threshold for CAS (20 households and 50 persons). CAS sector names that include '(part)' indicate that the original sector had to be split.
- Standard Table (ST) - ST Sectors that are mergers of CAS sectors are labelled 'DD1 1; DD1 3' with a semi-colon to indicate the merger. Where a CAS sector fails to meet the minimum threshold for Standard tables (400 households and 1,000 persons) it is merged with one or more neighbouring CAS sectors within the same council area so that these thresholds are met.

Census data is not available for true postcode sectors because they cross council area boundaries.

The method for creating CAS and ST sectors can lead to cases of multi-extent sectors or instances where a sector is not wholly contained within one boundary and may consist of a number, usually two, of non-contiguous boundaries for the same sector.

2001 wards

There are two types of Census wards, CAS and Standard Table (ST). These are both created by aggregating output areas and are only best fit for electoral wards. No census information is available for true electoral wards.

- Census Area Statistics (CAS) - As described above (using master postcodes) OAs are assigned to electoral wards. The resulting 1,222 aggregations are denoted CAS wards and will fall within a council area boundary and meet a threshold of 20 households and 50 persons.
- Standard Table (ST) - Where CAS wards fall below the ST thresholds (400 households and 1,000 persons) they are merged with neighbouring CAS wards to exceed the threshold. It is also necessary to make a few adjustments to ST wards so as to remove any 'slivers' below ST threshold created by differencing ST wards and ST sectors. The processes result in 1,176 ST wards

ST Wards that are mergers of CAS wards are labelled 'South Ronaldsay; Holm and Burray' with a semi-colon to indicate the merger. For slivers, ST wards containing part, or sliver, of a CAS ward are labelled ending in pare 'Innerleithen and Walkerburn; Peebles and District South (part)'. The method for creating CAS and ST wards can lead to cases of multi-extent wards or instances where a ward is not wholly contained within one boundary and may consist of a number, usually two, of non-contiguous boundaries for the same ward. More information explaining how this happens and the extent of the occurrence is given in the section on multi-extent wards and sectors.

Settlement and locality

2001 Settlements, of which there are 493, have been created from groups of neighbouring urban postcodes grouped so that each group of postcode unit contains at least a given number of addresses per hectare and the group contains at least 500 residents.

Localities are sub-divisions of 2001 Settlements that are based on 1991 Locality boundaries.

Civil Parish

Although Civil Parishes lost their former administrative function in 1929, they have changed very little since the 20th Century and Census data has been produced for these areas for all Censuses from 1891. There are 871 Civil Parishes. For the 2001 Census, Civil Parishes are a best-fit aggregation of 2001 output areas.

Inhabited Islands

At the time of the Census, there were 117 islands known to receive mail of which 95 were recorded as having at least one resident during enumeration. The process of creating Output Areas resulted in the smaller islands (in terms of population) becoming merged with neighbouring islands. Census output is to be produced for 53 islands or groups of islands that meet the confidentiality thresholds for Census Area Statistics.

Hectarage

The area of each Output Area (OA) in hectares forms part of the OA to higher areas index information and are derived from the OA digital boundaries. The hectarage of higher areas is aggregated from OAs, except for Scotland, the council areas and the health boards. Ordnance Survey supplied the hectarage of Scotland, the council areas and the health boards.

Multi-extent wards and sectors *(Figures B.2 and B.3)*

GROS create all census output geographies using the Output Area (OA) as the building brick. During processing, some non-contiguous census output geographies have been created for census wards and sectors i.e. they are split by another area of the same type.

Details of the areas affected are:-

- CAS Wards: 172 of 1,222 areas have two (or more) extents.
- CAS Sectors: 59 of 1,010 areas have two (or more) extents.
- ST Wards: 158 of 1,176 areas have two (or more) extents.
- ST Sectors: 51 of 859 areas have two (or more) extents.

How does this happen?

For example, there are 158 non-contiguous Standard (ST) wards out of a total of 1,176 i.e. these CAS Wards have more than one extent.

- Each postcode has a National Grid Reference assigned by inspection to the building nearest the centre of the populated part of the postcode. OAs are groups of adjoining postcodes and are the lowest geographic level used in the presentation of Census results. A Master Postcode is selected for each OA and its Grid Reference becomes the OA Grid Reference in order to index the complete OA to higher census geographic areas.
- Postcode boundaries - and hence Output Area boundaries - do not match Electoral Ward boundaries exactly, other than by coincidence. Each OA whose Grid Reference is inside the same Electoral Ward boundary is used to aggregate to a CAS Ward. Non-contiguity occurs when the shape of the constituent OAs of one CAS Ward splits another CAS Ward.

Figure B.1

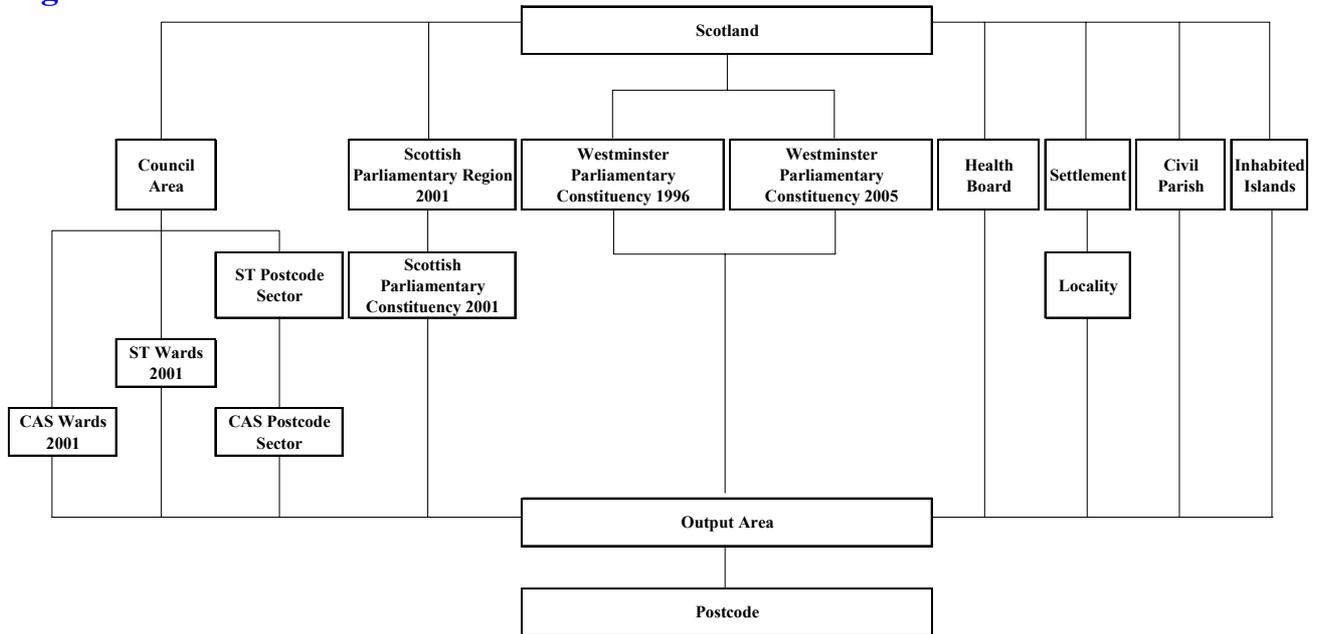


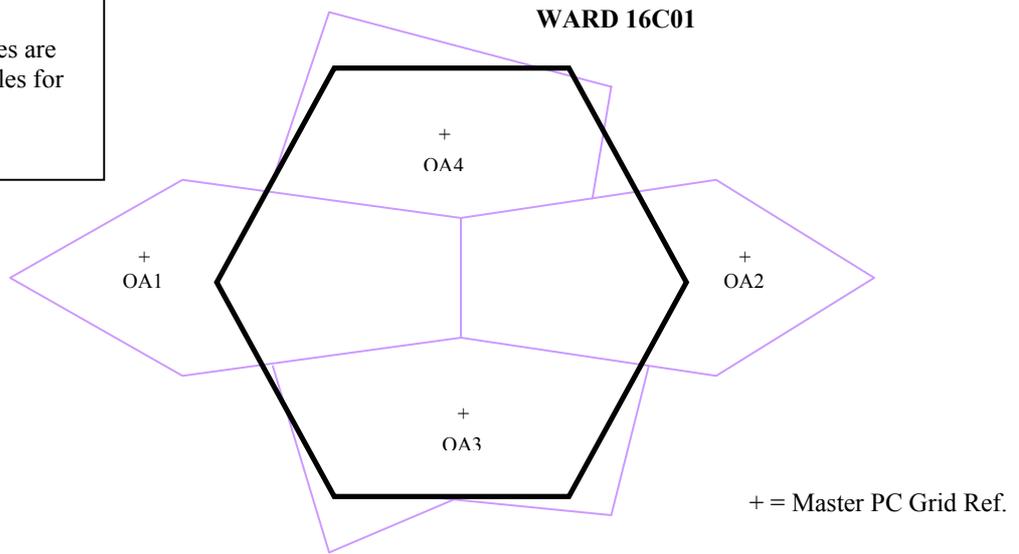
Figure B.2

Council Area	Number of multi-extent areas			
	CAS ward	CAS sector	ST ward	ST sector
Scotland	172	59	158	51
Aberdeen City	5	4	5	4
Aberdeenshire	8	5	8	5
Angus	4	1	4	1
Argyll and Bute	9	2	9	1
Clackmannanshire	1	0	1	0
Dumfries and Galloway	3	0	2	0
Dundee City	4	1	4	0
East Ayrshire	4	2	5	2
East Dunbartonshire	5	0	5	0
East Lothian	1	0	1	0
East Renfrewshire	1	0	0	0
Edinburgh, City of	8	2	8	2
Eilean Siar	6	3	3	3
Falkirk	3	1	3	0
Fife	12	4	12	3
Glasgow City	5	7	5	5
Highland	14	5	12	5
Inverclyde	3	1	3	1
Midlothian	2	0	2	0
Moray	1	4	1	4
North Ayrshire	4	2	4	2
North Lanarkshire	12	1	10	1
Orkney Islands	1	1	0	1
Perth and Kinross	6	1	5	0
Renfrewshire	5	1	4	1
Scottish Borders	5	0	6	0
Shetland Islands	7	2	3	2
South Ayrshire	4	2	4	2
South Lanarkshire	10	3	10	2
Stirling	4	0	4	0
West Dunbartonshire	4	0	4	0
West Lothian	11	4	11	4

Figure B.3

Example of Multi-extent ward

Output Area boundaries are drawn based on the rules for drawing Output Areas



The CAS ward is then drawn based on the Output Areas whose master postcode lies within the original electoral ward boundary – creating a multi-extent ward.

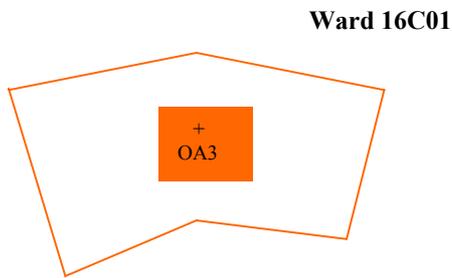
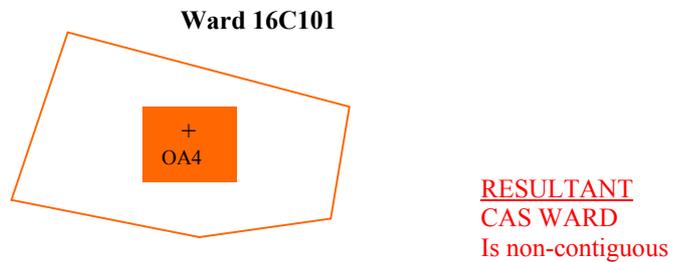


Table A - 2001 Scottish Census Products by type of media and date of release

Planned Release	Product/Dataset	Primary Media		
		Printed Publication ¹	SCROL Website	CD
Reports				
30 September 2002	2001 Population Report	✓	✗	✗
13 February 2003	The Registrar General's 2001 Census Report to the Scottish Parliament	✓	✗	✗
25 March 2003	Reference Volume - Scotland	✓	✗	✗
13 February 2003	Key Statistics for Council areas and Health Board areas Scotland	✓	✗	✗
25 March 2003	Key Statistics for Settlements and Localities Scotland	✓	✗	✗
Area Statistics				
March 2003 onwards	Profiles	✗	✓	✗
	Headcounts	✗	✓	✓
	Key Statistics – All areas	✗	✓	✓
	Standard Tables	✗	✓	✓
	Census Area Statistics	✗	✓	✓
Origin-Destination Statistics				
May to December 2004	Special Travel Statistics	✗	✗	✓
	Special Migration Statistics	✗	✗	✓
Geography Products				
March 2003	OA Boundary file	✗	✗	✓
	Index files	✗	✗	✓

¹ Note that printed publications will also be available through the GROS Website.

Table B – 2001 Scottish Census Products by Area Level and Dataset

Area	2001 Population Report	The Registrar General's 2001 Census Report to the Scottish Parliament	Key Statistics (KS)	Univariate Statistics (UV)	Census Area Statistics (CAS)	Standard Tables (ST)	Census Profiles
Scotland	B 1	B 2	B 3, B 4 CD 1, CD 2, CD 3, CD 6, CD 7 SCROL	B 5 CD 1, CD 2, CD 3, CD 6, CD 7 SCROL	B 5 CD 3, CD 4, CD 6, CD 7 SCROL	B 5 CD 5, CD 7 SCROL	B 5 SCROL
Council Area	B 1	B 2	B 3 CD 1, CD 2, CD 7 SCROL	CD 1, CD 2, CD 7 SCROL	CD 4, CD 7 SCROL	CD 5, CD 7 SCROL	SCROL
Scottish Parliamentary Region 2001			CD 1, CD 7 SCROL	CD 1, CD 7 SCROL	CD 4, CD 7 SCROL	CD 5, CD 7 SCROL	SCROL
Westminster Parliamentary Constituency 1996			UK 1 CD 7 SCROL	UK 1 CD 7 SCROL	UK 1 CD 7 SCROL	CD 7 SCROL	
Westminster Parliamentary Constituency 2005			GROS website				
Scottish Parliamentary Constituency 2001		B 2	CD 1, CD 7 SCROL	CD 1, CD 7 SCROL	CD 4, CD 7 SCROL	CD 5, CD 7 SCROL	SCROL
Health Board			B 3 CD 1, CD 7 SCROL	CD 1, CD 7 SCROL	CD 4, CD 7 SCROL	CD 5, CD 7 SCROL	SCROL
ST Postcode Sector ¹			CD 2, CD 7 SCROL	CD 2, CD 7 SCROL	CD 4, CD 7 SCROL	CD 5, CD 7 SCROL	
ST Ward 2001 ²			CD 2, CD 7 SCROL	CD 2, CD 7 SCROL	CD 4, CD 7 SCROL	CD 5, CD 7 SCROL	
CAS Postcode Sector ³			CD 2, CD 7 SCROL	CD 2, CD 7 SCROL	CD 4, CD 7 SCROL	N/A	
CAS Ward 2001 ⁴			CD1, CD 2 CD 7 SCROL	CD1, CD 2, CD 7 SCROL	CD 4, CD 7 SCROL	N/A	
Settlement			B 4 CD 3, CD 7 SCROL	CD 3, CD 7 SCROL	CD 3, CD 7 SCROL	N/A	
Locality			B 4 CD 3, CD 7 SCROL	CD 3, CD 7 SCROL	CD 3, CD 7 SCROL	N/A	SCROL
Civil Parish			CD 6, CD 7 SCROL	CD 6, CD 7 SCROL	CD 6, CD 7 SCROL	N/A	
Inhabited Islands			CD 6, CD 7 SCROL	CD 6, CD 7 SCROL	CD 6, CD 7 SCROL	N/A	
Output Area			CD 2, CD 7 SCROL	CD 2, CD 7 SCROL	CD 4, CD 7 SCROL	N/A	SCROL

1 ST Postcode Sector is the CAS Postcode Sector (see 3) merged where necessary so as to satisfy the confidentiality thresholds for Standard Tables.

2 ST Ward 2001 is the CAS Ward 2001 (see 4) merged where necessary so as to satisfy the confidentiality thresholds for Standard Tables and also adjusted where e.g. a ST Ward is contained within a ST postcode sector and the remainder of the sector is below the confidentiality thresholds for Standard Tables.

3 CAS Postcode Sector is the collection of Output Areas assigned to a postcode sector.

4 CAS Ward 2001 is the collection of Output Areas assigned to an electoral ward at the Census.

Scotland's Census 2001 Reports

B 1	2001 Population Report
B 2	The Registrar General's 2001 Census Report to the Scottish Parliament
B 3	Key Statistics for Council areas and Health Board areas Scotland
B 4	Key Statistics for Settlements and Localities Scotland
B 5	Scotland's Census 2001 - Reference Volume Scotland
UK 1	UK Parliamentary Constituency Report (Published by ONS). Released 25 September 2003

Scotland's Census 2001 CD-ROMs

CD 1	Key Statistics and Univariate Statistics for Administrative and Electoral Areas
CD 2	Key Statistics and Univariate Statistics for Output Areas, Wards and Sectors
CD 3	Key Statistics, Univariate Statistics and CAS for Settlements and Localities
CD 4	CAS for Output Areas and Selected Higher Areas
CD 5	Standard Tables for Sectors, Wards and Selected Higher Areas
CD 6	Key Statistics, Univariate Statistics and CAS for Civil Parishes and Inhabited Islands
CD 7	Area Statistics (tables on migration, travel and households living rent free)

Scotland's Census Results OnLine (SCROL) Website