Catalogue no. 92F0153GIE

Postal Code Conversion File (PCCF), Reference Guide

September 2006

Statistics Canada Statistique Canada

Canada

How to obtain more information

For information on the wide range of data available from Statistics Canada, you can contact us by calling one of our toll-free numbers. You can also contact us by e-mail or by visiting our website at www.statcan.ca.

National inquiries line	1-800-263-1136
National telecommunications device for the hearing impaired	1-800-363-7629
Depository Services Program inquiries	1-800-700-1033
Fax line for Depository Services Program	1-800-889-9734
E-mail inquiries	infostats@statcan.ca
Website	www.statcan.ca

Information to access the product

This product, catalogue no. 92F0153GIE, is available for free in electronic format. To obtain a single issue, visit our website at www.statcan.ca and select Publications.

Standards of service to the public

Statistics Canada is committed to serving its clients in a prompt, reliable, courteous, and fair manner. To this end, the Agency has developed standards of service that its employees observe in serving its clients. To obtain a copy of these service standards, please contact Statistics Canada toll free at 1-800-263-1136. The service standards are also published on www.statcan.ca under About us > Providing services to Canadians.

Statistics Canada

Postal Code Conversion File (PCCF), Reference Guide

September 2006

Published by authority of the Minister responsible for Statistics Canada

January 2007

Catalogue no. 92F0153GIE
ISSN 1708-3095

Frequency: Semi-annual

Ottawa

Cette publication est disponible en français sur demande (nº 92F0153GIF au catalogue).

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 statistical information could not be produced without their continued cooperation and goodwill.

What's new?

- The postal code reference date for this update is September 2006.
- With this release, we corrected some geocoding linkages within the PCCF, 420 were fixed in Québec, 340 in Ontario, 197 in Alberta, 63 in British Columbia , 28 in Saskatchewan, 18 in New Brunswick, and 1 in Newfoundland and Labrador. These were geocoded both manually and with our automated geocoding process. A total of 1,067 records were updated and 13,610 were deleted from our postal code database used to generate the PCCF.
- A file is available that indicates all of the postal codes corrected in the September 2006 PCCF.
- A file is available that indicates unnecessary DPL – postal code linkages. See Section 4.4 Logical consistency for discussion of these records.

2001 Census geography features

- Within major urban areas, postal code address ranges are linked to the National Geographic Base (NGB) and wherever possible, a block-face link is identified.
- The 2001 postal code conversion process has produced some cases of reduced data quality. A part of the process generated cases where a postal code was assigned to all blocks located along a road. This occurred when a postal code could be geocoded to a road but not to a specific address range. The system then assigned the postal code to all 2001 blocks linked to the road identifier. In some cases, especially if the road was very long, this process was not appropriate and has resulted in poorer data quality. 4,522 postal codes in the PCCF were corrected where postal codes were related to 'Main' postal delivery installations. The records related to these postal codes were re-geocoded so that they are linked to the correct 2001 Census geography. Another group of records (associated with 40 postal codes) with incorrect census subdivision linkages in the province of Québec were also re-geocoded and corrected in the PCCF.
- A geographic unit, the block, has been added to the standard hierarchy.
- A statistical area classification code (SAC) has been added to the census subdivision.
- All the spatial information is now based on the North American Datum of 1983 (NAD83).

Table of contents

1 About this guide

This guide is intended for users of the Postal Code Conversion File (PCCF). It provides general information about the product, including a description of the general methodology used to create the product.

Section 4, Data quality on page 12, gives a detailed description of the various steps in the creation of PCCF. This section also provides information to evaluate the suitability of the data for a particular use.

Technical specifications in *Section 5.1 File specifications* on page 17 include record layout and item descriptions.

Geographic terms and concepts are described in the Glossary, starting on page 24. More details can be found in the 2001 Census Dictionary, catalogue number 92-378-XIE. Supplementary information is provided in the appendices with a list of related products and services.

This 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 a thorough verification of this product, however, there is no guarantee that the data are 100% accurate.

2 Overview

The Postal Code Conversion File is a digital file which provides a correspondence between the Canada Post Corporation (CPC) six character postal code and Statistics Canada's standard geographical areas for which census data and other statistics are produced. Through the link between postal codes and standard geographic areas, the PCCF permits the integration of data from various sources.

The geographic coordinates attached to each postal code on the PCCF are commonly used to map the distribution of data for spatial analysis (e.g. clients, activities). The location information is a powerful tool for marketing, planning, or research purposes.

In April 1983, the Geography Division released the first version of the PCCF, which linked postal codes to 1981 census geographic areas and included geographic coordinates. Since then, the file has been updated on a regular basis to reflect changes.

Every five years, the postal code linkages on the PCCF are converted to the latest census geographic areas. The original PCCF was linked to the 1981 census geographic areas. Since then, the PCCF has undergone four conversions, following the 1986, 1991, 1996 and 2001 Censuses. A revised automated system was used for the 1996 to 2001 conversion. The 2001 Census postal codes reported by respondents were used to validate the links between postal code and census geographic areas.

Reference dates

The reference date for postal codes contained in this product is September 2006.

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

3 How to use this product

3.1 Purpose of the product

The Postal Code Conversion File provides a link between six character postal codes and standard 2001 Census geographic areas (such as dissemination areas, municipalities, and census tracts). It also provides the latitude and longitude coordinates for a point representing the approximate location of the postal code to support mapping.

3.2 Limitations

The PCCF contains multiple records for a postal code when the postal code straddles more than one block-face, block, or dissemination area. It should be acknowledged that the CPC source data used to create the PCCF contains some postal codes which have large numbers of multiple links to address ranges. For example, in the September 2006 file received from Canada Post, 405 postal codes were linked to between 50 and 100 address ranges, and 248 postal codes were linked to 100 or more address ranges.

Civic addresses are not available for some postal codes such as those associated with rural routes. Many of these postal codes tend to straddle several dissemination areas and often cross boundaries of standard geographic areas such as census tracts or census subdivisions. It is difficult, if not impossible, to identify a precise physical location based on a rural postal code.

Community mailboxes are a growing source for multiple records on the PCCF. In new urban delivery areas, postal codes are assigned to a community mailbox that may cover partial blocks, both sides of a street and different streets within 200 metres of the community mailbox. These situations often result in multiple links being established between the postal code and block-faces, unlike the more traditional urban postal codes, which correspond generally to a block-face.

The single link indicator (SLI) was created to assist users in dealing with postal codes with multiple records. The SLI indicates the best geographic record for a postal code.

The following table presents the number of postal codes (including retired postal codes) that show multiple links for selected geographic areas.

Postal codes with multiple links

Geographic Area	Number
Block	149, 068
Dissemination area	84,487
Census tract	16,901
Census subdivision	5,117
Census division	999
Census metropolitan area	317
Province/Territory	9

The address associated with a postal code does not always represent the location of those receiving mail using that postal code. This is particularly the case in rural areas, where rural route service and post office pick-up are commonly used to deliver mail. The delivery mode type of “W” (rural) and “H” (rural route) on the PCCF identify postal codes that are usually considered rural.

A typical rural route address, such as “RR#6, Georgeville, Québec”, does not provide sufficient address information to identify a precise physical location. A rural post office address such as

"PO BOX 4001 STN A VICTORIA BC" is also imprecise and not explicitly attached to the dwellings served by that postal code. Consequently, rural postal codes can not be used in the same manner as most urban postal codes can to precisely geo-reference a physical location.

Similarly, postal codes with a delivery mode type of "K" (group of post office boxes) or "M" (one post office box) are generally linked to the location of the post office on the PCCF, as opposed to the physical location of customers who rent a post office box.

3.3 General methodology

The PCCF is updated on a regular basis and is released every six months. The regular maintenance of the file takes the postal code changes continually introduced by CPC and finds the corresponding census geographic areas. Every five years, after each census, the PCCF must be converted to the new census geographic areas.

CPC provides Statistics Canada with a file every month containing the latest postal codes, address ranges and other attributes (e.g. delivery mode type). Within major urban areas, postal code address ranges are linked to the National Geographic Base (NGB) and wherever possible, a block-face link is identified. Municipality maps are used where necessary and as a last resort, contact is made with local authorities to get as precise a street and address location as possible. The relationship to a block or dissemination area is then determined. Where the block-face can not be precisely determined, the postal code is coded to the block or dissemination area.

All other postal code links to higher level geographic areas are derived from the block-face, block, or dissemination area.

3.4 Content

This version of the PCCF contains a total of 861,765 postal codes (807,678 active, 54,087 retired codes that have not been reactivated). This total figure does not include 5,968 postal codes that have been reborn. These postal codes are linked to the geographic areas used in the 2001 Census and to latitude and longitude coordinates. This file contains postal code data under license from CPC. The CPC file from which this data was copied is dated September 2006. The PCCF includes all valid postal codes as of September 2006 according to CPC.

Postal codes do not respect census geographic boundaries and so may be linked to more than one standard geographic area or be assigned to more than one set of coordinates. Therefore, one postal code may be represented by more than one record. Postal codes can straddle provincial boundaries. See *Appendix B Postal code structure* on page 31 for more information.

Postal code data are available as a national file or as separate provincial/territorial files identified by using Standard Geographic Classification (SGC) coding. This is summarized in *Appendix E Data file naming convention*, on page 36.

The following table provides the number of unique postal codes and total records by province/territory.

Province/territory postal code counts[1]

Province/Territory	Postal Codes	Records
Newfoundland and Labrador	11,209	28,760
Prince Edward Island	3,451	9,871

Province/territory postal code counts[1]

Province/Territory	Postal Codes	Records
Nova Scotia	26,654	64,273
New Brunswick	59,167	95,054
Quebec	215,272	477,309
Ontario	288,766	613,398
Manitoba	25,977	72,667
Saskatchewan	23,049	88,693
Alberta	82,803	212,714
British Columbia	123,714	276,522
Yukon Territory	1,081	3,276
Northwest Territories	582	1,913
Nunavut	40	191
Canada Total	861,765	1,944,641

1. Please see Appendix B for an explanation of the method with which these counts were generated.

Each record on the file consists of the following (for more detailed information refer to *Appendix B Postal code structure* on page 31):

a six character postal code

the dissemination area (DA) identifier – made up of the province/territory code, the census division code and the dissemination area code – for the dissemination area linked to the postal code

the block – new basic geographic unit

latitude/longitude coordinates representing approximate point location for the postal code

the census subdivision (CSD) name, code and type

geographic codes of other higher level standard geographic areas in which the block/dissemination area is located

the federal electoral district code – 1996 Representation Order

the federal electoral district code – 2003 Representation Order

CPC information relevant to each postal code – its birth date, retirement date, type of mail delivery, CPC community name, and various flags: single link indicator, type of representation point, and postal code type.

Purchasers of the PCCF also receive supplementary names files. Due to the size of the name fields, and because of their repetition, the names are provided in separate files:

Census Division Names File (CD.dat)

Federal Electoral District Names File – 1996 Representation Order (FED96.dat)

Federal Electoral District Names File – 2003 Representation Order (FED03.dat)

Statistical Area Classification Names File (SAC.dat).

The basic link between the postal code and other standard census geographic areas is made through one or more 2001 blocks. The geographic areas contained on the PCCF are shown on the hierarchy chart provided as *Appendix A Hierarchy of Standard Geographic Units, 2001 Census, as of April 2002,* on page 30.

The PCCF is available as standard packages for Canada, the provinces and territories. Custom orders are available on request. Contact us by e-mail or by visiting our Web site.

3.5 Comparison to the 1996 PCCF

Users familiar with the 1996 version of the PCCF should take note of the following changes, affecting both the record layout and content:

DAuid has replaced EAuid
block has been added
Statistical Area Classification has replaced CMA/CA
Statistical Area Classification type has replaced CMA/CA type
UARA code has replaced EAurb_rur
UARA type has been added
PCMA and PCMA type have been removed.

4 Data quality

Linkage data quality elements provide information on the fitness-for-use of a linkage 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 linkage data products disseminated for the census.

4.1 Lineage

Describes the history of the linkage 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.

The PCCF is the result of two updating activities. The first is done every five years, after each census, to convert the database to the latest census geographic areas. The other is the ongoing maintenance activity that links the latest postal codes from CPC to census geographic areas. These links are continuously recorded on the Geography Division's postal code database.

4.1.1 Conversion 1996 to 2001 Census geography

4.1.1.1 Sources

The sources used to convert the census geography linkage from 1996 to 2001 were:

September 2002 postal codes and address range information from CPC

2001 Census block-face, block, and representative points data files

Oracle tables from the 2001 Census dissemination base

1996-2001 enumeration area/dissemination area correspondence file

2001 Census reported postal code data.

4.1.1.2 Process

The following steps were used to bring the PCCF from 1996 to 2001 Census geographic links:

1. Match address ranges automatically
2. Assign 2001 enumeration area, then 2001 dissemination area using 1996 links
3. Validate conversion results using 2001 Census data
4. Assign the single link indicator
5. Assign higher levels of geography.

Step 1. Match address ranges automatically

This conversion replaced Statistics Canada's postal code database address information with address range information from CPC for active postal codes. This information was then used to find an associated block-face, block and/or dissemination area link on the NGB. Where this was successful, block-face(s), block(s), and dissemination area(s) links were generated.

Step 2. Assign 2001 enumeration area, then 2001 dissemination area using 1996 links

Where a match could not be found through the automated address matching system, this step used the road name and 1996 Census enumeration area to link to a dissemination area and/or block. To reduce the multiple linkages from this correspondence step, the 2001 Census reported

postal code linkages to blocks were used for postal codes identified in both files. For postal codes not reported in the census, only dissemination area links could be established.

Step 3. Validate conversion results using 2001 Census data

The relationship between the postal code and dissemination areas from the 2001 Census was used to confirm postal code to dissemination area linkages created through the automated Steps 1 and 2 above. Postal codes reported in the census do not represent the entire universe of postal codes. Also, the postal codes reported in the census may represent a location other than that of a respondent's usual place of residence, such as work place or post office box. Despite these limitations, the 2001 Census reported postal codes were considered to be a valuable source for the validation of postal code to dissemination area linkages on the PCCF.

There were 681,528 postal code to dissemination area linkages on the PCCF confirmed by the 2001 Census data.

Postal code to dissemination area linkages obtained in Steps 1 and 2 but not confirmed by the census data were judged valid if the postal code:

was linked to a block-face

had a business delivery mode type

to dissemination area link represented the location of a post office.

Also, even if the postal code was not reported in the census, it was accepted, since census reported postal codes are not the entire universe of postal codes.

Step 4. Assign the single link indicator (SLI)

Many postal codes are represented by multiple records on the PCCF. This can become problematic for some applications and therefore a flag identifying a single link for each postal code has been created. The single link indicator (SLI) has the value "1" to flag the best (or only) link for a given postal code. The value "0" indicates an additional record.

It should also be noted that the SLI is identified on both active and retired postal codes. Users will find when working with both active and retired postal codes that multiple SLIs will appear for a postal code that has been retired and rebirthed.

When assigning the SLI, priority is given to postal codes that are associated with civic addresses. This means that the SLI is assigned to the geographic area with the highest dwelling count associated with the postal code record that has the lowest PCtype (see *Section 5.2 PCCF Record layout and data descriptions*). Where the postal code is associated with a block-face, the dwelling count is determined based on CPC address ranges. For each address range associated with a block-face, the low address is subtracted from the high address to determine the dwelling count. In cases where the postal code cannot be linked to the block-face, the postal code is linked to blocks or dissemination areas. For these situations, the 2001 Census dwelling count for that geographic unit is used to assign the dwelling count for the postal code record. For each postal code, the record with the lowest PCtype and highest dwelling count is given an SLI="1"

Users should be cautioned that by using the single link indicator, only a partial correspondence between the postal code and other geographic areas is achieved.

Step 5. Assign higher levels of geography

Higher levels of geography are assigned based on the block-face, block, or dissemination area.

4.1.2 Ongoing maintenance

4.1.2.1 Sources

The sources used to keep up with ongoing postal code updates are:

CPC Address look-up file and auxiliary files

Statistics Canada NGB

2001 Census collection maps

maps provided by other sources (e.g. municipalities)

contact with local authorities.

4.1.2.2 Process

In addressable areas covered by the NGB, an attempt is made to link postal codes to one or more block-faces. The list of new postal codes and address range records from CPC is matched to the NGB street listings according to elements common to both files, e.g. province, municipality, street name, type, direction, and address range. Once matched, the postal code, province code, dissemination area code, and block or block-face representative points are transferred to the postal code data base.

For those postal codes that cannot be coded by the above method, municipal maps are used to find the street(s). When a street is found, the same street is located on a 2001 Census collection map and the address range from Canada Post is then used to link to the 2001 Census geography for that postal code.

If a street cannot be found on a municipal map, local authorities (such as Planning and Engineering Departments and local post offices) are contacted to assist in the location of the street. In areas experiencing growth, new maps are requested from the proper authority. After the street is located, 2001 Census collection maps are used to determine the dissemination area.

A rural postal code denotes an area serviced by rural route delivery from a post office or postal station. A zero (0) in the second position of the postal code typically identifies a rural postal code. Such a postal code can cross several geographic area boundaries. The 2001 Census collection documents are used to help determine these service areas.

In some cases, the ultimate destination of mail delivery is not the same as the pick-up point. For example, postal codes may be associated with post office boxes at a postal station. In these cases, the geographic link for the postal code provided by the PCCF identifies the location of the post office rather than the residential, industrial or commercial location of the client renting a post office box.

4.2 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 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 geographic coordinates assigned to postal codes are those of either block-face, block or dissemination area representative points calculated for census purposes. Therefore, the positional accuracy of the postal code is dependent on:

the accuracy of the links established between the postal code and the block-face, block, or dissemination area

the positional accuracy of the block-face, block, or dissemination area representative point with respect to the block-face, block, or dissemination area.

The different methods used to create linkages on the PCCF result in varying degrees of accuracy for those linkages. Postal codes linked to block-faces are considered to be the most accurate, as they have been linked as closely as possible with the address ranges representing the location of the postal code according to CPC. Where the block-face link could not be produced, postal codes have been linked to a block or dissemination area.

There is no further measurement of data quality available to describe the accuracy of the linkages.

No measurements of positional accuracy of the representative points were made. Positional accuracy is presented here in terms of descriptive statements.

The geographic coordinates included on the PCCF are derived from Statistics Canada's NGB. Users should be aware that absolute positional accuracy is not an intended feature of the NGB. Consequently, these files and any by-product are not recommended for engineering or legal applications or for emergency dispatching services.

For more information on the method used to calculate representative points for block-faces, blocks and dissemination areas, refer to *Appendix C Representative Points*, on page 33.

4.3 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, census subdivision name and code).

The PCCF is a flat file giving attributes for postal codes and for the dissemination area(s), block(s), etc. linked to the postal code. Most of these attributes are taken from two independent sources. Some attributes were also created for the PCCF.

The geographic code, type and name of all higher level standard geographic areas in which the block is located are extracted from the ORACLE tables of the dissemination base maintained by Statistics Canada. The quality of the data obtained from this base is a direct result of its quality.

The information relevant to each postal code – birth date, retirement date, delivery mode type, type of postal code and CPC community name – is carried forward from the CPC address look-up file and auxiliary files. In some cases, the postal code type was imputed by Statistics Canada (see *Section 5 Technical Specifications* on page 17.)

The single link indicator (see *Section 4.1.1.2 Process* on page 12) and the type of representative point were assigned by Statistics Canada. No measure of accuracy was made for these fields.

4.4 Logical consistency

Describes the fidelity of relationships encoded in the data structure of the digital linkage data.

In some cases, especially in rural areas, the postal code service areas do not respect dissemination area boundaries. When this occurs, the same postal code will be repeated with different geographical information (i.e. different coordinates or dissemination area codes). These multiple records for a postal code reflect the relationship between the postal code and census geographic areas. Also, a postal code can be linked to more than one block-face or block within the same dissemination area.

Conversely, different postal codes could have the same coordinates. This happens where more than one postal code has been linked to the same dissemination area. Also, more than one postal code can be linked to a single block-face or block.

A verification of the PCCF has revealed a few additional, unnecessary DPL linkages. A list of these linkages is available.

4.5 Consistency with other products

Data contained on the PCCF are consistent with all 2001 Census related geographic products with the exception of the 2001 Census Forward Sortation Areas Boundary File (Catalogue No. 92F0170XCE) which represent only the FSAs reported in the 2001 Census and valid as of May 2001. The PCCF provides all postal codes (both active and retired) and is updated twice a year to include recent postal codes.

4.6 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.

Completeness in the context of the PCCF is the degree to which all valid postal codes are accounted for on the PCCF and all geographic codes from the 2001 Census are linked to a postal code. All postal codes as of September 2006 according to CPC, have been linked to census geography. There are 1,240 populated dissemination areas that are not linked to any postal code on the PCCF. Of the DAs that are linked to a postal code, there are 185 populated dissemination areas that are not linked to any *active* postal code on the PCCF.

5 Technical specifications

5.1 File specifications

The current version of the PCCF includes five files: the Postal Code Conversion file and four names files (CD.dat, FED96.dat, FED03.dat, SAC.dat). These are ASCII files and do not include any software or instructions on how to use the product within specific Geographical Information Systems (GIS) or mapping packages.

5.2 PCCF Record layout and data descriptions

Record layout

Position	Size	Type[1]	Field Name	Description
1	6	C	Postal Code	Postal code
7	3	C	FSA	Forward sortation area
10	8	C	DAuid	Dissemination area unique identifier[2]
18	2	C	Block	Block
20	9	N	Lat	Latitude
29	11	N	Long	Longitude
40	1	C	SLI	Single link indicator
41	2	C	PR	Province/territory code
43	4	C	CDuid	Census division unique identifier
47	3	C	CSD	Census subdivision code
50	70	C	CSDname	Census subdivision name
120	3	C	CSDtype	Census subdivision type
123	3	C	CCS	Census consolidated subdivision code
126	3	C	SAC	Statistical area classification code (includes CMA/CA)
129	1	C	SACtype	Statistical area classification type (includes CMA/CA)
130	7	C	CTname	Census tract name
137	2	C	ER	Economic region code
139	4	C	DPL	Designated place code
143	5	C	FED96uid	Federal electoral district – 1996 Representation Order unique identifier
148	4	C	UARA	Urban areas rural areas code
152	1	C	UARAtype	Urban areas rural areas type
153	1	C	Rep_Point	Representative point
154	1	C	PCtype	Postal code type
155	30	C	Comm_Name	Community name
185	1	C	DMT	Delivery mode type
186	1	C	H_DMT	Historic delivery mode type
187	8	C	Birth_Date	Birth date
195	8	C	Ret_Date	Retired date
203	5	C	FED03uid	Federal electoral district – 2003 Representation Order unique identifier

1. The Type “N” refers to numeric values while “C” refers to both alphabetic and numeric characters.
2. A unique identifier is the code that can be used to uniquely identify a geographic area.

Postal Code

The Canadian postal code offers a unique reference system which provides a means of identifying a mail delivery location. It is composed of six characters, in the form of "ANA NAN", where "A" represents a letter of the alphabet and "N" a number. Refer to *Appendix B Postal Code Structure* on page 32 for more information about postal codes.

FSA

The Forward Sortation Area is first three characters of the postal code and represents a set of well defined stable areas within a major geographical region or province/territory of Canada.

DAuid

The DAuid uniquely identifies a dissemination area. It is composed of the two digit province/territory code, the two digit census division code and the four digit dissemination area code.

Block

This is an area equivalent to a city block bounded by intersecting streets. These areas cover all of Canada. This code should be combined with the DAuid to uniquely identify the block within the country. This field will be "00" for postal codes linked to dissemination area only (Rep_Point = 3).

Lat

Latitude, in decimal degrees, of the dissemination area, block, or block-face representative point. The decimal point is explicit.

Long

Longitude, in decimal degrees, of the dissemination area, block, or block-face representative point. The decimal point is explicit.

SLI

The single link indicator can be used to establish a one-to-one relationship between postal codes and dissemination areas, blocks, or block-faces.

1	the best or only record for the postal code
0	an additional record for the postal code

PR

The PR uniquely identifies provinces and territories.

10	Newfoundland and Labrador
11	Prince Edward Island
12	Nova Scotia
13	New Brunswick
24	Quebec
35	Ontario
46	Manitoba
47	Saskatchewan
48	Alberta
59	British Columbia
60	Yukon Territory
61	Northwest Territories
62	Nunavut

CDuid

This uniquely identifies a census division. The first two digits of the CDuid identify the province or territory (PR). Census division names are found in the Census Division Names file (CD.dat).

CSD

This identifies a census subdivision (municipality) within a census division. This code should be combined with the census division unique identifier (CDuid) to uniquely identify a census subdivision in the country. The province/territory, census division, and census subdivision (municipality) codes represent the 2001 Standard Geographical Classification (SGC).

CSDname

This contains the name of the census subdivision (municipality) in effect as of 2001 January 1.

CSDtype

This field provides abbreviations used to identify the census subdivision (municipality) type. See Appendix *D CSD Types by Province and Territory, 2001 Census, as of March 2002* on page 35 for the complete list.

CCS

This identifies a census consolidated subdivision within a census division. It should be combined with the CDuid to uniquely identify a census consolidated subdivision in the country.

SAC

The statistical area classification groups census subdivisions according to whether they are a component of a census metropolitan area (CMA), a census agglomeration (CA), a census metropolitan area and census agglomeration influenced zone (strong MIZ, moderate MIZ, weak MIZ or no MIZ), or the territories (Northwest Territories, Nunavut and Yukon Territory).

000	Territories
001-995	CMA/CA unique identifier
996	Strongly influenced zone
997	Moderately influenced zone
998	Weakly influenced zone
999	No influenced zone

SACtype

This identifies the type of statistical area classification in which the census subdivision is located.

1	Census metropolitan area
2	Tracted census agglomeration
3	Non-tracted census agglomeration
4	Strongly influenced zone
5	Moderately influenced zone
6	Weakly influenced zone
7	No influenced zone
8	Territories

CTname

This uniquely identifies a census tract within a CMA/CA. This field must be combined with the CMA/CA code to uniquely identify a census tract.

Non-tracted areas outside a CMA/CA are assigned a four-digit code that is a concatenation of “99” plus the two-digit province/territory code. For example, records in areas outside of a CMA/CA in Nova Scotia are assigned a CTname of “9912”.

ER

This identifies an economic region within a province/territory. This field must be combined with the province/territory code to uniquely identify an economic region. Economic region replaces the term “subprovincial region”.

DPL

This identifies a designated place within a province/territory. This field must be combined with the province/territory code to uniquely identify a designated place.

Areas which are not a designated place are assigned a four-digit code that is a concatenation of “99” plus the two-digit province/territory code. For example, records in areas outside of a DPL in New Brunswick are assigned a DPL of “9913”.

FED96uid

This uniquely identifies a federal electoral district – 1996 Representation Order. The first two digits of the FED96uid identify the province or territory (PR). Corresponding names are found in the 1996 Federal Electoral District Names file (FED96.dat).

UARA

Urban area codes are unique four-digit codes that are assigned sequentially upon the UA creation. These codes remain constant between censuses. If an urban area is retired due to amalgamation or failure to meet the population or density thresholds, then its code is retired.

Rural area codes are unique four-digit codes which are a concatenation of “99” plus the two-digit province/territory code. For example, records in rural areas in Manitoba are assigned “9946”.

This field will be “0000” for postal codes linked to dissemination area only (Rep_Point = 3).

UARAtype

For urban areas, the type code indicates the relationship of the urban area to the CMA/CA structure.

1	Urban core
2	Urban fringe
3	Rural fringe inside CMA/CAs
4	Urban areas outside CMA/CAs
5	Rural fringe outside CMA/CAs
6	Secondary urban core

This field will be “0” for postal codes linked to dissemination areas only (Rep_Point = 3).

Rep_Point

This identifies whether the record uses a block-face, block or dissemination area representative point as the coordinate.

Code	Type	Records
1	Block-face	828,113
2	Block	1,012,454
3	Dissemination area	104,074

PCtype

This indicates the type of addresses used to identify the points of call served by the postal code. This field was introduced by CPC some time after the creation of the original PCCF. Where possible, a value has been imputed by Statistics Canada for retired postal codes using historical address information and delivery mode type.

1	Street address with letter carrier service
2	Street address with route service
3	Post office box
4	Route service
5	General delivery
0	Unknown

Comm_Name

The community name, as defined by CPC, denotes any city, town or village in Canada that is recognised as a valid mailing address.

DMT

This is the delivery mode type as defined by CPC. A postal code can be assigned more than one DMT. Note that Statistics Canada assigns a DMT of "W" to rural postal codes, which are left blank by CPC.

DMT	Description	Postal codes	Records
A	Delivery to block-face address	750,383	1,247,239
B	Delivery to an apartment building	19,234	25,771
E	Delivery to a business building	9,736	23,317
G	Delivery to a large volume receiver	8,600	21,916
H	Delivery via a rural route	934	45,505
J	General delivery	640	1,666
K	Delivery to a post office box (not a CMB)	7,393	20,557
M	Delivery to a large volume receiver (post office box)	5,465	14,300
T	Delivery via a suburban service	76	987
W	Rural postal codes (the second digit of the postal code is "0")	5,216	319,071
X	Delivery via a mobile route	1	32
Z	Postal code is retired (no further delivery to this code)	60,055	224,280
	Total	867,733	1,944,641

H_DMT

The historic delivery mode retains the previous delivery mode type value, if known. If the previous DMT is not known, it contains the current DMT.

Birth_Date

This is the date (yyyymmdd) when the postal code became effective. All postal codes created before April 1983 were given a birth date of 19830401.

Ret_Date

This is the date (yyyymmdd) when a postal code retired. All postal codes retired before April 1983 have 19830401 as the retirement date. Users should note that some postal codes have been retired and re-introduced at a later date. Active postal codes have a retirement date of 19000001.

FED03uid

This uniquely identifies a federal electoral district – 2003 Representation Order. The first two digits of the FED03uid identify the province or territory (PR). Corresponding names are found in the 2003 Federal Electoral District Names file (FED03.dat).

5.3 Name files record layouts

To reduce the size of the PCCF, names for the Census Divisions, Statistical Area Classifications, Federal Electoral Districts – 1996 Representation Order, Federal Electoral Districts – 2003 Representation Order, are shown in the following individual name files.

Census divisions (CD.dat)

Position	Size	Type	Field Name	Description
1	4	C	CDuid	Census division unique identifier
5	100	C	CDname	Census division name

Statistical Area Classifications (SAC.dat)

Position	Size	Type	Field Name	Description
1	3	C	SAC	Statistical area classification unique identifier
4	100	C	SACname	Statistical area classification name

Federal electoral districts — 1996 representation order (FED96.dat)

Position	Size	Type	Field Name	Description
1	5	C	FED96uid	Federal electoral district – 1996 Representation Order unique identifier
6	100	C	EFED96name	Federal electoral district – 1996 Representation Order name

Federal electoral districts — 2003 representation order (FED03.dat)

Position	Size	Type	Field Name	Description
1	5	C	FED03uid	Federal electoral district – 2003 Representation Order unique identifier
6	100	C	EFED03name	Federal electoral district – 2003 Representation Order name

Glossary

Adjusted counts
Adjusted counts refer to previous census population and dwelling counts that have been adjusted (i.e. recompiled) to reflect current census boundaries (such as when a boundary change occurs between two censuses).

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.

Block-face
A block-face is one side of a street between two consecutive features intersecting that street. The features can be other streets, boundaries of standard geographic areas, or limits of map tiles. Block-faces are used for generating block-face representative points, which in turn are used for geocoding and census data extraction when the street and address information is available.

Cartographic boundary files
Cartographic boundary files (CBF) contain boundaries of standard geographic areas, along with shorelines and lakes, at a level of detail appropriate for small-scale mapping.

Census agricultural region
Census agricultural regions (CAR) are composed of groups of adjacent census divisions. In Saskatchewan, census agricultural regions are made up of groups of adjacent census consolidated subdivisions, but these groups do not necessarily respect census division boundaries.

Census consolidated subdivision
A census consolidated subdivision (CCS) is a grouping of adjacent census subdivisions. Generally, the smaller, more urban census subdivisions (towns, villages, etc.) are combined with the surrounding larger, more rural census subdivision, in order to create a geographic level between the census subdivision and the census division.

Census division
Census division (CD) is the general term for provincially legislated areas (such as county, municipalité régionale de comté, and regional district) or their equivalents. Census divisions are intermediate geographic areas between the province level and the municipality (census subdivision).

Census metropolitan area and census agglomeration
A census metropolitan area (CMA) or a census agglomeration (CA) is formed by one or more adjacent municipalities centred on a large urban area (known as the urban core). The census population count of the urban core must be at least 10,000 to form a census agglomeration and at least 100,000 to form a census metropolitan area. To be included in the CMA or CA, other adjacent municipalities must have a high degree of integration with the central urban area, as measured by commuting flows derived from census place of work data.

If the population of the urban core of a CA declines below 10,000, the CA is retired. However, once an area becomes a CMA, it is retained as a CMA even if the population of its urban core population declines below 100,000. The urban areas that are located in the CMA or CA but are not contiguous to the urban core are called the *urban fringe*. Rural areas in the CMA or CA are called the *rural fringe*.

When a CA has an urban core of at least 50,000 based on census counts, it is subdivided into *census tracts*. Census tracts are maintained for the CA even if the population of the urban core subsequently falls below 50,000. All CMAs are subdivided into census tracts.

Census metropolitan area and census agglomeration influenced zone
The census metropolitan area and census agglomeration influenced zone (MIZ) is a concept that geographically differentiates the area of Canada outside census metropolitan areas (CMAs) and census agglomerations (CAs). Census subdivisions outside CMAs and CAs are assigned to one of four categories according to the degree of influence (strong, moderate, weak or no influence) that the CMAs and/or CAs have on them.

Census subdivisions (CSDs) are assigned to a MIZ category based on the percentage of their resident employed labour force that has a place of work in the urban core(s) of CMAs or CAs. CSDs with the same degree of influence tend to be clustered. The zones they form around CMAs and CAs progress through the categories from “strong” to “no” influence as distance from the CMAs and CAs increases.

Census subdivision
Census subdivision (CSD) is the general term for municipalities (as determined by provincial legislation) or areas deemed to be their equivalents (for example, Indian reserves, Indian settlements, and unorganized territories) used for statistical reporting purposes.

Census tract
Census tracts (CTs) are small, relatively stable geographic areas that usually have a population of 2,500 to 8,000. They are located in census metropolitan areas (CMAs) and in census agglomerations (CAs) with an urban core population of 50,000 or more in the previous census.

A committee of local specialists (for example, planners, educators, and health and social workers) initially delineates CTs in conjunction with Statistics Canada. Once a CMA or CA has been subdivided into census tracts, the census tracts are maintained even if the urban core population subsequently declines below 50,000.

Coordinate system
A coordinate system is a reference system based on mathematical rules for specifying positions (locations) on the surface of the earth. The coordinate values can be spherical (latitude and longitude) or planar (such as the Universal Transverse Mercator).

The Cartographic Boundary Files, the Road Network Files and the representative points are disseminated in latitude/longitude coordinates.

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).

Designated place
A designated place (DPL) is normally a small community or settlement that does not meet the criteria established by Statistics Canada to be a census subdivision (an area with municipal status) or an urban area.

Designated places are created by provinces and territories, in cooperation with Statistics Canada, to provide data for submunicipal areas.

Dissemination area
The dissemination area (DA) is a small, relatively stable geographic unit composed of one or more blocks. It is the smallest standard geographic area for which all census data are disseminated. DAs cover all the territory of Canada.

Economic region
An economic region (ER) is a grouping of complete census divisions (with one exception in Ontario) created as a standard geographic unit for analysis of regional economic activity.

Ecumene
Ecumene is a term used by geographers to mean inhabited land. It generally refers to land where people have made their permanent home, and to all work areas that are considered occupied and used for agricultural or any other economic purposes. Thus, there can be various types of ecumenes, each having its own unique characteristics (population ecumene, agricultural ecumene, industrial ecumene, etc.).

Enumeration area
An enumeration area (EA) is the geographic area canvassed by one census representative. An EA is composed of one or more adjacent blocks. EAs cover all the territory of Canada.

Enumeration areas are only used for census data collection. The dissemination area (DA) replaces the EA as a basic unit for dissemination.

Federal electoral district
A federal electoral district (FED) is an area represented by a member of the House of Commons. The federal electoral district boundaries used for the 2001 Census are based on the 1996 Representation Order. New federal electoral district boundaries have been created based on the 2003 Representation Order.

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 for the purpose of finalizing the geographic framework for which census data will be collected, tabulated and reported. For the 2001 Census, the geographic reference date is January 1, 2001.

Land area
Land area is the area in square kilometres of the land-based portions of standard geographic areas.

The land area measurements are unofficial and are provided for the sole purpose of calculating population density.

Linkage data quality elements
Linkage data quality elements provide information on the fitness-for-use of a linkage 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 linkage data products disseminated for the census.

Locality
Locality (LOC) refers to the historical place names of former census subdivisions (municipalities), former designated places and former urban areas, as well as to the names of other entities, such as neighbourhoods, post offices, communities and unincorporated places.

Map projection
A map projection is the process of transforming and representing positions from the earth's three-dimensional 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 new 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.

Place name
Place name (PN) refers to the set of names that includes current census subdivisions (municipalities), current designated places and current urban areas, as well as the names of localities.

Population density
Population density is the number of persons per square kilometre.

Postal code
The postal code is a six character code defined and maintained by CPC for the purpose of sorting and delivering mail.

Province or territory
Province and territory refer to the major political units of Canada. From a statistical point of view, province and territory are basic areas for which data are tabulated. Canada is divided into ten provinces and three territories.

Reference map
A reference map shows 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.

Representative point
A representative point is a single point that represents a linear or areal feature. The point is centrally located along the linear feature or centrally within the areal feature.

Representative points are generated for block-faces, blocks, enumeration areas, dissemination areas, census subdivisions and designated places. The block-face and block representative points support the geocoding of households and postal codes.

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.

Rural area
Rural areas include all territory lying outside urban areas. Taken together, urban and rural areas cover all of Canada.

Rural population includes all population living in the rural fringes of census metropolitan areas (CMAs) and census agglomerations (CAs), as well as population living in rural areas outside CMAs and CAs.

Standard Geographical Classification
The Standard Geographical Classification (SGC) is Statistics Canada's official classification for three types of geographic areas: provinces and territories, census divisions (CDs) and census subdivisions (CSDs). The SGC provides unique numeric identification (codes) for these hierarchically related geographic areas.

Statistical Area Classification
The Statistical Area Classification (SAC) groups census subdivisions according to whether they are a component of a census metropolitan area, a census agglomeration, a census metropolitan area and census agglomeration influenced zone (strong MIZ, moderate MIZ, weak MIZ or no MIZ), or the territories (Northwest Territories, Yukon Territory, and Nunavut). The SAC is used for data dissemination purposes.

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).

Urban area
An urban area (UA) has a minimum population concentration of 1,000 persons and a population density of at least 400 persons per square kilometre, based on the current census population count. All territory outside urban areas is classified as rural. Taken together, urban and rural areas cover all of Canada.

Urban population includes all population living in the urban cores, secondary urban cores and urban fringes of census metropolitan areas (CMAs) and census agglomerations (CAs), as well as the population living in urban areas outside CMAs and CAs.

Urban core, urban fringe and rural fringe
Urban core, urban fringe and rural fringe distinguish between central and peripheral urban and rural areas within a census metropolitan area (CMA) or census agglomeration (CA).

Urban core is a large urban area around which a CMA or a CA is delineated. The urban core must have a population (based on the previous census) of at least 100,000 persons in the case of a CMA, or between 10,000 and 99,999 persons in the case of a CA.

Urban fringe includes all small urban areas (with less than 10,000 population) that are located within a CMA or CA but are not contiguous with the urban core of the CMA or CA.

Rural fringe comprises all territory that is located within a CMA or CA but is not classified as an urban core or an urban fringe.

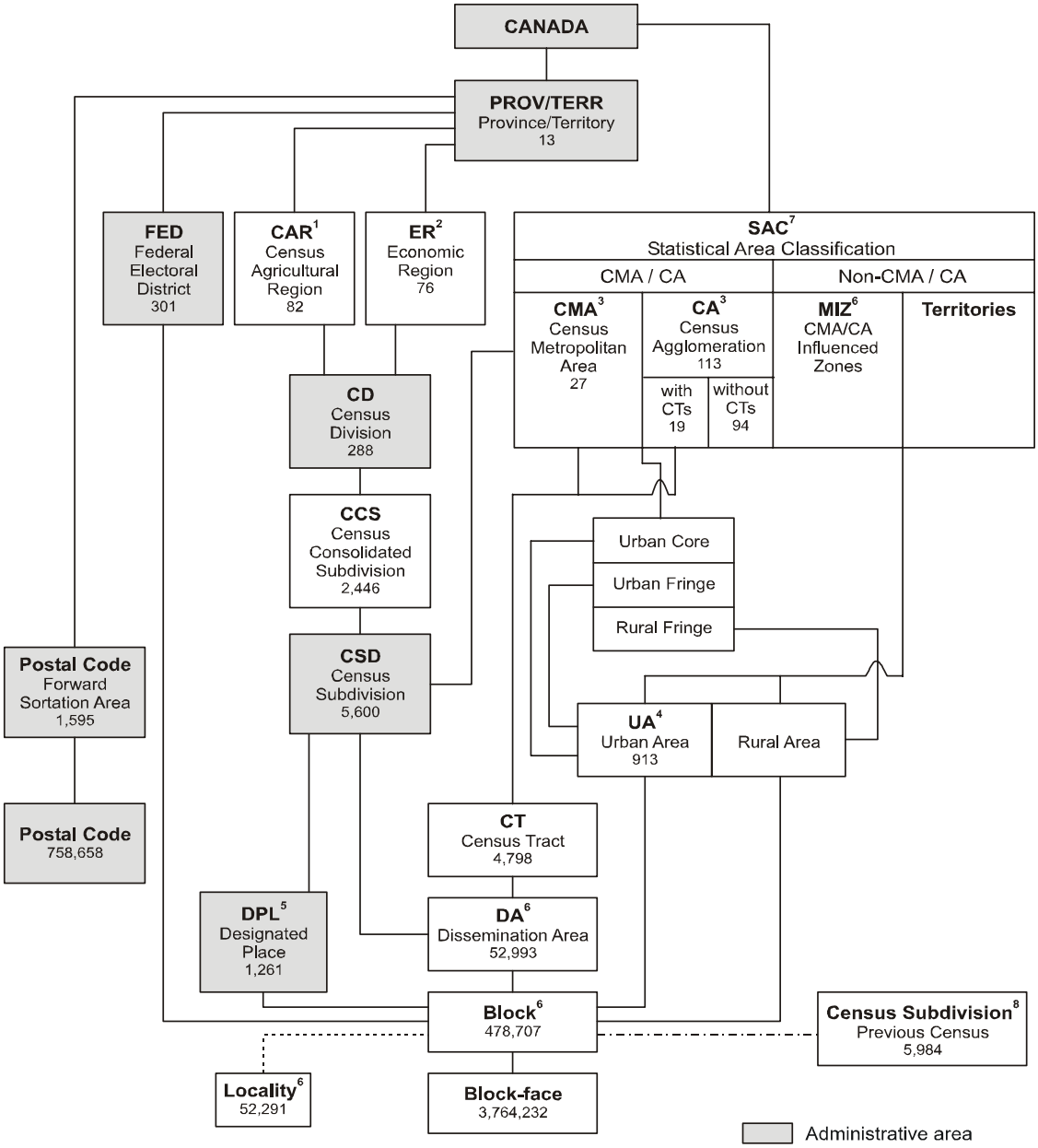
Urban population size group

Urban population size group refers to the classification used in standard tabulations where urban areas are distributed according to the following predetermined size groups, based on the current census population.

1,000	to	2,499
2,500	to	4,999
5,000	to	9,999
10,000	to	24,999
25,000	to	49,999
50,000	to	99,999
100,000	to	249,999
250,000	to	499,999
500,000	to	999,999
1,000,000	and over	

Tabulations are not limited to these predetermined population size groups; the census database has the capability of tabulating data according to any user-defined population size group.

Appendix A Hierarchy of standard geographic units, 2001 Census, *as of April 2002*



1. Census agricultural regions in Saskatchewan are composed of census consolidated subdivisions.
2. Economic regions in Ontario are composed of municipalities (census subdivisions).
3. One CMA and four CAs cross provincial boundaries.
4. Five UAs cross provincial boundaries.
5. Designated places do not cover the total area of CSDs. Eighty-four DPLs cross CSD boundaries, of which 12 also cross CD boundaries.
6. Census **m**etropolitan area and census agglomeration **i**nfluenced **z**ones (MIZ), dissemination area, block, and locality are new concepts for the 2001 Census.
7. The Statistical Area Classification (SAC) is a new geographic classification that allocates each CSD according to whether it is a component of a CMA, CA, a census metropolitan area and census agglomeration influenced zone (MIZ), or the territories outside the CAs of Whitehorse and Yellowknife.
8. For the 2001 Census only, a best fit linkage is created between the 1996 CSDs and 2001 blocks to facilitate historical data retrieval. See the definition of Census Subdivision – Previous Census.

Appendix B Postal code structure

The postal code is an alpha-numeric combination of six characters describing the destination of each item of mail addressed in Canada. The characters are arranged in the form “ANA NAN” where “A” represents an alphabetic character and “N” represents a numeric character (e.g. K1A 0T6). The postal code uses 20 alphabetic characters and 10 numeric characters. Six alphabetic characters, D, F, I, O, Q, and U, are not in use at the present time.

The first character of a postal code is allocated in alphabetic sequence from east to west across Canada and denotes a province, territory, or a major sector found entirely within the boundaries of a province.

Province/territory/region	Postal code first character
Newfoundland and Labrador	A
Nova Scotia	B
Prince Edward Island	C
New Brunswick	E
Quebec East	G
Montreal Metropolitan	H
Quebec West	J
Eastern Ontario	K
Central Ontario	L
Toronto	M
South-western Ontario	N
Northern Ontario	P
Manitoba	R
Saskatchewan	S
Alberta	T
British Columbia	V
Northwest Territories and Nunavut	X
Yukon Territory	Y

In the PCCF there are 22 postal codes that are linked to a different province from their first character allocation. The counts of postal codes given by province/territory in the table on Page 10 were generated by grouping all of the postal codes by the first letter of the FSA, and only counting those with a single link indicator (SLI) set to 1.

The first three characters of the postal code (“ANA”) represent a set of well-defined and stable areas known as Forward Sortation Areas (FSAs). The FSA represents a specific area within a major geographical region or province/territory. As of September 2006, there were 1,626 FSAs in use across Canada. There were 1,443 FSAs with urban mail delivery service and only 183 with rural mail delivery service. Rural postal codes are identifiable by the presence of a zero (0) in the second position of the FSA code. Urban postal codes are composed of FSAs with numerals 1 to 9 in the second position of the code.

The last three characters of the postal code (“NAN”) identify routes known as local delivery units (LDUs). In urban areas, a single postal code can correspond to the following types of LDU:

- a block-face (one side of a city street between consecutive intersections)
- a community mailbox (commonly called super mailboxes)
- an apartment building

a business building
a large firm/organisation that does considerable business with CPC
a federal government department, agency or branch
a mail delivery route (rural, suburban or mobile)
general delivery at a specific post office
one or more post office boxes.

In new urban growth areas, postal codes are now linked to community mailboxes. A community mailbox postal code can service both odd and even sides of the same street, or different streets, within a 200 metre radius of the community mailbox.

In rural FSAs, the LDU generally refers to services which originate from a post office or postal station. These include rural routes, general deliveries, Post Office boxes, and suburban services. Often, in rural FSAs, the postal code identifies a specific rural community.

Appendix C Representative points

A representative point is a single point that represents a linear or areal feature. The point is centrally located along the linear feature or centrally within the areal feature.

Representative points are generated for block-faces, blocks, dissemination areas, census subdivisions and designated places. The block-face and block representative points support the geocoding of households and postal codes.

Representative points are located by the following methods using the NGB:

Block-face representative points

Block-face representative points are computed along addressable and non-addressable streets, midway (or approximately midway) between two consecutive features intersecting a street. The features can be other streets, boundaries of standard geographic areas, or limits of map tiles.

The points are set back a perpendicular distance of either 10, 5, or 1 metre(s) from the street centre line to ensure that all points have unique coordinates, and are located in the correct block and on the correct side of the street.

Geographic area representative points

The representative points for blocks, dissemination areas (DAs), census subdivisions (CSDs), and designated places (DPLs) are created using the Arc/Info® GIS software, which locates the point suitable for label or symbol placement in each polygon. Representative points are also generated for all DPL parts (i.e. DPLs that straddle CSDs). If a block, DA or CSD is in multiple parts, the point is located in the portion having the largest area.

The representative points for blocks, dissemination areas, census subdivisions and designated places are guaranteed to fall within the appropriate geographic area using an automated topology check. Some block-face, block, dissemination area, census subdivision, and designated place representative points may fall in NGB water bodies.

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

Representative points can also be used for data retrieval, data analysis and mapping. All representative points are calculated based on the x,y coordinates of the Lambert Conformal Conic map projection, but are disseminated in latitude/longitude coordinates.

Appendix D CSD types by province and territory, 2001 Census, *as of March 2002*

CSD Type		Total 5,600	N.L. 381	P.E.I. 113	N.S. 98	N.B. 275	Que. 1,476	Ont. 586	Man. 298	Sask. 1,002	Alta. 452	B.C. 816	Y.T. 35	N.W.T. 37	Nvt. 31
C	City – Cité	148	3	2	...	7	2	51	8	14	15	44	1	1	...
CC	Chartered Community	2	...	...	...	...	...	...	...	...	...	...	...	2	...
CM	County (Municipality)	28	...	...	...	...	...	...	...	...	28	...	...	...	...
COM	Community	33	...	33	...	...	...	...	...	...	...	...	...	...	...
CT	Canton (Municipalité de)	66	...	...	...	...	66	...	...	...	...	...	...	...	...
CU	Cantons unis (Municipalité de)	7	...	...	...	...	7	...	...	...	...	...	...	...	...
DM	District Municipality	53	...	...	...	...	...	...	...	...	...	53	...	...	...
HAM	Hamlet	36	...	...	...	...	...	...	...	...	...	...	2	10	24
ID	Improvement District	8	...	...	...	...	...	...	...	...	8	...	...	...	...
IGD	Indian Government District	2	...	...	...	...	...	...	...	...	...	2	...	...	...
IM	Island Municipality	1	...	...	...	...	...	...	...	...	...	1	...	...	...
LGD	Local Government District	2	...	...	...	...	...	...	2	...	...	...	...	...	...
LOT	Township and Royalty	67	...	67	...	...	...	...	...	...	...	...	...	...	...
M	Municipalité	590	...	...	...	...	590	...	...	...	...	...	...	...	...
MD	Municipal District	48	...	...	12	...	...	...	...	...	36	...	...	...	...
NH	Northern Hamlet	9	...	...	...	...	...	...	...	9	...	...	...	...	...
NL	Nisga'a Land	1	...	...	...	...	...	...	...	...	...	1	...	...	...
NV	Northern Village	13	...	...	...	...	...	...	...	13	...	...	...	...	...
NVL	Nisga'a Village	5	...	...	...	...	...	...	...	...	...	5	...	...	...
P	Paroisse (Municipalité de)	265	...	...	...	...	265	...	...	...	...	...	...	...	...
PAR	Parish	152	...	...	...	152	...	...	...	...	...	...	...	...	...
R	Indian Reserve – Réserve indienne	1,047	1	4	24	19	31	145	78	169	88	487	4	2	...
RC	Rural Community	1	...	...	...	1	...	...	...	...	...	...	...	...	...
RDA	Regional District Electoral Area	165	...	...	...	...	...	...	...	...	...	165	...	...	...
RG	Region	1	1	...	...	...	...	...	...	...	...	...	...	...	...
RGM	Regional Municipality	4	...	...	3	...	...	...	...	...	1	...	...	...	...
RM	Rural Municipality	417	...	...	...	...	...	...	120	297	...	...	...	...	...
RV	Resort Village	43	...	...	...	...	...	...	...	43	...	...	...	...	...
S-E	Indian Settlement – Établissement indien	28	...	...	...	...	5	6	4	1	4	3	5	...	...
SA	Special Area	3	...	...	...	...	...	...	...	...	3	...	...	...	...
SCM	Subdivision of County Municipality	28	...	...	28	...	...	...	...	...	...	...	...	...	...
SET	Settlement	31	...	...	...	...	...	...	...	...	...	...	13	15	3
SM	Specialized Municipality	2	...	...	...	...	...	...	...	...	2	...	...	...	...
SUN	Subdivision of Unorganized	90	90	...	...	...	...	...	...	...	...	...	...	...	...

Appendix D SD types by province and territory, 2001 Census, as of March 2002 – continued

CSD Type		Total 5,600	N.L. 381	P.E.I. 113	N.S. 98	N.B. 275	Que. 1,476	Ont. 586	Man. 298	Sask. 1,002	Alta. 452	B.C. 816	Y.T. 35	N.W.T. 37	Nvt. 31
SV	Summer Village	52	...	...	...	...	...	...	...	...	52	...	...	...	...
T	Town	794	286	7	31	27	...	111	52	147	110	15	3	4	1
TI	Terre inuite	10	...	...	...	...	10	...	...	...	...	...	...	...	...
TL	Teslin Land	1	...	...	...	...	...	...	...	...	...	...	1	...	...
TP	Township	245	...	...	...	...	...	245	...	...	...	...	...	...	...
TR	Terres réservées	9	...	...	...	...	9	...	...	...	...	...	...	...	...
UNO	Unorganized – Non organise	147	...	...	...	...	110	17	11	2	...	...	2	2	3
V	Ville	271	...	...	...	...	271	...	...	...	...	...	...	...	...
VC	Village cri	8	...	...	...	...	8	...	...	...	...	...	...	...	...
VK	Village naskapi	1	...	...	...	...	1	...	...	...	...	...	...	...	...
VL	Village	647	...	...	...	69	87	11	23	307	105	40	4	1	...
VN	Village nordique	14	...	...	...	...	14	...	...	...	...	...	...	...	...

... not applicable

Appendix E Data file naming convention

The naming convention for PCCF files is bilingual and reflects the reference date of the CPC data used in the release.

Name Structure

data type / Provincial code / CPC version date / French translation

data type	pccf
provincial code	2 digit PR code
CPC version date	reference date of CPC postal code data
French translation	fccp

Data files in this release are:

National file

pccfNat_SEPT06_fccpNat.exe

Provincial / territorial files

pccf10_SEPT06_fccp10.exe
pccf11_SEPT06_fccp11.exe
pccf12_SEPT06_fccp12.exe
pccf13_SEPT06_fccp13.exe
pccf24_SEPT06_fccp24.exe
pccf35_SEPT06_fccp35.exe
pccf46_SEPT06_fccp46.exe
pccf47_SEPT06_fccp47.exe
pccf48_SEPT06_fccp48.exe
pccf59_SEPT06_fccp59.exe
pccf60_SEPT06_fccp60.exe
pccf61_SEPT06_fccp61.exe
pccf62_SEPT06_fccp62.exe

Appendix F References

McNiven, C., H. Puderer and D. Janes. 2000. *Census Metropolitan Area and Census Agglomeration Influence Zones (MIZ): A Description of the Methodology*. Geography Working Paper Series No. 2000-2. Geography Division. (Statistics Canada Catalogue No. 92F0138MIE). Ottawa: Minister responsible for Statistics Canada.

McNiven, C. and H. Puderer. 2000. *Delineation of Canada's North: An Examination of the North-South Relationship in Canada*. Geography Working Paper Series No. 2000-3. Geography Division. (Statistics Canada Catalogue No. 92F0138MIE). Ottawa: Minister responsible for Statistics Canada.

Mendelson, R. 2001. *Geographic Structures as Census Variables: Using Geography to Analyse Social and Economic Processes*. Working Paper Series No. 2001-1. Geography Division. (Statistics Canada Catalogue No. 92F0138MIE). Ottawa: Minister responsible for Statistics Canada.

Murphy, P. 2003. *Preliminary 2006 Census Metropolitan Area and Census Agglomeration Delineation*. Geography Working Paper Series No. 2003-002. Geography Division. (Statistics Canada Catalogue No. 92F0138MIE). Ottawa: Minister responsible for Statistics Canada.

Puderer, H. 2000. *Introducing the Dissemination Area for the 2001 Census*. Geography Working Paper Series No. 2000-4. Geography Division. (Statistics Canada Catalogue No. 92F0138MPE). Ottawa: Minister responsible for Statistics Canada.

Rambeau, S. and K. Todd. 2000. *Census Metropolitan Area and Census Agglomeration Influenced Zones (MIZ) with Census Data*. Geography Working Paper Series No. 2000-1. Geography Division. (Statistics Canada Catalogue No. 92F0138MIE). Ottawa: Minister responsible for Statistics Canada.

Statistics Canada. 2000. "Policy on Informing Users of Data Quality and Methodology." Approved March 31, 2000. *Policy Manual*. Ottawa: Minister responsible for Statistics Canada. http://dissemination.statcan.ca/english/concepts/inform.htm

———. 2002a. *2001 Census Dictionary*. 2001 Census of Canada. (Statistics Canada Catalogue No. 92-378-XPE). Ottawa: Minister responsible for Statistics Canada.

———. 2002b. *2001 Census Handbook*. 2001 Census of Canada. (Statistics Canada Catalogue No. 92-379-XPB). Ottawa: Minister responsible for Statistics Canada.

———. 2002c. *Population and Dwelling Counts*. 2001 Census of Canada. (Statistics Canada Catalogue No. 93-360-XPB). Ottawa: Minister responsible for Statistics Canada.

———. 2002d. *Standard Geographical Classification, Volume I*. 2001 Census of Canada. (Statistics Canada Catalogue No. 12-571-XPB). Ottawa: Minister responsible for Statistics Canada.

———. 2002e. *Standard Geographical Classification, Volume II*. 2001 Census of Canada. (Statistics Canada Catalogue No. 12-572-XPB). Ottawa: Minister responsible for Statistics Canada.

Weiss, C. and A. Akuoko-Asibey. 1998. *Automated Land Area Tests for the 2001 Census: Preliminary Results Using the 1996 Digital Cartographic Files*. Geography Working Paper Series No. 1998-1. Geography Division. (Statistics Canada Catalogue No. 92F0138MIE). Ottawa: Minister responsible for Statistics Canada.

Appendix G Geography products and services

This section provides brief descriptions of Geography products and services related to the 2001 Census. For additional details, contact us by e-mail or by visiting our Web site.

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

92F0172XCB Reference Maps – Complete Set, 2001 Census
92F0144XIB Census Divisions, 2001
92F0144XIB Economic Regions and Census Divisions, 2001
92F0144XIB Census Metropolitan Areas and Census Agglomerations, 2001
92F0144XIB Statistical Area Classification, 2001 Census Subdivisions
92F0152XPE Federal Electoral Districts (1996 Representation Order) Reference Map[1]

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

1. Inquiries concerning Federal Electoral District maps can be directed to Elections Canada (www.elections.ca or 1-800-463-6868)

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 civision, 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 2001 January 1.

92F0150XCB GeoSuite, 2001 Census
GeoSuite is a tool for data retrieval, query and tabular output, with software and data on a CD-ROM. 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. In the second edition (released October 8, 2002), the hydrography was generalized by removing small lakes from the file to reduce noise. Large rivers emptying into the oceans were closed off, then the interior hydrography (double line river and lake polygons) was extracted to create the supplementary hydrography. 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
92F0163XCE Federal Electoral Districts (1996 Representation Order) Cartographic Boundary File
92F0194XCE Federal Electoral Districts (2003 Representation Order) Cartographic Boundary File
92F0161XCE Census Divisions and Economic Regions Cartographic Boundary File
92F0167XCE Census Consolidated Subdivisions Cartographic Boundary Files
92F0162XCE Census Subdivisions Cartographic Boundary Files
92F0165XCE Designated Places Cartographic Boundary File
92F0166XCE Census Metropolitan Areas/Census Agglomerations Cartographic Boundary File
92F0168XCE Census Tracts Cartographic Boundary Files
92F0164XCE Urban Areas Cartographic Boundary File
92F0169XCE Dissemination Areas Cartographic Boundary Files

92F0159XCE Population ecumene census civision boundary file, 2001 Census

The Population Ecumene Census Division Boundary File contains a generalised 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 generalised and small, non-contiguous ecumene pockets were aggregated to ensure visibility for small-scale thematic mapping at the census division level (see Figure 9). 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. This file is not a Cartographic Boundary File and it has its own reference guide.

92F0170XCE Census forward sortation areas foundary file

The 2001 Census Forward Sortation Area (FSA) Boundary File contains the boundaries of 1,577 forward sortation areas (the first three characters of a postal code) derived from postal codes captured from the 2001 Census of Population questionnaires. Through analysis of the postal codes reported by Census households, a single Forward Sortation Area was assigned to each reported block based on the most frequently reported Forward Sortation Area for the block.

Unreported blocks were assigned a Forward Sortation Area based on proximity to reported blocks in the same province or territory.

92F0157XCE Road network files (RNF), 2001 Census
Road Network Files (RNFs) contain a road layer for the entire country and a province/territory boundary layer. The road layer includes roads, with road names and address ranges (arc attributes), and geographic codes to identify blocks, census subdivisions, census metropolitan areas/census agglomerations, and provinces/territories (polygon attributes). Address ranges are mainly available in the large urban centres of Canada. The province/territory boundary layer incorporates hydrography (the shoreline around Canada and the larger inland lakes) with the boundaries and the geographic codes. The digital coordinates are in latitude/longitude and are based on the North American Datum of 1983 (NAD83).

Road Network Files are available for Canada, for individual provinces and territories, and for census metropolitan areas (CMAs) and those census agglomerations (CAs) with census tracts.

92F0158XCE Skeletal road network files (SRNF), 2001 Census
The Skeletal Road Network Files contain selected roads (with road names, but no addresses) that are derived from Road Network Files (Catalogue No. 92F0157XCE). The selected roads are ranked according to four levels of detail. The different levels of detail are suitable for mapping at small to medium scales. The SRNF can be used to provide some cartographic reference features when producing thematic maps with the Cartographic Boundary Files. The positional accuracy of the SRNF does not support cadastral, surveying or engineering applications. The SRNF does not include hydrography.

The Skeletal Road Network Files are available for Canada, provinces and territories, and census metropolitan areas (CMAs) and tracted census agglomerations (CAs).

92F0177XCE Block digital boundary file
Block digital boundary files portray the official boundaries used for the 2001 Census. They often extend as straight lines into bodies of water. Digital boundary files provide a framework for mapping and geographic analysis that are possible using commercially available geographic information systems (GISs) or other mapping software. The files may not be suitable for mapping or display where realistic shoreline is required.

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 Codes by Federal Ridings File (PCFRF).

92F0153XCE Postal code conversion file (PCCF)
The Postal Code Conversion File (PCCF) provides a link between six-character postal code and standard 2001 Census geographic areas (such as dissemination areas, municipalities, census tracts). It also provides the x,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.

92F0153UCE 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 (92F0154UCE) 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 semi-annual 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.

The PCFRF Updates are available as standard packages for Canada and five regions.

92F0193XCB Postal codes by federal ridings file (2003 representation order)
The Postal Codes by Federal Ridings File (PCFRF) provides a link between the six character postal codes and the federal electoral districts (2003 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 700,000 postal codes to the 308 federal electoral districts.

The PCFRFs are available as standard packages for Canada and five regions. A reference guide is included.

92F0193UCB Postal codes by federal ridings file (2003 representation order)– update
The Postal Codes by Federal Ridings File (PCFRF) is updated with new postal codes on a semi-annual 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 (92F0193XCB) at the initial price may then purchase subsequent updated files (92F0193UCB) at the update rate.

The PCFRF Updates are available as standard packages for Canada and five regions.

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).

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.

97C0007 Geography custom mapping
Thematic maps and other maps, specially designed to meet customer needs, can be produced..

Appendix H End-use licence agreement

Copyright

The Government of Canada (Statistics Canada) is the owner or a licensee of all intellectual property rights (including copyright) in this data product. In consideration of your payment of the requisite fee, you or your organisation, as the case may be, (hereinafter referred to as the "licensee") are granted a non-exclusive, non-assignable and non-transferable licence to use this data product subject to the terms below. This license is not a sale of any or all of the rights of the owner(s).

Terms of use

1. All copyright and proprietary notices and all conditions of use associated with the data product must be communicated to all users of the data product.
2. The licensed organisation shall not transfer this data product to or store the data product in any electronic network for use by more than three (3) users unless it obtains prior written permission from Statistics Canada and pays any additional fees.
3. The licensee shall not lend, rent, lease, sub-licence, transfer or sell any part of the data product nor any right granted under this agreement to any person outside the licensed organisation or to any other organisation.
4. The licensee shall not disassemble, decompile or in any way attempt to reverse engineer any software provided as part of the data product.
5. The licensee shall not use any part of the data product to develop or derive any other data product or data service for distribution or commercial sale.
6. The licensee is granted reasonable rights of use of the content of this data product only for personal, corporate or public policy research, as well as for educational purposes. This permission includes the use of the content in analyses and the reporting of results and conclusions, including the citation of limited amounts of supporting data extracted from the data product in such documents. In such cases, the source of the data must be acknowledged in all such documents and communications by providing the following source citation at the bottom of each table and graph:
7. *Source* (or "*Adapted from*", if appropriate): *Statistics Canada, name of product, catalogue number of product, reference date of product.*
8. The Licensee shall obtain approval from Statistics Canada, before publishing any significant volumes of material extracted from the data product in any medium.
9. Any violation of this license renders it void and of no effect. This agreement will terminate automatically without notice if the licensee fails to comply with any term of this agreement. In the event of termination, the licensee must immediately return the data product to Statistics Canada or destroy it and certify this destruction in writing to Statistics Canada.

Warranties and disclaimers

This data product is provided "as-is", and Statistics Canada makes no warranty, either express or implied, including but not limited to, warranties of merchantability and fitness for a particular purpose. In no event will Statistics Canada be liable for any direct, special, indirect, consequential or other damages however caused.

Acceptance of terms

It is *your responsibility* to ensure that your use of this data product complies with these terms and to seek prior written permission from Statistics Canada for any uses not permitted or not specified in this agreement. Any infringement of Statistics Canada's rights may result in legal action.

Any use whatsoever of this data product shall constitute your acceptance of the terms of this agreement.

For further information please contact:

Licensing Services
Marketing Division, Statistics Canada
R.H. Coats Building, 9th floor, section A
Ottawa, Ontario K1A 0T6, Canada
E-mail: licensing@statcan.ca
Telephone: (613) 951-1122
Fax: (613) 951-1134