# Federal Electoral Districts (2003 Representation Order) Cartographic Boundary File <br> (geography products: spatial information products, 2001 Census), Reference guide 

2001 Census

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# Federal Electoral Districts <br> (2003 Representation Order) Cartographic Boundary File (geography products: spatial information products, 2001 Census), Reference guide 

## 2001 Census

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[^0] statistical information could not be produced without their continued cooperation and goodwill.

## What's new?

1. The Federal Electoral Districts (2003 Representation Order) Cartographic Boundary File was created by the roll-up of 2001 Census blocks. The federal electoral district limits (2003 Representative Order) do not always respect block boundaries.
2. The hydrography was generalized by removing small lakes from the file to reduce noise. Large rivers emptying into the oceans were closed off, and then the interior hydrography (double line river and lake polygons) was extracted to create the supplementary hydrography.
3. Increased hydrographic detail from the National Atlas and the National Topographic Data Base is used as reference to support the boundaries. These digital topographic data are provided by Geomatics Canada, Natural Resources Canada.
4. All the spatial information is now based on the North American Datum of 1983 (NAD83).

Note 1: The Federal Electoral Districts (2003 Representation Order) Cartographic Boundary File for Canada contains the boundaries of all 308 federal electoral districts based on the 2001 Census geographic infrastructure except where the blocks needed to be split ( See appendix C). Because of this parts of this file will not match the 2001 geography. A federal electoral district (FED) is an area represented by a member of the House of Commons.

Note 2: Cartographic Boundary Files are available for the following standard levels of geography ${ }^{1}$ :

- provinces and territories ( Catalogue number 92F0160XCE)
- federal electoral districts (using 1996 Representation Order) (92F0163XCE)
- federal electoral districts (using 2003 Representation Order) (92F0194GIE)
- census divisions (92F0161XCE)
- economic regions (92F0161XCE)
- census consolidated subdivisions (92F0167XCE)
- census subdivisions (92F0162XCE)
- census metropolitan areas / census agglomerations (92F0166XCE)
- census tracts (92F0168XCE)
- urban areas (92F0164XCE)
- designated places (92F0165XCE)
- dissemination areas (new for 2001) (92F0169XCE)

[^1]The user guide for the Cartographic Boundary Files, 2001 Census, Second edition catalogue Number 92F0171GIE can be accessed trough the following link:
\|Geodepot|Geographie_2001_Geography\Geographic_Ref_Products-
Produits_de_réf_géographique\Documentation\Reference_Guides_de_référence\92F0171GIE
CBF.pdf

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## 1. About this guide

This Reference Guide is intended for users of the Federal Electoral Districts (2003 Representation Order) Cartographic Boundary File.

The Overview section provides information related to the product, including a description of the product.

The next section focuses on the Federal Electoral Districts (2003 Representation Order) Cartographic Boundary File, with three sub-sections: Content, Data quality, and Technical specifications. The content and technical specifications of the product are described in the following terms: number of geographic units, number of polygons, format of the geographic codes, and record layout. Also, a description of method of derivation or data quality considerations specific to the file is included.

The data quality statement provides information to evaluate the suitability of the data for a particular use. Technical specifications include system requirements, installation guidelines, record layout and file sizes (in bytes). In this section, the choice of lower and upper case letters for file names and record layout description may not correspond to the actual combination of upper and lower case in the product. The file sizes may differ slightly from what is indicated in the relevant table.

The glossary provides geographic terms and concepts in summary form only. More details can be found in the 2001 Census Dictionary (Catalogue No. 92-378-XIE).

This Reference Guide does not provide details on specific software packages available to use with the Federal Electoral Districts (2003 Representation Order) Cartographic Boundary File. Users are advised to contact the appropriate software vendor for information. Please contact your nearest Regional Reference Centre for information.

This Reference Guide is based on the best information available at the time of its release. It in no way constitutes a warranty of the data in the event that users may observe characteristics that deviate from those stated in this document. All efforts have been made to ensure that the verification of this product has been thoroughly done, however, there is no guarantee that the data are $100 \%$ accurate.

## 2. Overview

## The Federal Electoral Districts (2003 Representative Order) Cartographic Boundary File

The Federal Electoral Districts (2003 Representative Order) Cartographic Boundary File is a product containing the boundaries of the 308 federal electoral districts based on the 2001 Census geographic infrastructure (except where blocks have been split) together with the shoreline around Canada. A separate file will be provided with large inland lakes and double line rivers. The lakes and shorelines will hereafter be referred to as hydrography. The coordinates are latitude / longitude and are based on the North American Datum of 1983 (NAD83).

## Reference date

The geographic reference date is a date determined by Statistics Canada to finalize the geographic framework for which census data will be collected, tabulated and reported. The geographic reference date for the 2001 Census, is January 1, 2001.

## 3. How to use this product

## Purpose of the Product

The Cartographic Boundary File (CBF) was created to support the spatial analysis and thematic mapping of data from the 2001 Census of Population, where realistic shorelines are required. This product can also be used with Census of Agriculture or other Statistics Canada data for data analysis and thematic mapping.

With the appropriate computer software, the Cartographic Boundary File provides the framework for thematic mapping to support applications such as land use and demographic studies, or social, economic and market research. Geographic identifiers provide the linkage between the statistical data and the geographic area boundaries The Cartographic Boundary File is positionally consistent with the Road Network Files and Skeletal Road Network Files, which can provide additional geographic context for mapping applications.

The Cartographic Boundary File was created for thematic mapping - particularly choropleth mapping of Census data. The shorelines were integrated with the boundaries to enable users to more easily shade the land polygons. Supplementary hydrography is also available to support the mapping of inland lakes, oceans and land outside the landmass of Canada. The boundaries of the Cartographic Boundary Files include shoreline around Canada and the shoreline of larger inland water bodies within Canada (i.e. Great Lakes).

## Limitations

The positional accuracy of the Cartographic Boundary File does not support cadastral, surveying or engineering applications.

The source data used to create the product carried a wide range of different scales. Therefore, the Cartographic Boundary File will not be precise if plotted at a larger scale than the scale of the source material used in their creation. In particular, the shorelines originally digitised at a scale of 1:1,000,000 (outside census metropolitan areas and census agglomerations) will not support large-scale mapping.

The Cartographic Boundary File is recommended for local and regional scale mapping. Boundaries can be mapped at scales ranging from 1:1,000,000 to $1: 5,000,000$ as well as 1:250,000.

## General methodology

## Creation of the hydrography layer

Water polygons from both the National Topographic Data Base (1:50,000 and the 1:250,000 maps) and National Atlas (GeoBase hydrology Level 0) were chosen for the hydrography layer. The hydrography was generalized by removing small lakes from the file to reduce noise. Large rivers emptying into the oceans were closed off, and then the interior hydrography (double line river and lake polygons) was extracted to create the supplementary hydrography.

Creation of the basic boundary file
A basic boundary layer (without hydrography) was created from the National Geographic Base (NGB). This digital file consists of polygons with identification codes for upper level geographic areas.

Using information from Elections Canada, a file was created linking every 2001 block with a unique FED 2003 identification code. This FED 2003 code was appended to the attributes of the digital boundary file of the 2001 blocks. The blocks in the same FED 2003 were aggregated to create one FED 2003 polygon per federal riding, for a total of 308 polygons in the file.

Using further information from Elections Canada (a list of which blocks needed to be split, and the new boundaries for those blocks), the boundary file was manually edited to match the new boundaries as defined by Elections Canada. These new boundaries may not have any relationship to any other information on the NGD. (National Geographic Database)

## Creation of the boundaries for the CBF

Using the CBF for the Provinces/Territories 2001, the basic boundary layer was clipped to the shorelines.

## Attribute information for the CBF

Additional information such as the name of each FED 2003 was included in the boundary file. This information was provided by Elections Canada.

Finally, the file was verified, translated, and labelled.

## Content

The Federal Electoral Districts (FED) Cartographic Boundary File (CBF) for Canada contains the boundaries of all 308 federal electoral districts based on the 2001 Census geographic infrastructure except where blocks were split, see Appendix C. A federal electoral district is an area represented by a member of the House of Commons. The federal electoral district boundaries for this product are based on the 2003 Representation Order.

The Federal Electoral Districts cartographic boundary file consists of polygons representing the federal electoral district. Every polygon encoded as a Federal Electoral District (2003 Representation Order) has a FEDuid (a code to uniquely identify each federal electoral district) associated with it. The Federal Electoral Districts cartographic Boundary File is available at the national level only. The Federal Electoral Districts Boundary File consists of polygons representing 308 Federal Electoral Districts. There are more polygons than Federal Electoral Districts primarily because of the additional polygons needed to represent islands.

A breakdown of the number of Federal Electoral Districts and polygons by province / territory are provided below for the Federal Electoral District Cartographic Boundary File:

| Province / Territory | Number of FED | Number of <br> Polygons | Number of FED in more <br> than one polygon |
| :--- | ---: | ---: | ---: |
| Canada | 308 | 5311 | 64 |
| Newfoundland and Labrador | 7 | 643 | 6 |
| Prince Edward Island | 4 | 17 | 3 |
| Nova Scotia | 11 | 156 | 9 |
| New Brunswick | 10 | 57 | 6 |
| Quebec | 75 | 414 | 7 |
| Ontario | 106 | 239 | 22 |
| Manitoba | 14 | 14 | 0 |
| Saskatchewan | 14 | 14 | 0 |
| Alberta | 28 | 28 | 0 |
| British Columbia | 36 | 416 | 8 |
| Yukon Territory | 1 | 9 | 1 |
| North West Territories | 1 | 264 | 1 |
| Nunavut | 1 | 3040 | 1 |

## 4. Data Quality

Spatial data quality elements provide information on the fitness-for-use of a spatial database by describing why, when and how the data are created, and how accurate the data are. The elements include an overview describing the purpose and usage, as well as specific quality elements reporting on the lineage, positional accuracy, attribute accuracy, logical consistency and completeness. This information is provided to users for all spatial data products disseminated for the census.

## Lineage

Describes the history of the spatial data, including descriptions of the source material from which the data were derived, and the methods of derivation. It also contains the dates of the source material, and all transformations involved in producing the final digital files or map products.

Aggregating polygons from a layer of geographic information created the Federal Electoral Districts (2003 Representative Order) Cartographic Boundary File. Please see Appendix B for details on this process.

## Positional accuracy

Refers to the absolute and relative accuracy of the positions of geographic features. Absolute accuracy is the closeness of the coordinate values in a dataset to values accepted as or being true. Relative accuracy is the closeness of the relative positions of features to their respective relative positions accepted as or being true. Descriptions of positional accuracy include the quality of the final file or product after all transformations.

The boundaries are derived from the National Geographic Base (NGB). The data in the National Geographic Base is stored in double precision. However, the positional accuracy of the features in the National Geographic Base varies. The data storage precision allows features that are next to each other on the ground to be placed in the correct position on the map, relative to each other, without overlap.

The positional accuracy of the Cartographic Boundary Files is based on the positional accuracy of the source material used in its production (the NGB, the National Atlas GeoBase hydrology Level 0 and the National Topographic Data Base). The National Atlas (GeoBase hydrology Level 0) hydrography was used outside the census metropolitan areas and census agglomerations. Some of the smaller inland water polygons were removed from the Cartographic Boundary Files. Please see Appendix B for more information on the production process.

## Attribute accuracy

Refers to the accuracy of the quantitative and qualitative information attached to each feature (such as population for an urban area, street name, federal electoral district name and code).

The attribute data associated with the polygons in the Cartographic Boundary File was independently verified against the data provided by Elections Canada.

## Logical consistency

Describes the fidelity of relationships encoded in the data structure of the digital spatial data.
Every polygon was verified to have a unique identifier for the Federal Electoral Districts: the FEDuid. Every case where a polygon did not have a unique FEDuid was examined. Some Federal Electoral Districts consisted of a set of polygons that were separated by water bodies. For example, two islands, each a polygon, may belong to the same Federal Electoral District.

Every FEDuid in the FED Cartographic Boundary File was verified to be on the list from Elections Canada as a FEDuid value for the 2003 Representative Order.

The data set was tested to ensure that the size of the polygons was consistent with the geographic units being represented. Specifically, very small polygons and sliver polygons were examined. Slivers are defined here as very long, thin polygons.

The following criteria were used to detect slivers:

$$
\left\{(\text { perimeter x perimeter) } / \text { area }>50\} \text { AND }\left\{\text { area }<100,000 \mathrm{~m}^{2}\right\}\right.
$$

## Completeness

Refers to the degree to which geographic features, their attributes and their relationships are included or omitted in a dataset. It also includes information on selection criteria, definitions used, and other relevant mapping rules.

The number of federal electoral districts as well as their unique identifiers was verified against the information from Elections Canada.

## 5. Technical Specifications

This Cartographic Boundary File consists of two layers of data. The boundaries of the federal electoral districts have been re-defined for thematic mapping purposes by integrating them with the shoreline. Supplementary files for the oceans, Great Lakes, St. Lawrence River, Greenland and bordering United States are available upon request.

## File specifications

These are the standard formats in which 2001 Census digital spatial products are available from Geography Division.

Software formats
All products available on CD-ROM for purchase containing digital boundaries and road network information are available in the following formats:

- ARC/INFO® interchange format version 8.3

ASCII export file
File extension(s): .e00 (spatial and tabular data)

- MapInfo® interchange format version 7.0

ASCII export files
File extension(s): .MIF (graphic data), .MID (tabular data)

## Installation instructions

Both the ARC/INFO® and MapInfo® are compressed in self-executable WinZip ${ }^{\circledR}$ files (file extension EXE). Users can uncompress these files by executing them in DOS, or selecting them in Windows® and double clicking on the file icon, or executing them in the RUN dialogue in Windows ${ }^{\circledR}$.

The geographic area names in the Cartographic Boundary File contain accented characters. These characters can be seen in UNIX and Windows $®$ versions of ARC/INFO® and MapInfo®. (They ware tested on desktop versions of ARC/INFO® 8.3, MapInfo® 7.0. To preserve accents, ArcToolbox ${ }^{\circledR}$ is recommended for importing files into the desktop version of ARC/INFO® 8.3.

## File names and sizes

File names are formatted in order to better indicate to the client the source of data, coverage, geographic area, language and file format of the data.

|  | ARC/INFO® |  | MapInfo® |  |
| :--- | :--- | :---: | :---: | :---: |
|  | File name |  | File <br> size <br> (MB) | File name |
|  |  | File <br> size <br> (MB) |  |  |

## Geographic representation

- All files distributed by Geography Division are in the North American Datum of 1983 (NAD 83).
- The files are available in the geographic coordinate system (latitude / longitude).
- To make this file useful (i.e. to calculate distance) it must be projected.


## Record layout and item description

Federal Electoral Districts (2003 representation order) record layout:
The following table shows the format of the attributes contained on the boundary files.

| Item Name | Width | Output | Type | Decimals |
| :--- | :---: | :---: | :---: | :---: |
| <File Name>\# $^{1}$ | 4 | 5 | B | 0 |
| <File Name>-ID $^{1}$ | 4 | 5 | B | 0 |
| FEDname | 60 | 60 | C | - |
| FEDuid | 5 | 5 | C | - |
| PRuid | 2 | 2 | C | - |

${ }^{1}$ Items included with ARC/INFO® Interchange files only

## Item Description:

| Item | Description |
| :--- | :--- |
| <File Name>\# | maintained by ARC/INFO® for internal processing <br> (item not included in MapInfo® files) |
| <File Name>-ID | maintained by ARC/INFO® for internal processing <br> (item not included in MapInfo® files) |
| FEDname | the official federal electoral district name |
| FEDuid | uniquely identifies a federal electoral district (composed of the 2-digit province <br> code and the 3-digit federal electoral district code, 2003 Representation Order) |
| PRuid | uniquely identifies a province or territory |

## 6. Glossary

## Block

A block is an area bounded on all sides by roads and / or boundaries of standard geographic areas. Blocks cover all the territory of Canada. The block is the smallest geographic area for which population and dwelling counts are disseminated.

## Cartographic Boundary File

The Cartographic Boundary File (CBF) contains boundaries of standard geographic areas, along with shorelines and lakes, at a level of detail appropriate for small-scale mapping.

## Datum

A datum is a geodetic reference system that specifies the size and shape of the earth, and the base point from which the latitude and longitude of all other points on the earth's surface are referenced.

The spatial data disseminated for the 2001 Census are based on the North American Datum of 1983 (NAD83).

## Federal Electoral District

A federal electoral district is any place or territorial area entitled to return a member to serve in the House of Commons. FED legal limits and descriptions are the responsibility of the Chief Electoral Officer, and are usually revised every 10 years after the results of the decennial census. The 2003 Representation Order is the most current revision, and is based on 2001 Census population data.

## Geocoding

Geocoding is the process of assigning geographic identifiers (codes) to map features and data records. The resulting geocodes permit data to be linked geographically.

Households and postal codes are linked to block-face representative points when the street and address information is available; otherwise, they are linked to block representative points.

## Geographic Code

A geographic code is a unique number used to identify and access standard geographic areas for the purposes of data storage, retrieval and display.

## Geographic Reference Date

The geographic reference date is a date determined by Statistics Canada to finalize the geographic framework for which census data will be collected, tabulated and reported. The geographic reference date for the 2001 Census is January 1, 2001.

## Map Projection

A map projection is the process of transforming and representing positions from the earth's threedimensional curved surface to a two-dimensional (flat) surface. The process is accomplished by a direct geometric projection or by a mathematically derived transformation.

The Lambert Conformal Conic map projection is widely used for general maps of Canada at small scales and is the most common map projection used at Statistics Canada.

## National Geographic Base

The National Geographic Base (NGB) is a database that contains roads and boundaries of standard geographic areas in one integrated layer with other physical and cultural features (such as hydrography, railroads and power transmission lines) stored as separate layers.

The NGB is an internal maintenance database that is not disseminated. It supports a wide range of census operations, such as geocoding, updating the road network and address ranges, supporting the block program and delineating the boundaries of standard geographic areas (including the automated delineation of enumeration areas, urban areas and dissemination areas). As well, the NGB is the source for generating many geography products for the 2001 Census, such as reference maps and Cartographic Boundary Files.

## Road Network Files

The Road Network Files (RNFs) provide national coverage of roads, province / territory boundaries and other visible features such as hydrography, as well as attribute information (for example, street names and address ranges for streets with assigned addresses). The RNFs replace the Street Network Files (SNFs), which were a similar product previously available only for the large urban centres of Canada.

## Spatial Data Quality Elements

Spatial data quality elements provide information on the fitness-for-use of a spatial database by describing why, when and how the data are created, and how accurate the data are. The elements include an overview describing the purpose and usage, as well as specific quality elements reporting on the lineage, positional accuracy, attributes accuracy, logical consistency and completeness. This information is provided to users for all spatial data products disseminated for the census.

## Thematic Map

A thematic map shows the spatial distribution of one or more specific data themes for standard geographic areas. The map may be qualitative in nature (e.g., predominant farm types) or quantitative (e.g., percentage population change).

## Appendix A: Hierarchy of Standard Geographic Units for Dissemination, 2001 Census (FED based on 2003 Representation Order)



## Appendix B: Lineage

The following steps were taken to create the Fed308 CBF.

## 1. Creation of the basic boundary file

Using information from Elections Canada, a file was created linking every block from the 2001 Census with a unique FED 2003 identification code. This FED 2003 code was appended to the attributes of the digital boundary file of the 2001 blocks. The blocks in the same FED 2003 were aggregated to create one FED 2003 polygon per riding, for a total of 308 polygons in the file.

Elections Canada also provided a list of 401 blocks that needed to be split for the new federal ridings (This list can be found in Appendix C) and a boundary file of the new ridings. A basic boundary file (without hydrography) was manually edited to match the new boundaries in the split blocks, as defined by EC. These new boundaries, for the split blocks, may not have any relationship to any other information on the NGD. In some cases, where the difference between the EC boundary file and the STC boundary file was found to occur only in water (as based on the 2001 hydrography), the STC boundary file was not changed, to keep it as close as possible to a 2001 base. This occurred in seventeen cases in the editing process.

At this point each FED 2003 was a single polygon, except for 3 cases: 12004 Halifax included a polygon for Sable Island; 24019 Gaspésie-îles-de-la-Madeleine included polygons for the islands; and 24039 Manicouagan was in multiple parts at the Quebec-Labrador border.

## 2. Creation of the cartographic boundary file

To keep the FED 2003 boundary file as close as possible to other cartographic boundary files that had been disseminated previously by the Geography Division for the 2001 Census, the basic version 2 of the province/territory CBF was used to clip the FED 2003 as it had the fewest polygons.

Slivers were then removed using these criteria to detect them:
$\left\{(\right.$ perimeter x perimeter) $/$ area $>50\}$ AND $\left\{\right.$ area $\left.<100,000 \mathrm{~m}^{2}\right\}$.
Polygons in the FED 2003 CBF were then aggregated to the provincial/territorial level, and compared to the polygons in the province/territory version 2 CBF. The number of polygons matched exactly.

The FED 2003 CBF was checked for node errors, label errors, and arc intersections, and there were none.

## 3. Attribute information

At this point the names, in English and French as provided by Elections Canada, were added to the polygon attributes. This file was used to produce the final version of the disseminated CBF by transforming from Lambert Conformal Conic projection into latitude/longitude co-ordinates.

Finally, the file was verified and appropriately labelled.

## Appendix C: List of Blocks that were split

| PrCdDaDis | PrCdDaDis | PrCdDaDis | PrCdDaDis | PrCdDaDis | PrCdDaDis |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 1001005503 | 1007005101 | 1209000313 | 4811121101 | 1209050201 | 1209044802 |
| 1001005509 | 1007006802 | 1209000501 | 4811122101 | 1209050303 | 1209045201 |
| 1001014004 | 1007007610 | 1209000505 | 4811122112 | 1209050401 | 1209045203 |
| 1001014009 | 1008004302 | 1209000702 | 4811122415 | 1209052101 | 1209045701 |
| 1001014108 | 1008004501 | 1209000713 | 4811122501 | 1209052209 | 1209045702 |
| 1001014109 | 1008008603 | 1209000714 | 4811122801 | 1209052410 | 1209046402 |
| 1001014111 | 1207002214 | 1209001203 | 4811139206 | 1209052501 | 1209046404 |
| 1001014112 | 1207002506 | 1209006809 | 4811140013 | 1209054501 | 1209046405 |
| 1001014202 | 1207002604 | 1209007202 | 4812010304 | 1209054502 | 1209046406 |
| 1001014902 | 1207002611 | 1209007701 | 4812010307 | 1217002505 | 1209046501 |
| 1001019001 | 1207004601 | 1209008101 | 4818002402 | 1217006601 | 1209047003 |
| 1001028601 | 1207004606 | 1209008102 | 5903009401 | 1217006602 | 1209047105 |
| 1001028701 | 1207004706 | 1209008402 | 5915011101 | 1217011213 | 1209047201 |
| 1001031101 | 1207004711 | 1209008706 | 5915011902 | 1217011214 | 1209047210 |
| 1001035807 | 4809003310 | 1209009702 | 5915087401 | 1305001401 | 5915317601 |
| 1003005502 | 4809004507 | 1209012007 | 5915088401 | 1305001404 | 5917003101 |
| 1005006602 | 4809004511 | 1209012611 | 5915173501 | 1305001406 | 5917025703 |
| 1005006606 | 4810000101 | 1209012612 | 5915226103 | 1305001408 | 5917025704 |
| 1005006802 | 4810000201 | 1209012613 | 5915277101 | 1305001410 | 5917026901 |
| 1005006901 | 4810009909 | 1209012705 | 5915277201 | 1306000101 | 5921007515 |
| 1006001808 | 4811003021 | 1209012706 | 5915288405 | 1306000102 | 5921015601 |
| 1006001810 | 4811008101 | 1209012707 | 5915288901 | 1306000403 | 5921015706 |
| 1006001826 | 4811008201 | 1209012708 | 4811120904 | 1306000703 | 5933020502 |
| 1006002101 | 4811013810 | 1209012715 | 5953018706 | 1306002803 | 5933020503 |
| 1006002103 | 4811013814 | 1209012807 | 5953018604 | 1306002903 | 5933020507 |
| 1006004002 | 4811049422 | 1209012810 | 3530010709 | 1307017502 | 5933021405 |
| 1006004005 | 4811055822 | 1209019302 | 3530010905 | 1314001001 | 5933021601 |
| 1006004007 | 4811056201 | 1209037304 | 3530013502 | 1314001115 | 5933021618 |
| 1006004033 | 4811056507 | 1209038601 | 3530013504 | 1315015105 | 5933021824 |
| 1007002605 | 4811097205 | 1209038602 | 3530013604 | 1315015106 | 5933021825 |
| 1007004004 | 4811098401 | 1209038701 | 3530056304 | 1315015108 | 5945002002 |
| 1007004103 | 4811099201 | 1209040001 | 3530057010 | 2423006602 | 5953014714 |
| 1007004107 | 4811099401 | 1209040002 | 3530057105 | 2423015201 | 5953014715 |
| 1007004108 | 4811120501 | 1209043402 | 3530057204 | 2423015209 | 5953018602 |
| 4809003308 | 4809001103 | 4611043807 | 4611040601 | 4611040501 | 4611040103 |


| PrCdDaDis | PrCdDaDis | PrCdDaDis | PrCdDaDis | PrCdDaDis | PrCdDaDis |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 2459008001 | 2423084101 | 3520278301 | 3530057205 | 4611065901 | 4611023222 |
| 2465003701 | 2423087401 | 3520324401 | 3530057208 | 4611065902 | 4611023223 |
| 2465031701 | 2423087402 | 3520353201 | 3539039307 | 4611089802 | 4611023225 |
| 2465045605 | 2423087501 | 3520353203 | 3548009301 | 4611090403 | 4611023226 |
| 2465045701 | 2423088305 | 3520380401 | 3548010408 | 4611093701 | 4611036102 |
| 2465046401 | 2442003904 | 3521071905 | 3548010412 | 4611093702 | 4809000212 |
| 2465046402 | 2443010501 | 3521072101 | 3552000213 | 4611093703 | 4809000214 |
| 2465048301 | 2443010713 | 3525002603 | 3552000214 | 4611098701 | 4809000514 |
| 2465056801 | 2443010714 | 3525007001 | 3552000402 | 4611110612 | 4809000516 |
| 2465058301 | 2443021602 | 3525007101 | 3552000502 | 4612001012 | 4809000518 |
| 2466073801 | 2458013401 | 3525007102 | 3552001901 | 4619003801 | 4809000521 |
| 2466087101 | 2458013402 | 3525009701 | 3553014710 | 4619004601 | 4809000523 |
| 2466087302 | 2458013403 | 3525009702 | 3556002001 | 4619005102 | 4809000529 |
| 2466087303 | 2459003801 | 3525009901 | 3556002111 | 4716013612 | 4809000530 |
| 2466172401 | 3506116902 | 3525013801 | 3556002115 | 4802023408 | 4809000531 |
| 2466187101 | 3518020408 | 3525013802 | 3556004720 | 4804002023 | 4809001033 |
| 2466187102 | 3518054509 | 3525013803 | 3556004804 | 4804002402 |  |
| 2466187103 | 3520046801 | 3525013804 | 3556009002 | 4805006842 |  |
| 2466192301 | 3520046901 | 3525013901 | 3556017902 | 4805007002 |  |
| 2466215901 | 3520052701 | 3525013902 | 3556017924 | 4805007101 |  |
| 2466267101 | 3520053703 | 3525014101 | 3557002501 | 4806022003 |  |
| 2466270701 | 3520053801 | 3525014201 | 3557002504 | 4806064012 |  |
| 2466273003 | 3520056001 | 3525019902 | 3557021309 | 4806064301 |  |
| 2466276201 | 3520083409 | 3525026810 | 3557021310 | 4806066201 |  |
| 2466283901 | 3520186801 | 3525049903 | 3557021311 | 4806084401 |  |
| 2466283912 | 3520243301 | 3525049905 | 3557027001 | 4806090011 |  |
| 2466284604 | 3520254701 | 3525051401 | 3558000205 | 4806090102 |  |
| 2466284610 | 3520258401 | 3525057511 | 3558002902 | 4806090114 |  |
| 2466296402 | 3525079301 | 3525065401 | 3558011105 | 4806092407 |  |
| 2466297402 | 3525079310 | 3525065402 | 4601001506 | 4806145321 |  |
| 3506000402 | 3525079314 | 3525065403 | 4602004603 | 4806152001 |  |
| 3506085818 | 3530010702 | 3525075701 | 4602004604 | 4809000203 |  |
| 3506085819 | 3530010703 | 3525077501 | 4609000205 | 4809000205 |  |
| 3506093809 | 4611061801 | 3525078701 | 4611022702 | 4809000206 |  |
| 4611040101 | 4611039901 | 4611039701 | 4611022803 | 4809000210 |  |

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## Geography products and services

This section provides brief descriptions of Geography products and services related to the 2001 Census. For additional details, consult the nearest Statistics Canada Regional Reference Centre.

## 1. Reference Maps

Reference maps show the location of the geographic areas for which census data are tabulated and disseminated. The maps display the boundaries, names and codes of standard geographic areas, as well as major cultural and physical features, such as roads, railroads, coastlines, rivers and lakes. Over 5,600 reference maps are available for the 2001 Census. Given the diversity in size of these geographic areas, different map scales and map coverages are required to show the appropriate level of detail. Descriptions of each series are provided with the individual catalogue entries below.

National Reference Maps<br>92F0172XCB Reference Maps - Complete Set, 2001 Census<br>92F0144XIB Census Divisions, 2001<br>92F0144XIB Economic Regions and Census Divisions, 2001<br>92F0144XIB Census Metropolitan Areas and Census Agglomerations, 2001<br>92F0144XIB Statistical Area Classification, 2001 Census Subdivisions<br>92F0152XPE Federal Electoral Districts (1996 Representation Order) Reference Map

## 92F0149XPB Census Division and Census Subdivision Reference Maps

The set of Census Division and Census Subdivision Reference Maps covers all of Canada, by province and territory. The maps show the boundaries, names and codes of census divisions (such as counties and regional districts) and census subdivisions (such as cities, towns, villages, other local municipal entities, townships and Indian reserves). The maps also show the boundaries of census metropolitan areas and census agglomerations. There are 22 maps that vary in scale (ranging from 1:310,000 to 1:3,500,000).

## 92F0145XPB Census Tract Reference Maps, by Census Metropolitan Area or Census Agglomeration

The series of Census Tract Reference Maps covers all 27 census metropolitan areas (CMAs) and the 19 census agglomerations (CAs) with census tracts. The maps show the boundaries and names of census tracts and census subdivisions, as well as the urban core, urban fringe and rural fringe within the CMAs or CAs. The maps include background information such as rivers, lakes, railroad tracks and provincial boundaries, and other significant features. There are 85 maps in the series, with one to four maps covering each CMA or CA. The map scales range from 1:25,000 to 1:2,000,000, and the maximum map dimensions are approximately 91 cm by 101 cm ( 36 inches by 40 inches).

## 92F0146XPB Dissemination Area Reference Maps, by Census Tract, for Census Metropolitan Areas and Census Agglomerations.

The set of Dissemination Area Reference Maps by Census Tract covers all 27 census metropolitan areas (CMAs) and the 19 census agglomerations (CAs) that are part of the census tract program. Each map in the set covers one census tract (CT) and shows the boundaries and codes of dissemination areas within that CT. The maps also show census tract, census subdivision, and census metropolitan area or census agglomeration boundaries on a background of detailed street networks and other visible features such as rivers, lakes and railroad tracks.

There are approximately 4,800 maps in this set—generally one map per census tract. The dimensions of each map are approximately 27 cm by 43 cm (11 inches by 17 inches).

## 92F0147XPB Dissemination Area Reference Maps, by non-tracted Census Agglomeration

The set of Dissemination Area Reference Maps by Non-tracted Census Agglomeration covers the smaller census agglomerations that are not part of the census tract program. Each map in the set covers one census agglomeration (CA) and shows the boundaries and codes of dissemination areas within that CA. The maps also show the boundaries of census subdivisions (municipalities), as well as urban areas, and representative points for designated places. The maps include background information such as rivers, lakes, railroad tracks and provincial boundaries, and other significant features.

There are approximately 100 maps in this set—generally one map per census agglomeration (The maps vary in scale and size; the maximum map dimensions are approximately 91 cm by 101 cm (36 inches by 40 inches).

92F0148XPB Dissemination Area Reference Maps, by Census Division, for Areas Outside Census Metropolitan Areas and Census Agglomerations. The set of Dissemination Area Reference Maps by Census Division covers areas outside census metropolitan areas (CMAs) and census agglomerations (CAs). Each map in the set covers one census division (CD) and shows the boundaries and codes of dissemination areas within that CD. The maps also show the boundaries of census subdivisions, census metropolitan areas and census agglomerations, as well as urban areas and representative points for designated places. The maps include background information such as rivers, lakes, railroad tracks and provincial boundaries, and other significant features.

## 2. Geographic Data Products

Geographic data products are those that contain 2001 Census population and dwelling counts.

## 93-360-XPB National Overview Tables, 2001 Census

The National Overview tables provide population and dwelling counts established by the 2001 Census of Canada. The levels of geography covered are Canada, provinces and territories, and other geographic areas including census subdivisions (municipalities), census metropolitan areas and census agglomerations. For selected geographies, the tables provide percentage change in the population and dwellings between 1996 and 2001. Data are also provided for land area and population density. Geographic Boundaries are those in effect on January 1, 2001.

## 92F0150XCB GeoSuite, 2001 Census

GeoSuite is a tool for data retrieval, query and tabular output, with software and data on a CDROM. GeoSuite allows users to explore the links between all standard levels of geography and to determine geographic codes, names, and population and dwelling counts. GeoSuite includes a dissemination area (DA) reference map listing that facilitates identification of appropriate DA reference maps.

## 3. Spatial Information Products

Spatial information provides the shape and location of geographic features. The boundaries, road network and other features of standard geographic areas are available in digital form for mapping and geographic information system (GIS) applications. These products include Cartographic Boundary Files (CBFs), Road Network Files (RNFs) and Skeletal Road Network Files (SRNFs).

## Cartographic Boundary Files (CBFs), 2001 Census

Cartographic Boundary Files (CBFs) contain the boundaries of standard geographic areas together with the shoreline around Canada and the larger inland lakes, all integrated in a single layer. The coordinates are latitude / longitude and are based on the North American Datum of 1983 (NAD83). The Cartographic Boundary Files for 2001 replace the Digital Cartographic Files produced for the 1996 Census.

Cartographic Boundary Files can be used with Census of Population, Census of Agriculture or other Statistics Canada data for data analysis and thematic mapping (with appropriate software). Geographic codes provide the linkage between the statistical data and the geographic area boundaries. CBFs can also be used to create new geographic areas by aggregating standard geographic areas, and for other data manipulations available with the user's software. The CBFs can be used with the Road Network Files and Skeletal Road Network Files, which provide additional geographic context for mapping applications.

92F0160XCE Provinces and Territories Cartographic Boundary File<br>92F0163XCE Federal Electoral Districts (1996 Representation Order) Cartographic Boundary File<br>92F0161XCE Census Divisions and Economic Regions Cartographic Boundary File<br>92F0167XCE Census Consolidated Subdivisions Cartographic Boundary Files<br>92F0162XCE Census Subdivisions Cartographic Boundary Files<br>92F0165XCE Designated Places Cartographic Boundary File<br>92F0166XCE Census Metropolitan Areas / Census Agglomerations Cartographic Boundary File<br>92F0168XCE Census Tracts Cartographic Boundary Files<br>92F0164XCE Urban Areas Cartographic Boundary File<br>92F0169XCE Dissemination Areas Cartographic Boundary Files

## 92F0159XCE Population Ecumene Census Division Boundary File, 2001 Census

The Population Ecumene Census Division Boundary File contains a generalized population ecumene based on 2001 Census population density data with at least one ecumene polygon for every census division (CD). It can be used to produce small-scale thematic maps of statistical data.

For the 2001 Census, a population ecumene was defined based on population density criteria at the block level. The resulting detailed population ecumene polygons were generalized and small, non-contiguous ecumene pockets were aggregated to ensure visibility for small-scale thematic mapping at the census division level. When ecumene boundaries are used for dot and choropleth mapping, they give a more accurate depiction of the spatial distribution of data within standard geographic areas.

The Population Ecumene Census Division Boundary File is available as a standard package for Canada free on the Internet or it can be purchased on CD-ROM through the nearest regional office. This file is not a Cartographic Boundary File and it has its own reference guide.

## 4. Attribute Information Products

Attribute information products are those that give descriptive information about the features. The attribute files include Postal Code Conversion File (PCCF) and Postal Code by Federal Ridings File (PCFRF).

## 92F0027XCB Postal Code Conversion File (PCCF)

The Postal Code Conversion File (PCCF) provides a link between six-character postal code and standard 1996 Census geographic areas (such as enumeration areas, municipalities, census tracts). It also provides the $\mathrm{x}, \mathrm{y}$ (latitude / longitude) coordinates for a point representing the approximate location of the postal code to support mapping. The PCCF is available as standard packages for Canada, the provinces and territories, census metropolitan areas (CMAs) and some census agglomerations (CAs). A reference guide is included.

## 92F0027UDB Postal Code Conversion File (PCCF) - Update

The Postal Code Conversion File (PCCF) is updated with new postal codes on a semi-annual basis and is available in January and July. Clients must purchase the Postal Code Conversion File at the initial price; then subsequent updated files (92F0027UDB) may be purchased at the update or subscription rate. The update rate is a flat rate that in most cases is much lower than the initial purchase price. An additional $25 \%$ discount on updates is given to PCCF update subscribers. The subscription requires clients to pay in advance for at least one updated file per year until the PCCF reflecting the geography of the 2001 Census is released. The PCCF Updates are available as standard packages for Canada and the provinces and territories. A reference guide is included.

## 92F0028XDB Postal Codes by Federal Ridings (1996 Representation Order) File

The Postal Codes by Federal Ridings File (PCFRF) provides a link between the six character postal codes and the federal electoral districts (1996 Representation Order). A federal electoral district (FED), commonly referred to as a federal riding, is an area represented by a Member of Parliament in the House of Commons.

The PCFRF is intended as a tool for use with administrative files containing postal codes. By using the postal code as a link, data from administrative files may be organised and / or tabulated by federal riding. This PCFRF allows a link of more than 680,000 postal code records to the 301 federal electoral districts. The PCFRFs are available as standard packages for Canada and five regions. A reference guide is included.

## 92F0028UDB Postal Codes by Federal Ridings (1996 Representation Order) File (PCFRF) Update

The Postal Code by Federal Ridings File (PCFRF) is updated with new postal codes on a semiannual basis and is available in January and July. Updates released in July provide new postal codes effective January of the release year. Updates released in January provide new postal codes in use in July of the previous year. Clients who purchase the PCFRF (92F0028XDB) at the initial price may then purchase subsequent updated files (92F0028UDB) at the update rate (see Table 13 for details). The PCFRF Updates are available as standard packages for Canada and five regions.

## 92F00153UCE Postal Code Conversion File (PCCF) - Update

The Postal Code Conversion File (PCCF) is updated with new postal codes on a semi-annual basis and is available in January and July. Clients must purchase the PCCF at the initial price; then subsequent updated files may be purchased at the update or subscription rate. The update rate is a flat rate that in most cases is much lower than the initial purchase price. An additional $25 \%$ discount on updates is given to PCCF update subscribers. The subscription requires clients to pay in advance for at least one updated file per year until the PCCF reflecting the geography of the 2006 Census is released. The PCCF updates are available as standard packages for Canada, the provinces and territories. A reference guide is included.

## 92F0153XCE Postal Code Conversion File (PCCF)

The Postal Code Conversion File (PCCF) provides a link between the six-character postal code and the standard 2001 Census geographic areas (dissemination areas, municipalities, census tracts, etc.). It also provides the XY co-ordinates for a point representing the approximate location of the postal code to support mapping. A reference guide is included. The PCCF is updated on a semi-annual basis. Updates released in July provide new postal codes as of January of the release year. Updates released in January provide new postal codes as of July of the previous year. Clients must purchase the PCCF at the initial cost; then subsequent updated files (Catalogue no. 92F0153UCE) may be purchased at the update or subscription rate.

## 92F0193XCB Postal Codes by Federal Ridings (2003 Representation Order) File

The Postal Codes by Federal Ridings File (PCFRF) provides a link between the six-character postal code and Canada's federal electoral districts (2003 Representation Order). A federal electoral district (FED) is any place or territorial area entitled to return a Member of Parliament (MP) to serve in the House of Commons and is commonly referred to as a federal riding. The PCFRF is intended as a tool for use with administrative files containing postal codes. By using the postal code as a link, data from administrative files may be organized and/or tabulated by federal riding. This PCFRF allows a link of more than 700,000 postal code records to the 308 federal electoral districts (2003 Representation Order). Semi-annual updates (92F0193UCB) are available in January and July. Updates released in July provide new postal codes as of January of the release year. Up dates released in January provide new postal codes as of July of the previous year. A reference guide is included.

## 5. Geographic Services

A variety of services is available, including custom mapping, custom data extraction (geocoding) and the development of custom geography products.

## 97C0006 Geography Custom Service

If standard geography products do not satisfy a client's needs, the Geography Custom Service is available to produce non-standard geographic products. Examples include alternative packaging of geographic files, special data retrievals, manipulations or merges using any of the geography computer files (postal codes, attribute files, boundary files and road network files). Contact the nearest regional office for details.

## 97C0005 Custom Area Creation Service (formerly Geocoding Service)

The Custom Area Creation Service (formerly called Geocoding Service) allows users to define their own geographic areas of study (user-defined areas or aggregations of standard census geographic areas) for census data tabulations. This custom geography is produced from the aggregation of blocks, or where necessary, block-faces within the road network file coverage. The custom area files thus created are then passed to Census for data tabulation. Contact the nearest regional office for details.

## 97C0007 Geography Custom Mapping

Thematic maps and other maps, specially designed to meet customer needs, can be produced. Contact the nearest regional office for details.

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[^0]:    Note of appreciation
    Canada owes the success of its statistical system to a long-standing partnership between Statistics Canada, the citizens of Canada, its businesses, governments and other institutions. Accurate and timely

[^1]:    ${ }^{1}$ In the Reference Guide supporting the Cartographic Boundary Files, the terms standard geography level or standard geographic units are used to refer to the geography levels defined in the Standard Geography Classification and geography levels established primarily for the purpose of collecting and disseminating Census data. A diagram illustrating the hierarchy of standard geography levels is included in Appendix A of this guide.

