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PCCF + Version 5D User's Guide

Automated Geographic Coding Based on the Statistics Canada Postal Code Conversion Files

Including Postal Codes through September 2008

by

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March 2009

Catalogue no. 82F0086-XDB

Russell Wilkins. PCCF+ Version 5D User's Guide. Automated Geographic Coding Based on the Statistics Canada Postal Code Conversion Files, Including Postal Codes through September 2008. Catalogue 82F0086-XDB. Health Information and Research Division, Statistics Canada, Ottawa, March 2009.

ABSTRACT

PCCF+ Version 5 consists of a SAS control program and a series of reference files derived from the most recent Statistics Canada Postal Code Conversion File (PCCF) and a 2006 postal code population weight file (WCF). It automatically assigns a full range of geographic identifiers (down to dissemination area, dissemination block, and latitude, longitude) based on postal codes. It is consistent and logical in the way it does this. Any incorrect coding due to errors in the underlying reference files can easily be corrected once identified. To do such coding by manual methods would require highly skilled coders with much time and access to the full mailing address or property description. Even so, the results of manual coding would tend to be less accurate (particularly in urban areas), and they could inadvertently introduce systematic bias (especially in rural areas).

As long as the postal codes on the incoming file are valid for the corresponding addresses, *PCCF*+ will usually generate highly accurate geographic coding. Manual geographic coding is no longer required except in very rare circumstances. Records for most postal codes which serve more than one dissemination area--including most rural postal codes and several classes of urban postal codes—are assigned geographic codes based on a population-weighted random allocation among the possible dissemination areas and blocks. This produces an unbiased allocation of events in relation to the resident population. However, because of the nature of the postal code conversion files, a few classes of valid postal codes (for which only the post office location is known) cannot be assigned full geographic identifiers corresponding to a place of residence or business. In such cases, as well as for postal codes that do not match exactly to the PCCF or WCF, the first two or three characters of the postal code are used to try to assign partial geographic identifiers to the extent possible. This takes care of many situations where the last one, two, or three characters of the postal code are invalid, but the first two or three characters are valid. Problem records include full diagnostic and reference information. Business and institutional addresses are clearly identified, which facilitates determining if the postal code corresponds to the client's usual place of residence (or business), or was the result of a keying or reporting error. An alternate version of the control program is also provided for better coding of the location of health facilities and professional offices, as opposed to places of residence, where that is desired.

Note: For authorized university research and teaching purposes, PCCF+ is available under the Data Liberation Initiative (DLI). For general information on the DLI, including contact persons at each participating university, see the Statistics Canada website: www.statcan.ca (Learning resources / Postsecondary/Data Liberation Initiative). On the DLI FTP site, the PCCF+ filenames are shown in the directory -/health/pccf5D-fccp5D.

For public health professionals in all levels of government across Canada, and those in NGOs and universities (excepting those in the private sector), the Public Health Agency of Canada offers free access to GIS resources licensed for redistribution, including PCCF and PCCF+. For more information, visit their website at www.phac-aspc.gc.ca/php-psp/gis_e.html, or contact them by email at gishelp@phac-aspc.gc.ca, or by telephone toll free at 1-877-430-9995.

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GETTING STARTED

Introduction

To do automated geographic coding based on postal codes using *PCCF*+, all you need to do is follow Steps 1, 2 and 3 below. The rest of the documentation provides supplementary detail and background information which should be read eventually, but it is not essential to getting started. A list of **Abbreviations** begins on page 17, the **References** begin on page 19, and a **List of Appendices** available can be found on page 23.

If you want to find out what the program does and how it works before getting started, skip Steps 1-3, and begin reading at the section entitled Origins and objectives of PCCF+. Then come back to Step 1 when you are ready to begin coding.

Step 1: Getting set up

The PCCF+ package consists of five SAS control files (the programs) plus several reference files derived mainly from the Statistics Canada Postal Code Conversion File (PCCF) and Weighted Conversion Files (WCF). To use the programs, you must first have installed SAS on to your computer and copied all of the files shown in Table 1 (on page 7) into your own directory. For residence coding, edit the program GEORES5x.SAS. For coding of health facilities or office locations, edit the program GEOINS5x.SAS.

Step 2: Identifying your input file (with postal codes to be assigned geography)

Your incoming data to be coded will be known to the programs as HLTHDAT. You must indicate to the program where to find your income file, by changing the shaded filename shown below to your own incoming *filename.ext* at the following line:

Your incoming file can be sorted in any order or unsorted. Each logical record of the incoming file must contain a unique identifier (ID), plus a postal code (PCODE) if available. The postal code can have a space or hyphen between the first 3 characters (FSA) and the last 3 characters (LDU), or no space. Those fields can be anywhere in the file, but you must tell SAS where to find them, as in the following example:

```
DATA HLTHDATO; INFILE HLTHDAT MISSOVER;

INPUT

© 5 ID SCHARE. /* UNIQUE IDENTIFIER OR REGISTRAT NUMBER */

/* IT CAN BE UP TO 12 CHARACTERS IN LENGTH */

FSA SCHAR3. /* FSA (ANA) -- FIRST 3 CHARACTERS OF PCODE */

DESCRIPTION OF PCODE */

PCODE=FSA | LDU; /* POSTAL CODE (ANANAN) */
```

The ID can be numerical, alphabetic or mixed. It can be up to 12 characters in length, and can be found anywhere in your file, as specified in the INPUT statement. If ID is more than 12 characters in length, the output file formatting would have to be modified. Records with the same ID but different postal codes will each be assigned geographic codes. However, if the same ID and postal code appear in combination more than once, only one example of each combination will be retained. The postal code can also be found anywhere in the file, with the FSA optionally separated from the LDU, or together.

Step 3: Naming the two output files produced

PCCF+ will produce two output files, one for all of the coded data, and a subset of that which contains the problem records (errors, warnings and notes). You must specify the name of these output files by changing the shaded filenames to the names you want your output files to be called. We suggest using the extensions GEO and PRB for these files, but you can use any extensions you wish.

```
filename HLTHOUT | 06: \period 56 \sample at .geo'; /* the main output file */filename GEOPROB | 06: \period 56 \sample at .prb'; /* the problem file */-
```

The first of these two output files, known to SAS as HLTHOUT, will contain the ID and postal code from your incoming HLTHDAT file, plus all of the geographic codes which the programs could successfully determine, and diagnostic fields to help you understand how the coding proceeded in each case.

The second output file, known to SAS as GEOPROB, will contain a subset of the HLTHOUT records, for any cases identified as errors, warnings or notes. To facilitate checking and correction, it will be sorted by type of problem (errors first, followed by warnings, followed by notes), then by delivery mode type (DMT), then by postal code. In the unlikely event that none of the HLTHOUT records were identified as potential problems (errors, warnings, or notes), then the GEOPROB dataset and corresponding file would be empty.

When Steps 1, 2 and 3 are completed, you will be ready to start assigning geographic identifiers to your file based on postal codes. If you are eager to get started, go right ahead. Just submit the SAS program. The rest of the documentation can be read later. To make the SAS printout easier to read, the page setup (under the file menu) should specify landscape orientation, and the print setup (also under the file menu) should specify font SAS monospace 8 point.

Step 4 (optional): Getting appropriate geographic coding for FSAs which were moved (V1H & V9G)

After completing Step 3 (running the program), check the printed output. Immediately following the Summary of Automated Coding Results (at the beginning of the LST output), if your data contained any postal codes beginning with V1H or V9G which were moved south in 1997, you will see a table showing how many postal codes with each of those two FSA were involved. If that table is present (and non-blank), then to get the appropriate geographic coding for those postal codes, you may need to run a supplemental program (R5xOLD for residential coding, or I5xOLD for institutional coding). Whether or not you need to run the supplemental program depends on the vintage of your postal codes (see Appendix C for how the vintage of a postal code is defined). If the vintage of your postal codes is I April 1999 or later, then use of the supplemental programs is unnecessary and will have no effect on the data. In all other cases, if the results of Step 3 show problem postal codes beginning in V1H or V9G, you should run the supplemental program to ensure that the appropriate geographic codes are assigned.

First identify your input file, as you did in Step 2, except that this time the input filename will be the same as the HLTHOUT filename which you identified in Step 3.

Assuming that each record in your data has approximately the same vintage of postal code, then check the first input data step in R5xOLD or I5xOLD, and modify the value of PCVDATC if required, as shown in the shaded area below. If your data contain no postal codes of vintage later than 1 June 1996, then do not change the value of PCVDATC.

When you have completed the above, submit the supplemental program. Depending on the vintage of your postal codes, some, none or all of the geographic coding for postal codes beginning with V1H and/or V9G may be changed to correspond to their former location.

The rest of this step is needed only if each record of your data may have a different vintage of postal code, so that the global change of the PCVDATC as shown above is not appropriate. But if (as will most often be the case) the global change was appropriate, then stop here.

If each record of your data may have a different vintage of postal code, then append that date to the end of each HLTHOUT record output by GEORES5x or GEOINS5x, and then revise the first input data step in R5xOLD or I5xOLD to include the following line:

```
@ man PCVDATC $CHAR8.; /* YYYYMMDD VINTAGE OF PCODE */
```

And in that case, don't forget to delete the semicolon at the end of the old input statement; and to comment out the line (just below the end of the input statement) that defines PCVDATC as a constant. Do the latter by adding the SAS comment characters as shown in the shaded text below:

```
PCVDATC='19970601'; 🌌 /* YYYYMMDD VINTAGE OF PCODES */
```

Table 1 Files included in PCCF+ Version 5x

Filename / PC filename (if different)	Description
GEORES5×.SAS	SAS PROG (RESIDENCE CODES)
GEOINS5x.SAS*	ALT SAS PROG (OFFICE CODES)
R5xOLD.SAS#	SAS PROG OLD FSAs (RESIDENCE CODES)
I5xOLD.SAS#*	ALT SAS PROG OLD FSAS (OFFICE CODES)
DIST5x.SAS	CALCULATES MINIMUM DISTANCE TO CLOSEST OF MANY LAT LONG
EXPLODE2.SAS + GROUPED.TXT	TRANSFORMS COUNT DATA TO EQUIVALENT INDIVIDUAL RECORDS
FIXPCBAD.SAS + PCBAD.TXT	FIX COMMON ERRORS IN CANADIAN POSTAL CODES.
BLDG9606.EGMRES.CAN	POSSIBLE RES FOR DMT E G M
BLDG0803.TXTF1EZ3.CAN	BLDG NAMES & ADDRESSES
CPADR.NADRO803.CAN	NUMBER ADDRESS RANGES FOR PCODE
GEOREFO6.ARDEF.CAN	AGRICULTURAL REGION (CROP DISTRICT) DEFINITIONS
GEOREFO6.ARNAMES.CAN	AGRICULTURAL REGION (CROP DISTRICT) NAMES
GEOREFO6.DB06EADA.CAN	2006 DISSEMINATION BLOCK TO 1981-2001 EA/DA
GEOREFO6.CCSSAC.CAN	CENSUS CONSOLIDATED SUBDIVISION DEFS, SACTYPE, SAC
GEOREFO6. CCSNAMES. CAN	CENSUS CONSOLIDATED SUBDIVISION NAMES
GEOREFO6.CDNAMES.CAN	CENSUS DIVISION NAMES
GEOREFOG. CSDNAMES. CAN	CENSUS SUBDIVISION NAMES
GEOREFOG. CSIZEOG. CAN	COMMUNITY SIZE BASED ON 2006 CMACA POP (INCL CMA NAMES)
GEOREF06.DABLK06.CAN	BLOCKS WITHIN DISSEMINATION AREAS
GEOREFO6.DABLKPNTO6.CAN	POINTER TO BLOCKS WITHIN DISSEMINATION AREAS
GEOREFO6.DABLRFN105.CAN	DESIGNATED PLACE NAMES
GEOREFO6.ERDEF.CAN	ECONOMIC REGION DEFINITIONS
GEOREFOG. ERNAMES. CAN	ECONOMIC REGION NAMES
GEOREFO6. FEDNAMES. CAN	FEDERAL ELECTORAL DISTRICT
	GEOGRAPHIC ATTRIBUTES AT BLOCK LEVEL
GEOREFO6.GTF06.CAN	HEALTH REGIONS DEFINITIONS
GEOREFO6.HRDEFO7L.CAN	HEALTH REGION NAMES AND POPULATIONS
GEOREFO6.HRNAM05C.CAN	INSTITUTIONAL FLAG
GEOREFOG. INSTFLG.CAN	NORTH SOUTH RELATIONSHIP (BASED ON 1996 PRCDCSD)
GEOREFOG.NSREL96.CAN	HEALTH DISTRICT DEFINITIONS
GEOREFO6.SUBDEFO7L.CAN	HEALTH DISTRICT NAMES
GEOREFO6.SUBNAM5C.CAN	TORONTO HEALTH PLANNING AREA NAMES AND CODES
*GEOREF06.THDIST2.COD	TORONTO HEALTH PLANNING AREA DEFINITIONS
*GEOREFO6.THPA06DA.DEF	2001 CENSUS DISSEMINATION BLOCK TO 2006 DISSEMINATION AREA
GEOREFO6.DB01DA06.CAN	PCCF+ USER GUIDE-FRENCH
MSWORD.FCCP5x.PDF	MS WORD SHELL FOR PRINTING THE MAIN OUTPUT FILE (.GEO)
MSWORD.FMT5xGEO.DOC	MS WORD SHELL FOR PRINTING THE PROBLEM FILE (.PRB)
MSWORD.FMT5xPRB.DOC	WE WOLD SHRIP LOK AKINING THE AKORDEM LIDE (.140)
MSWORD.PCCF5x.PDF	PCCF+ USER GUIDE-ENGLISH
PCCFyymm, BCVUNIQ. CAN#	PCODES PRIOR TO MOVEOLD TEMP
PCCFyymm.CPCOMM.CAN	CANADA POST COMMUNITY NAMES
PCCFyymm.DUPS.CAN	ALL OCCURRENCES DUPLICATE PCODES
PCCFyymm.FSAGEOG.CAN	GEOGRAPHY AT EACH FSA
PCCFyymm.FSAGEO1.CAN#	GEOGRAPHY AT EACH FSA-OLD FSAs
PCCFyymm.FSA12GEO.CAN	GEOGRAPHY AT EACH FSA12
PCCFyymm.FSA12GE1.CAN#	GEOGRAPHY AT EACH FSA12-OLD FSAs
PCCFyymm.POINTDUP.CAN	POINTER TO 1ST DUPLICATE PCODE
PCCFyymm.RPO.CAN*	RURAL POST OFFICE LOCATIONS
PCCFyymm.UNIQ.CAN	PCODES UNIQUE ON PCCF
PCCFyymm.WCFPOINT.CAN	POINTER TO 1ST DUPLICATE PCODE ON WCF
PCCFyymm.WCFUDUPS.CAN	ALL OCCURRENCES DUPL+UNIQUE PCODES ON WCF
PCCFC06.WCFBLK.CAN	BLOCKS SERVED BY WCF POSTAL CODES
PCCFC06.WCFBLKPT.CAN	POINTER TO BLOCKS SERVED BY WCF POSTAL CODES
PCCFC06.FSAPOINT.CAN	POINTER TO 1ST DUPLICATE FSADABLK
PCCFC06.FSAUDUPS.CAN.	ALL OCCURRENCES DUPL+UNIQUE FSADABLK
SAMPLEDAT.CAN	SAMPLE DATA FOR TESTING PROGRAMS
SERVICES.IGE	TEST DATA FOR PROGRAM DIST4x.SAS
PCBAD.TXT	TEST DATA FOR PROGRAM FIXPCBAD SAS
SESREF.QAIPEO6.CAN	IPPE QUINTILES WITHIN CMACA (BASED ON 2006 CENSUS DATA)

Provincial or regional subsets of the reference files will end with one of the following extensions in place of CAN: NF NS PE NB PQ ON MB SK AB BC YT NT NU ATL PRA WES. (For the meanings of the filename extensions, see page 17.) For best results, all of the files used should have the same extensions.

An asterisk following a filename indicates that it is only needed for office coding.

A number sign following a filename indicates that it is only needed for coding FSAs which have been moved. Note:

PCCFyymm replaced by PCCF0803 (March 2008), etc.
GEORES5x GEOINS5x replaced by GEORES5C GEOINS5C (Version 5C), etc.

HOW THE PACKAGE WORKS

Origins and objectives of PCCF+

PCCF+ consists of two SAS control programs (GEORES5x for residential coding, GEOINS5x for office coding) and a series of reference files derived from the Statistics Canada Postal Code Conversion File (PCCF), the Postal Code Population Weight File (WCF) and other sources. It automatically assigns a full range of geographic identifiers (PR CD CSD CMA CT DA BLK LAT LONG etc.) based on postal codes. It is consistent and logical in the way it does this. PCCF+ uses techniques developed over a period of years for research studies at Statistics Canada. Any incorrect coding due to errors in the underlying reference files can easily be corrected once identified. To do such coding by manual methods would require highly skilled coders with much time and access to full mailing addresses. Even so, the results of manual coding would tend to be less accurate (particularly in urban areas), and they could inadvertently introduce systematic bias (especially in rural areas).

Version 1: 1986 Census geography; equal weight to each duplicate record

Version 2: 1991 Census geography; 2B (20% sample) household weights for most duplicate records

Version 3: 1996 Census geography; 2A (100% count) population weights for most duplicate records

Version 4: 2001 Census geography, 2A (100% count) population weights for most duplicate records

Version 5: 2006 Census geography, 2A (100% count) population weights for most duplicate records

Objectives

At their place of residence, 24% of the Canadian population use postal codes which are vague and ambiguous with respect to location (see Table 2, page 22), or which are only linked to post office location. This is the biggest problem facing geographic coding from Canadian postal codes. For example, about 20% of the population uses rural postal codes (which each serve an average of about 1100 persons), 3% use rural route services from urban post offices, and 1% use small post office boxes. For the other 76% of Canadians, the vast majority use postal codes presenting little or no problem with respect to geographic coding, which can usually be done with great precision. For example, for the most common category of service—letter carrier delivery to a private dwelling—only about 30 people share the same postal code. However, a few classes of urban postal codes are primarily used by businesses and institutions, and may or may not be valid as a place of residence. It is important to identify and deal with the various sorts of problems represented by each of the above categories, and that is what *PCCF*+ does, or helps you to do, as summarized below.

- Deal with community mail boxes and other sources of duplicate records on the PCCF (DMT A. B).
- · Identify postal codes which may be used by businesses or institutions (DMT E, G, M).
- Provide geographically unbiased coding despite the great ambiguity of rural postal codes and rural routes from urban post offices (DMT W, H, T).
- Provide geographically unbiased coding for persons or organizations using small PO boxes at urban post offices (DMT K), and for those using General Delivery at urban post offices (DMT J).
- Provide client site coding (vs PO location) for institutions using large PO boxes (DMT M).
- Deal with retired postal codes, taking into account problems related to previous DMT.
- Provide for translation across different vintages of census geography.

Bells and whistles

- Use the FSA to impute or partially impute geographic coding where the postal code is not found or is only linked to post office geography.
- Use the first 1 or 2 characters of the postal code for partial imputation if FSA not found.
- Provide information which may help in correcting erroneous or problematic postal codes, or for finding geographic
 codes by other means (if possible); try to furnish enough information so that the user can decide whether to accept or
 reject the coding suggested, if correction of the underlying problem is not possible or feasible.
- For postal codes which may or may not refer to a place of business (DMT E, G, or M), flag records for postal codes known to serve non-residential addresses, and flag those known to serve residential addresses.
- For areas consisting primarily of collective dwellings, indicate the predominate type of dwelling (hospital, nursing home, prison, etc.).

Operational requirements

- Provide detailed diagnostics indicating how the coding was done, what problems were encountered, and how ambiguous
 the postal code was (especially re CD and CSD codes).
- Document everything in a detailed User's Guide.
- Make it simple to use by persons with little or no previous knowledge of geography or computers, and small enough to run regional subsets on unsophisticated personal computers.

Update semi-annually following release of new vintages of the PCCF.

What's new in Version 5D? Routine update to include postal codes through to the end of September 2008.

What was new in Version 5C?

Full geographic coding is now done to 2006 vintage census geography, using 2006 census population weights where required 2006 geography replaces the 2001 census geography. Although the new PCCF separates retired from active postal codes, they are all included in PCCF+, though still flagged as retired if appropriate.

QAIPPE is NW based on 2006 income data.

Three fields newly added to the regular PCCF—related to the quality of the postal conversion process at Statistics Canada—were ported to PCCF+. POINSTAL, QILEVEL, GMETHOD.

Canada Post Air Stage offices are now flagged: AIRLIFT.

EA or DA from all census geography vintages since 1981 are now included (EA81uid, EA86uid, EA91uid, EA96uid, DA01uid, DA06uid).

All but one (AIRLIFT) of the new variables are appended to the end of the file (beginning with position 117), so the record layout up to that point is almost unchanged. (except CT is now length 7 versus 6 previously)

Health regions and health districts: updated definitions with a reference date of December 2007.

What was new in Version 4J?

Updated to include postal codes through to the end of September 2006. A combined variable (CSIZEMIZ) has been added, showing both urban size group (CSIZE) plus rural metropolitan influence zone (MIZ). A new field for the 2006 dissemination area has been appended (DA06uid), based on the 2001 census block information. Alberta health district (sub-RHA) coding has been added, based on a DA approximation of the definitions which came into effect in 2005, and Alberta health regions are now numbered according to the provincial standard.

What was new in Version 4H? Routine update to include postal codes through to the end of March 2006.

What was new in Version 4G?

Routine update to include postal codes through to the end of October 2005. For the Federal Electoral Districts, 2003 Representation Order (FED2003), riding names and definitions have been updated to include changes in 2004 and 2005. Ontario health region (HR) definitions have been updated to include changes through August 2005 (LHIN Version 11).

What was new in Version 4F?

Health region and health district definitions have been updated to 1 June 2005 reference date (Statistics Canada, Health Indicators, June 2005, catalogue 82-221-XIE; Statistics Canada, Health Regions 2005: Boundaries and Correspondence with Census Geography, catalogue 82-402-XIE). Most notable changes were in Newfoundland and Labrador (amalgamation of four regions into two; other regions unchanged), Nova Scotia (definition of 9 district health authorities as subsets of health zones), Ontario (district health councils abolished in favour of 14 local health integration networks (LHINs); one public health unit dissolved and split between two other units), and Alberta (boundary change between two regions). There were also name changes for 2 health regions in Québec.

Population weights for rural areas now include estimates for under enumerated Indian reserves.

What was new in Version 4D?

In Version 4D, a new field was added at the end of the main output file for the federal electional district-2003 representation order (FED2003). Those were the ridings used for the June 2004 federal election. The health district (SUB) field once again identifies CLSCs in Québec, based on the best fit of each census dissemination area. Numerous corrections to programming and files resulted in better coding for urban and rural areas.

What was new in Version 4A?

In Version 4, coding is to 2001 census standard geography, using 2001 census population weights when required. By contrast, Version 3 coding was to 1996 census geography, using 1996 census population weights when required.

For 2001 census, the dissemination area has replaced the enumeration area as the lowest standard level of geography for most data dissemination purposes. However, dissemination areas are built up from census blocks, which are the basic geographic

units required for the definition of health regions, health districts, federal electoral districts, designated places, and the census urban and rural area typology, as well as for best fit correspondence to previous census geographies. So for geographic coding purposes, the dissemination area plus census block replaces the enumeration area, and that change is reflected in PCCF+ Version 4. Block-level coding is much more precise than enumeration area-level coding, but the file sizes are much larger now than previously (478,707 blocks versus 49,361 EAs in 1996), so execution time of the programs has noticeably increased.

In previous census geographies, the federal electoral district code was an integral part of the enumeration area code (PRFEDEA), which was lowest standard level of geography for both geographic coding and data dissemination purposes. For the 2001 census geography, the enumeration area is used only for data collection purposes, so it has been dropped from *PCCF+* Version 4. The federal electoral district code has been retained, but it has been moved to near the end of the file. Note that for the 1996 census, the federal electoral district representation order was that of 1987, while for the 2001 census, it changed to the 1996 representation order.

The 2001 census population weight file allows for population-weighted random allocation among multiple dissemination areas served by a single postal code. As with previous versions of *PCCF*+, this is done for several classes of postal codes (those with delivery mode types of H through Z) which mainly provide service to rural residents. Then within the randomly selected dissemination area, an additional population-weighted random allocation is performed to select a single block from among the multiple census blocks in that dissemination area. The latter routine is new for Version 4, as it is required for defining several of the geographic levels of major interest to users.

When imputations of geographic coding are required based on the first three characters of the postal code (the forward sortation area or FSA), a complete set of geographic codes down to dissemination area and block are imputed from rural as well as urban FSAs. Previously, a complete set of codes was only imputed for urban FSAs.

The definitions of health regions (HR) and health districts (SUB) have been updated to reflect recent changes in some provinces, as well as the new census geographic concepts.

An updated neighbourhood income quintile field (QAIPPE) is based on 2001 census data by dissemination area.

The community size field (CSIZE) has been updated, based on 2001 census populations. This field classifies census metropolitan areas and census agglomerations by population size, and the residual area not in any census metropolitan area or census agglomeration—also known as "rural and small town Canada" (Plessis et al. 2001).

A new field for the statistical area classification type (SACTYPE) has been added. This field distinguishes among census metropolitan areas (all of which are tracted), tracted versus untracted census agglomerations, and the residual area not in any census metropolitan area or census agglomeration ("rural and small town Canada"), with the latter further classified by the relative importance of commuting flows to work in any census metropolitan area or census agglomeration--also known as "metropolitan influence zones" or MIZ.

A new field defining the North-South relationship (NSREL) in Canada has been added. This field distinguishes South from South transition, North transition and North. It is based on methods described by Puderer and McNiven (2000).

A new field for the rural-urban block (BLKURB) has been added. This is an alternate way of defining urban and rural, based on the population density of each census block, which permits both urban and rural areas to be defined within as well as outside of census metropolitan areas and census agglomerations. Note however that in the vast majority of rural areas, the census block and dissemination area are imputed based on population-weighted random allocations among the many such units known to fall within the postal code service area, so this field should only be used with due caution for the definitional difficulties. Classification based on urban postal codes is much more certain, as the specific block is almost always known with much greater certainty. This field is defined as follows: If UARA GE 9910 THEN BLKURB-0; ELSE IF UARA NE THEN BLKURB-1.

A new field for economic region (ER) has been added. Economic regions (formerly known as "subprovincial regions") are defined as aggregates of adjacent complete census divisions except in Ontario, where in one case an ER is defined as an aggregate of adjacent census subdivisions, but splitting census division boundaries.

A new field for census agricultural region (AR) has been added. ARs are defined as aggregates of complete adjacent census divisions, except in Saskatchewan, where they are defined as aggregates of adjacent census consolidated subdivisions, without respect to census division boundaries.

A new field for census consolidated subdivision (CCS) has been added. CCSs are defined as aggregations of adjacent census subdivisions within a given census division.

The various categories of the representative point flag field (RPF) have been redefined to correspond with the new 2001 census geography concepts.

The enumeration area collective dwelling field (EACOLL) and the enumeration area comment flag field (EACMTFLG) have been deleted, since enumeration areas are now used only for data collection purposes, and no longer appear on the PCCF+ output files. In its place, a new field (INSTFLG) has been added to help identify records likely to be for institutional residents.

A supplemental program (DIST4x.SAS) has been added to calculate distances from each postal code on one output file (usually the result of GEORES4x.SAS), to the closest of many postal codes on another file (which would usually be the output of GEOINS4x.SAS). Typically this would be used for calculating distances from residences to some kind of health facility or health professional. Basic familiarity with SAS programming is required for use of this supplementary program.

What was new in version 3E?

Health regions (HR) and health district (SUB) codes were assigned based on the enumeration area code, if present. If an enumeration area code was not present, then the program attempted to assign health region and health district codes based on the census subdivision code, if known, as long as 90% or more of the census subdivision population resided in a single health region or health district.

Canada Post recently moved two FSAs in British Columbia: 100km south in the case of V9G, and 400 km south in the case of V1H. This means that the vintage of the postal code must now be taken into account in order to correctly assign geography in such cases. Thus, the main programs (GEORES3E & GEOINS3E) were revised to assign only the most current geographic codes for those cases, and supplementary programs (R3EOLD & 13EOLD) were written to assign the old geographic coding where required, depending on the vintage of the postal codes (which can be specified). The supplementary programs also print out a summary of the corrections and problems encountered in the recoding, if any, and merge the corrections back into a revised main file. To explain how to use the supplementary programs, and to determine whether or not their use is required, a new Step 4 (optional) was added to the Getting Started section of the documentation.

To further increase the functionality of the output files, community size (CSIZE) codes are now assigned based on the census metropolitan area and census agglomeration code (the CMA field, which includes CA codes). Also, to demonstrate the ease of attaching geographically-coded variables from other data sets (such as summary data from the quinquennial census), neighbourhood income quintile (QAIPPE) codes are now assigned, based on the enumeration area code.

The CPCCODE field (a sequential numeric code corresponding to the Canada Post Community Name) was fully implemented. In previous versions, records which were coded by the weighted conversion file (WCF) were not assigned a CPCCODE, but beginning with Version 3E, all records with a valid postal code have had it assigned.

The main output files (dataset HLTHOUT) are identical in format to those produced by Version 3D, except for the addition of the 4 new fields (HR SUB CSIZE QAIPPE) appended to the end of the record, as noted in the revised documentation. The output of the supplementary programs (R3EOLD and I3EOLD) also include 3 additional fields (BTHDATEC RETDATEC PCVDATC) appended to the end of the record.

The problem file output was modified slightly by reducing the latitude and longitude fields each to 2 digits in order to leave enough room to show the HR and SUB fields.

The documentation was revised to reflect the above changes.

What was new in Version 3 (all other updates)?

- Version 3 produced output coded to 1996 Census standard geography, whereas Version 2 coded to 1991 census standards, and Version 1 coded to 1986 census standards.
- Whenever possible, 1996 2A (100%) population weights were used for postal codes served by rural post offices, or
 by rural routes, PO boxes, and suburban route service from urban post offices. However, 1991 2B (20% sample)
 household weights were used for such postal codes if they were not part of the 1996 census population weight file.
- EAs were imputed for rural as well as most urban postal codes. However, imputation of EA from urban FSAs (new
 in Version 2) was no longer performed for postal codes linked to post office geography, for which the service area
 or users might be outside the nominal FSA boundaries.
- New fields were added, but all of the former fields were retained, as was the "look and feel" of the programs. The only change to the definitions of former fields is for problem (PROB) type 2 (unused since Version 1), which was redefined as a Warning (rather than Error as formerly) when the postal code was improbable as a place of residence. The PROB field has been renamed LINK, so that the meaning of the field values will be intuitive: LINK=0 means no link, and LINK=9 means best link. Latitude and longitude were shown with much greater precision (degrees + 6 places after the decimal rather than degrees + 4 places previously). The field CCSUM was no longer written to the files, but it was still calculated for the printouts.

DPL A field for Designated Place (DPL) code was added. This was a new sub-municipal level of geography with the 1996 census.

RESFLG Postal codes for addresses which were improbable as a place of residence were now flagged (RESFLG), as are postal codes for business and institutional type addresses which appeared to be possible places of residence.

EACOL A field for Enumeration Area Collective Dwelling (EACOL) type was added. This field identified EAs which were specific to hospitals, nursing homes, prisons, etc.

EACMT An Enumeration Area Comment (EACMT) could occur in the problem file output if other address information was not available. The comment field usually named the collective dwelling, business or institution specific to that EA. A flag field (EACMTFLG) identified EAs for which such comments were available in the G96EACMT file.

Five new diagnostic fields were added. The first three were derived from the PCCF, while the last two were derived from other sources:

DMTDIFF A new field based on the previous DMT (DMTDIFF) allowed retired postal codes to be used without fear of overlooking problems related to the previous DMT.

RPF The Representative Point Flag (RPF) indicated the precision of the underlying geographic linkage (to BLKFACE or EA, and single or multiple links in each case).

SERV The Canada Post Service Type code (SERV) distinguished route service with street address from route service without street address.

PREC The precision (PREC) of latitude and longitude coordinates was indicated with respect to the service area of the postal code, as well as with respect to the blockface or EA nature of the coordinates, and with respect to the nature of the imputation required (if any). 0=least precise; 9=most precise.

NADR The number of address ranges (NADR) served by a postal code was usually one, but might be many. For example, community mail boxes and rural route services usually refer to several address ranges, while most other urban postal codes refer to only one address or address range.

Because of these changes, the record layout for the last section of both output files was changed.

The source program code was still written in SAS, and was easily modifiable—for example, to reduce the printed output by deleting frequency tabulations of each field. As before, the source program was self-documenting to facilitate understanding of what the program actually did and didn't do.

Preliminary versions of supplemental files and model programs were made available for translating back and forth between 1991 and 1996 census geographies.

What was new in Version 2?

Version 2 of PCCF+ (Geocodes/PCCF) incorporated several significant improvements over the original version.

- Manual geographic coding was no longer required for records with valid postal codes, except in very rare circumstances (< 1%). Previously, about 10-15% of records with valid postal codes could not be coded to census tract and enumeration area without manual intervention. Now most postal codes for rural routes from urban post offices, for post office boxes (group of boxes), as well as for suburban service and general delivery, could automatically be assigned the full complement of geographic codes available for other types of postal codes.</p>
- Records with postal codes which serve more than one enumeration area--including most rural postal codes and
 several classes of urban postal codes—were assigned geographic codes based on a household-weighted random
 allocation among the possible locations. This produced an unbiased allocation of events in relation to the resident
 population. An alternative program could be chosen which would assign all rural postal codes to village centres.
- Problem records now included better diagnostic and reference information. Fields indicating the source of the
 matching and the number of different levels of geographic codes assigned were added, in addition to the previously
 available fields which indicated the type of problem, the number of census divisions and census subdivisions served
 by the postal code, and the DMT.
- Business and institutional addresses were more clearly identified. The problem records for most such cases showed
 the building, company, or institutional establishment name and brief address--which helped determine if the postal
 code corresponds to the client's usual place of residence (or business), or was the result of a keying or reporting
 error.

- "Most likely" partial geographic coding based on the first two characters of the postal code was suggested (where
 possible) for records with invalid postal codes. Previously, such coding was attempted only if the first three
 characters were valid.
- For geographic coding of the location of health facilities and health professionals, an alternate SAS control program
 (GEOINS4x) and one additional file (RPO) were provided. With the alternate program and file, records with rural
 postal codes were assigned to the same enumeration area as the rural post office.

How the reference files were produced

To develop the reference files used, the PCCF was pre-processed as follows. First the file was analyzed to determine which postal codes were unique, and which occurred more than once on the file (linked to more than one dissemination area, block or blockface). The unique postal codes were then separated from the duplicate codes. Only the essential fields of the PCCF were retained, to reduce disk storage and memory requirements. Canada Post community names were assigned numeric codes so the names could be moved off to a much smaller, non-redundant auxiliary file. Census subdivision names (but not the corresponding numeric SGC codes) were also removed to a much smaller, non-redundant auxiliary file. Additional reference files were created to show the relationship of the first three characters of the postal code to corresponding census divisions, census subdivisions, census metropolitan areas/census agglomerations, census tracts, enumeration areas, and latitude/longitude. A similar file was created showing the relationship of the first 2 characters of the postal code to the most frequently corresponding census geography and latitude/longitude. Other files were created for matching postal codes to a subset of the 1991, 1996, 2001 and 2006 Postal Code Population Weight Files or Weighted Conversion Files (WCF), which are based on census population or household counts by postal codes and census geography. For Version 5, missing block codes are assigned by population-weighted imputation from dissemination area, if available. A building name and address file was constructed to help check the validity of postal codes for problem records related to business, commercial and institutional establishments. Using census data plus visual inspection of building names, postal codes for addresses which are improbable as a place of residence were flagged, as were postal codes for business and institution-type addresses which appear to be possible places of residence. Health region and health district codes were obtained from provincial health departments. When necessary, dissemination area and block approximations to the definitions were created. A file showing neighbourhood income quintiles within each census metropolitan area or census agglomeration (CMACA) or provincial rural and small town areas was created, based on dissemination area summary data from the 2006 census. Community size groups were determined, based on the 2006 census population in each CMACA. Areas outside of any CMACA were taken as the smallest community size group ("rural and small town Canada").

What the package does

The result is a set of related files, which together with the SAS control programs provided, can be used for automated coding of most records with a valid postal code. As long as the postal codes on your incoming file are valid for the addresses, PCCF+ will generate highly accurate geographic coding for your data. However, because of the nature of the PCCF and WCF, a few classes of valid postal codes still cannot be assigned full geographic identifiers corresponding to a place of residence or place of business. In such cases, as well as for postal codes that do not match exactly to the PCCF or WCF, the first three characters of the postal code are used to try to assign partial geographic identifiers to the extent possible. If that fails, then the first two characters of the postal code are tried.

In each case where *PCCF*+ encounters a possible problem with its automated coding, diagnostic codes are output to the problem file, together with any partial geographic identifiers which may have been determined. The program listing prints out the problem records grouped by type of problem; the records themselves follow a brief printed message describing the problem and suggesting how to correct it. Usually the first thing to do is to check the postal code to make sure that it was correctly entered, and to see that the postal code shown is the correct one for the address.

Why it is important to have accurate postal codes

The coding produced by PCCF+ is only as good as the postal codes on your incoming data file. The Postal Code Directory issued by Canada Post, or computerized versions of the directory (available from various sources), can be used to find missing postal codes as well as to validate or correct existing postal codes on your file. With computerized versions, the reverse lookup of address ranges from postal codes is an effective and efficient way of validating postal codes for incomplete or incorrectly spelled addresses. Note that in addition to its troublesome consequences for geographic coding, the absence of a valid postal code on your file could adversely affect any later follow up which might be required. Moreover, the delivery of mail by Canada Post may be delayed or impossible without a valid postal code.

How the matching process works

The routines in GEORES5x are for assigning geographic codes for places of usual residence. Similar routines in GEOINS5x can be used to assign geographic codes for locations of health facilities or offices of health professionals.

The SAS control program for residential coding is explained below; procedures which apply only to office coding are shown in italics:

- (1) First, rural postal codes and postal codes served by rural route delivery or suburban services from urban post offices, or which indicate a group of post office boxes or a single post office box, are matched to a subset of the Weighted Conversion File (WCF)--consisting of about 75,000 records for 12,000 different postal codes. As most such codes serve more than one dissemination area, the geographic codes are assigned randomly in proportion to the distribution of population with that postal code, as seen in the WCF. For coding of office locations, etc., the GEOINS5x program omits the rural postal codes from this step, so that they can all be assigned to the same dissemination area as the rural post office.
- (2) Second, remaining postal codes which are unique on the PCCF (only linked to a single dissemination area, block or blockface) are matched to corresponding codes on the incoming HLTHDAT file. There are about 560,000 of these unique codes for all Canada, including most urban postal codes. For coding of office locations, rural postal codes together with their corresponding post office geography (File RPO) are added at this point, since those records are also unique.
- Then postal codes which are not unique on the PCCF (over 260,000 different postal codes for which about 1.4 million PCCF records exist, including each of the multiple occurrences of the same postal code) are matched to the remaining records from the HLTHDAT file. Most urban postal codes and some rural postal codes which are not unique on the PCCF (in the sense that they link to more than one dissemination area, block or blockface) are nonetheless not ambiguous in terms of higher levels of geography such as CD, CSD or CMA, CT. To avoid "many-to-many" matching, the matching in this part of the program is done in two steps: (a) Each remaining HLTHDAT record (not already matched to the WCF or to the PCCF unique file) is matched by postal code to a pointer file (POINTDUP) which contains a single record for each postal code which occurs more than once on the PCCF. The pointer file shows how many times the postal code occurs, and the physical location (observation number) of the first occurrence of that postal code on the DUPS file. (b) The information on the POINTDUP file is used to match each successive HLTHDAT record with the next occurrence of that postal code on the DUPS file. This has the effect of distributing events for such postal codes across all possible dissemination areas, blocks or blockfaces which are served by that postal code--with equal weight assigned to each PCCF record.
- (4) Because block codes are required for coding of HR SUB FED UARA, missing block codes are now assigned based on population-weighted imputation from the dissemination area code, if that is available.
- (5) Error records are then identified and processed as follows: (a) Any record with a postal code which did not match on all 6 characters to the PCCF is identified as an error record (LINK=0). (b) Records with postal codes which matched, to the PCCF or WCF, but whose DMT is M or X are also identified as error records (LINK=1), since the PCCF only indicates their post office location. (c) The geographic codes for error records are set to missing values. (d) Using auxiliary files, an attempt is then made to assign highly probable CMA, CD and CSD codes, plus CT and DA for urban postal codes. Coding will be suggested based on the first 3 characters of the postal code (FSA), or failing that, based on the first 2 characters of the postal code. PR (only) may be assigned based on the first character of the postal code.
- (6) Health region and health district codes are then assigned by matching to DA, or to DA and BLK, if required.
- (7) Neighbourhood income quintiles within each CMA or CA (QAIPPE) are then assigned, based on the DA. Note that neighbourhood income data are not available for DAs made up of institutional collective dwellings.
- (8) Community size codes (CSIZE) are then assigned, based on CMA or CA populations from the 2001 census.

 Statistical area classification type (SACTYPE) codes are assigned, based on the CMA or CA code (for SACTYPEs 1-4) plus the PRCDCSD (for SACTYPEs 5-8). Economic region (ER) codes are assigned, based on the PRCD (or PRCDCSD in Ontario only). Agricultural region (AR) codes are assigned based on PRCD (or PRCDCCS in Saskatchewan only). A residence flag is assigned by matching to PCODE to identify non-residential versus residential postal codes among postal codes whose DMT is E, G or M.
- (8b) 1981, 1986, 1991 and 1996 enumeration area codes are assigned using 2006 block to EA/DA correspondence files.
- (9) All records with their corresponding geography (to the extent found) are output to the HLTHOUT (.GEO) file. If some or all geographic codes could not be determined, those fields are set to missing values before writing to the

HLTHOUT (.GEO) file. See Appendix A for the record layout, and Appendix C for an explanation of the fields and codes

- A smaller file (GEOPROB) is then created containing: records with postal codes which could not be matched on all 6 characters (LINK type 0: error); records with postal codes for a Delivery Mode Type (DMT) which is only linked to post office location on the PCCF (LINK type 1: error), and for which census location data were not available on the WCF; records where the DMT frequently indicates a non-residential address (LINK types 3 and 4: warning); records for postal codes known to indicate a non-residential address (LINK type 2: warning); records which could have been assigned more than one CSD based on the unweighted PCCF (LINK type 5: note); records which could have been assigned to more than one CSD based on the WCF (LINK type 6: note). See Appendix B for the record layout, and Appendix C for an explanation of the fields and codes.
- A one page summary of what happened, including the number of records in each link type above is printed in the program listing, together with suggestions as to what to do in each case. The summary also shows the distribution of records by the number of geographic codes which were assigned. See **Appendix D** for sample output.
- Frequency counts of the occurrence of each value of the main fields are printed out. This is done first for the entire HLTHOUT dataset, and then for the GEOPROB subset.
- (13) The entire problem dataset (GEOPROB) is printed out. In this case, the spacing of the printout mirrors that of the corresponding file. See Appendix D for sample output.
- The first 500 records from the output dataset (HLTHOUT, including fully coded, partially coded, and uncoded records) are printed out. The printout includes one field which is not present in the output dataset: DISTANCE, which was calculated for illustrative purposes only. See Appendix D for sample output.

How the programs deal with multiple matches

Version 5 of PCCF+ has two different ways of dealing with multiple matches--where a single postal code can be linked to more than one dissemination area, block or blockface. (1) For rural postal codes (with a 0 in the second position) and for urban postal codes with a delivery mode type (DMT) of H, K, M,T and Z, a subset of the WCF is used whenever possible to make a population-weighted random distribution of records among the applicable geographic areas served. In this way, if 75% of the population served by a postal code was known to be in DA 1001, then on average, 75% of the records will be assigned to that DA. Next, within the randomly selected DA, a specific block is selected, using weights based on total block population in the blocks served in whole or in part by the postal code. (2) For other types of postal codes with multiple matches possible, equal weight is given to each dissemination area, block or blockface. Successive events at such a postal code are coded in turn to each applicable dissemination area, block or blockface. For office coding only, rural postal codes are always assigned to the dissemination area and block to which the PCCF single link indicator (SLI) is assigned.

In most cases, a full mailing address would not allow any greater accuracy in the determination of CSD, and using only the city or community name line of the address for coding purposes would tend to bias the results towards whichever CSD had a name most similar to that of the postal community. The result would be the often-noted "hot spots" surrounded by "cold spots".

In summary, then, whenever a postal code can be linked to more than one CSD, an explanatory message is printed, the record is output to the problem file (as a Note only), and a systematically selected CSD code is written out to both the main file (HLTHOUT) and the problem file (GEOPROB). For office coding, links to more than one CSD are rare, since rural postal codes are assigned to the dissemination area and block to which the PCCF SLI is assigned.

How the programs deal with reuse of postal codes (beginning with Version 3E)

After a period of retirement, postal codes are sometimes rebirthed by Canada Post for reuse at a new location. Such reuse may also entail a change of DMT. Reuse of postal codes occurs most frequently, but not exclusively, in areas undergoing rapid expansion which was not foreseen by Canada Post planners when the FSA structure was initially created. However, in almost all cases, reuse of postal codes occurs within the same FSA, and most frequently within a very short distance of the former use. Thus, reuse of postal codes is not normally a problem, and the birth date and retirement date of postal codes is not part of the usual processing of postal codes in the GEORES5x and GEOINS5x programs. In the late 1990s however, two entire FSAs in British Columbia were first retired, and then moved by Canada Post (approximately 100 km south in the case of V9G, and 400 km south in the case of V1H). So the main programs (GEORES5x and GEOINS5x) were revised to assign only the most current geography to records with those two FSAs. Supplemental programs (R5xOLD and I5xOLD) were written to read the output of the main program, and reassign the old geographic coding where required, based on the vintage of the postal codes (which may be specified by the user). Users with less than current data from British Columbia will thus need to run the main program (eg, GEORES5x) followed by the supplemental program (eg, R5xOLD). The results from the supplemental program are automatically merged back into the data output from the main program. However, if your data do not include postal codes

with those FSAs, or if you data only contain postal codes of vintage 19990401 or later, then use of the alternate programs is unnecessary and will have no effect on the coding produced by the regular programs GEORES5x and GEOINS5x.

How to indicate unknown or partially unknown postal codes

If the postal code for a given record does not match exactly to any postal code on the PCCF, PCCF+ will attempt to assign partial geography based on the first 1, 2 or 3 characters the unmatched postal code. Thus, you should give some thought to how unknown or partially complete postal codes should be indicated on your incoming file. If you were to assign the non-existent postal code H0H0H0 (ho-ho-ho!) to records with missing (and unfindable) postal codes, then those records would all be assigned PR 24 and CMA 462, since nearly all postal codes beginning with H are from metropolitan Montréal, Québec. Even worse, the non-existent postal code H9H9H9 would be assigned to PR 24, CMA 462 and CD 65 (fit de Montréal), since that is the only place legitimate codes beginning with H9H are found. If only the province of residence is known, be sure to indicate the corresponding first letter (for example, B for Nova Scotia) in the initial position of the postal code field, so that the province and region code (PR) will be generated and written to the output files and listings.

How to run PCCF+

To do automated geographic coding based on postal codes using *PCCF*+ all you need to do is follow steps 1, 2 and 3 at the beginning of this *User's Guide*. The rest of the documentation provides supplementary detail and background information which should be read eventually, but which is not essential to getting started.

Future versions of PCCF+

For each new version of the PCCF, which is to be released semi-annually, a corresponding update of PCCF+ will be produced. Supplementary files and sample programs for EA<=>DA+BLK translation across census years are now available (contact Russell Wilkins for more information).

Verification of geographic coding produced by PCCF+

Table 3 (page 21) shows the population-based error percentages for each level of geography, for coding produced by PCCF+ Version 3 (R3A) compared to coding from the PCCF Single Link Indicator (SLI), and compared to population-weighted coding from FSA only. In each case, the "gold standard" is a 1% sample of the census population and corresponding postal codes collected in the 1996 Census of Canada. The error percentages are consistently smaller for the PCCF+ method, compared to the SLI method, at all levels of geography. At the CSD level, for example, the SLI error percentage is three times higher than that produced by PCCF+. At the CT level (mostly in urban postal codes areas), the SLI did much better than at the CSD level, but the error percentage was still over 40% higher compared to PCCF+.

However, if the only objective is to assign codes as close as possible to the real census DA centroids (whether or not the population is distributed among all applicable areas), then the SLI method may be somewhat more accurate, at least beyond the 75th percentile of distance.

WHERE TO GET HELP

Technical assistance

Any technical problems noted with the functioning of these programs or suggestions for improvements to the programs or documentation should be addressed to Russell Wilkins, Health Information and Research Division, Statistics Canada, RHC-24A, 100 Tunney's Pasture Driveway, Ottawa, Ontario K1A 0T6, telephone 1-613-951-5305, fax 1-613-951-3959, email russell wilkins@statcan.gc.ca. If corresponding by email, be sure to include your telephone number and mailing address.

Canadian Vital Statistics and Cancer Registry users *only*: For copies of the control programs and/or provincial or regional subsets of the Canada files, or operational problems getting started using the programs, please contact Colette Brassard, Operations and Integration Division--Health, Statistics Canada, JT2-B20, Ottawa, Ontario \$\mathbb{X}\$1A0T6; telephone 1-613-951-1850, fax 1-613-951-0709, email colette.brassard@statcan.gc.ca. Colette can also handle technical questions related to PC-SAS running under UNIX, DOS or Windows.

Suspected problems with the PCCF or PCCF+

If you have identified possible errors in coding, please look at the SOURCE diagnostic code. If the SOURCE code is F, D or V you may have identified possible errors on the Postal Code Conversion File, so please report these to the Geography Division of Statistics Canada, which is responsible for the creation, maintenance and updates to the PCCF. Include a list of the postal codes which you find suspicious, the geography assigned by the PCCF, and an indication of the nature of the

problem (which fields appear to be wrong?). Contact the GeoHelp desk, Geography Division, Statistics Canada, JT3-B6, Ottawa, Ontario K1A0T6, telephone 1-613-951-3889, fax 1-613-951-0569, email geohelp@statcan.gc.ca.

If on the other hand the SOURCE code is C, I, 3, or 2, the problem is not with the PCCF itself, but rather with the supplementary files created by the Health Analysis and Measurement Group. The same applies to problems with the RESFLG or diagnostic codes (LINK, SOURCE, NCSD, NCD, RPF, PREC, NADR, CODER, CPCCODE). For all such cases, contact Russell Wilkins at the address noted above.

ADDITIONAL REFERENCE INFORMATION

Acceptable characters and numbers in Canadian postal codes

The first character must be in A B C E G H J K L M N P R S T V X Y. The third and fifth characters may be any character valid for the first position, plus W and Z. The second, fourth and sixth positions may be any single numeric digit (0-9). Acceptable syntax does not guarantee that the postal code will be valid; many combinations have never been used. See Appendices F1, F2 and F3 for acceptable characters or combinations of characters in the first 1, 2 or 3 positions, respectively.

Filename extensions

CAN

The filename extensions have the following meaning:

Canada

CAIN	Canada
NF or NL	Newfoundland and Labrador
PE	Prince Edward Island
NS	Nova Scotia
NB	New Brunswick
QC	Québec
ON	Ontario
MB	Manitoba
SK	Saskatchewan
AB	Alberta
BC	British Columbia (including data for YT and NT
YK or YT	Yukon
NT	Northwest Territories
NU	Nunavut
ATL	Atlantic region (NF NS PE NB)
PRA	Prairie region (MB SK AB)
WES	Western region (MB SK AB BC YT NT NU)
DOC	Documentation (in MS Word format)

Abbreviations

Some of the abbreviations used in this documentation and programs are as follows:

AIRLIFT	Canada Post Air Stage community, requiring airlift delivery at least 6 months per year.
ANANAN	Alpha numeric alpha numeric alpha numeric (format of Canadian postal codes)
AR	Census agricultural region (short for PRAR)
BLKF	Blockface (not identified except by latitude longitude and RPF)
BLKURB	Urban block within CMACA area or non-CMACA area
CA	Census agglomeration (included in CMA field)
CCHS	Canadian Community Health Survey
CCS	Census consolidated subdivision (short for PRCDCCS)
CD	Census division (a county-level code; short for PRCD)
CMA	Census metropolitan area (this field also includes CAs)
CODER	PCCF+ program, version and release (eg, R5A=GEORES5A)
CPCCODE	Canada Post community code (corresponding to a postal community name)
CSD	Census subdivision (a municipal-level code; short for PRCDCSD)
CSDNAME	Name of CSD (unique within province and CSDTYPE).
CSDTYPE	Type of CSD.
CSIZE	Community size code (based on 2006 CMACA population)

CT Census tract (a neighborhood-level code; unique within CMA)

DA Census dissemination area; also short for PRCDDA (replaces enumeration area for 2001)

DB or BLK
Dissemination block; short for DByyuid (PRCDDA+BLK)
DIAG
Diagnostic fields (in HLTHOUT and GEOPROB files)

DISTANCE Distance in km between two centroids (shortest or "great circle" distance)

DMTDIFF Previous DMT if different than current DMT.

DMT Delivery mode type (specified by Canada Post)

DPL Designated place (a sub-municipal level code used for unincorporated places; unique within PR)

DPLTYPE Designated place type.

EA96UID Enumeration area (also short for PRFEDEA)
1996 enumeration area (PRFEDEA for 1996).

ER Economic region (formerly "subprovincial region"), unique within PR.

FED Federal electoral district (unique within PR)

FSA Forward sortation area (first three characters of postal code)

GEOPROB SAS dataset name used for the output file containing all problem records

(including errors, warnings and notes)

GMETHOD Geocoding method used to build regular PCCF.

HLTHDAT
SAS dataset name used for the incoming records to be coded
HLTHOUT
SAS dataset name used for the output records after processing
Health region (as defined by provincial health departments)

ID Identifier (unique identifier or registration number, as defined by user)

INSTFLG Institutional flag

IPPE Neighbourhood income per person equivalent (based on 2006 DA summary data)

JCL Job control language (for mainframe computers)

LAT Latitude (North)

LDU Local delivery unit (last three characters of the postal code)

LL Latitude and longitude
LONG Longitude (West)
NSREL North-South relationship

OBS Observations (records in SAS dataset)

PCCF Postal Code Conversion File

PCODE Postal code

POINSTAL Postal installation geography flag.

PR Province and region

QAIPPE Quintile of neighbourhood income per person equivalent (within CMACA or residual)

QILEVEL Quality indicator of PCCF links to community (QICOMM), street (QISTREET) and address (QIADDR)

PREC Precision of geographic coding

PRCDDA Province, census division and dissemination area

PRFEDEA Province, federal electoral district, and enumeration area--latter not shown for 2001

RESFLG Residence flag

RPF Representative point flag (indicates if latitude longitude refer to DA, BLK or BLKF)

SACTYPE Statistical area classification type
SAS Statistical Analysis System
SERV Canada Post service type

SGC Standard Geographic Classification code (PR CD CSD)
SOURCE Source of geographic codes assigned (C D F I 3 2 1 0 or .)

SLI Single link indicator (used mainly to avoid multiple matches when weights not used)

SUB Health district (as defined by provincial health departments)
TRACTED If centroid is in a census tracted area, then TRACTED=1.

UARA Urban area, rural area code

WCF Weighted Conversion File (PCCF-style records with PRCDDA and population-based weights derived from the 2006, 2001 and 1996 censuses, and household-based weights derived from the 1991 census)

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Warning and disclaimer

PCCF+ is intended only for authorized users of the PCCF. Installation, use and/or modification of the control programs and related files are solely the responsibility of the user. The accuracy and consistency of the geographic coding generated by the package should be tested thoroughly and evaluated by the user--prior to employing the package for production runs.

Acknowledgements

For Version 1, René Poulin of the Health Statistics Division, Statistics Canada suggested splitting the PCCF into unique and non-unique records to avoid "many-to-many" matching, as well as counting in modulo, random sorting and use of pointers to cycle through the duplicate records for the same postal code. Edward Ng, then also of the Health Statistics Division, and Ron Cunningham of the Geography Division implemented the routines for distance calculation. Laszlo Szabo, then of the Social Survey Methods Division and Geography Division, created the first Weighted Conversion File from the 1991 Census 2B postal codes and PCCF, and later the FSA to EA equivalences from the 1996 Census 2A postal codes. Jason Pole, then a University of Waterloo Coop student, and Edward Ng revised a routine for household-weighted matching to the Weighted Conversion File. The Small Area and Administrative Division (SAAD) derived the historic DMT field. Robert Parenteau, Richard Nadwodny, Nelson Kopustus, Peter Bissett, Brenda Wannell, Cam McEwen, Ingrid Ivanovs, David Graham, Mary-Ellen Maybee, Kaveri Mechanda and Sandra Porter have each provided considerable help with successive versions of the PCCF, for which they have had responsibility within the Geography Division of Statistics Canada. The current definitions of health regions and health districts (where applicable) were supplied by provincial departments of health, and are subject to change in the future. Health Canada (LCDC/PPHB) provided essential support, encouragement and advice for successive upgrades to the PCCF and for various stages of the development and implementation of PCCF+ (Geocodes/PCCF). Users in several other divisions of Statistics Canada and elsewhere have provided useful comments and suggestions. Thanks to the Data Liberation Initiative (DLI) and encouragement from Assistant Chief Statistician Michael Wolfson, this software is now freely available for eligible university teaching and research purposes. Thanks also to the Canadian Association of Public Data Users (CAPDU), which has been instrumental in helping DLI users to make effective use of the programs.

Table 2
Distribution of postal codes and census population by delivery mode type (DMT), September 2002 PCCF and May 2001 Census.

		PCCF				Census				
Delivery mode type (DMT)	Pcodes		Records		Rec/Pc	Pcodes		Population		Pop/Pc
	n	%	. n	%	av	n	%	n	%	av
·Total	823,556	100.0	1,987,055	100.0	2.4	671,797	100.0	29,779,095	100.0	44
Urban post office (PO) Urban services	•	,								
A (ordinary urban)	717,537	87.1	1,264,191	63.6	1.8	638,936	95.1	20,115,945	67.6	31
B (apartments)	17,291	2.1	27,361	1.4	4.6	16,329	2.4	2,561,093	8.6	157
E (business, etc)	9,193	1.1	25,003	1.3	2.7	2,364	0.4	28,803	0.1	12
G (gov, inst, etc)	8,284	1.0	24,299	1.2	2.9	2,303	0.3	83,971	0.3	36
M (single PO box)	5,052	0.6	19,690	1.0	3.9	- 900	0.1	16,438	0.1	18
Rural services from urban PO										
H (rural route)	996	0.1	58,459	2.9	58.7	1,014	0.2	859,807	2,9	848
J (general delivery)	645	0.1	2,425	0.1	3.8	282	0.0	3,311	0.0	12
K (group of PO boxes)	7,239	0.9	31,681	1,6	4.4	4,402	0.7	231,686	0.8	53
T (suburban service)	77	0.0	1,357	0.1	17.6	60	0.0	15,044	0.1	251
X (mobile route)	. 1	0.0	62	0.0	62.0	1	0.0	179	0.0	179
Z (retired)	52,064	6.3	203,759	10.3	3.9	15	0.0	282	0.0	19
Rural post office	*	,		,						
W (rural PO, all service types)	5,177	0.6	328,768	16.5	63.5	5,191	0.8	5,862,536	19.7	1,129

Note: PCCF Sept 2002. May 2001 census postal codes (with DMT from May 2001).

Table 3

Comparison of population-based coding errors using *PCCF*+ Version 3 (GEORES3A) versus coding errors using the PCCF single link indicator (SLI), versus coding errors using FSA-based imputation (FSA)

Level		FSA %	SLI %	R3A %	Diff SLI-R3A	Ratio SLI/R3A	
PR	Province	0.0	0.1	0.1	0.0	1.00	,
CD	Census Division	0,5	0.6	0.3	0.3	2.00	
CSD	Census Sub-division	4.7	9.4	3.2	6,2	2.94	•
CMA	Census Metropolitan Area /Census Agglom.	0,3	0.4	0.2	0.2	2.00	
CT	Census Tract	11.6	2.7	1.9	454 O'8	1.42	
EA	Enumeration Area	41.8	33.6	15.8	17.8	2.13	
DPL	Designated Place - applicable areas only	30.3	50.9	20.0	30.9	2.55	

te: Population-based coding errors were defined as the sum over all areas at this level of the absolute value of the population coded less the population known from the census sample, expressed as a percentage of the total population in all areas at this level. Based on simple 1% sample of individuals in the 1996 total population. Error percentages calculated after improbable census postal codes excluded from sample.

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APPENDIX A: RECORD LAYOUT OF THE HLTHOUT FILE (.GEO)

```
DATA HLTHOUT; INFILE HLTHOUT;
          /* 2006 VINTAGE CENSUS GEOGRAPHY, UNLESS OTHERWISE NOTED
INPUT
  @ 1
                $CHAR12./* RECORD IDENTIFICATION (AS INPUT)
       ID
       PCODE
                $CHAR6. /* POSTAL CODE (AS INPUT)
  @13
                $CHAR1. /* RESIDENCE FLAG ON PCODES IF DMT=E,G,M
       RESFLG
  @19
                $CHAR2. /* PROVINCE CODE (99=UNKNOWN)
  @20
       PR
                $CHAR2. /* CENSUS DIVISION CODE (00=UNKNOWN)
  @22
                $CHAR3. /* CENSUS SUBDIVISION CODE (999=UNKNOWN)
       CSD
  @24
  @28
       CMA
                $CHAR3. /* CMA OR CA CODE (999=UNKN;000=NOT APPL )
                $CHAR7. /* CENSUS TRACT (9999.99=UNKN; 0000.00=NA)
  @31
       CT
                $CHAR4. /* DISSEMINATION AREA (9999=MISSING)
  @39
       DA
                $CHAR2. /* DISSEMINATION BLOCK (.9=MISSING)
  @43
                $CHAR1. /* INSTITUTIONAL FLAG
  @45
       INSTFLG
                    Z8. /* LATITUDE DEGREES(2)+DECIMALS(6)
       LAT
  @46
  @54
       LONG
                    Z9. /* LONGITUDE DEGREES(3)+DECIMALS(6)
                $CHAR3. /* DESIGNATED PLACE (000=NOT APPL;999=UNKN)*/
  @64
       DPL
                $CHAR1. /* PREVIOUS OR ALTERNATE DMT IF DIFFERENT
       DMTDIFF
  @67
                $CHAR1. /* DELIVERY MODE TYPE:
       DMT
  @68
                $CHAR1. /* LINK TYPE (INCREASING CONFIDENCE)
       LINK
  @69
                $CHAR1. /* SOURCE OF GEOGRAPHIC CODES
  @70
       SOURCE
  @71
       NCSD
                     1. /* NUMBER CSD POSSIBLE AT THIS PCODE 1-9+
                     1. /* NUMBER CD POSSIBLE AT THIS PCODE 1-9+
  @72
       NCD
                $CHAR1. /* REPRESENTATIVE POINT (CENTROID) FLAG
  @73
       RPF
  @74
       SERV
                $CHAR1. /* SERVIČE TYPE
                $CHAR1. /* PRECISION OF LAT LONG (0=LEAST;9=MOST)
  @75
       PREC
                     1. /* NUMBER OF ADDRESS RANGES FOR THIS PCODE
  @76
       NADR
                $CHAR3. /* CODER: 'R4A'=GEORES4A SEPT 2002 PCCF
  @78
       CODER
                $CHAR4. /* CANADA POST COMMUNITY CODE (SEQUENTIAL)
  @82
       CPCCODE
                $CHAR2. /* HEALTH REGION CODE (UNIQUE WITHIN PR)
  @87
       HR
                $CHAR3. /* HEALTH DISTRICT CODE (UNIQUE IN PR/PR+HR (QC ONLY)
       SUB
  @89
                $CHAR1. /* COMMUNITY SIZE CODE (BASED ON CMACA 2001 POP)
  @93
       CSIZE
                $CHAR1. /* NEIGHBOURHOOD INCOME QUINTILE (WITHIN CMACA)
       QAIPPE
  മ95
  @97
       SACTYPE
                $CHAR1. /* STATISTICAL AREA CLASSIF TYPE (INCL TRACTED,
                                                                         MIZ)
       CSIZEMIZ
                $CHAR1. /* URBAN CMACA SIZE + RURAL MIZ
  @98
                $CHAR1. /* NORTH-SOUTH RELATIONSHIP
  @99
       NSREL
                SCHAR1. /* CANADA POST AIR STAGE COMMUNITY (6+ MONTHS/YEAR)
  @100 AIRLIFT
                $CHAR1. /* URBAN BLOCK INDICATOR (1=URBAN; 0=RURAL; 9=MISSING)
  @101 BLKURB
                $CHAR3. /* FEDERAL ELECTORAL DIST (UNIQUE IN PR)
  @103 FED
                $CHAR2. /* ECONOMIC REGION (UNIQUE WITHIN PR)
  @107 ER
                $CHAR2. /* CENSUS AGRICULTURAL REGION (CROP DIST) -UNIQUE IN PR*/
  @110 AR
                $CHAR3. /* CENSUS CONSOLIDATED SUBDIVISION (UNIQUE WITHIN PR)
  @113 CCS
  @117 POINSTAL $CHAR1. /* POSTAL INSTALLATION GEOGRAPHY FLAG (0=NO, 1=YES)
                $CHAR3. /* QUALITY OF LINKS TO COMMUNITY, STREET AND ADDRESS
  @118 QILEVEL
                $CHAR1. /* GEOCODING METHOD USED TO BUILD REGULAR PCCF RECORD
  @121 GMETHOD
                $CHAR8. /* 1981 ENUMERATION AREA (PRFEDEA)
  @123 EA81UID
                $CHAR8. /* 1986 ENUMERATION AREA
                                                  (PRFEDEA)
  @132 EA86UID
                $CHAR8. /* 1991 ENUMERATION AREA (PRFEDEA)
  @141 EA91UID
                $CHAR8. /* 1996 ENUMERATION AREA (PRFEDEA)
  @150 EA96UID
  @159 DA01UID
                $CHAR8. /* 2001 DISSEMINATION AREA (PRCDDA)
                $CHAR8. /* 2006 DISSEMINATION AREA (PRCDDA)
                                                                 7.2
/* THE FOLLOWING FIELDS APPLY TO ALTERNATE PROGRAMS R4XOLD 14XOLD ONLY:
  @177 BTHDATC $CHAR6. /* YYYYMM OF PCCF PCODE BIRTH DATE
  @184 RETDATEC $CHAR6. /* YYYYMM OF PCCF PCODE RETIREMENT DATE
                $CHAR6.; /* YYYYMM OF USERS' PCODE VINTAGE
  @191 PCVDATC
```

The dataset HLTHOUT is sorted first by ID, then by PCODE. If the incoming file HLTHDAT contains any records with identical ID+PCODE, only a single example of each combination will be processed. Then when the HLTHOUT records are merged back to the main file, every record with the same ID+PCODE will be assigned the same geographic codes, even if more than one set of geographic codes were possible for that postal code.

APPENDIX B: RECORD LAYOUT OF THE GEOPROB FILE (.PRB)

```
DATA GEOPROB; SET GEOPROB; BY LINK; FILE GEOPROB;
PUT
               $CHAR12./* RECORD IDENTIFICATION (AS INPUT)
 @ 1 ID
               $CHAR6. /* POSTAL CODE (AS INPUT)
@ 13 PCODE
               $CHAR1. /* RESIDENCE FLAG ON PCODES IF DMT=E,G,M
 @ 19 RESFLG
               $CHAR2. /* PROVINCE CODE (99=UNKNOWN)
 @ 20 PR
               $CHAR2. /* CENSUS DIVISION CODE (00=UNKNOWN)
 @ 22 CD
               $CHAR3. /* CENSUS SUBDIVISION CODE (999=UNKNOWN)
  24 CSD
               $CHAR3. /* CMA OR CA CODE (999=UNKN;000=NOT APPL)
  28 CMA
               $CHAR7. /* CENSUS TRACT (9999.99=UNKN;0000.00=NA)
 @ 31 CT
               $CHAR4. /* DISSEMINATION AREA (9999=UNKNOWN)
 @ 39 DA
               $CHAR2. /* DISSEMINATION BLOCK (00=UNKNOWN)
               SCHAR1. /* INSTITUTIONAL FLAG
 @ 45 INSTFLG
 /* NOTE: GEOPROB HAS DIFF LAYOUT FROM HLTHOUT BEGINNING WITH LAT
               $CHAR2. /* LATITUDE DEGREES(2)
               $CHAR2. /* LONGITUDE DEGREES(3)/10=(2)
 @ 48 LONG
               $CHAR2. /* HEALTH REGION CODE (UNIQUE WITHIN PR)
 @ 51 HR
               $CHAR3. /* HLTH DIST CODE (UNIQUE IN PR /PR+HR(QC))*/
 @ 53 SUB
               $CHAR3. /* DESIGNATED PLACE (999=UNKN:000=NOT APPL)*/
 @ 57 DPL
               /* DIAGNOSTIC FLAGS:
               $CHAR1. /* PREVIOUS DMT IF DIFFERENT
 @ 61 DMTDIFF
               $CHAR1. /* DELIVERY MODE TYPE
 @ 62 DMT
               $CHAR1. /* LINK TYPE
 @ 63 LINK
               $CHAR1. /* SOURCE OF GEOGRAPHIC CODES
 @ 64 SOURCE
                       /* NUM CSD POSSIBLE AT THIS PCODE/FSA/FSA12*/
                1.
 @ 65 NCSD
                        /* NUM CD POSSIBLE AT THIS PCODE/FSA/FSA12
 @ 66 NCD
                1.
               $CHAR1. /* REPRESENTATIVE POINT (CENTROID) FLAG
   67 RPF
               $CHAR1. /* SERVICE TYPE
 @ 68 SERV
               $CHAR1. /* PRECISION (0=LEAST;9=MOST)
 @ 69 PREC
                        /* NUMBER OF ADDRESS RANGES FOR THIS PCODE */
 @ 70 NADR
                1.
 /* NO OTHER FIELDS OF HEALTHOUT PRESENT IN THE GEOPROB FILE
 /* FOLLOWING 3 FIELDS ONLY PRESENT IN GEOPROB FILE:
              $CHAR50. /* BLDG NAME, STREET ADR, CITY
 @ 72 ADR
 @123 CSDNAME $CHARB. /* FIRST 8 CHARACTERS OF CSD NAME
 @131 CSDTYPE $CHAR2.;/* CSDTYPE WITH '*' REPLACING TRAILING '
```

The dataset GEOPROB is sorted first by LINK, then by RESFLG, DMT (or DMTDIFF if DMT='Z'), PCODE, PR, CD, CSD, DA, BLK and ID. That ensures that records with similar types of problems will be grouped together, which will facilitate corrections.

APPENDIX C: EXPLANATION OF FIELDS AND CODES APPEARING IN THE OUTPUT FILES AND PRINTOUTS

Except as noted, the following fields appear on both of the output files (HLTHOUT and GEOPROB) produced by PCCF+. When the same field appears on both files, it does not necessarily appear in the same position.

Identification (ID)

```
@. 1 ID $CHAR12. /* ID OR REGIST NUMBER (AS INPUT) */
```

Record identification. This field will appear exactly as read in from the HLTHDAT file, including leading or trailing blanks, if any, plus all numbers, letters and special characters. The ID can be any combination of alphabetic, numeric or other characters.

Postal Code (PCODE)

```
@ 13 PCODE $CHAR6. /* POSTAL CODE (ANANAN) */
```

Postal code. The first three characters of the postal code represent the Forward Sortation Area (FSA). The last three characters represent the Local Delivery Unit (LDU). A zero (0) in the second position of the postal code indicates service from a *rural* post office. Rural route services and suburban route services are also provided from *urban* post offices (where the second position of the postal code is <u>not</u> 0), in which cases the PCCF will show a Delivery Mode Type (DMT) of H (rural route service) or T (suburban route service).

Lower case alphabetic characters in the postal code field will be converted to upper case prior to matching.

If the province of residence is known (but nothing else), then the first letter of the postal code on your incoming file should correspond to the first letter for that province as assigned by Canada Post (for example, use B for a Nova Scotia resident of unknown address).

Residence Flag on Postal Code if DMT is E, G or M (RESFLG)

If the delivery mode type (DMT) is E, G or M, then RESFLG indicates postal codes for possible or improbable residence addresses, or postal codes for which the residential or non-residential nature is undetermined. If the DMT is not in E, G or M, then RESFLG will be blank. See GEOPROB output (@72 ADR. \$CHAR50.) for Canada Post building name and address information, if available.

Province, Census Division and Census Subdivision (PRCDCSD)

This field is composed of three subfields:

The form of this field tells you how much is known, and how much is unknown about each of the three subfields. The output will have one of the following forms (where each "n" represents a number from 0 through 9):

nnnnnn	PR CD and CSD known
nnnn999	PR and CD known, CSD unknown
nn00999	PR known, CD and CSD unknown
9900999	PR CD and CSD unknown

See the 2006 Standard Geographical Classification (SGC) for lists of valid codes for PR PRCD and PRCDCSD. A missing CD is indicated by 00 (since 99 is a legitimate CD code in northern Quebec); other missing fields for SGC are filled with '9's. Files CDNAMES and CSDNAMES show the names of each CD and CSD.

Census Metropolitan Area/Census Agglomeration and Census Tract (CMACT)

This field is composed of two subfields:

The form of this field tells you how much is known, and how much is unknown about each of the subfields. The output will have one of the following forms (where each "n" represents a number from 0 through 9):

000 000.00	Not in any CMA or CA
· nnn nnn.nn	CMA/CA with urban Census Tract
nnn 999.99	CMA/CA with urban Census Tract, but CT unknown
999 999 99	CMA/CA unknown, and CT unknown (if any)

Note that CMA codes 996-999 as shown in 2006 GeoSuite are not true CMA codes as defined by the 2006 Standard Geographic Classification, but rather Statistical Area Classification (SAC) codes, including Metropolitan Influence Zones (MIZ). Only true CMA codes are shown here, plus 999 for unknown CMA, and 000 for not in any CMA (or CA).

Dissemination Area (DA)

```
@ 39 DA $CHAR4. /* DISSEMINATION AREA (UNIQUE WITHIN PRCD); 9999=MISSING */
```

The dissemination area is the smallest geographic unit for which population characteristics are diffused from the 2006 census. In censuses prior to 2001, that role was filled by the enumeration area, but for the 2001 and 2006 censuses, the enumeration area was used for collection purposes only.

Dissemination Block (BLK)

```
@ 43 BLK SCHAR2. /* DISSEMINATION BLOCK (UNIQUE WITHIN PRCDDA); 00=MISSING */
```

A dissemination 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. There may be as many as 99 blocks within a DA, so the missing value for block is a period.

Institutional Flag (INSTFLG)

This field is used to help identify records likely to be for institutional residents. It is usually blank. The categories should not be expected to correspond to the classification of facilities used by the Health Statistics Division, provincial or territorial authorities.

Beginning with the following fields, the record layout of the GEOPROB file differs from that of the HLTHOUT file. Where fields are common to both files, only the layout for the HLTHOUT file is shown as program lines, although differences in the GEOPROB file may be mentioned in the field description and shown within square brackets.

Latitude and longitude (LAT LONG)

```
@ 46 LAT Z8. /* LATITUDE DEGREES(2)+DECIMALS(6) */ [@ 46 LAT Z2. on GEOPROB file] @ 53 LONG Z9. /* LONGITUDE DEGREES(3)+DECIMALS(6) */ [@ 48 LONG Z2. on GEOPROB file]
```

Latitude and longitude. If SOURCE=F, D, C or I, then the latitude and longitude shown refer to dissemination area, block or blockface coordinates (the RPF field tells you which, and the PREC field indicates the spatial precision of the coding). If SOURCE=I, 3 or 2, then the latitude and longitude shown will be the average latitude and longitude of all postal codes in that FSA or aggregate of FSAs. The latter are clearly only approximate locations, so the corresponding distance calculations will also be only approximate. If the first two characters of the postal code were invalid, then latitude and longitude will be unknown, and each field will contain a single period ("."), which indicates a missing numerical value. Exceptionally for these two fields, 99999999 and 999999999 are not used to indicate missing values, since those would have been taken as legitimate values for the distance calculations, thus resulting in extreme distances, rather than missing distances. Note that in the GEOPROB file, in order to conserve space only two places after the implied decimal are shown.

Designated Place (DPL)

```
@ 64 DPL $CHAR3. /* DESIGNATED PLACE (999=UNKN;000=NONE) */
[@ 57 DPL $CHAR3. on GEOPROB file]
```

The Designated Place (DPL) field is for a generally submunicipal level geography which was new with the 1996 census, and only applicable in some provinces. For 2006, a DPL is defined as a group of census blocks which refer to an unincorporated place usually within a single census subdivision (CSD), but some cross CSD boundaries, of which a few also cross census division (CD) boundaries. Note that because DPLs mostly occur in areas served by rural postal codes (where a single postal code serves a group of DAs and many census blocks), such areas are difficult or impossible to define with reasonable accuracy in terms of postal codes alone. File DPLNAMES shows the names of the DPLs assigned by provincial authorities.

Diagnostic flags (DMTDIFF, DMT, LINK, SOURCE, NSCD, NCD, RPF, SERVE, PREC, NADR)

Note: There are now 10 characters (with no spaces between them) for diagnostic flags on both the HLTHOUT and GEOPROB files. These diagnostic flags are for DMTDIFF, DMT, LINK, SOURCE, NCSD, NCD, RPF, SERV, PREC and NADR. In addition, the GEOPROB file and printout will show truncated address information (if applicable), or Designated Place Name (if applicable), or Canada Post Community Name or Census Division Name, and Census Subdivision Name and Census Subdivision Type (if known or estimated from partial matching).

Different Delivery Mode Type (DMTDIFF)

```
@ 67 DMTDIFF $1. /* PREVIOUS OR ALTERNATE DMT IF DIFFERENT */
[@ 61 DMTDIFF $1. on GEOPROB file]
```

This field is for the previous Delivery mode type (DMT) if different from the current DMT. This usually occurs when the current DMT=Z (retired).

Delivery Mode Type (DMT)

```
@ 68 DMT $1. /* DELIVERY MODE TYPE */ [@ 62 DMT $1. on GEOPROB file]
```

The Delivery Mode Type is a single character which will be W if delivery is from a rural post office, or will be another alphabetic character if delivery is from an urban post office, or 9 if DMT is missing or not applicable. The Delivery Mode Type is determined by Canada Post, except that, beginning with Version 3 of PCCF+, W is always used in place of blank for any delivery mode from a rural post office.

- W Rural postal codes (regardless of type of service) now always have a DMT of W. Where more than 1 CSD is served by the rural post office, this will result in a Note to that effect on the GEOPROB file. No action is recommended in such cases, since manual coding would defeat the population-weighted allocation.
- A Ordinary household (including community mail boxes) served by letter carrier. The most common DMT; usually no problem.
- B Apartment building (large) served by letter carrier. No problem with this DMT.

- Business buildings served by letter carrier. This DMT results in a Warning message, with the suggestion to check postal code/address, to see if they refer to a legitimate residence or office location. In most cases, the RESFLG field will indicate whether the postal code is probable or improbable as a place of residence. The building name and brief address are shown on the GEOPROB file. The legitimacy of a postal code with this DMT may also depend on the nature of the records being coded: appropriate codes for offices are not necessarily appropriate for residences.
- Large Volume Receiver served by letter carrier (includes many institutions). This DMT results in a Warning message, with the suggestion to check postal code/address, to see if they refer to a legitimate residence or office location. In most cases, the RESFLG field will indicate whether the postal code is probable or improbable as a place of residence. The building, company or institution name and brief address will be shown on the GEOPROB file. The legitimacy of postal codes with this DMT may also depend on the nature of the records being coded: appropriate codes for offices are not necessarily appropriate for residences. For example, a postal code for a nursing home may be reasonable for coding the place of usual residence on a death record, but it would be highly suspicious on a birth record.

Special note concerning Delivery Mode Types H, J, K, M, R and T: Except on rare occasions, it is no longer necessary to manually recode records with a DMT of H (for rural route delivery from an urban post office), J (General Delivery-pick up from an urban post office counter), K (pick-up from group of urban post office boxes), or T (suburban service delivery from an urban post office). Most postal codes with those DMTs can now be assigned a full set of geographic codes by reference to the WCF (SOURCE=C). That also applies to many postal codes with DMT of M (pick up from a single large urban post office box) and R (miscellaneous services; no longer used by Canada Post).

- Rural route delivery from urban post office. For most rural routes, the WCF shows the 2006 Census 2A population weights associated with each PCODE/PRCDDA combination. As rural routes serve large areas, more than one CSD or CD may be linked to a postal code with this DMT, in which case the record will be output to the GEOPROB file with a Note to that effect. If the SOURCE is not equal to 'C', then only PR and CMA will be imputed from FSA, since the service area of these postal codes extends out into adjacent rural FSAs.
- J General delivery (poste restante). Residence location may be available from census data (WCF, SOURCE=C). Otherwise, this DMT will result in an Error, and the only geographic codes assigned would be based on population-weighted imputation within the FSA (SOURCE=I) or on "most likely" values for the FSA (SOURCE=3).
- K Group of post office boxes. Residence location may be available from census data (WCF). Otherwise, this DMT will result in an Error, and the only geographic codes assigned would be based on population-weighted imputation within the FSA (SOURCE=I) or on "most likely" values for the FSA (SOURCE=3).
- Single post office box. If present on the WCF (SOURCE=C), will be fully coded. In most cases, the RESFLG field will indicate whether the postal code is probable or improbable as a place of residence. The building, company or institution name and brief address will be shown on the GEOPROB file. If not present on the WCF, postal codes with this DMT will result in an Error, since the PCCF only links postal codes with this DMT to post office location. In that case the only geographic codes which could be assigned would be imputed from population-weighted imputation within the FSA (SOURCE=I), or on based on "most likely" values for the FSA (SOURCE=3).
- R Miscellaneous delivery services. Residence location may be available from census data (WCF). Otherwise, this DMT will result in an Error, as the regular PCCF only links these to post office location, and the only geographic codes which could be assigned would be based on "most likely" values for the FSA. DMT R is no longer used by Canada Post, but it may appear in the field for previous DMT.
- Suburban service delivery (rare). Residence location may be available from census data (WCF). Otherwise, this DMT will result in an Error, as the regular PCCF only links these to post office location, and the only geographic codes which could be assigned would be based on "most likely" values for the FSA.

DMT=X is only linked to post office location, and thus results in an Error message as well as output to the GEOPROB file. However, since in such cases the first three characters of the postal code are known to be valid, then a "most likely" PR and CMA may often be imputed and an average LAT and LONG for the FSA would be assigned by the programs.

- Mobile route (urban industrial areas; rare). This DMT will result in an Error, as the regular PCCF only links these to post office location, and the only geographic codes which could be assigned would be based on "most likely" values for the FSA.
- Rural postal codes. Usually geography for records with rural postal codes will be derived from the Weighted Conversion File (SOURCE=C).

- Z Retired postal codes. Usually the DMTDIFF field will show the previous DMT for retired postal codes. If so, the LINK and other diagnostic codes make use of the DMTDIFF. However, if DMTDIFF is blank, then there is a slight chance that a currently retired postal code may have formerly had a DMT of E, G, M or X, so this condition will result in output of the record to the problem file with a Warning message to that effect.
- 9 Not applicable. No exact match to the PCCF or WCF, hence DMT is unknown. These will result in an Error message as well as output to the GEOPROB file. A partial set of geographic codes may still be assigned based on the first 1, 2 or 3 characters of the postal code (SOURCE=1, 2, 3 or 1).

Link type code (LINK) - (formerly PROB prior to Version 4)

@ 69 LINK \$1. /* LINK TYPE (INCREASING CONFIDENCE) */ [@ 63 LINK \$1. on GEOPROB file]

The meanings of the numbers in this field are as follows:

- 0 Error: No match to PCCF (UNIQ, DUPS, or WCF).
- Error: Linked to PO geography.
- Warning: Non-residential. DMT=E, G or M and EGMRES=- (probable non-residential).
- Warning: Business building (may possibly not be a legitimate residence). DMT=E and EGMRES=blank.
- Warning: Commercial or institutional (check if legitimate residence). DMT=G or M and EGMRES=blank.
- 5 Warning: Retired postal code (slight chance of DMT problem prior to retirement, if DMT=Z, and DMTDIFF=blank).
- 6 Note: Multiple match to CSD. CSD assigned by random allocation among possible CSDs shown in PCCF, with equal weight to each DA or BLK served. No further action required.
- Note: Multiple match to CSD. CSD assigned by random allocation among possible CSDs shown in WCF, based on distribution of population by postal code and DA at the time of the 2001 census (no further action required).
- Not applicable (no error, warning or note). Such records do not appear on the GEOPROB file or printout.

The link type code identifies the type of problems encountered in coding. The link type codes (LINK) and corresponding messages (MESSAGE) are arranged in hierarchical order, starting with 0 for the most serious problems, and going to 9 for no problem at all (not even a Warning or Note). If more than one type of problem was present, only the worst type is shown.

Source of Geographic Codes (SOURCE)

@ 70 SOURCE \$1. /* SOURCE OF GEOGRAPHIC CODES AND LAT/LONG */ [@ 64 SOURCE \$1. on GEOPROB file]

The possible values of this field are as follows:

- F A full set of geographic codes and latitude/longitude were derived from an exact match to a PCCF unique record.
- D A full set of geographic codes and latitude/longitude were derived from an exact match to a PCCF duplicate record.
- C A full set of geographic codes and latitude/longitude were derived from an exact match to a WCF record (for DMT of H, J, K, some M, R, T, W, or Z).
- I Full geography was imputed from the first 3 characters of a postal code (when DMT=9 or most M), using census population weights.
- A partial set of geographic codes was assigned based on only the first 3 characters of this postal code (if 90% certain). Average latitude and longitude of the FSA were assigned.
- A partial set of geographic codes were assigned based on only the first 2 characters of this postal code. Average latitude and longitude of the FSA12 were assigned (if 90% certain). CT and DA+BLK always set to missing values. All of the records with this SOURCE are due to unknown (non-existent) postal codes.
- A province code was assigned based on only the first character of this postal code. No other geographic codes or latitude and longitude were assigned. All of the records with this SOURCE are due to unknown (non-existent) postal codes.
- The first character of this postal code is not in the set used for Canadian postal codes. No geographic codes assigned.
- V A full set of geographic codes and latitude/longitude were derived from an exact match to a PCCFUNIQ record for a postal code with an FSA of V1H or V9G, including geography from the period prior to the rebirth of those FSAs in their new locations. This SOURCE only occurs where the program R5xOLD or 15xOLD is used to recode British Columbia FSAs which were moved by Canada Post.

Coding Completing Summary Code (CCSUM)

In Versions 3, 4 and 5, this field is not present in either output file, but is calculated for frequency tables in the printouts. This field shows how many geographic codes were assigned. It is the sum over all of the coding completion variables, which each have a value of 1 if a given geographic code was assigned.

- No geographic codes were assigned, or latitude and longitude.
- 1 One geographic code was assigned: a province code, with no latitude or longitude.
- Two geographic codes were assigned: a province and Census Division or Census Metropolitan Area / Census Agglomeration code, plus an average latitude and longitude for the FSA or aggregate of FSAs.
- Three geographic codes were assigned: province, Census Division and Census Subdivision; or province, Census Division and Census Metropolitan Area or Census Agglomeration, plus an average latitude and longitude for the FSA or aggregate of FSAs.
- Four geographic codes were assigned: province, Census Division, Census Subdivision, and Census Metropolitan Area or Census Agglomeration, plus an average latitude and longitude for the FSA or aggregate of FSAs.
- 6 Six geographic codes were assigned: province, Census Division, Census Subdivision, Census Metropolitan Area or Census Agglomeration, Census Tract (if applicable) and Dissemination Area, plus the latitude and longitude of the Dissemination Area.
- 7 All 7 geographic codes were assigned: province, census division, census subdivision, census metropolitan area or census agglomeration, dissemination area, and census block, plus the latitude and longitude of the block or blockface.

Number of Census Subdivisions (NCSD)

```
@ 71 NCSD 1. /* NUMBER CSD POSSIBLE AT THIS PCODE (1-9+) */ [@ 65 NCSD 1. on GEOPROB file]
```

This field indicates the number of Census Subdivisions served in whole or in part by this postal code. A value of 9 indicates 9 or more. Most urban postal codes serve only one Census Subdivision.

Number of Census Divisions (NCD)

```
@ 72 NCD 1. /* NUMBER CD POSSIBLE AT THIS PCODE (1-9+) */ [@66 NCD 1. on GEOPROB file]
```

This field indicates the number of Census Divisions served in whole or in part by this postal code. A value of 9 indicates 9 or more. Most urban postal codes serve only one Census Division.

Representative Point Flag (RPF)

Service Type (SERV)

Precision (PREC)

```
@ 75 PREC $1. /* PRECISION OF LAT LONG (0=LEAST; 9=MOST)
                                                                 [@69 PREC $1. on GEOPROB file]
                       BLKF
                                 IN 1 DA; DMT IN (A B E G)
                   R=1
                        BT.K
                                 IN 1 DA: DMT IN (A P E G)
                       DA:
                                          DMT IN (ABEG)
                   6=2+ DA'S:
                                          DMT IN (ABEG)
                   ABOVE SERVICE POINTS < 200 M DIST
                     SO DA'S ADJACENT AND FEW
                   5=1+ DA'S; DMT IN (H-Z), FROM WCF POP WEIGHTS
                   4=DA, ETC IMPUTED FROM FSA POP WEIGHTS
                   3=CODES IMPUTED FROM FSA
                                              W/OUT WT
                  2=CODES IMPUTED FROM FSA12 W/OUT WT
                   1 #PR
                           IMPUTED FROM FSA1
                   0=NO GEOGRAPHIC CODING POSSIBLE (NOT EVEN PR)
```

Number of Address Ranges (NADR)

```
@ 76 NADR 1.;/* NUMBER ADRRESS RANGES FOR THIS PCODE (1-9+) */ [@70 NADR 1. on GEOPROB file]
```

This field indicates the number of address ranges served by this postal code. A value of 9 indicates 9 or more. The address ranges may be on different streets. Only the first or last address, range (if applicable) is shown in the problem file output and printout

The following two fields (CODER and CPCCODE) are not present on the GEOPROB file:

Coder (CODER)

```
@ 78 CODER $3. /* CODER: R5A=GEORES5A APR 2007 PCCF */ [ not on GEOPROB file]
```

The PCCF+ program and version is indicated by the CODER field. For example, CODER I5A indicates that the GEOINS program was run using the April 2007 vintage of the PCCF. Information about the coder is necessary for interpretation of the Canada Post Community Code (CPCCODE), and for understanding why certain categories of postal codes were coded the way they were. Using the wrong program to do the coding (GEORES for office coding, or GEOINS for residential coding—the opposite of what was intended) could easily go undetected without this field.

Canada Post Community Code (CPCCODE)

Canada Post Communities were numbered sequentially after arranging in alphabetical order within provinces and territories. The numbering of communities will clearly change anytime there is an addition, deletion of a community, or change in spelling of a community name. That is why the CPCCODE can only be interpreted if correctly paired with the corresponding list of communities (see file PCCFYYMM.CPCOMM). For example, CODERs R5C and I5C use the community list of March 2008; the use of a list from any other month or year would be meaningless.

HR Health Region

```
0 67 HR $CHAR2. /* HEALTH REGION CODE (UNIQUE WITHIN PR) (99=MISSING) */ [0 51 HR $CHAR2. on GEOPROB file]
```

Health regions are subprovincial areas defined by provincial departments of health. In some cases, those definitions may split dissemination areas or blocks between two or more health regions, but to simplify the coding here, each DA+BLK has been uniquely assigned to a single health region. Since each health region covers many DAs, most of which are not split, this simplification should have little effect on the number of events coded to each health region. The two-character HR code is only unique within a given province. Where a province only uses a single digit to represent a health region, a zero has been added preceding that digit. Note that the definitions used were generally those in effect on 31 December 2007, but the

definitions may be changed by provinces at any time, particularly in provinces without a long history of producing data by health region. See Appendix H1 for a summary of health regions by province and type, and Appendix H3 for a complete list of health regions. File HRNAMO7 shows the name of each HR, including unofficial descriptive names for unnamed HRs.

Health District (SUB)

```
0 89 SUB $CHAR3. /* HEALTH DISTRICT CODE - UNIQUE WITHIN PR OR PR+HR (QC ONLY) */
[@ 53 SUB $CHAR3. on GEOPROB file] /* BLANK=NOT APPLICABLE; 999=APPLICABLE BUT MISSING */
```

Health districts are geographically-defined areas which are smaller than health regions. They are defined by several but not all provincial departments of health. In most but not all cases, health districts are subdivisions of health regions. In all cases, a health district code is only unique within a given province. In Quebec and Alberta, the health district (CLSC) code is only unique within the province and health region. Where a province uses only one or two characters to represent a health district, the second and/or third characters will be blank. See Appendix H2 for a summary of health districts by province and type, and Appendix H4 for a complete list of health districts. File Subnamor shows the name of each health district. Source: Same as for health regions. Alphabetic codes corresponding to Toronto Health Planning Areas (major and minor areas) have been appended as a suffix to Ontario health district code 95. The definitions for the latter were provided by the Toronto Public Health Department.

The following 5 fields are not present on the GEOPROB file:

Community Size (CSIZE)

Community Size is defined in terms of the 2006 census population in each census metropolitan area or census agglomeration (CMA or CA), as shown above. Community Size 1 consists of Toronto, Montreal and Vancouver CMAs. Community Size 2 consists of Ottawa-Gatineau, Edmonton, Calgary, Québec, Winnipeg and Hamilton CMAs. Community Size 3 includes all 18 other CMAs plus 7 of the larger CAs. Community Size 4 includes all 106 other CAs. Community Size 5—"rural and small town Canada"—includes all places not included in any CMA or CA. (i.e., places with an urban area population less than about 10,000, plus rural areas). Note that the lower threshold of CSIZE=1 has been increased, since Qttawa-Hull is much closer in size to Edmonton and Calgary than to Montreal, Vancouver or Toronto.

Note that almost all records with a valid FSA (whether or not the rest of the postal code is valid) can be assigned to a CMA or CA, and thus to a CSIZE category. According to Statistics Canada's recommended definition, rural and small town Canada (Plessis et al, 2001) is defined as CSIZE='5'.

Neighbourhood Income Quintile (QAIPPE)

Neighbourhood income per person equivalent (IPPE) is a household size-adjusted measure of household income, based on 2006 census summary data at the DA level, and using person-equivalents implied by the 2006 low income cut-offs (LICOs). Note that the 2001 single person equivalents were 1.00 for 1 person, 1.25 for 2 persons, 1.55 for 3 persons, 1.95 for 4 or 5 persons, and 2.44 for 6 or more persons sharing the same household (regardless of age). For a description of how IPPE was calculated previously based on 1991 census summary data and single-person equivalents from the 1991 LICOs, see Ng et al. (1993).

Within each CMA, CA or provincial residual area not in any CMA or CA, the DA average IPPE was used to rank all DAs, and then the population was divided into approximate fifths, thus creating community-specific income quintiles based on IPPE. The quintiles were defined within each area in order to better reflect the relative nature of this measure, to minimize the effect on household welfare of large differences in housing costs, and to ensure that each CMA or CA would have about an equal percentage of the population in each income quintile.

The following five fields are new beginning with Version 4:

Statistical Area Classification Type (SACTYPE)

In census metropolitan areas and census agglomerations, the Statistical Area Type is defined by characteristics of the CMACA. In areas outside of any census metropolitan area or census agglomeration, the Statistical Area Type is defined by characteristics of the census subdivision, based on commuting flows to work in census metropolitan areas or census agglomerations (metropolitan influence zone or MIZ). For more details, see the following source: McNiven C, Puderer H, Janes D. Census Metropolitan Area and Census Agglomeration Influence Zones (MIZ): A Description of the Methodology. Geography Working Paper Series No. 2000-2. Catalogue No. 92F0138MPE. Ottawa: Geography Division, Statistics Canada, 2000.

Community Size and Metropolitan Influence Zone (CSIZEMIZ)

This variable is a combination of the CSIZE variable for urban areas, and of the SACTYPE variable for rural areas. See the definitions of each for more information.

North-South Relationship (NSREL).

The North-South relationship classification (NSREL) is described in the following source: McNiven C, Puderer H. Delineation of Canada's North: An examination of the North-South relationship in Canada. Geography Working Paper Series No. 2000-3. Catalogue No. 92F0138MPE. Ottawa: Geography Division, Statistics Canada, 2000. For PCCF+, NSREL is determined by the 1996 census subdivision code.

Canada Post Air Stage Community (AIRLIFT)

```
@100 AIRLIFT $CHAR1. /* *=CANADA POST AGE STAGE COMMUNITY (6+ MONTHS/YEAR) */
```

"An Air Stage Office is a Post Office to or from which all mail must be airlifted for more than six (6) months of every year as a viable surface transportation alternative is not available. These offices are generally confined to remote or isolated communities. An office designated an Air Stage Office is deemed to be Air Stage for the whole year."

http://www.canadapost.ca/tools/pg/manual/PGairstage-e.asp (Last updated: 2007-09-17)

Urban Block Flag (BLKURB)

Use of this field is not recommended, because coding to block in areas served by rural postal services is always imputed from a randomly selected dissemination area, based on population weights for each block served, so classification of such blocks as urban or rural is only probabilistic. Classification based on urban postal codes is much more certain, as the specific block is almost always known with much greater certainty. This field is defined as follows: IF UARA GE 9910 THEN BLKURB=0; ELSE IF UARA NE. THEN BLKURB=1; For geography based on postal codes, a far more robust definition is Statistics Canada's recommended definition of "rural and small town Canada" (Plessis et al, 2001) -- where CSIZE='5' (all non-CMACA).

Federal Electoral District -- 2003 Representation Order (FED)

```
■ 103 FED $CHAR3. /* FEDERAL ELECTORAL DISTRICT, 2003 LIST */
```

A Federal Electoral District is the area represented by member of the House of Commons. The Federal Electoral Districts used for the 2006 Census were based on the 2003 Representation Order (list). If missing, FED will be set to 999. If an exact match to the PCCF was not possible, but the postal code indicated an urban FSA, then the FED may have been imputed proportionally to the population using that FSA (SOURCE=1). Otherwise (when SOURCE=3, 2 or 1), the FED will be 999. File FEDNAMES shows the official name of each FED.

Economic Region (ER)

```
@107 ER $2. /* ECONOMIC REGION (UNIQUE WITHIN PR)
```

An economic region (formerly "subprovincial region") is a collection of complete census divisions (except for one CD in Ontario which is split between 2 ERs) which is used for analysis of regional economic activity. The Ontario CD of Halton (3524) is split between the ER of Hamilton-Niagara Peninsula and the ER of Toronto. The ER code is only unique within a given province or territory. File ERNAMES shows the name of each ER.

Census Agricultural Region (AR) or Crop District

```
⊕ 110 AR $CHAR2. /* CENSUS AGRICULTURAL REGION (CROP DISTRICT) -UNIQUE IN PR ±/_
/* 00=TERRITORIES; 99=MISSING BUT APPLICABLE
```

Census agricultural regions are used by the Census of Agriculture for disseminating agricultural statistics. ARs are composed of groups of adjacent census divisions, except in Saskatchewan, where they are composed of groups of adjacent census consolidated subdivisions (CCS) not respecting census division boundaries. ARs are not defined for the territories. The AR code is unique only when preceded by the province code. File ARNAMES shows the name of each AR, including unofficial descriptive names for otherwise unnamed ARs.

Census Consolidated Subdivision (CCS)

```
@ 113 CCS $CHAR3. /* CENSUS CONSOLIDATED SUBDIVISION--UNIQUE IN PR (999=MISSING)*/
```

CCSs are composed of groups of adjacent census subdivisions within the same census division. The CCS code is unique only when preceded by the province and census division codes. File CCSNAMES shows the name of each CCS, which is the same as that of its largest CSD.

Postal Installation Geography Flag (POINSTAL)

```
@117 POINSTAL $CHAR1. /* POSTAL INSTALLATION GEOGRAPHY FLAG (0=NO, 1=YES, 2=UNKN) */
Quality indicators for PCCF links at each of three levels (QICOMM, QISTREET, QIADDR):
```

Quality Indicator for PCCF Link to Community (QICOMM)

```
@118 QICOMM $1. /* QUALITY INDICATOR FOR PCCF LINK TO COMMUNITY */
/* A=VERY GOOD, B=GOOD, C=FAIR, N=NO MATCH, U=UNKNOWN */
```

Quality Indicator for PCCF Link to Street (QISTREET)

```
@119 QISTREET $1. /* QUALITY INDICATOR FOR PCCF LINK TO STREET */
/* A=VERY GOOD, B=GOOD, C=FAIR, N=NO MATCH, U=UNKNOWN */
```

Quality Indicator for PCCF Link to Address Range (QIADDR)

```
@120 QIADDR $1. /* QUALITY INDICATOR FOR PCCF LINK TO ADDRESS RANGE */
/* A=VERY GOOD, B=GOOD, C=FAIR, N=NO MATCH, U=UNKNOWN */
```

Geocoding Method Used to Build Regular PCCF Record (GMETHOD)

```
@121 GMETHOD $CHAR1. /* GEOCODING METHOD USED TO BUILD REGULAR PCCF RECORD */
/* 1=AUTO, 2=CENSUS, 3=2001 CONVERSION, 4=MANUAL */
```

1981 Enumeration Area (EA81UID)

```
@ 123 EA96UID $CHAR8. /* 1981 ENUMERATION AREA = PR(2)+FED(3)+EA(3) */
```

This field shows the 1981 enumeration area (PRFEDEA), based on the 2006 dissemination block to 1981 enumeration area correspondence file.

1986 Enumeration Area (EA86UID)

```
# 132 EA86UID $CHAR8. /* 1986 ENUMERATION AREA = PR(2)+FED(3)+EA(3) */
```

This field shows the 1986 enumeration area (PRFEDEA), based on the 2006 dissemination block to 1986 enumeration area correspondence file.

1991 Enumeration Area (EA91UID)

```
@ 141 EA91UID $CHAR8. /* 1991 ENUMERATION AREA = PR(2)+FED(3)+EA(3) */
```

This field shows the 1991 enumeration area (PRFEDEA), based on the 2006 dissemination block to 1991 enumeration area correspondence file.

1996 Enumeration Area (EA96UID)

```
@ 150 EA96UID $CHAR8. /* 1996 ENUMERATION AREA = PR(2)+FED(3)+EA(3) */
```

This field shows the 1996 enumeration area (PRFEDEA), based on the 2006 dissemination block to 1996 enumeration area correspondence file.

2001 Dissemination Area (DA01UID)

```
@ 159 DA01UID $char8. /* 2001 DISSEMINATION AREA (PRCDDA) */
```

2006 Dissemination Area (DA61UID)

```
@ 168 DA01UID $char8. /* 2006 DISSEMINATION AREA (PRCDDA) */
```

The following three fields (ADR, CSDNAME, CSDTYPE) are not present on the HLTHOUT file, they only appear on the GEOPROB file:

Building Name and Address (ADR)

```
@ 72 ADR $50. /* BLDG NAME (IF APPL), STREET ADR, CITY */ [only on GEOPROFFile]
```

This field shows either (1) a somewhat abbreviated building name (if applicable), plus a street address and Canada Post community name (if available), or (2) a designated place name (if applicable) followed by the designated place type within parentheses, followed by a space plus the Canada Post community name (if available), followed by a colon (:) plus an abbreviated census division name and type code (if available), or (3) the Canada Post community name (if available), followed by a colon, plus an abbreviated census division name and type code. The contents of this field are intended to provide the most useful written description of the exact location which can be shown more or less readably in 50 spaces. This field only applies to problem records; it is not shown on the HLTHOUT file or printout.

With respect to Canada Post community names, note that the service areas of postal communities are defined by Canada Post with little regard for municipal boundaries established by local authorities, and that is frequently a source of confusion for geographic coding. Also, many smaller rural municipalities have no post office of their own, so those municipal names will appear only rarely in mailing addresses.

The census division name (if present) shows the first 16 characters of the alphabetic name corresponding to the PRCD code of the Standard Geographical Classification, plus a space, followed by the 3-character CSDTYPE. If the CD field is missing (00), the 20 characters immediately following the colon will be blank. If a building name and address plus Canada Post community name are shown, then no census division name and type will be shown.

Census Subdivision Name (CSDNAME)

```
@123 CSDNAME SCHAR8. /* FIRST 8 CHAR OF CSD NAME */ [only on GEOPROB file]
```

This field contains the first 8 characters of the Census Subdivision Name. If the Census Subdivision (the last three positions of the PRCDCSD field) is missing (999), then the CSDNAME field will be blank. A truncated version of the CSDNAME field is shown only on the GEOPROB file and printout; it does not appear on the HLTHOUT file or printout. See file CSDNAMES for the complete name and corresponding CSDTYPE.

Census Subdivision Type (CSDTYPE)

```
@131 CSDTYPE $2. /* CSD TYPE WITH * REPLACING TRAILING BLANK */ [only on GEOPROB file]
```

This field contains a one or two character abbreviation of the Census Subdivision Type. To facilitate uploading and downloading, if the second (and last) character of this field is blank, the blank will be replaced by an asterisk in order to ensure that every record will be of the same fixed length. (Uploading and downloading utility programs frequently delete trailing blanks, which would otherwise produce variable record lengths for successive records. The asterisk at the end of each record ensures that this won't happen. This field is shown only on the GEOPROB file and printout; it does not appear on the HLTHOUT file or printout.

Distance (DISTANCE)

This field shows the distance (in km) from the latitude and longitude centroid of the Montreal Children's Hospital to the centroid of the HLTHOUT record. If latitude and longitude of the HLTHOUT record could not be determined (that is, if their values were "."), then DISTANCE will be missing (indicated by a single period ("."). This field appears only on the printout of the HLTHOUT dataset. It is not written to the corresponding file, since DISTANCE was calculated merely as an illustration of how the latitude and longitude information can be used. For more details on the use of latitude and longitude for the calculation of distances using the PCCF, see Ng E and Wilkins R, How far is it to the nearest hospital? Health Reports 1993;5(2):157-177. A SAS program for calculating distances from each record in one file to the record for the record with the closest latitude and longitude on another file is included (DIST5X.SAS): see Appendix K.

Message (MESSAGE)

A brief explanatory message corresponding to the link type code (LINK) appears in the summary table and on the GEOPROB printout only; it does not appear in the GEOPROB or HLTHOUT files.

```
/* BRIEF MESSAGE DESCRIBING PROBLEM */

0 'ERROR: NO MATCH TO PCCF---CHECK PCODE/ADDRESS &OR CODE MANUALLY';

1 'ERROR: LINKED TO PO GEOG--CODE MANUALLY IF RESID ADD AVAILABLE;

2 'WARNING: NON-RESIDENTIAL---CHECK PCODE/ADDRESS (LEGITIMATE RES?)';

3 'WARNING: BUSINESS BLDG---CHECK PCODE/ADDRESS (LEGITIMATE RES?)';

4 'WARNING: COMMERC/INSTITU--CHECK PCODE/ADDRESS (LEGITIMATE RES?)';

5 'WARNING: RETIRED PCODE----CHECK PCODE/ADDRESS IF OLD DMT UNKNOWN';

6 'NOTE: MULT MATCH TO CSD--DISTRIBUTED AMONG APPLIC DA/BLK/BLKFACE';

7 'NOTE: MULT MATCH TO CSD--DISTRIBUTED BY POP WEIGHTS OBSERVED';

9 'NO PROB (ERR, WARN, NOTE)---NO ACTION REQUIRED';
```

The link type codes (LINKs) and corresponding messages (MESSAGEs) are arranged in hierarchical order, starting with 0 for the most serious problems, and going to 9 for no problem at all (not even a warning or note). If more than one type of

problem was present, only the worst type is shown. The "no problem" message only appears on the summary table, since records with no problems (error, warning or note) are not part of the GEOPROB file or printout.

The following three fields are only present on the output from R5xOLD and I5xOLD, which are used with older data for assigning geographic codes to British Columbia FSAs which have now been moved by Canada Post:

Birth date of postal code as used in this location (BTHDATC)

@177 BTHDATEC \$CHAR6. /* YYYYMM OF BIRTH DATE OF PCCF PCODE */
[only present on OLDCODES and HLTHOUT2 files produced by R5xOLD or I5xOLD]

Retirement date of postal code as used in this location (RETDATC)

@184 TDATEC \$CHAR6. /* YYYYMM OF RETIREMENT DATE OF PCCF PCODE */
[only present on OLDCODES and HLTHOUT2 files produced by R5xOLD or I5xOLD]

Postal code vintage (PCVDATC)—for alternate programs R5xOLD, I5xOLD only

@191 VDATC \$CHAR6. /* YYYYMM OF USER'S POSTAL CODE VINTAGE (AT THIS LOCATION) */
[from user input and written to OLDCODES and HLTHOUT2 files produced by R5xOLD or I5xOLD]

In this context, vintage refers to the year and month when the user's postal code was reported or generated (looked up). In most cases, the date of the event will be a reasonable proxy for the vintage of the postal code on the user's file. However, if postal codes were missing when the data were collected, and subsequently looked up or generated (manually or by computer), then the vintage of the postal code may be months or even years later than the date of the event. Note that it is common for retired postal codes to remain in use for many months or even years after their retirement by Canada Post. However, it is safe to assume that newly created postal codes are not reported until after the postal code birth date indicated by Canada Post.

This field is created by user input and is only present in the OLCODES and HLTHOUT2 files produced by the supplemental programs R5x and I5OLD which are used to assign the old geographic coding to British Columbia FSAs V1H and V9G. Postal codes with those two FSAs were first retired and then subsequently moved and reused by Canada Post. V1H was moved about 400km south beginning 1 July 1997, while V9G was moved about 100km south beginning 1 April 1999. Beginning with Version 3E, the regular programs GEORES3x and GEOINS3x print a warning if your data contain either of the two FSAs which were moved. If your data do not include postal codes with those FSAs, or if your data only contains postal codes of vintage April 1999 or later, then use of the alternate programs is unnecessary and will have no effect on the coding produced by the regular programs GEORES5x and GEOINS5x.

APPENDIX D: SAMPLE OUTPUTS FROM THE PCCF+ PACKAGE

Summary table of results of the automated geographic coding

SUMMARY OF AUTOMATED CODING RESULTS USING GEOCODES/PCCF VERSION 5

RECORDS	PERCENT	PROB MESSAGE ACTION	
3996 131 5 3 241 65 1 535 3012	100.00 3.28 0.13 0.08 0.08 6.03 1.63 0.03 13.39 75.38	COTAL RECORDS INPUT FROM HLTHDAT (ID + PCODE) DERROR: NO MATCH TO PCCFCHECK PCODE/ADDRESS &OR CODE MANUALL LERROR: LINKED TO PO GEOGCODE MANUALLY IF RESID ADD AVAILABLE WARNING: NON-RESIDENTIALCHECK PCODE/ADDRESS (LEGITIMATE RES? WARNING: BUSINESS BLDGCHECK PCODE/ADDRESS (LEGITIMATE RES? WARNING: COMMERC/INSTITUCHECK PCODE/ADDRESS (LEGITIMATE RES? WARNING: RETIRED PCODECHECK PCODE/ADDRESS IF OLD DMT UNKNOWN NOTE: MULT MATCH CSD-PCCF-DISTRIBUTED AMONG APPLIC DA/BLK/BLKE NOTE: MULT MATCH CSD-WCFDISTRIBUTED BY POP WEIGHTS OBSERVED NO PROB (ERR, WARN, NOTE)NO ACTION REQUIRED	? ?) ?) ?) OWN
8 39 2 12 8 3927	0.20 0.98 0.05 0.30 0.20 98.27	NOT CODED AT ALL PARTIALLY CODED TO PR ONLY PARTIALLY CODED TO PR + (CD OR CMA) & APPROX LAT LONG PARTIALLY CODED TO PR+CD+CMAAND APPROX LAT LONG PARTIALLY CODED TO PR+CD+CMA+CSDAND APPROX LAT LONG FULLY CODED TO PR+CD+CMA+CSD+CT+BLKAND DA/BLK/BLKFACE LAT LONG	

Sample output from the HLTHOUT dataset

GEO FILE)
(.GEO
DATASET
HLTHOUT
THE
FROM
OUTPUT
SAMPLE
ļ
VERSION
ES/PCCF
COOR

ID	PCODE	PRCDCSD CMA	CMA	ដ	- ;	DABLK	LAT	LONG	DPL	DIAG	VER	COMM	HRSUB	ပ	S 0	D	FED	R	AR	SSS	EA96UID	DAUGUID	
1304183010	H1A5H8	2466025	462	580	~	000601	4	5689925073486893	000	A90111172	850	3297	06302	-	3 11	٠ در	044	9	9	0.25	74045417	24660006	
1304183033	H1A5G4	2466025	462	582.0	_	292702	4	90735			R5C	3297	06302		3 118	i m	044	40	, w	025	24045358	2466292	
1304183332	GIHZCI	2423030	421	273.01	.01	082102	4	6856140071245151			RSC	2602	03500	2	2 125		0.15	202			24016455		
1304183333	G1H7B3	2423030	421	273.0]	.01	081902	4	6850294071240870	000		RSC	2602	03500	2	2 125		5	2			24016452	24220819	
1304183632	GBT8L9	2437055	442	200.0	_	015910	4	0082	000		R5C	2576	04407	1 m	1 138	1 (7	014	2 2			24014354	437015	
1304184533	J8V2P3	2481015	505	841.0	m	037906	4	5510303075735348	000	A9D111176	R5C	2769	07300	2	3 125	S	023	9			24015556	24810379	
1304185031	G1P1H6	2423025	421	039.	~	065901	4	6822089071329615	000		R5C	3334	03204	7	1 125	s 1	052	20	03	025	24054103	2423065	
1304185033	G2E5Y7	2423055	421	140.0	m	048004	Ţ	6805995071370318	000	A9D111163	RSC	2878	03101	7	2 12S.	S. 1	052	20	93	090	24054063	24230480	
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1601002733	L8V3V5	3525005	537	005.0		059702	ਧਾ	3217763079851251	000		R5C	4833	0437	7	1 125	s 1	030	20	- -	200	35030108	35250597	
1601005410	R2G0E6	4611040	602	I41.02	٠.	071402	ਯ	9938906097090500	00.		RSC	6254	10	7	2 125	s 1	013	20	60	040	46008417	46110714	
1601005431	R2V3K2	4611040	602	552.03	~	00000	4	9952430097133317	000			6254	10	0	4 12S	S	013	20	60	040	46009208	46110006	
1601007832	P7A5G4	3558004	595	015.0	_	014505	4	8438993089226888	000			5576	1462	m	1 135	S 1	087	95	05		35084320	35580145	
1601007833	P7B3H1	3558004	595	011.0		031611	4.	8421824089235996	000			5576	1462	m	1 138	s 1	087	95	0.5	004	35084410	35580316	
1601009010	M6S4Y8	3520005	535	050.01	5	147401	٠ م	3637293079471415	000		RSC	5589	0795B	-	4 11S	s 1	064	30	03	005	35063258	35204007	
1601009033	M6P2H9	3520005	533	100,0		140201	4	3664058079462540	000	-	RSC	5589	0795E	-	3 11S	H S	064	30		005	35098002	35201402	
1601010231	K7M7B4	3510010	521	014.0	_	013602	ব্য	4250712076533691	00			4975	1041	ო	1 135	2	036	15	04	010	35037506	35100136	
1601011533	L5C3S8	3521005	535	527.08	~	069101	4	3577841079654532	000	-		5131	0653	7	3 118	s 1	046	30	02	005	35049404	35210691	
1601011910	SOEIEO	4714076	000	0.000	_	002403	S	3357244104031461	000	W7C934459		6768	80	'n	1 67R	и и	900	50	8A (072	47002573	47140158	
1601013832	L7R4M7	3524002	537	207.01	_	053802	7	3334767079821521	000	B9F111191	R5C	4482	0436	~	3 125	S	010	20		002	35008115	35240538	
1601016133	L2S2M9	3526053	539	003.0	_	037804	4	3145861079253296	000	-	RSC	5500	0446	ო	1 138	2	051	20	010	053	35090216	35260378	
160101/132		3543042		002.0	_	038106	4	4367352079679190	000			4382	1260	m	5 238	2	002	40			35079159	35431008	
160101/421		3538030		102.0	~	015804		42973744082365802	000	4,		5418	0142	℧	3 24\$	s 1	071	70	010	030	35072209	35380158	
160101/633		3520005		0.690	_	383001		43669948079342406	000	A9F11119		5589	0795I	7	2 118	s 1	008	30		. 500	35006061	35203830	
160101/910	N4B2W4	3528052	547	000	_	008011	₽.	42780803080574625	000			4637	0234	4	4 34S	s o	027	20	010	052	35018012	35280301	
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1601019332	POTOCT	3521005	25	540.03		037901	4	53413079585884	000			5131	0653	-	1 118	s S	048	30			35048068	35210379	
12/6101010	MARSHO	4611040	700	133.0		2000/0	4, .	9527590097100976	000			6254	10	7	2 128	S T	014	20			46014203	46110705	
16010201031	M4E3M6	3520005	230	022.00		3/9901		436/9294079286660	000			5589	0795K		5 118	s 1	003	30			35002068	35203799	
1601020131	TIFIRS	4813031	000	000	_	004620		54164822113845804	000			7746	7602	'n	4 67R	R, 1	00	20			48001057	48130230	
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1601030710	LSC3L4			527.08	_	069502	4	3576525079661365	8	A9F1111	c s	5131	0653	-	4 11S	بر دی	046	30	02 (200	35049405	35210695	
1601030733	LSASTI			521.06	90	185901	4	3597525079626646	8	B9F111191		5131	0653	–	2 133	S J	047		02.0	005 3	35047113	35211826	
1601031231	LSN223		53/	033.00	_	044701	4	3246956079851089	8	A9F111191	U	4833	0437	7	1125	7	029		07	005	35032002	35250447	
1601632031	K8A/W4			000.00		004912	4	5817759077093184	8	A9F112181		5283	1157	d,	348	۲A	070	15	04.0	075 3	15068254	35470224	
1001035332	RZKUKS	4611040		134.00			4.	9930495097093590	8	11	RSC (6254	10	7	3 12	N	014	20	60	0	46014208	46110712	
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	CDTYP CSDNAME TY		1 DIV CONCEPTIT*	MRC	CU DOLLARD-V*	DIV TORONTO C*		RD.	A RD CENTRAL KU			* * ^			* MONT	# * * * * * * * * * * * * * * * * * * *	*	*	*		RRAMPTONC*	EDMONTONC*		BURN BURNABY C*		MONT	TORONTO C*	WATERLO		C WINN WINNIPEGG		EDMONTON	N VANC CREATER RD
NO NOTES)	CDNAME		:Avalon Peninsul	:Rimouski-Neiget	:Montreal	: Frontenac	.Winniped	:Thompson-Nicola	:Central Okanaga	: רמה זרמ ז		:Winnipeg UPPER GULLIES			SA 222 HENRI-BOURA MONT	SK RD RICHMOND HIL	24 ST NW EDMONTON	V 200 MONTREAL	ST PENTICTON		NOEGNEGG S SEE			OF TECHNOLOGY 4200	ELIZABETH AVE ST.	EGARE, LOUVAIN 1729	M RD SCARBOROUGH	ONIVERSITY AVE W W	ST SE PORTAGE LA	WINNIPEG, KAPYONG BARRAC WINN	S SKU SI SM DAUER. BE ST REGINA		CNAV NII TARRILLA ORON V
PERSONAL MARNINGS. BIT	BLDG NAME, ADR (CPCOMM: CMA)		St. John's CMA	NOT CMACA		Kingston CMA	Toronto cmA	Kamloops CA1	Kelowna CAl:Westbank (UNP)	Victoria CMA	•	HEADINGLEY: Winnipeg CMA			CENTRE MEDICAL HENRI-BOURASSA	BUSINESS BUILDING 120 NEWKIRK RD RICHMOND HILL	FOCUNALE OFFICE COMPLEA 3003 ELECT DE SA PROPIES TRUST PIAZA 10216 124 ST NW EDMONTON	VIDEOTRON LIEE 405 OGILVY AV 200 MONTREAL	CITY OF PENTICTON 171 MAIN ST PENTICTON			APARTMENT BLDG 430 MCMURCHI AVE HYS MEDICAL CENTRE 11010 101 ST		PETERSON COLUMNIA INSTITUTE OF TECHNOLOGY 4200 BURN			_	KIPLING ACKES HOME FOR THE AGED 2233 ALFLERS FIGHT INTURESTRY OF WATERLOO 200 UNIVERSITY AVE W WATERL	LION'S PRAIRIE MANOR	CANADIAN FORCES BASE	DAUPHIN GENERAL HOSPITAL 623 3KU SI SM DROFAIN FXTENDICARE/PARKSIDE 4540 RAE ST REGINA		Care v double of the second
DES/PCCF VERSION 5	DPL DIAG	ANDALLY	90131994.	901949949			9 902892. 0 90111994			0 90I51994.	AVAILABLE	0 JZ1122824.		II KES?)			9 E2F119191			E RES?)	1	00 E3F111191 00 E3F111191	re res?)		Ď,	000 G4D112171 000 G4F111191		000 G4F111191			000 G4F111191 000 G4F111191	-	
	AKTIAL LL	ODE/ADDRESS &OR CODE MANUALLY	4705	001009 4806 01 000	90	4407 0241	999900 4307 999999 999	5012 14	4911 13	048004 4812 41 000	RESID ADD	999900 4909 99 000	i	HECK PCODE/ADDRESS (LEGIT	666 66 006666	66666	•			PCODE/ADDRESS (LEGITIMATE		020201 4307 0653 000 020808 5311 25 000	CODE/ADDRESS (LEGITIMATE		4912 22 4705 01	003010 4805 03 , 0000	0495N	184101 4307 0495A 00	4508 0105 84909 40	10	001114 5110 60 00	3010 04 H5311 25	
B dataset (.GEO)	E. CMA CT . DABLK	PCCFCHECK PCODE/A	001 301.02	000 000 000	462 521.01	521 008.00	535 999.99	925 006.00	915 102.02	935 154.02	GEOGCODE MANUALLY IF	602 999.99	001 999.	PCODEC	462 999.99	535 999.99	825 999.99	835 999.99	913 000.00	BLDGCHECK PCODE/		535 572.05 835 046.00	-CHECK P		933 230.01 001 013.00	010 000.00	535 356.00	535 246.00	607 000.00	602 510.02	000 000 000	835 032.02	
Sample printout from the GEOPROB dataset (.GI	PCODE PRCDCSD	NO MATCH TO PCCF-	t .	GOK2KO 2410005				K3N3L2 4611040 VTS4X1 5933042		V9C5T3 5917044	LINKED TO PO GEOC	!	A1X4G9	NON-RESIDENTIAL	H3L1B9-2400999	L4C9S7-3500999			V2A5A9-5900999	BUSINESS BLDG-	!	L6Y2N4@3521010 T5H4B9@4811061	COMMERC/INSTITU-	4		A2A2E101006017			NZL3G1@3530016			34838464706027 T5K01484811061	
Sample printou	ID	0 ERROR: NO	1202050810	1201026310	1301031010	1602451310	1604153110	1604305110	1802068310	1803049810	1 ERROR: LI	1604055531	1201059710	2 WARNING:	1304154932	1603422510	1602226510	1601088310	1804030033	3 WARNING:		1604118533 1604503732	4 WARNING:		1801082533 1202190833	1202154133	1603169333	1602154410	1604515931	1603468632	1601086332	1603548732	T0077777

API	PE.	ND	IX	E
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Census Metropolitan Areas and Census Agglomerations in numerical order, 2006Census

classification, indicating if area is census tracted

APPENDICE E

Régions métropolitaines de recensement et Agglomérations de recensement en ordre numérique, selon la classification du recensement de 2006, avec indication si les secteurs de recensement s'appliquent

CMA/CA	CT	Туре	Name	Tracted
RMR/AR	SR	Туре	Nom	Secteurs
000	00.00	Not in CMA/C	A Non dans une RMR/AR	
000	000.00	Not ill CiviA/C	A Non dans the RMR/AR	
001	999.99	CMA/RMR	St John's	CT/SR
005	000.00	CA/AR	Bay Roberts	•
010	00.00	CA/AR	Grand Falls-Windsor	
015	000.00	CA/AR	Corner Brook	
105	00.00	CA/AR	Charlottetown	
110	000.00	CA/AR	Summerside	
205	999.99	CMA/RMR	Halifax	CT/SR
210	00.00	CA/AR	Kentville	
215	000.00	CA/AR	Truro	
220	00.00	CA/AR	New Glasgow	
225	000.00	CA/AR	Cape Breton (Sydney)	
305	999.99	CA/AR	Moncton	CT/SR
310	999.99	CMA/RMR	Saint John	CT/SR
320	000.00	CA/AR	Fredericton	
328	00.00	CA/AR	Bathurst	
329	000.00	CA/AR	Miramichi	•
330	000.00	CA/AR	Campbellton	
335	000.00	CA/AR	Edmundston	
403 •	000.00	CA/AR	Matane	•
404	000.00	CA/AR	Rimouski	
405	000.00	CA/AR	Rivière-du-Loup	
406	00.00	CA/AR	Baie-Comeau	
408	999.99	CMA/RMR	Chicoutimi-Jonquière	CT/SR
410	00.00	CA/AR	Alma -	
411	000.00	· CA/AR	Dolbeau-Mistassini	#11
412	000.00	CA/AR	Sept-Îles	
421	999.99	CMA/RMR	Québec	CT/SR
428	000.00	CA/AR	Saint-Georges	01/01/
430	00.00	CA/AR	Thetford Mines	
433	999.99	CMA/RMR	Sherbrooke	CT/SR
437	00.00	CA/AR	Cowansville	·
440	00.00	CA/AR	Victoriaville	
442	999.99	CMA/RMR	Trois-Rivières	CT/SR
444	000.00	CA/AR	Shawinigan	01/510
446	00.00	CA/AR	La Tuque	
447	999.99	CA/ÁR	Drummondville	CT/SR
450	999.99	CA/AR	Granby	CT/SR
452	000.00	CA/AR	Saint-Hyacinthe	(1)
454	000.00	CA/AR	Sorel-Tracy	
456	00.00	CA/AR	Joliette	•
459	999.99	CA/AR	Saint-Jean-sur-Richelieu	CT/SR
462	999.99	CMA/RMR	Montréal	CT/SR
465	000.00	CA/AR	Salaberry-de-Valleyfield	CIOR
468	000.00	CA/AR CA/AR	Lachute	
480	000.00	CA/AR CA/AR	Val-d'Or	,. - -
481	000.00	CA/AR CA/AR	Amos	· _
485	000.00	CA/AR CA/AR	Rouyn-Noranda	
702	000.00	CNAK	Kouyii-iyo anua	

CMA/CA	CT	Туре	Name	Tracted	•
RMR/AR	SR	Туре	Nom	Secteurs	
501	000.00	CA/AR	Comwall		
502	000.00	CA/AR	Hawkesbury		
505	999.99	CMA/RMR	Ottawa-Hull (Gatineau)	CT/SR	
512	000.00	CA/AR	Brockville		
515	00,000	CA/AR	Pembroke		
516	00,00	CA/AR	Petawawa		•
521	999.99	CMA/RMR	Kingston	CT/SR	
522	999.99	CA/AR	Belleville	CT/SR	
527	00.00	CA/AR	Cobourg		
528	00.00	CA/AR	Port Hope and Hope	•	
529	999.99	CA/AR	Peterborough	CT/SR	
530	00.00	CA/AR	Kawartha Lakes (Lindsay)		
<i>5</i> 31	00.00	CA/AR	Centre Wellington		
533	000.00	CA/AR	Ingersoll		
532	999.99	CMA/RMR	Oshawa	CT/SR	
535	999.99	CMA/RMR	Toronto	CT/SR	•
537	999.99	CMA/RMR	Hamilton	CT/SR	
539	999.99	CMA/RMR	St Catharines-Niagara	CT/SR	•
541	999.99	CMA/RMR	Kitchener	CT/SR	
543	999.99	CA/AR	Brantford	CT/SR	
544	00.00	CA/AR	Woodstock		r
546	00.00	CA/AR	Tillsonburg		
547	00.00	·CA/AR	Norfolk (Simcoe)		
550	999.99	CA/AR	Guelph	CT/SR	
553	000.00	CA/AR	Stratford		
555	999.99	CMA/RMR	London	CT/SR	
556	000.00	CA/AR	Chatham-Kent	•	•
557	00.00	CA/AR	Leamington		
559	999.99	CMA/RMR	Windsor	CT/SR	
562	999.99	CA/AR	Sarnia (Sarnia-Clearwater)	CT/SR	
566	000.00	CA/AR	Owen Sound -	•	
567	000.00	CA/AR	Collingwood	ati	
568	999.99	CA/AR	Barrie	CT/SR	
569	000.00	CA/AR	Orillia		
571	000.00	CA/AR	Midland		
575	999.99	CA/AR	North Bay	CT/SR	
580	999.99	CMA/RMR	Sudbury	CT/SR	
582	00.00	CA/AR	Elliot Lake		
584	00.00	CA/AR	Haileybury		
586	000.00	CA/AR	Timmins		
590	999.99	CA/AR	Sault Ste. Marie	CT/SR	
595	999.99	CMA/RMR	Thunder Bay	CT/SR	
5 9 8	000.00	CA/AR	Kenora		
602	999.99	CMA/RMR	Winnipeg	CT/SR	
607	00.00	CA/AR	Portage la Prairie	<u></u>	
610	000.00	CA/AR	Brandon		
640	00.00	CA/AR	Thompson		
705	999.99	CMA/RMR	Regina	CT/SR	
710	00.00	CA/AR	Yorkton		
715	000.00	CA/AR	Moose Jaw	•	
720	00.00	CA/AR	Swift Current		
725	999.99	CMA/RMR	Saskatoon	CT/SR	
735	00.00	CA/AR`	North Battleford	, · · ~	
745	00.00	CA/AR	Prince Albert	•	
750	00.00	CA/AR	Estevan		

CMA/CA RMR/AR	CT SR	Type Type	Name Nom	Tracted
	JIX	t ypc	Non	Secteurs .
805	999.99	CA/AR	Medicine Hat	CT/SR
806	000.00	CA/AR	Brooks	,
810	999.99	CA/AR	Lethbridge	CT/SR
820	000.00	CA/AR	Okotoks	
825	999.99	CMA/RMR	Calgary	CT/SR
828	00.00	CA/AR	Cranmore	
830	999.99	CA/AR	Red Deer	CT/SR
833	00.00	CA/AR	Camrose	
835	999.99	CMA/RMR	Edmonton	CT/SR
840	00.00	CA/AR	Lloydminster	
845	000.00	CA/AR	Cold Lake (Grand Centre)	
850	000.00	CA/AR	Grande Prairie	
860	00.00	CA/AR	Wood Buffalo (Fort McMurray	<i>(</i>)
865	000.00	CA/AR	Wetaskiwin	
905	00.00	CA/AR	Cranbrook	
913	00.00	CA/AR	Penticton	
915	999.99	CA/AR	Kelowna	CT/SR
918	00.00	CA/AR	Vernon	
920	00.00	CA/AR	Salmon Arm	•
925	999.99	CA/AR	Kamloops	CT/SR
930	00.00	CA/AR	Chilliwack	
932	999.99	CMA/RMR	Abbotsford (Matsqui)	CT/SR
933	999.99	CMA/RMR	Vancouver	CT/SR
934	000,00	CA/AR	Squamish	,
935	999.99	CMA/RMR	Victoria	CT/SR
937	00.00	CA/AR	Duncan ·	
938	999.99	CA/AR	Nanaimo	CT/SR
939	000.00	CA/AR	Parksville	
940	000.00	CA/AR	Port Alberni	•
943	000.00	CA/AR	Courtenay	•
944	00.00	CA/AR	Campbell River -	,
945	000.00	CA/AR	Powell River	mt é
950	00.00	· CA/AR	Williams Lake	
952	000.00	CA/AR	Quesnel	
955	000.00	CA/AR	Prince Rupert	
960	000.00	CA/AR	Kitimat	
965	00.00	CA/AR	Terrace	
970	999.99	CA/AR	Prince George	CT/SR
975	00.00	CA/AR	Dawson Creek	
977	00.00	CA/AR	Fort St. John	
990	00.00	CA/AR	Whitehorse	
995	000.00	CA/AR	Yellowknife	
999	999.99	CMA/CA unkn	ownRMR/AR inconnu	CT/SR?

Note: Former names (from 1991 or 1996 or 2001 census) shown in parentheses if different.

Nota: Les anciens noms (du recensement de 1991, 1996 ou de 2001) sont indiqués entre parenthèses s'ils ont changé.

APPENDIX F GEOGRAPHIC CODING FROM PARTIAL POSTAL CODES BASED ON PCCF

APPENDIX F1
APPENDIX F2
APPENDIX F3
Geographic coding from the first character of the postal code
Geographic coding from the first two characters of the postal code
Geographic coding from the first three characters of the postal code

APPENDIX F1 GEOGRAPHIC CODING FROM THE FIRST CHARACTER OF THE POSTAL CODE

_	Province/Territory	Standard Abbreviation
Letter	Major Geographic Area (Canada Post)	Woncaignon
A	Newfoundland and Labrador	NF, NL
В .	Nova Scotia	NS
С	Prince Edward Island	PE
E	New Brunswick	NB
GHJ	Québec	QC
G	Québec East	•
Н	Montréal Metro	•
J	Québec West	
KLMNP	Ontario	ON
K	Eastern Ontario	
L	Central Ontario	
M	Toronto Metro	
N	Southwestern Ontario	
P	Northern Ontario	
R	Manitoba	MB
S	Saskatchewan	SK
T	Alberta	AB
V	British Columbia	BC
X	Northwest Territories	NT -
X	Nunavut	NU -
X Y	Yukon	YK, YT

In the PCCF, some postal codes may be linked to a different province from their first character allocation. Those records are not mistakes; they reflect the reality of Canada Post sortation and delivery patterns.

APPENDIX F2 GEOGRAPHIC CODING FROM THE FIRST TWO CHARACTERS OF THE POSTAL CODE

FS	FSA12 - FIRST TWO CHARACTERS OF POSTAL CODE
NPC	NUMBER OF POSTAL CODES
CMA	MOST COMMON CENSUS METROPOLITAN AREA OR CENSUS AGGLOMERATION (CMA/CA)
PCMA	PERCENTAGE OF POSTAL CODES WITHIN THAT CMA/CA
PRCD	MOST COMMON CENSUS SUBDIVISION (CD)
PCD	PERCENTAGE OF POSTAL CODES WITHIN THAT CD
PRCDCSD	MOST COMMON CENSUS SUBDIVISON (CSD)
PCSD	PERCENTAGE OF POSTAL CODES WITHIN THAT CSD
AVLAT	AVERAGE LATITUDE IN DEGREES(2)+DECIMALS(6)
AVLONG	AVERAGE LONGITUDE IN DEGREES(3)+DECIMALS(6)
T	1=CMA/CA IS CENSUS TRACTED; 0=CMA/CA NOT TRACTED
•	

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GEOGRAPHIC CODING FROM FIRST TWO CHARACTERS OF THE POSTAL CODE
    FS NPC CMA PCMA PRCD PCD PRCDCSD PCSD AVLAT AVLONG
 NEWFOUNDLAND AND LABRADOR - TERRE-NEUVE ET LABRADOR
A0 8720 000 91.6 1001 36.4 1010025 3.6 48692998 055088390 0
Al 14510 001, 94.9 1001 96.5 1001519 44.2 47597789 052895286 1
A2 4619 015 42.8 1005 43.3 1005018 41.6 49270448 058618991 0
A8 1061 000 100.0 1005 98.3 1005004 75.2 49202405 057425012 0
NOVA SCOTIA - NOUVELLE ECOSSE
BO 12350 000
             79.2 1212 11.3 1207001
                                      6.2 45076455 063718581 0
B1 15659 225 97.8 1217 97.8 1217030 96.8 46147758 060158701 0
B2 14528 205 33.2 1209 33.2 1209034 33.2 45323562 062612204 1
B3 11459 205 100.0 1209 100.0 1209034 100.0 44650437 063639261 1
B4 9495 000 48.1 1209 36.6 1209034 36.6 44937568 064147955 0
B5 1982 000 100.0 1202 98.4 1202006 78.6 43848198 066115568 0
     782 000 100 0 1215 96.4 1215002 67.1 45637082 061361888 0
PRINCE EDWARD ISLAND - ILE DU PRINCE-EDOUARD
CO 3064 000 88.4 1103 38.4 1103051 3.5 46393913 063288804 0
C1 6715 105 69.0 1102 69.2 1102075 49.0 46294117 063324159 0
NEW BRUNSWICK - NOUVEAU BRUNSWICK
EO
     779 000 84.0 1305 14.1 1305022
                                      6.5 46389014 066076066 0
                        50.5 1307022 38.1 46522230 065014890 1
             59.5 1307
E1 15877 305
             70.5 1301 49.8 1301006 46.9 45830833 065994531 1
E2 13036 310
E3 12573 320 51.4 1310
                       46.5 1310032 32.7 46438924 067076430 0
E4 19010 000
             88.7 1307 39.2 1307016
                                      7.9 46138331 064948817 0
E5 6840 000
             62.2 1305 43.6 1302026
                                      6.6 45360280 066341074 0
E6
    3104 000
             72.9 1310 96.3 1310036 10.1 45987063 067023061 0
E7 9362 000
             79.1 1311 47.2 1313027 17.6 46739566 067807609 0
E8 6361 000 93.2 1315 59.2 1314017 10.2 47782720 065756752 0
E9 2026 000 100.0 1309 98.4 1309036 22.7 46969757 065532936 0
QUEBEC
GO 33748 000 86.1 2419
                         5.3 2425005
                                      1.5 47310886 069878275 0
G1 24214 421 100.0 2423 100.0 2423025 33.9 46819596 071258016 1
G2 6660 421 100.0 2423 100.0 2423025
                                      41.3 46837120 071334689 1
.G3 6385 421 62.3 2423 62.3 2423050 27.0 46896799 071422039 1
G4 7682 000
             43.6 2497 36.0 2497010 32.2 49399082 066494830 0
G5 15513 000
             37.2 2429
                        26.1 2429075
                                      24.3 47570479 069452730 0
             46.7 2424 24.2 2424020
G6 18462 421
                                     21.5 46408126 071394919 1
G7 12025 408
             85.5 2494 88.0 2494070
                                     35.4 48207620 071152540 1
G8 19470 442
             32.9 2437
                        32.9 2493040
                                     22.3 47948976 072253309 1.
G9 10906 444
             58.6 2436 58.6 2436028
                                     22.4 46593926 072669965 0
      26 462 80.8 2465 80.8 2465005 80.8 45596425 073754401 1
H1 18591 462 100.0 2466 100.0 2466025 66.2 45602237 073567214 1
H2 12312 462 100.0 2466 100.0 2466025 94.2 45531435 073593846 1
H3 19253 462 100.0 2466 100.0 2466025 79.5 45526882 073581040 1
H4 11889 462 100.0 2466 100.0 2466025 44.8 45497248 073647974 1
H5 184 462 100.0 2466 100.0 2466025 100.0 45505555 073563883 1
H7 17586 462 100.0 2465 100.0 2465005 100.0 45584462 073742239 1
H8 6619 462 100.0 2466 100.0 2466040 40.2 45452405 073720556 1
H9 11031 462 100.0 2466 100.0 2466095 17.3 45458899 073843107 1
J0 53471 000
             80.5 2477
                        6.6 2477045
                                      1.8 45911707 073909726 0
             57.7 2443 57.3 2443025 31.4 45402097 071977030 1
J1 13499 433
J2 20960 450
             28.0 2447 29.0 2454045 19.3 45543203 072799842 1
                       35.7 2453052 16.1 45617648 073243552 1
82.2 2458030 `40.2 45520845 073471763 1
J3 19864 462
             63.4 2457
J4 12772 462 100.0 2458
J5 10840 462
             80.6 2460 49.7 2460028 20.8 45713608 073523125 1
             64.9 2464 27.7 2464010 19.9 45584375 073732693 1
98.9 2473 27.5 2474005 10.4 45612533 073906771 1
J6 19207 462
J7 21611 462
J8 20248 505 62.1 2481 52.1 2481015 30.1 45663266 075170281 1
J9 14973 000 30.0 2481 22.8 2486033 16.1 47114840 077103037 0
```

```
ONTARIO
KO 23077 000 63.9 3506 13.6 3506008 13.6 44884429 076631417 0
K1 20952 505 100.0 3506 99.9 3506008 99.9 45405662.075653963 1
K2 14532 505 100.0 3506 100.0 3506008 100.0 45325412 075801349 1
                                     78.4 45404421 075467527 1
K4 4995 505
             99.9 3506
                       78.4 3506008
             55.1 3501
                        56.8 3501012
                                      54.1 44978275 075001277 0
K6 7214 501
                       41.3 3510010
                                      41.2 44613422 076449034 0
             56.1 3510
K7 15349 000
                                      32.9 44942336 077325422 1
  9938 522
             50.9 3512
                        51.7 3547064
                                      50.5 44250562 078392667 1
             55.9 3515
                        56.3 3515014
  9410 529
                        34.2 3543064
                                      11.0 43837075 079602011 0
LO 19101 000
             35.2 3543
L1 24599 532 60.9 3518 95.3 3518013 26.5 43889998 078896495 1
L2 18189 539 100.0 3526 100.0 3526053
                                      49.4 43117811 079164068 1
            60.6 3519 56.9 3519036 42.7 43759213 079355697 1
1.3 23930 535
                                      29.9 43952919 079547401 1
                        63.9 3519028
L4 37369 535
            BO.7 3519
                                      99.6 43578973 079683154 1
L5 21016 535 100.0 3521
                        99.9 3521005
                        48.5 3521010
                                      48.1 43640506 079683774 1
L6 24763 535 100.0 3521
                                      56.4 43527431 079817659 1
L7 13570 537 56.4 3524 76.2 3524002
                        99.8 3525005 99.8 43234567 079817558 1
L8 15006 537 100.0 3525
                       36.8 3525005 36.8 43854474 079835175 1
L9 19055 537 37.0 3525
M1 21549 535 100.0 3520 100.0 3520005 100.0 43755928 079273864 1
M2 7057 535 100.0 3520 100.0 3520005 100.0 43775313 079374016 1
    6299 535 100.0 3520 100.0 3520005 100.0 43743713 079425542 1
M4 13567 535 100.0 3520 100.0 3520005 100.0 43698456 079361357 1
M5 15221 535 100.0 3520 100.0 3520005 100.0 43675710 079384617 1
M6 14998 535 100.0 3520 100.0 3520005 100.0 43678295 079444237 1
M7 7321 535 100.0 3520 99.9 3520005 99.9 43772760 079256491 1
M8 4765 535 100.0 3520 100.0 3520005 100.0 43627375 079507944 1
M9 11231 535 100.0 3520 100.0 3520005 100.0 43697411 079544313 1
                                       7.4 43330599 081236163 0
NO 26984 000
              70.5 3541
                       12.9 3536020
              47.9 3523 55.0 3523008 46.9 43416650 080208927 1
N1 12358 550
                        91.6 3530013 57.4 43512239 080595031 1
N2 14488 541
              91.6 3530
                        49.1 3529006 38.6 43207343 080284965 1
              38.6 3529
N3 14116 543
                        44.2 3532042 23.3 43568070 080797509 0
              27.8 3532
N4 10680 000
                                      45.7 42979796 081130889 1
                       45.9 3539036
              71.8 3539
NS 13846 555
             100.0 3539 100.0 3539036 98.9 42965876 081264298 1
N6 11679 555
                                      42.0 42919191 082131032 1
             45.3 3538
                        45.3 3538030
N7 10003 562
                        93.4 3537039
                                      73.2 42305006 082903203 1
N8 20606 559
              81.6 3537
                                      58.9 42226099 083007092 1
              87.6 3537 100.0 3537039
N9 9387 559
                                       7.7 47309726 082863230 0
                         12.3 3553005
PO 14943 000
              77.8 3556
                        59.5 3548044 58.4 45843666 079379444 1
              59.5 3548
P1 6355 575
                                      61.4 46532787 079974989 0
                         61.6 3548055
    4586 000 100.0 3548
                         99.1 3553005 99.1 46509799 080986910 1
              99.1 3553
    7356 580
                        99.8 3556027 99.6 48485322 081334694 0
P4 3171 586
              99.6 3556
                                      40.7 47342945 082341557 0
                         41.0 3557041
DS.
    2178 000
              59.3 3557
              98.4 3557 100.0 3557061 97.0 46526814 084328802 1
    4558 590
                                      92.1 48418849 089263932 1
             97.2 3558 100.0 3558004
                                      71.2 49855947 092622560 0
    1224 000 100.0 3560 100.0 3560027
DΑ
P9 2297 000 52.9 3559 52.2 3559012 50.3 49166390 093915089 0
MANITOBA
RO 27955 000 .91.4 4615
                                       2.7 50196632 098677222 0
                         9.5 4612047
R1 3978 000 56.4 4613 57.7 4609029 37.3 50065044 097508266 0
R2 14470 602 100.0 4611 95.7 4611040 95.7 49900951 097109966 1
             99.8 4611 98.0 4611040 98.0 49869041 097178703 1
R3 13724 602
                                      36.6 49933145 097326239 1
              89.1 4611 39.7 4613037
     685 602
              78.0 4602 100.0 4602044 36.1 49611033 096727890 0
     681 000
R6 1675 000 100.0 4603 100.0 4603053 49.0 49180672 098023385 0
              79.8 4607 82.3 4607062
                                      79.0 50073414 099970886 0
    7819 610
R7
    1137 640 51.4 4622 52.0 4622026 51.4 55262655 099754019 0
    1371 000 100.0 4621 100.0 4621045 82.1 53816538 101255834 0
```

YUKON

```
SASKATCHEWAN
SO 45480 000
                         8.7 4714077
              93.9 4706
                                      0.7 51459590 105501095 0
     77 705 100.0 4706 100.0 4706055 93.5 50771863 104930221 1
S3 1739 710
             95.9 4709 99.6 4709012 90.2 51210549 102459513 0
S4 15666 705
             82.0 4706
                        82.2 4706027 80.6 50271632 104411088 1
S6 8186 745
             50.2 4715
                        50.8 4707039
                                      48.4 51820806 105645797 0
$7 13922 725 99.7 4711 99.3 4711066 95.9 52128091 106646292 1
S9 7472 720
             45.6 4708 45.9 4708004 43.2 51839414 108347372 0
ALBERTA
TO 41400 000
             87.7 4810 12.3 4813001
                                       1.9 52625780 113307693 0
T1 19353 810
             32.0 4802
                        48.3 4802012 32.0 50187681 112637785 1
T2 30159 825
             99.8 4806
                        99.9 4806016 98.7 51009148 114051146 1
T3 15976 825
             99.9 4806
                        99.9 4806016
                                      91.8 51094669 114144681 1
T4 14087 000
             35.3 4808 56.2 4808011 29.7 52255111 113746748 0
T5 30050 835 100.0 4811 100.0 4811061 99.8 53565419 113510532 1
T6 21179 835 100.0 4811 100.0 4811061
                                      99.4 53503746 113488256 1
T7 10840 835
            63.2 4811 68.7 4811034 34.8 53592056 114632026 1
T8 16099 835
             59.2 4811
                        59.2 4819012
                                      35.4 54283468 115512293 1
             25.3 4811 37.4 4811016 18.6 54010457 112055117 1
T9 15386 835
BRITISH COLUMBIA - COLOMBIE-BRITANIQUE
V0 26977 000 83.5 5929
                        8.9 5929011
                                       3.2 50581494 121419253 0
V1 37163 000
             26.7 5935
                        23.3 5935010 19.3 50891711 119031397 0
V2 42064 970
             19.1 5909
                        32.7 5953023 16.6 50679854 121922514 1
V3 36463 933
             97.1 5915 97.1 5915004 49.1 49181802 122793984 1
V4 20037 933
             83.2 5915 83.2 5915004 39.7 49184436 122453350 1
V5 20689 933 100.0 5915 100.0 5915022 57.8 49248451 123035856 1
V6 21510 933 100.0 5915 100.0 5915022
                                      83.4 49249617 123129197 1
V7 13323 933 100.0 5915 100.0 5915015
                                      31.8 49272881 123116292 1
V8 23709 935 66.0 5917 70.0 5917021 25.4 49851907 124722195 1
V9 35760 938 21.7 5925 35.5 5921007 18.4 49288128 124390847 1
NORTHWEST TERRITORIES OR NUNAVUT - TERRITORIES DU NORD-OUEST OU MUNAVUT
X0 1167 000 99.7 6106 57.5 6106016 24.1 63645330 113346345 0
X1 1003 995 99.7 6106 100.0 6106023 99.7 62451236 114385180 0
```

Y0 317 000 98.1 6001 100.0 6001029 26.2 62232499 135620588 0 Y1 3461 990 99.9 6001 100.0 6001009 99.2 60724190 135072254 0

APPENDIX F3

GEOGRAPHIC CODING FROM THE FIRST THREE CHARACTERS OF THE POSTAL CODE

GEOGRAPHIC CODING FROM THE FIRST THREE CHARACTERS OF THE POSTAL CODE

0200.0.1.112	
FSA	FORWARD SORTATION AREA - FIRST THREE CHARACTERS OF POSTAL CODE
NPC	NUMBER OF POSTAL CODES
CMA	MOST COMMON CENSUS METROPOLITAN AREA OR CENSUS AGGLOMERATION (CMA/CA)
PCMA	PERCENTAGE OF POSTAL CODES WITHIN THAT CMA/CA
PRCD	MOST COMMON CENSUS SUBDIVISION (CD)
PCD	PERCENTAGE OF POSTAL CODES WITHIN THAT CD
PRCDCSD	MOST COMMON CENSUS SUBDIVISON (CSD)
PCSD	PERCENTAGE OF POSTAL CODES WITHIN THAT CSD
AVLAT	AVERAGE LATITUDE IN DEGREES(2)+DECIMALS(6)
AVLONG	AVERAGE LONGITUDE IN DEGREES (3) + DECIMALS (6)
т	1=CMA/CA IS CENSUS TRACTED; 0=CMA/CA NOT TRACTED

APPENDIX H Health Regions and Health Districts

APPENDIX H1

Summary List of Health Regions, by Province and Type, Canada, December 2007

PR	Health Region Type	HRTYP	Number.
Total			
NF	Regional Integrated Health Authority		
PE	County	CTY	
NS	Health Zone	ZON	6
NB	Region		
QC	Région socio-sanitaire	RSS	18
ON	Local Health Integration Network		
MB	Regional Health Authority	RHA	11
SK	Regional Health Authority	RHA	12
	Health Authority	HAU	1
AB	Regional Health Authority		
	Health Region	HRE	4
	Health	HLT	3
BC	Health Service Delivery Area		
	Regional Health Authority (roll-up)	RHA	5
ÝΚ	Territory	TER	1
NT	Territory	TER	1
NŲ			
	Territory :		

The 16 Health Service Delivery Areas in BC roll up to 5 Regional Health Authorities, which are designated by the first digit of the Health Region code.

APPENDIX H2

Summary List of Health Districts by Type and Province, Canada, December 2007

Total NS District Health Authority QC Centre local de services communautaires		
NS District Health Authority		149
OC Centra local de services communecatoires		
Centre tocal de services communautantes	CLS	174
ON Public Health Unit (incl Toronto)		
Health Planning Area (Toronto only)	HPA	
AB Sub-regional health authority (by 2007 definitions)	SUB	70
BC Local Health Area	LHA	89

For Version 5C of PCCF+, the health district codes for BC are not shown, nor are the Toronto Health Planning Areas. Ontario health districts (PHUs) are defined without reference to Ontario health region (LHN) boundaries. In all other provinces, health districts roll up to health regions.

APPENDIX H3: HEALTH REGIONS, CANADA, DECEMBER 2007 REGIONS SOCIO-SANITAIRES, CANADA, DÉCEMBRE 2007

PRHR	HEALTH REGION / REGION SOCIO-SANITAIRE	HRTYP
	OUNDLAND / TERRE-NEUVE	
1011	EASTERN	RIH
1012	CENTRAL ·	RIH
1013	Western	RIH
1014	LABRADOR-GRENFELL	RIH
PRINC	CE EDWARD ISLAND / ILE DU PRINCE-EDOUARD	+
1101	KINGS	. CTY
1102	OUEENS	CTY
1103	PRINCE	CTY
AVON	SCOTIA / NOUVELLE ECOSSE	
1201	BRIDGEWATER-YARMOUTH	ZON
1202	KENTVILLE	ZON
1203	TRURO-AMHERST	ZON
1204	NEW GLASGOW-ANTIGONISH	ZON
1205	CAPE BRETON	ZON
1206	HALIFAX	ZON
NEW I	BRUNSWICK / NOUVEAU-BRUNSWICK	
1301	MONCTON	REG
1302	SAINT JOHN	REG
1303	FREDERICTON	REG
1304	FREDERICTON EDMUNDSTON	REG
	CAMPBELLTON	REG
1306	BATHURST	REG
1307	MIRAMICHI	REG
QUEB	EC ·	
2401	BAS-SAINT-LAURENT	RSS
	SAGUENAYLAC-SAINT-JEAN	RSS
	CAPITALE-NATIONALE	RSS
2404	MAURICIE ET CENTRE DU QUEBEC	RSS
2405	ESTRIE	RSS
2406	MONTRÉAL	RSS
:	OUTAOUAIS	RSS
2408	ABITIBI-TÉMISCAMINGUE	RSS
	CÔTE-NORD	RSS
2410	NORD-DU-QUÉBEC	RSS
2411	GASPÉSIEÎLES-DE-LA-MADELEINE	RSS
2412	CHAUDIÈRE-APPALACHES	RSS
	LAVAL	RSS
2414	LANAUDIÈRE	RSS
2415	LAURENTIDES	RSS
2416	MONTÉRÉGIE	RSS
	NUNAVIK	RSS
2418	TERRES-CRIES-DE-LA-BAIE-JAME	RSS

PRHR	HEALTH REGION / REGION SOCIO-SANITAIRE	HRTYP
ONTA		
	ERIE ST. CLAIR	7 1757
	SOUTH WEST	LHN
	WATERLOO WELLINGTON	LHN
	HAMILTON NIAGARA HALDIMAND BRANT	LHN LHN
	CENTRAL WEST	LHN
	MISSISSAUGA HALTON	LHN
	TORONTO	LHN
	CENTRAL	LHN
	CENTRAL EAST	LHN
	SOUTH EAST	LHN
	CHAMPLAIN	LHN
3512	NORTH SIMCOB MUSKOKA	LHN
	NORTH EAST	LHN
	NORTH WEST	LHN
MANIT	СОВА	
4610	WINNIPEG	RHA
4615	BRANDON	RHA
4620	NORTH EASTMAN	RHA
4625	SOUTH EASTMAN	RHA
4630	INTERLAKE	RHA
4640	CENTRAL	RHA
4645	ASSINIBOINE	RHA
	PARKLAND	RHA
4670	NORMAN .	RHA
4680	BURNTWOOD	RHA .
4690	CHURCHILL	RHA
	TCHEWAN	
	SUN COUNTRY	RHA ·
	FIVE HILLS	RHA
	CYPRESS	RHA
	REGINA QU'APPELLE	RHA
	SUNRISE	RHA
4706	SASKATOON	RHA
	HEARTLAND	RHA
	KELSEY TRAIL	RHA
	PRINCE ALBERT PARKLAND	RHA
	PRAIRIE NORTH	RHA
	MAMAWETAN CHURCHILL RIVER	RHA
	KEEWATIN YATTHÉ	RHA
4713	ATHABASCA	HAU
ALBER	TA	****
401 401	CHINOOK PALLISER	HRE
482	PALLISEK CALCARY	HRE
483	CALCARI DALID SUCCESSION	HRE
484	CALGARY DAVID THOMPSON . EAST CENTRAL	RHA
465	EAST CENTRAL	HLT
486	CAPITAL	HLT
40/	ASPEN DRACE COLDERNY	RHA
488	PEACE COUNTRY	HLT
203	NORTHERN LIGHTS	HRE

DDUD	HEALTH REGION / REGION SOCIO-SANITAIRE	HRTYP
BRITIS	SH COLUMBIA / COLOMBIE-BRITANNIQUE	
591	INTERIOR	RHA
5911	EAST KOOTENAY	HSD
5912	KOOTENAY-BOUNDARY	HSD
5913	OKANAGAN	HSD
5914	THOMPSON/CARIBOO	HSD .
592	FRASER	RHA
5921	FRASER EAST	HSD
5922	FRASER NORTH	HSD
5923	FRASER SOUTH	HSD .
	VANCOUVER CENTRAL	RHA
	RICHMOND	HSD
	VANCOUVER	HSD
5933		HSD.
594	VANCOUVER ISLAND	RHA
5941	SOUTH VANCOUVER ISLAND	HSD
5942	CENTRAL VANCOUVER ISLAND	HSD
	NORTH VANCOUVER ISLAND	HSD
595	NORTHERN	RHA
5951	NORTHWEST	HSD
5952	NORTHERN INTERIOR	HSD
	NORTHEAST	HSD .
TERRITORIES / TERRITOIRES		
	YUKON	TER
	NORTHWEST	TER
	NUNAVUT	TER

FILE=HRNAM07L.CAN

APPENDIX H4:

HEALTH DISTRICTS, CANADA, DECEMBER 2007 DISTRICTS SOCIO-SANITAIRES, CANADA, DÉCEMBRE 2007

PRHR SU	JB NAME / NOM	SUBTYP
NOVA SC	COTIA / NOUVELLE-ÉCOSSE BRIDGEWATER YARMOUTH KENTVILLE	
12011	BRIDGEWATER	DHA
12012	YARMOUTH	DHA
12023	KENTVILLE	DHA
12034	TRURO	DHA
	AMHERST	DHA
12046	NEW GLASGOW	DHA
12047	ANTIGONISH .	DHA
12058	CAPE BRETON	DHA
12059	HALIFAX	DHA
QUEBEC		·
	RIMOUSKI-NEIGETTE	CLS
	LA MITIS	CLS
	MATANE	CLS
2401105	LA MATAPEDIA	CLS
	LES BASQUES	CLS
2401302	SAINT-ELEUTHERE	CLS
2401303	RIVIERE-DU-LOUP	CLS
2401304	KAMOURASKA `	CLS
2401305	CABANO	CLS .
2402101	FJORD	CLS
2402102	SAGUENAY JONQUIERE	CLS
2402103	JONQUIERE .	CLS
2402106	CHICOUTIMI DOMAINE-DU-ROY MARIA-CHAPDELAINE LAC-SAINT-JEAN-EST PORTNEUF	CLS
2402202	DOMAINE-DU-ROY	CLS
2402203	MARIA-CHAPDELAINE	CLS
2402204	LAC-SAINT-JEAN-EST	CLS
2403000	PORTNEUF	CLS
2403101	LAURENTIEN	ČLS
2403102	SAINTE-FOY - SILLERY	CLS
	QUEBEC-HAUTE-VILLE	· CLS
	OUEBEC-BASSE-VILLE	CLS
	LIMOILOU-VANIER	CLS
2403204	DUBERGER-LES SAULES-LEBOURGNEUF	
	LORETTEVILLE - VAL-BELAIR	CLS
	BEAUPORT	CLS
	ORLEANS	CLS
		CLS
2403701	CHARLESBOURG CHARLEVOIX-EST	CLS
2403702	CHARLEVOIX-OUEST	CLS
	HAUT-SAINT-MAURICE	CLS
	MEKINAC	CLS
•	CENTRE-DE-LA-MAURICIE	CLS
	MASKINONGE	CLS
	TROIS-RIVIERES	CLS
	DES CHENAUX	CLS
		•
	CAP-DE-LA-MADELEINE	CLS
	NICOLET-YAMASKA	CLS
	BECANCOUR DRUMMOND	CLS
	ARTHABASKA	CLS
	DE L'ERABLE	CLS
		CLS
2405101	GRANIT	CLS

	•
2405102 ASBESTOS	CLS
2405103 HAUT-SAINT-FRANCOIS	CLS
2405104 VAL SAINT-FRANCOIS	CLS
2405105 COATICOOK	CLS
2405106 MEMPHREMAGOG	CLS
2405107 FLEURIMONT-LENNOXVILLE	CLS
2405108 SHERBROOKE	CLS
2406101 LAC SAINT-LOUIS	CLS
2406103 PIERREFONDS	CLS
2406104 DOLLARD-DES-ORMEAUX	CLS
2406105 LACHINE	CLS
2406201 POINTE-SAINT-CHARLES	CLS
2406202 VERDUN	CLS
2406204 SAINT-PAUL	CLS
2406206 LASALLE	. Crs
2406301 RIVIERE-DES-PRAIRIES	CLS
2406302 POINTE-AUX-TREMBLES	CLS
2406303 MERCIER-EST	CLS
2406304 MERCIER-OUEST	CLS
2406305 HOCHELAGA-MAISONNEUVE	CLS
2406306 ROSEMONT	CLS
2406308 ANJOU	CLS
2406309 SAINT-LEONARD	CLS
2406401 COTE-DES-NEIGES	CLS
2406402 SNOWDON	CLS
2406403 COTE-SAINT-LUC	CLS
2406404 MONT-ROYAL	CLS
2406501 NOTRE-DAME DE GRACE - MONTREAL-OUEST	CLS
2406503 METRO	CLS
2406504 SAINT-LOUIS DU PARC	CLS
2406505 SAINT-HENRI	CLS
2406601 MONTREAL-NORD	CLS
2406603 SAINT-MICHEL	CLS
2406605 AHUNTSIC	CLS
2406606 BORDEAUX-CARTIERVILLE	CLS
2406608 SAINT-LAURENT	CLS
2406701 MONTREAL-CENTRE-SUD	CLS
2406702 PLATEAU MONT-ROYAL	CLS
2406704 PARC-EXTENSION	CLS
2406705 MONTREAL-CENTRE-VILLE	CLS
2406706 VILLERAY	CLS
2406707 PETITE PATRIE	CLS
2407201 HULL	CLS
2407201 NOBE 2407202 AYLMER	CLS
2407300 GATINEAU	CLS
2407400 PONTIAC	CLS
2407500 LES COLLINES-DE-L'OUTAOUAIS	CLS
2407600 DES FORESTIERS	· CLS
2407701 VALLEE-DE-LA-LIEVRE	CLS
2407701 VALUES DE LE STATION	' CLS
2407702 PETITE-MATTON 2408101 TEMISCAMING	CLS
2408101 TEMPSEEMING	CLS
2408102 VILLE PARKED 2408103 ROUYN-NORANDA	CLS
2408104 ABITIBI-OUEST	CLS
2408104 ABITIBI 00501	CLS
2408105 ABITIBI 2408106 VALLEE-DE-L'OR	CLS
2409106 VALLES-DE-D OR 2409101 LES ESCOUMINS	CLS
2409101 LES ESCOUTINS 2409102 FORESTVILLE	CLS
2409102 FORESTVILLE 2409103 MANICOUAGAN	CLS
2409103 MANICOUAGAN 2409105 PORT-CARTIER	CLS
7403103 FOVI - CUVIII	

,		
240910	6 SEPT-ILES	CLS
	7 CANIAPISCAU	CLS
	9 MINGANIE	CLS
	0 BASSE COTE-NORD	CLS
	2 TERRITOIRE NASKAPI	CLS
	1 CHIBOUGAMAU/CHAPAIS	CLS
	2 LEBEL-SUR-QUEVILLON	CLS
	3 MATAGAMI	CLS
	4 BAIE-JAMES	CLS
·	1 BONAVENTURE	CLS
	3 PABOK	CLS
	4 GASPE	CLS
	5 GRANDE-VALLEE 6 ILES-DE-LA-MADELEINE	CLS
	6 ILES-DE-LA-MADELEINE 7 MURDOCHVILLE	CLS
	7 MORDOCHVILLE 8 DENIS-RIVERIN	CLS
	o DENIS-RIVERIN 9 AVIGNON	CLS
	1 LAC ETCHEMIN	CLS
	2 LA NOUVELLE-BEAUCE	CLS
	BEAUCE-SARTIGAN	CLS
	4 ROBERT-CLICHE	CLS
	5 L'AMIANTE	CLS
	DESJARDINS	CLS
	2 CHAUDIERE	CLS
	BELLECHASSE	CLS
	4 LOTBINIERE	CLS
	L'ISLET	CLS
	4 MONTMAGNY	CLS
	L DUVERNAY	CLS
2413803	3 CHOMEDEY	CLS
2413809	5 PONT-VIAU	CLS
	7 SAINTE-ROSE-DE-LAVAL	CLS
2414201	L D'AUTRAY	CLS
2414202	MATAWINIE	CLS
2414203	3 JOLIETTE	CLS
	MONTCALM	CLS
2414205	LES MOULINS	CLS
2414206	L'ASSOMPTION	CLS
2415101	DEUX-MONTAGNES - MIRABEL	CLS
2415102	P THERESE-DE-BLAINVILLE	CLS
2415103	ANTOINE-LABELLE	CLS
2415104	RIVIERE-DU-NORD - MIRABEL	CLS
2415109	LES PAYS-D'EN-HAUT	CLS
2415106	LES LAURENTIDES	CLS
2415107	ARGENTEUIL	CLS
	. VAUDREUIL-SOULANGES	CLS
	HAUT-SAINT-LAURENT	CLS
2416003	VALLEYFIELD-BEAUHARNOIS	·CLS
2416004	CHATEAUGUAY-MERCIER	CLS
	LES JARDINS DE NAPIERVILLE	CLS
_	SAINT CONSTANT - LA PRAIRIE	CLS
	BROSSARD - SAINT-LAMBERT	CLS
	LONGUEUIL-OUEST	CLS
	LONGUEUIL-EST	CLS
	ST-HUBERT	CLS
	LAJEMMERAIS	CLS
	SAINT-JEAN-SUR-RICHELIEU - SAINT-LUC	CLS
	SAINT-BRUNO - BELOEIL - SAINT-HILAIRE	CLS
	CHAMBLY-CARIGNAN-MARIEVILLE	CLS
2416015	BAS RICHELIEU	CLS

2416016 LES MASKOUTAINS		CLS	
2416017 COWANSVILLE-FARNHAM-BEDFO	ORD .	CLS	
2416018 GRANBY-SHEFFORD-BROMONT		CLS	
2416019 ACTON		CLS	
2417101 BAIE D'HUDSON		CLS	
2417102 UNGAVA		CLS	
2418101 TERRITOIRE CRI		CLS	
ONTARIO			
3526 ALGOMA			PHÜ
3527 BRANT			PHU
3530 DURHAM			PHU
3531 ELGIN-ST THOMAS			PHU
3533 GREY BRUCE	•		PHŲ
3534 HALDIMAND-NORFOLK			PHU
3535 HALIBURTON-KAWARTHA-PINE RII	DGE .		PHU
3536 HALTON	• •		PHU
3537 HAMILTON			PHU
3538 HASTINGS-PRINCE EDWARD			PHU
3539 HURON			PHU
3540 CHATHAM-KENT	•	-	PHU
3541 KINGSTON-FRONTENAC-LENNOX-A	DDINGTON		PHU
3541 KINGSTON-PRONTENAC-EBRNON AL	DDINGTON		PHU
3542 LANGION 3543 LEEDS-GRENVILLE-LANARK			PHU
3544 MIDDLESEX-LONDON			PHU
	×		PHU
3546 NIAGARA			PHU
3547 NORTH BAY - PARRY SOUND			PHU
3549 NORTHWESTERN			PHU
3551 OTTAWA		•	PHU
3552 OXFORD			PHU
3553 PEEL			PHU
3554 PERTH			
3555 PETERBOROUGH	•		PHU
3556 PORCUPINE			PHU
3557 RENFREW		-	PHU
3558 EASTERN ONTARIO			PHŲ
3560 SIMCOE - MUSKOKA			PHU
3561 SUDBURY			PHU
3562 THUNDER BAY			PHU
3563 TIMISKAMING			PHU
3565 WATERLOO			PHU
3566 WELLINGTON-DUFFERIN-GUELPH			PHU
3568 WINDSOR-ESSEX			PHU
3570 YORK			PHU
3595 TORONTO	•		PHU
3595A TORONTO WEST	AREA 1A		HPA
3595B TORONTO WEST	AREA 1B		HPA
3595C TORONTO CENTRAL WEST	AREA 2A	•	HPA
3595D TORONTO CENTRAL WEST	AREA 2B	•	HPA
3595E TORONTO CENTRAL WEST	AREA 2C		HPA
3595F TORONTO CENTRAL WEST	AREA 2D		HPA
3595G TORONTO CENTRAL EAST	AREA 3A		HPA
3595H TORONTO CENTRAL EAST	AREA 3B		HPA
35951 TORONTO CENTRAL EAST	AREA 3C		HPA
3595J TORONTO CENTRAL SOUTH	AREA 4A		HPA
3595K TORONTO CENTRAL SOUTH	AREA 4B		HPA
3595L TORONTO CENTRAL SOUTH	AREA 5A		HPA
3595M TORONTO EAST	AREA 5B		HPA
3595M TORONTO EAST	AREA 5C		HPA
	AREA 5D		HPA
35950 TORONTO EAST	AKEM DU		****

ALBERTA

	B.NAME / NOM	SUBTYP
	Crowsnest Pincher Creek	SUB
	Fort McLeod Cardston	SUB
	Lethbridge ·	SUB
	Picture Butte Raymond Milk River	SUB
	Vauxhall Taber	SUB
	Palliser North and Central	SUB
	Palliser West	SUB
	Calgary Northwest	SUB
480302	5 1 ······· 5 ··· 5 ·· 5 ··· 5 ··· 5 ··· 5 ··· 5 ··· 5 ··· 5 ··· 5 ··· 5 ··· 5 ··· 5 ··· 5 ··· 5 ··· 5 ··· 5 ··· 5 ··· 5 ··· 5 ··· 5 ·· 5 ··· 5 ··· 5 ··· 5 ··· 5 ··· 5 ··· 5 ··· 5 ·· 5 ··· 5	SUB
48,0303	3 · · · 2 · · · · · · · · · · · · · · ·	SUB
	Calgary University	SUB
480305	Calgary Charleswood	SUB
480306		SUB
480307	Calgary Shaganappi	SUB
480308	Calgary Bowness	SUB ·
480309	J 12	SUB
480310	3 1	Sub
480311	Calgary Lakeview	SUB
480312	Calgary Mount Royal	SUB
480313	Calgary Haysboro	SUB
480314	Calgary Bonavista	SUB
480315	Calgary South	SUB
480320	Banff-Canmore	SUB
480321	Didsbury-Strathmore	SUB
480322	Vulcan-Claresholm	SUB
480323	High River-Black Diamond	SUB
480401	Clearwater	SUB
480402	Brazeau	SUB
480403	Wetaskiwin-Hobbema	SUB
480404	Ponoka	SUB
480405	Lacombe	SUB
480406	Red Deer	ŠUB
480407	Olds	SUB
480408	Drumheller-Hanna	SUB
480409	Stettler-Consort	SUB
480501	Region 5 Northwest	SUB
480502	Regions 5 Northeast	SUB
480503	Region 5 Southeast	SUB
480504		SUB
480505	Region5 Southwest	SUB
480601	St. Albert	SUB
480602	Edmonton Castle Downs	SUB
480603	Edmonton Woodcroft	SUB
	Edmonton Eastwood	-SUB
	Edmonton North Central	SUB
480606	Edmonton North East	SUB
480.607	Edmonton Bonnie Doon	SUB
480608	Edmonton West Jasper Place	SUB
480609	Edmonton Twin Brooks	SUB
480612	Edmonton Mill Woods	
480613	Sherwood Park	SUB
480614	Strathcona County	SUB
480615	Thorsby	SUB
		SUB
480616	Leduc Office	SUB
480617	Beaumont	SUB
480618	Westview	SUB
		· · · ·

480619	Sturgeon County	SUB
480620	Fort Saskatchewan	SUB
480701	Aspen West	SUB
480702	Aspen Central	SUB
480703	Aspen North	SUB
480704	Aspen East	SUB
480801	Peace Northwest	SUB
480802	Peace Northeast	SUB
480803	Peace Southeast	SUB
480804	Peace Southwest	SUB
480901	High Level	SUB
480902	La Crete	SUB
480903	Northern Lights Northwest	SUB
480904	Fort McMurray	SUB

BRITISH COLUMBIA / COLOMBIE-BRITANNIQUE

PRHRSUB NAME / NOM SUBTYP 5911001 FERNIE LHA 5911002 CRANBROOK LHA 5911003 KIMBERLEY LHA 5911004 WINDERMERE LHA 5911018 GOLDEN LHA 5912006 KOOTENAY LAKE LHA 5912007 NELSON LHA 5912007 NELSON LHA 5912010 ARROW LAKES LHA 5912011 TRAIL LHA 5912012 GRAND FORKS LHA 5912013 KETTLE VALLEY LHA 5913014 SOUTHERN OKANAGAN LHA 5913015 PENTICTON LHA 5913016 KEREMEOS LHA 5913017 PRINCETON LHA 5913021 ARMSTRONG-SPALLUMCHEEN LHA 5913022 VERNON LHA 5913023 CENTRAL OKANAGAN LHA 5913077 SUMMERLAND LHA 5914029 ENDERBY LHA 5914020 SALMON ARM LHA 5914021 NORTH THOMPSON LHA 5914022 TOMILE HOUSE LHA 5914023 NORTH CARIBOO CHILCOTIN LHA 5914023 MORTH CARIBOO
5911002 CRANBROOK LHA 5911003 KIMBERLEY LHA 5911004 WINDERMERE LHA 5911005 CRESTON LHA 5911018 GOLDEN LHA 5912006 KOOTENAY LAKE LHA 5912007 NELSON LHA 5912009 CASTLEGAR LHA 5912010 ARROW LAKES LHA 5912011 TRAIL LHA 5912012 GRAND FORKS LHA 5912013 KETTLE VALLEY LHA 5913014 SOUTHERN OKANAGAN LHA 5913015 PENTICTON LHA 5913016 KEREMEOS LHA 5913017 PRINCETON LHA 5913021 ARMSTRONG-SPALLUMCHEEN LHA 5913022 VERNON LHA 5913023 CENTRAL OKANAGAN LHA 5913027 SUMMERLAND LHA 5914029 SALMON ARM LHA 5914020 SALMON ARM LHA 5914021 NORTH THOMPSON LHA 5914
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5914026 NORTH THOMPSON LHA 5914027 CARIBOO-CHILCOTIN LHA 5914029 LILLOOET LHA 5914030 SOUTH CARIBOO LHA 5914031 MERRITT LHA 5921032 HOPE LHA
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5914031 MERRITT LHA 5921032 HOPE LHA
3921032 NOFE
3921033 Childinack
5921034 ABBOTSFORD LHA
5921075 MISSION LHA
5921076 AGASSIZ-HARRISON LHA
5922040 NEW WESTMINSTER LHA
5922041 BURNABY LHA
5922042 MAPLE RIDGE LHA
5922043 COQUITLAM LHA
5923035 LANGLEY LHA

5923037	DELTA	LHA
	SURREY	LHA
5923202	SOUTH SURREY - WHITE ROCK	LHA
	RICHMOND	LHA
	CITY CENTRE VANCOUVER	LHA
5932162	DOWNTOWN EASTSIDE VANCOUVER	· LHA
5932163	NORTHEAST VANCOUVER	LHA
	WESTSIDE VANCOUVER	LHA
5932165	MIDTOWN VANCOUVER	LHA
	SOUTH VANCOUVER	LHA
	NORTH VANCOUVER	LHA
	WEST VANCOUVER-BOWEN ISLAND	LHA
	SUNSHINE COAST	LHA
	POWELL RIVER	LHA
	HOWE SOUND .	LHA
	BELLA COOLA VALLEY	LHA
	CENTRAL COAST	LHA
	GREATER VICTORIA	LHA
5941062		LHA
	SAANICH	LHA
	GULF ISLANDS	LHA
	COWICHAN	LHA
5942066	LAKE COWICHAN	LHA
	LADYSMITH	LHA LHA
	NANAIMO	LHA
	QUALICUM	LHA
	ALBERNI	LHA
	COURTENAY	LHA
	CAMPBELL RIVER	LHA
	VANCOUVER ISLAND WEST	LHA
	VANCOUVER ISLAND NORTH	, LHA
	QUEEN CHARLOTTE	LHA
	SNOW COUNTRY	LHA
	PRINCE RUPERT	LHA
	UPPER SKEENA	LHA
	SMITHERS	LHA
	KITIMAT	LHA
	STIKINE	LHA
	TERRACE	LHA
	NISGA'A	LHA
	TELEGRAPH CREEK	LHA
	BURNS LAKE	LHA
	NECHAKO	. LHA
	PRINCE GEORGE	LHA
	QUESNEL	LHA
	PEACE RIVER SOUTH	LHA
	PEACE RIVER NORTH	LHA .
	FORT NELSON	.LHA

FILE=SUBNAM07L.CAN + THDIST2.COD

APPENDIX J Census divisions, 2006
The numeric code and corresponding census division name, including descriptive names for otherwise unnamed CDs.

1110 1141		••••••••••••••••••••••••••••••••••••••	,
PRCD '	TYP	CDname	2416 MRC Charlevoix
		Avalon Peninsula	2417 MRC L'Islet
		Burin Peninsula	2418 MRC Montmagny
		South Coast	2419 MRC Bellechasse
		Stephenville	2420 MRC L'Île-d'Orléans
		Corner Brook	2421 MRC La Côte-de-Beaupré
			2422 MRC La Jacques-Cartier
		Central Newfoundland	2423 TÉ Québec
		Bonavista Bay	2425 TÉ Lévis
		Notre Dame Bay	
1009	CDR	Northèrn Peninsula	2426 MRC La Nouvelle-Beauce
1010	CDR	Central-Southern Labrador	2427 MRC Robert-Cliche
1011	CDR	Nunastiavut	2428 MRC Les Etchemins
1011			2429 MRC Beauce-Sartigan
1101	ĊΨTV.	Vince	2430 MRC Le Granit
		Kings	2431 MRC L'Amiante
		Queens	2432 MRC L'Érable
1103	CTY	Prince	2433 MRC Lotbinière
		•	2434 MRC Portneuf
		Shelburne	
1202	CTY	Yarmouth	2435 MRC Mékinac
1203	CTY	Digby	2436 TÉ Shawingigan
1204	CTY	Queens	2437 CDR Francheville
		Annapolis	2438 MRC Bécancour
		Lunenburg	2439 MRC Arthabaska
		-	2440 MRC Asbestos
		Kings	2441 MRC Le Haut-Saint-François
		Hants	2442 MRC Le Val-Saint-François
	-	Halifax	2443 TÉ Sherbrooke
1210	CTY	Colchester	= - · · ·
1211	CTY	Cumberland	2444 MRC Coaticook
1212	CTY	Pictou	2445 MRC Memphrémagog
1213	CTY	Guysborough	2446 MRC Brome-Missisquoi
		Antigonish	2447 MRC La Haute-Yamaska
		Inverness	2448 MRC Acton
		Richmond	2449 MRC Drummond
			2450 MRC Nicolet-Yamaska
_		Cape Breton	2451 MRC Maskinongé
1218	CTY	Victoria	2452 MRC D'Autray
			2453 MRC Le Bas-Richelieu
1301	CT	Saint John	
1302	CT	Charlotte	2454_MRC Les Maskoutains
1303	CT	Sunbury	2455 MRC Rouville
1304		_	2456 MRC Le Haut-Richelieu
1305		Kings .	2457 MRC La Vallée-du-Richelieu
1306		Albert	2458 TÉ Longueuil
		Westmorland	2459 MRC Lajemmerais
1307			2460 MRC L'Assomption -
1308		Kent	2461 MRC Joliette
1309		Northumberland	2462 MRC Matawinie
1310		York	2463 MRC Montcalm
1311	CT	Carleton	
1312	CT	Victoria	2464 MRC Les Moulins
1313	CT	Madawaska	2465 TÉ Laval
1314	CT	Restigouche	2466 TÉ Montréal
1315		Gloucester	2467 MRC Roussillon .
1313	٠.	6104000101	2468 MRC Les Jardins-de-Napierville
2403	m é	Les Îles-de-la-Madeleine	2469 MRC Le Haut-Saint-Laurent
			2470 MRC Beauharnois-Salaberry
		Le Rocher-Percé	2471 MRC Vaudreuil-Soulanges
		: La Côte-de-Gaspé	2472 MRC Deux-Montagnes
		: La Haute-Gaspésie	2472 MRC Deux-Montagnes 2473 MRC Thérèse-De Blainville
2405	MRC	Bonaventure	
2406	MRC	Avignon	2474 TÉ Mirabel
		La Matapédia	2475 MRC La Rivière-du-Nord
		Matane	2476 MRC Argenteuil
2400	MDA	La Mitis	2477 MRC Les Pays-d'en-Haut
2409	MKC	, Da Mitto Dimenski Nojeotto	2478 MRC Les Laurentides
		Rimouski-Neigette	2479 MRC Antoine-Labelle
		Les Basques	2480 MRC Papineau
		Rivière-du-Loup	2480 MRC Papineau 2481 TÉ Gatineau
		Témiscouata	
		: Kamouraska	2482 MRC Les Collines-de-l'Outaouais
2415	MRC	Charlevoix-Est	2483 MRC La Vallée-de-la-Gatineau
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	MRC	Pontiac	4605	CDR	Turtle Mountain
2485	MRC	Témiscamingue			. Wallace
2486	ТÉ	Rouyn-Noranda			Brandon
		Abitibi-Ouest			Swift Current
		Abitibi			Portage la Prairie
		Vallée-de-l'Or			Macdonald-Cartier
		La Tuque			
		Le Domaine-du-Roy			Winnipeg
		•	4012	CDR	Springfield-Broken Head
		Maria-Chapdelaine			St Andrews
		Lac-Saint-Jean-Est			Rookwood-Woodlands
		Le Saguenay-et-son-Fjord			Langford-Minto
		La Haute-Côte-Nord			Lake of the Prairies
		Manicouagan	4617	CDR	Dauphin
		Sept-RivièresCaniapiscau			Interlake South-Gimli
		MinganieBasse-Côte-Nord	4619	CDR	Lake Winnipeg-Winnipegosis
2499	CDR	Nord-du-Québec			Swan River
		•	4621	CDR	Moose Lake
3501	UC	Stormont, Dundas and Glengarry	- 4622	CDR	Thompson
3502	UC	Prescott and Russell			Hudson Bay
3506	CDR	Ottawa			
3507	UC	Leeds and Grenville	4701	CDB	Estevan
		Lanark			Weyburn
		Frontenac			-
		Lennox and Addington			Lake of the Rivers
					Maple Creek
		Hastings			Melville
		Prince Edward			Regina
		Northumberland			Moose Jaw
		Peterborough	4708	CDR	Swift Current
3516	CDR	Kawartha Lakes	4709	CDR	Yorkton
3518	RM	Durham	4710	CDR	Big Quill-Foam Lake-Kutawa
3519	RM	York	4711	CDR	Saskatoon
3520	CDR	Toronto			Battleford-Biggar-Vanscoy
3521	RM	Peel			Kindersley-Unity
3522	CTY	Dufferin			Star City-Nipawin-Hudson Bay
		Wellington			Prince Albert
		Halton			North Battleford
		Hamilton			
		Niagara			Lloydminster-Meadow Lake
		-	.4/18	CDK	Northern Saskatchewan
		Haldimand-Norfolk			
		Brant			Medicine Hat
3530	RМ	Waterloo		CIDE	Lethbridge
~-~-					
	CTY	Perth	4803	CDR	Southwest (Cardston-Willow/Pincher)
3532	CTY CTY	Oxford	4803	CDR	
3532	CTY CTY		4803 4804	CDR CDR	Southwest (Cardston-Willow/Pincher)
3532 3534 3536	CTY CTY CTY CDR	Oxford Elgin Chatham-Kent	4803 4804 4805	CDR CDR CDR	Southwest (Cardston-Willow/Pincher) Hanna-Oyen-Consort
3532 3534 3536	CTY CTY CTY CDR	Oxford Elgin	4803 4804 4805 4806	CDR CDR CDR CDR	Southwest (Cardston-Willow/Pincher) Hanna-Oyen-Consort Drumheller Calgary
3532 3534 3536 3537	CTY CTY CTY CDR CTY	Oxford Elgin Chatham-Kent	4803 4804 4805 4806 4807	CDR CDR CDR CDR CDR	Southwest (Cardston-Willow/Pincher) Hanna-Oyen-Consort Drumheller Calgary Stettler-Wainwright
3532 3534 3536 3537 3538	CTY CTY CTY CDR CTY CTY	Oxford Elgin Chatham-Kent Essex	4803 4804 4805 4806 4807 4808	CDR CDR CDR CDR CDR CDR	Southwest (Cardston-Willow/Pincher) Hanna-Oyen-Consort Drumheller Calgary Stettler-Wainwright Red Deer
3532 3534 3536 3537 3538 3539	CTY CTY CTY CTY CTY CTY	Oxford Elgin Chatham-Kent Essex Lambton Middlesex	4803 4804 4805 4806 4807 4808 4809	CDR CDR CDR CDR CDR CDR CDR	Southwest (Cardston-Willow/Pincher) Hanna-Oyen-Consort Drumheller Calgary Stettler-Wainwright Red Deer Rocky Mountain-House
3532 3534 3536 3537 3538 3539 3540	CTY CTY CTY CTY CTY CTY	Oxford Elgin Chatham-Kent Essex Lambton Middlesex Huron	4803 4804 4805 4806 4807 4808 4809 4810	CDR CDR CDR CDR CDR CDR CDR CDR	Southwest (Cardston-Willow/Pincher) Hanna-Oyen-Consort Drumhelier Calgary Stettler-Wainwright Red Deer Rocky Mountain-House Camrose-Vermillion River-Lloydminster
3532 3534 3536 3537 3538 3539 3540 3541	CTY CTY CTY CTY CTY CTY CTY CTY	Oxford Elgin Chatham-Kent Essex Lambton Middlesex Huron Bruce	4803 4804 4805 4806 4807 4808 4809 4810 4811	CDR CDR CDR CDR CDR CDR CDR CDR CDR CDR	Southwest (Cardston-Willow/Pincher) Hanna-Oyen-Consort Drumhelier Calgary Stettler-Wainwright Red Deer Rocky Mountain-House Camrose-Vermillion River-Lloydminster Edmonton
3532 3534 3536 3537 3538 3539 3540 3541 3542	CTY CTY CDR CTY CTY CTY CTY CTY	Oxford Elgin Chatham-Kent Essex Lambton Middlesex Huron Bruce Grey	4803 4804 4805 4806 4807 4808 4809 4810 4811 4812	CDR CDR CDR CDR CDR CDR CDR CDR CDR CDR	Southwest (Cardston-Willow/Pincher) Hanna-Oyen-Consort Drumheller Calgary Stettler-Wainwright Red Deer Rocky Mountain-House Camrose-Vermillion River-Lloydminster Edmonton Cold Lake
3532 3534 3536 3537 3538 3539 3540 3541 3542 3543	CTY CTY CDR CTY CTY CTY CTY CTY CTY	Oxford Elgin Chatham-Kent Essex Lambton Middlesex Huron Bruce Grey Simcoe	4803 4804 4805 4806 4807 4808 4809 4810 4811 4812 4813	CDR CDR CDR CDR CDR CDR CDR CDR CDR CDR	Southwest (Cardston-Willow/Pincher) Hanna-Oyen-Consort Drumheller Calgary Stettler-Wainwright Red Deer Rocky Mountain-House Camrose-Vermillion River-Lloydminster Edmonton Cold Lake Woodlands
3532 3534 3536 3537 3538 3539 3540 3541 3542 3543 3544	CTY CTY CDR CTY CTY CTY CTY CTY CTY CTY CTY	Oxford Elgin Chatham-Kent Essex Lambton Middlesex Huron Bruce Grey Simcoe Muskoka	4803 4804 4805 4806 4807 4808 4809 4810 4811 4812 4813 4814	CDR CDR CDR CDR CDR CDR CDR CDR CDR CDR	Southwest (Cardston-Willow/Pincher) Hanna-Oyen-Consort Drumhelier Calgary Stettler-Wainwright Red Deer Rocky Mountain-House Camrose-Vermillion River-Lloydminster Edmonton Cold Lake Woodlands Yellowhead
3532 3534 3536 3537 3538 3539 3540 3541 3542 3543 3544 3544	CTY CTY CDR CTY CTY CTY CTY CTY CTY CTY CTY CTY	Oxford Elgin Chatham-Kent Essex Lambton Middlesex Huron Bruce Grey Simcoe Muskoka Haliburton	4803 4804 4805 4806 4807 4808 4809 4810 4811 4812 4813 4814 4815	CDR CDR CDR CDR CDR CDR CDR CDR CDR CDR	Southwest (Cardston-Willow/Pincher) Hanna-Oyen-Consort Drumheller Calgary Stettler-Wainwright Red Deer Rocky Mountain-House Camrose-Vermillion River-Lloydminster Edmonton Cold Lake Woodlands Yellowhead Jasper-Banff
3532 3534 3536 3537 3538 3539 3540 3541 3542 3543 3544 3546 3547	CTY CTY CDR CTY	Oxford Elgin Chatham-Kent Essex Lambton Middlesex Huron Bruce Grey Simcoe Muskoka Haliburton Renfrew	4803 4804 4805 4806 4807 4808 4809 4810 4811 4812 4813 4814 4815	CDR CDR CDR CDR CDR CDR CDR CDR CDR CDR	Southwest (Cardston-Willow/Pincher) Hanna-Oyen-Consort Drumhelier Calgary Stettler-Wainwright Red Deer Rocky Mountain-House Camrose-Vermillion River-Lloydminster Edmonton Cold Lake Woodlands Yellowhead
3532 3534 3536 3537 3538 3539 3540 3541 3542 3543 3544 3546 3547 3548	CTY	Oxford Elgin Chatham-Kent Essex Lambton Middlesex Huron Bruce Grey Simcoe Muskoka Haliburton Renfrew Nipissing	4803 4804 4805 4806 4807 4808 4810 4811 4812 4813 4814 4815 4816	CDR CDR CDR CDR CDR CDR CDR CDR CDR CDR	Southwest (Cardston-Willow/Pincher) Hanna-Oyen-Consort Drumhelier Calgary Stettler-Wainwright Red Deer Rocky Mountain-House Camrose-Vermillion River-Lloydminster Edmonton Cold Lake Woodlands Yellowhead Jasper-Banff
3532 3534 3536 3537 3538 3539 3540 3541 3542 3543 3544 3546 3547 3548	CTY	Oxford Elgin Chatham-Kent Essex Lambton Middlesex Huron Bruce Grey Simcoe Muskoka Haliburton Renfrew	4803 4804 4805 4806 4807 4808 4810 4811 4813 4814 4815 4816 4817	CDR CDR CDR CDR CDR CDR CDR CDR CDR CDR	Southwest (Cardston-Willow/Pincher) Hanna-Oyen-Consort Drumheller Calgary Stettler-Wainwright Red Deer Rocky Mountain-House Camrose-Vermillion River-Lloydminster Edmonton Cold Lake Woodlands Yellowhead Jasper-Banff Wood Buffalo
3532 3534 3536 3537 3538 3539 3540 3541 3542 3543 3544 3546 3547 3548	CTY	Oxford Elgin Chatham-Kent Essex Lambton Middlesex Huron Bruce Grey Simcoe Muskoka Haliburton Renfrew Nipissing	4803 4804 4805 4806 4807 4809 4810 4811 4812 4813 4814 4815 4817 4818.	CDR CDR CDR CDR CDR CDR CDR CDR CDR CDR	Southwest (Cardston-Willow/Pincher) Hanna-Oyen-Consort Drumheller Calgary Stettler-Wainwright Red Deer Rocky Mountain-House Camrose-Vermillion River-Lloydminster Edmonton Cold Lake Woodlands Yellowhead Jasper-Banff Wood Buffalo Peace River Greenview
3532 3534 3536 3537 3539 3540 3541 3542 3543 3544 3546 3547 3548 3549 3551	CTY	Oxford Elgin Chatham-Kent Essex Lambton Middlesex Huron Bruce Grey Simcoe Muskoka Haliburton Renfrew Nipissing Parry Sound	4803 4804 4805 4806 4807 4809 4810 4811 4812 4813 4814 4815 4817 4818.	CDR CDR CDR CDR CDR CDR CDR CDR CDR CDR	Southwest (Cardston-Willow/Pincher) Hanna-Oyen-Consort Drumhelier Calgary Stettler-Wainwright Red Deer Rocky Mountain-House Camrose-Vermillien River-Lloydminster Edmonton Cold Lake Woodlands Yellowhead Jasper-Banff Wood Buffalo Peace River Greenview Grande Prairie
3532 3534 3536 3537 3538 3539 3541 3542 3543 3544 3546 3547 3548 3549 3551 3552	CTY	Oxford Elgin Chatham-Kent Essex Lambton Middlesex Huron Bruce Grey Simcoe Muskoka Haliburton Renfrew Nipissing Parry Sound Manitoulin Sudbury	4803 4804 4805 4806 4809 4810 4811 4812 4813 4814 4815 4816 4817 4818	CDR	Southwest (Cardston-Willow/Pincher) Hanna-Oyen-Consort Drumheller Calgary Stettler-Wainwright Red Deer Rocky Mountain-House Camrose-Vermillion River-Lloydminster Edmonton Cold Lake Woodlands Yellowhead Jasper-Banff Wood Buffalo Peace River Greenview Grande Prairie
3532 3534 3536 3537 3538 3540 3541 3542 3543 3546 3547 3548 3549 3552 3553	CTY	Oxford Elgin Chatham-Kent Essex Lambton Middlesex Huron Bruce Grey Simcoe Muskoka Haliburton Renfrew Nipissing Parry Sound Manitoulin Sudbury Greater Sudbury / Grand Sudbury	4803 4804 4805 4806 4809 4810 4811 4812 4813 4814 4815 4816 4817 4818 4819	CDR	Southwest (Cardston-Willow/Pincher) Hanna-Oyen-Consort Drumheller Calgary Stettler-Wainwright Red Deer Rocky Mountain-House Camrose-Vermillion River-Lloydminster Edmonton Cold Lake Woodlands Yellowhead Jasper-Banff Wood Buffalo Peace River Greenview Grande Prairie
3532 3534 3536 3537 3538 3540 3541 3542 3543 3546 3547 3548 3549 3551 3552 3553	CTY	Oxford Elgin Chatham-Kent Essex Lambton Middlesex Huron Bruce Grey Simcoe Muskoka Haliburton Renfrew Nipissing Parry Sound Manitoulin Sudbury Greater Sudbury / Grand Sudbury Timiskaming	4803 4804 4805 4806 4809 4810 4811 4812 4813 4815 4816 4817 4818 4819 5901 5903	CDR	Southwest (Cardston-Willow/Pincher) Hanna-Oyen-Consort Drumheller Calgary Stettler-Wainwright Red Deer Rocky Mountain-House Camrose-Vermillion River-Lloydminster Edmonton Cold Lake Woodlands Yellowhead Jasper-Banff Wood Buffalo Peace River Greenview Grande Prairie East Kootenay Central Koptenay
3532 3534 3536 3537 3538 3540 3541 3542 3543 3544 3546 3547 3548 3551 3552 3553 3554	CTY	Oxford Elgin Chatham-Kent Essex Lambton Middlesex Huron Bruce Grey Simcoe Muskoka Haliburton Renfrew Nipissing Parry Sound Manitoulin Sudbury Greater Sudbury / Grand Sudbury Timiskaming Cochrane	4803 4804 4805 4806 4809 4810 4811 4812 4813 4814 4816 4817 4818 4819 5901 5903 5905	CDR	Southwest (Cardston-Willow/Pincher) Hanna-Oyen-Consort Drumheller Calgary Stettler-Wainwright Red Deer Rocky Mountain-House Camrose-Vermillion River-Lloydminster Edmonton Cold Lake Woodlands Yellowhead Jasper-Banff Wood Buffalo Peace River Greenview Grande Prairie East Kootenay Central Koptenay Kootenay Boundary
3532 3534 3536 3537 3538 3540 3541 3542 3544 3546 3547 3548 3551 3552 3553 3554 3556 3557	CTY	Oxford Elgin Chatham-Kent Essex Lambton Middlesex Huron Bruce Grey Simcoe Muskoka Haliburton Renfrew Nipissing Parry Sound Manitoulin Sudbury Greater Sudbury / Grand Sudbury Timiskaming Cochrane Algoma	4803 4804 4805 4806 4807 4810 4811 4812 4813 4814 4816 4817 4818 4819 5901 5903 5905 5907	CDR	Southwest (Cardston-Willow/Pincher) Hanna-Oyen-Consort Drumheller Calgary Stettler-Wainwright Red Deer Rocky Mountain-House Camrose-Vermillion River-Lloydminster Edmonton Cold Lake Woodlands Yellowhead Jasper-Banff Wood Buffalo Peace River Greenview Grande Prairie
3532 3534 3536 3537 3540 3541 3542 3543 3544 3546 3557 3552 3553 3556 3557 3558	CTY	Oxford Elgin Chatham-Kent Essex Lambton Middlesex Huron Bruce Grey Simcoe Muskoka Haliburton Renfrew Nipissing Parry Sound Manitoulin Sudbury Greater Sudbury / Grand Sudbury Timiskaming Cochrane Algoma Thunder Bay	4803 4804 4805 4806 4809 4810 4811 4813 4814 4815 4816 4817 5901 5905 5907 5909	CDR	Southwest (Cardston-Willow/Pincher) Hanna-Oyen-Consort Drumhelier Calgary Stettler-Wainwright Red Deer Rocky Mountain-House Camrose-Vermillion River-Lloydminster Edmonton Cold Lake Woodlands Yellowhead Jasper-Banff Wood Buffalo Peace River Greenview Grande Prairie East Kootenay Kootenay Boundary Okanagan-Similkameen Fraser Valley
3532 3534 3536 3537 3538 3540 3541 3542 3543 3544 3546 3547 3558 3554 3556 3556 3556 3558 3558	CTY CTY CTY CTY CTY CTY CTY CTY CTY DM CTY DIS	Oxford Elgin Chatham-Kent Essex Lambton Middlesex Huron Bruce Grey Simcoe Muskoka Haliburton Renfrew Nipissing Parry Sound Manitoulin Sudbury Greater Sudbury / Grand Sudbury Timiskaming Cochrane Algoma Thunder Bay Rainy River	4803 4804 4805 4806 4809 4810 4811 4813 4814 4815 4816 4817 4818 5901 5903 5905 5907 5909 5915	CDR	Southwest (Cardston-Willow/Pincher) Hanna-Oyen-Consort Drumheller Calgary Stettler-Wainwright Red Deer Rocky Mountain-House Camrose-Vermillion River-Lloydminster Edmonton Cold Lake Woodlands Yellowhead Jasper-Banff Wood Buffalo Peace River Greenview Grande Prairie
3532 3534 3536 3537 3538 3540 3541 3542 3543 3544 3546 3547 3558 3554 3556 3556 3556 3558 3558	CTY CTY CTY CTY CTY CTY CTY CTY CTY DM CTY DIS	Oxford Elgin Chatham-Kent Essex Lambton Middlesex Huron Bruce Grey Simcoe Muskoka Haliburton Renfrew Nipissing Parry Sound Manitoulin Sudbury Greater Sudbury / Grand Sudbury Timiskaming Cochrane Algoma Thunder Bay	4803 4804 4805 4806 4809 4810 4811 4812 4813 4816 4817 4818 4819 5901 5903 5905 5907 5909 5905 5907 5915	CDR	Southwest (Cardston-Willow/Pincher) Hanna-Oyen-Consort Drumheller Calgary Stettler-Wainwright Red Deer Rocky Mountain-House Camrose-Vermillion River-Lloydminster Edmonton Cold Lake Woodlands Yellowhead Jasper-Banff Wood Buffalo Peace River Greenview Grande Prairie
3532 3534 3536 3537 3538 3540 3541 3542 3543 3546 3547 3551 3552 3553 3554 3556 3557 3558 3559 3560	CTY	Oxford Elgin Chatham-Kent Essex Lambton Middlesex Huron Bruce Grey Simcoe Muskoka Haliburton Renfrew Nipissing Parry Sound Manitoulin Sudbury Greater Sudbury / Grand Sudbury Timiskaming Cochrane Algoma Thunder Bay Rainy River Kenora	4803 4804 4805 4806 4809 4810 4811 4812 4813 4816 4817 4818 4819 5901 5903 5905 5907 5909 5905 5907 5915	CDR	Southwest (Cardston-Willow/Pincher) Hanna-Oyen-Consort Drumheller Calgary Stettler-Wainwright Red Deer Rocky Mountain-House Camrose-Vermillion River-Lloydminster Edmonton Cold Lake Woodlands Yellowhead Jasper-Banff Wood Buffalo Peace River Greenview Grande Prairie
3532 3534 3536 3537 3538 3540 3541 3542 3543 3546 3547 3551 3552 3553 3554 3556 3557 3558 3559 3560	CTY	Oxford Elgin Chatham-Kent Essex Lambton Middlesex Huron Bruce Grey Simcoe Muskoka Haliburton Renfrew Nipissing Parry Sound Manitoulin Sudbury Greater Sudbury / Grand Sudbury Timiskaming Cochrane Algoma Thunder Bay Rainy River	4803 4804 4805 4806 4809 4810 4811 4812 4813 4816 4817 4818 4817 5901 5903 5905 5905 5905 5907 5915 5917 5919	CDR	Southwest (Cardston-Willow/Pincher) Hanna-Oyen-Consort Drumheller Calgary Stettler-Wainwright Red Deer Rocky Mountain-House Camrose-Vermillion River-Lloydminster Edmonton Cold Lake Woodlands Yellowhead Jasper-Banff Wood Buffalo Peace River Greenview Grande Prairie East Kootenay Kootenay Kootenay Kootenay Boundary Okanagan-Similkameen Fraser Valley Greater Vancouver Capital
3532 3534 3536 3537 3539 3540 3541 3542 3543 3544 3546 3547 3548 3551 3552 3553 3554 3556 3557 3558 3559 3560	CTY	Oxford Elgin Chatham-Kent Essex Lambton Middlesex Huron Bruce Grey Simcoe Muskoka Haliburton Renfrew Nipissing Parry Sound Manitoulin Sudbury Greater Sudbury / Grand Sudbury Timiskaming Cochrane Algoma Thunder Bay Rainy River Kenora	4803 4804 4805 4806 4809 4810 4811 4812 4813 4816 4817 4818 4819 5901 5907 5909 5917 5919 5919	CDR	Southwest (Cardston-Willow/Pincher) Hanna-Oyen-Consort Drumheller Calgary Stettler-Wainwright Red Deer Rocky Mountain-House Camrose-Vermillion River-Lloydminster Edmonton Cold Lake Woodlands Yellowhead Jasper-Banff Wood Buffalo Peace River Greenview Grande Prairie East Kootenay Kootenay Boundary Okanagan-Similkameen Fraser Valley Greater Vancouver Capital Cowichan Valley
3532 3534 3536 3537 3538 3540 3541 3542 3543 3544 3546 3551 3552 3553 3554 3556 3557 3558 3559 3560 4601 4602	CTY	Oxford Elgin Chatham-Kent Essex Lambton Middlesex Huron Bruce Grey Simcoe Muskoka Haliburton Renfrew Nipissing Parry Sound Manitoulin Sudbury Greater Sudbury / Grand Sudbury Timiskaming Cochrane Algoma Thunder Bay Rainy River Kenora	4803 4804 4805 4806 4809 4810 4811 4813 4814 4815 4816 4817 5901 5905 5907 5909 5915 5917 5921 5923	CDR	Southwest (Cardston-Willow/Pincher) Hanna-Oyen-Consort Drumheller Calgary Stettler-Wainwright Red Deer Rocky Mountain-House Camrose-Vermillion River-Lloydminster Edmonton Cold Lake Woodlands Yellowhead Jasper-Banff Wood Buffalo Peace River Greenview Grande Prairie East Kootenay Kootenay Boundary Okanagan-Similkameen Fraser Valley Greater Vancouver Capital Cowichan Valley Nanaimo Alberni-Clayoquot
3532 3534 3536 3537 3540 3541 3542 3543 3544 3546 3557 3558 3557 3558 3557 3558 3559 3560 4601 4602 4603	CTY CTY CTY CTY CTY CTY CTY CTY DM CTY DIS DIS DIS DIS DIS DIS DIS DIS DIS CDR CCR CCR CCR CCR CCR CCR CCR CCR CCR	Oxford Elgin Chatham-Kent Essex Lambton Middlesex Huron Bruce Grey Simcoe Muskoka Haliburton Renfrew Nipissing Parry Sound Manitoulin Sudbury Greater Sudbury / Grand Sudbury Timiskaming Cochrane Algoma Thunder Bay Rainy River Kenora Lac du Bonnet-Alexander Hanover	4803 4804 4805 4806 4809 4810 4811 4813 4814 4815 4816 4817 5901 5903 59007 5909 5915 5917 5921 5923 5925	CDR	Southwest (Cardston-Willow/Pincher) Hanna-Oyen-Consort Drumheller Calgary Stettler-Wainwright Red Deer Rocky Mountain-House Camrose-Vermillen River-Lloydminster Edmonton Cold Lake Woodlands Yellowhead Jasper-Banff Wood Buffalo Peace River Greenview Grande Prairie East Kootenay Contral Kootenay Kootenay Boundary Okanagan-Similkameen Fraser Valley Greater Vancouver Capital Cowichan Valley Nanaimo

5929	RD	Sunshine Coast	5957	REG	Stikine	
5931	RD	Squamish-Lillooet	5959	RD	Northern Roc	kie
5933	RD	Thompson-Nicola	•			
5935	RD	Central Okanagan	6001	TER	Yukon	
5937	RD	North Okanagan				
5939	RD	Columbia-Shuswap			Fort Smith	
5941	RD	Cariboo	6107	REG	Inuvik	
5943	RD	Mount Waddington				
5945		Central Coast			Baffin	
5947	RD	Skeena-Queen Charlotte			Keewatin	
5949	RD	Kitimat-Stikine	6208	REG	Kitikmeot	
5951	RD	Bulkley-Nechako				
5953		Fraser-Fort George				
5955		Peace River				

Census Division Type (CDtype) Genre de la division de recensement (CDgenre)

Type/Genre	•
CDR	Census Division / Division de recensement
CT	County / Comté
CTY	County
DIS .	District
DM	District Municipality
MB	Management Board
MRC	Municipalité régionale de comté
RD .	Regional District
REG	Region
RM	Regional Municipality
TÉ	Territoire équivalent
TER	Territory
UC	United Counties

APPENDIX K Economic regions

PRER ERNAME

1010 Avalon Peninsula

1020 South Coast - Burin Peninsula

1030 West Coast - Northern Peninsula - Labrador

1040 Notre Dame - Central Bonavista Bay

1110 Prince Edward Island

1210 Cape Breton

1220 North Shore

1230 Annapolis Valley

1240 Southern

1250 Halifax

1310 Campbellton - Miramichi

1320 Moncton - Richibucto

1330 Saint John - St. Stephen

1340 Fredericton - Oromocto

1350 Edmundston - Woodstock

2410 Gaspésie - Îles-de-la-Madeleine

2415 Bas-Saint-Laurent

2420 Capitale-Nationale

2425 Chaudière - Appalaches

2430 Estrie

2433 Centre-du-Québec

2435 Monterégie

2440 Montréal

2445 Laval

2450 Lanaudière 2455 Laurentides

2460 Outaouais

2465 Abitibi - Témiscamingue

2470 Mauricie

2475 Saguenay - Lac-Saint-Jean

2480 Côte-Nord

2490 Nord-du-Québec

3510 Ottawa

3515 Kingston - Pembroke

3520 Muskoka - Kawarthas

3530 Toronto

3540 Kitchener - Waterloo - Barrie

3550 Hamilton - Niagara Peninsula

3560 London

PRER ERNAME

3570 Windsor - Sarnia

3580 Stratford - Bruce Peninsula

3590 Northeast

3595 Northwest

4610 Southeast

4620 South Central

4630 Southwest

4640 North Central

4650 Winnipeg

4660 Interlake

4670 Parklands

4680 North

4710 Regina - Moose Mountain

4720 Swift Current - Moose Jaw

4730 Saskatoon - Biggar

4740 Yorkton - Melville

4750 Prince Albert

4760 Northern

4810 Lethbridge - Medicine Hat

4820 Camrose - Drumheller

4830 Calgary

4840 Banff - Jasper - Rocky Mountain House

4850 Red Deer

4860 Edmonton

4870 Athabasca - Grande Prairie - Peace River

4880 Wood Buffalo - Cold Lake

5910 Vancouver Island and Coast

5920 Lower Mainland - Southwest

5930 Thompson - Okanagan

5940 Kootenay

5950 Cariboo

5960 North Coast

5970 Nechako

5980 Northeast

6010 Yukon

6110 Northwest Territories

6210 Nunavut

APPENDIX L Census agricultural regions, 2006

including unofficial descriptive names for otherwise unnamed regions

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PR AR ARNAME
10 01 Southeastern
10 02 Central
10 03 Western and Labrador
11 01 Eastern
11 02 Central
11 03 Western
12 01 Southwestern
12 02 Annapolis Valley
12 03 Central
12 04 Eastern
12 05 Cape Breton
13 01 Northwestern - Nord-Ouest
13 02 Southwestern - Sud-Ouest
13 03 Southeastern - Sud-Est
13 04 Northeastern - Nord-Est
24 01 Bas-Saint-Laurent
24 02 Saguenay--Lac-Saint-Jean--Côte-Nord
24 03 Québec
24 04 Mauricie
24 05 Estrie
24 06 Montréal--Laval
24 07 Lanaudière
24 08 Outaouais
24 09 Laurentides
24 10 Abitibi-Temiscamingue--Nord-du-Québec
24 11 Gaspésie--Îles-de-la-Madeleine
24 12 Chaudière-Appalaches
24 13 Montérégie
24 14 Centre-du-Québec
35 01 Southern Ontario - Sud de l'Ontario
35 02 Western Ontario - Ouest de l'Ontario
35 03 Central Ontario - Centre de l'Ontario
35 04 Eastern Ontario - Est de l'Ontario
35 05 Northern Ontario - Nord de l'Ontario
46 01 Southwestern
46 02 Brandon-Wallace
46 03 Neepawa-Minnedosa-Shoal Lake
46 04 Lake of the Prairies
46 05 Swan River
46 06 Dauphin
46 07 Centre-West
46 08 Centre-South
46 09 Centre-East
46 10 Southeastern
46 11 Centre-North
46 12 Northern
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PR AR ARNAME
47 1A Estevan
47 1B Elcapo-Moosomin
47 2A Weyburn
47 2B Regina-Moose Jaw
47 3P Gravelbourg-Enfield (3AN)
47 3Q Lake of the Rivers-Laurier-Hart Butte (3AS)
47 3R Swift Current (3BN)
47 3S Grassy Creek (3BS)
  4A Maple Creek-White Valley
47 4B Gull Lake-Happyland
  5A Yorkton
47 58 Cote-Good Lake-Preeceville
47 6A Lumsden
47 6B Saskatoon
  7A Kindersley-St Andrews
47 7B Biggar-Round Valley
47 8A Star City-Nipawin-Hudson Bay
47 8B Humbolt
47 9A Prince Albert-North Battleford
47 9B Britannia-Meadow Lake-Battle River
47 00 Northern Saskatchewan
48 01 Medicine Hat-Hanna
  02 Lethbridge-Drumheller
48 03 Calgary-Foothills
48 4A Stettler-Wainwritht
48 4B Camrose-Vermillion River-Lloydminster
48 05 Edmonton-Red Deer-Rocky Mountain House
48 06 Yellowhead-Woodlands-Cold Lake-Wood Buffalo
48 07 Peace River-Grande Prairie
59 01 Vancouver Island-Coast
59 02 Lower Mainland-Southwest
59 03 Thompson-Okanagan
59 04 Kootenay
59 05 Cariboo
59 06 North Coast
59 07 Nechako
59 08 Peace River
60 00 Yukon
61 00 Northwest Territories
62 00 Nunavut
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APPENDIX M Canada Post Air Stage Offices

What Is An Air Stage Office?

According to Canada Post, "An Air Stage Office is a Post Office to or from which all mail must be airlifted for more than six (6) months of every year as a viable surface transportation alternative is not available. These offices are generally confined to remote or isolated communities. An office designated an Air Stage Office is deemed to be Air Stage for the whole year." http://www.canadapost.ca/tools/pg/manual/PGairstage-e.asp (Last updated: 2007-09-17)

APPENDICE M Les Bureaux du Service aérien omnibus des Postes Canada

De quoi s'agissent les Bureaux du Service aérien omnibus?

D'après Postes Canada, « Il s'agit d'un bureau de poste à partir ou à destination duquel tout le courrier doit être transporté par avion parce qu'il n'y a pas de moyen de transport par voie de terre viable durant au moins six mois par année. Ce type de bureau est généralement situé dans les régions éloignées ou isolées. Tout bureau de poste désigné bureau du Service aérien omnibus le demeure pendant toute l'année. »

http://www.postescanada.ca/tools/pg/manual/PGairstage-f.asp (Mise à jour : 2007-09-17)

Table 1: List of Air Stage Offices

Tableau 1 : Liste des bureaux du Service aérien omnibus

CPCOMM	PR	FSA LDU			
AHOUSAT	BC	VOR 1A0	GOD'S RIVER	MB	ROB ONO
AKLAVIK	NT	XOE OAO	GRANVILLE LAKE	MB	ROB OPO
AKULIVIK	QC	JOM 1VO	GRISE FIORD	NU	XOA OJO
ANGLING LAKE	ON	POV 1BO	HALL BEACH	NU	XOA OKO
ARCTIC BAY	NU	XOA OAO	HARRINGTON HARBOUR	OC	GOG 1NO
ATTAWAPISKAT	ON	POL 1A0	HARTLEY BAY	BC	VOV 1A0
ARVIAT	NU	XOC OEO	HOLMAN	NU	XOE OSO
AUPALUK	QC	JOM 1X0	HOPEDALE	NL	AOP 1GO
BAKER LAKE	NU	XOC OAO	IGLOOLIK	NU	XOA OLO
BAY CHIMO	NU	X0B 2A0	INUKJUAK	QC	JOM 1MO
BEARSKIN LAKE	ON	POV 1E0	IQALUIT	NU	OHO AOX
BERENS RIVER	·MB	ROB OAO	IOALUIT	nu	XOA 1HO
BIG TROUT LAKE	ON	POV 1G0	ISLAND LAKE	MB	ROB OTO
BLACK LAKE	SK	S0J 0H0	IVUJIVIK	OC.	JOM 1H0
BLACK TICKLE	NL	AOK 1NO	KANGIQSUALUJJUAQ_	<u>o</u> c	JOM 1N0
BLIND CHANNEL	BC	VOP 1B0	KANGIQSUJUAQ	OC.	JOM 1K0
BLOODVEIN	MB	ROC 0J0	KANGIRSUK	· QC	JOM 1A0
BRADORE BAY	QC -	GOG 1EO	KASABONIKA	ON	POV 1Y0
BROCHET	MB	ROB OBO	KASHECHEWAN	ON	POL 1S0
CAMBRIDGE BAY	NU	X0B 0C0	KEEWAYWIN	- ON.	POV 3G0
CAPE DORSET	NU	X0A 0C0	KÉGASKA	QC	G0G 1S0
CAT LAKE	ON	POV 1J0	KIMMIRUT	NU	XOA ONO
CHESTERFIELD INLET	NU	XOC OBO	KINGCOME INLET	BC	VON 2B0
CHEVERY	QC	G0G 1G0	KINGFISHER LAKE	ON	POV 120
CLYDE RIVER	NU	XOA OEO	KITKATLA	BC	VOV 1C0
COLVILLE LAKE	NT	XOE 1LO	KLEMTU	BC	VOT 1LO
CORAL HARBOUR	NU	XOC OCO	KUGAARUK	NU	X0B 1K0
DAWSON'S LANDING	BC	VON 1MO	KUGLUKTUK	NU	XOB OEO
DEER LAKE	ON .	POV 1NO	KUUJJUAQ	QC	JOM 1C0
DÉLINE	NT	XOE OGO	KUUJJUARAPIK 😁	QC	JOM 1G0
EABAMET LAKE	ON	POT 1LO	KYUOUOT	, BC	V0P 1J0
EUREKA	NU	X0A 0G0	LA TABATIÈRE	QC	G0G 1T0
FOND-DU-LAC	SK	SOJ OWO	LAC BROCHET	MB	ROB 2E0
FORT ALBANY	ON	POL 1H0	LAC SEUL	ON	POV 2A0
FORT CHIPEWYAN	AB	TOP 1B0	LANSDOWNE HOUSE	ON	POT 1Z0
FORT GOOD HOPE	NT	XOE OHO	LAX KW'ALAAMS	BC	VOV 1H0
FORT SEVERN	ON	POV 1WO	LITTLE GRAND RAPIDS	MB	ROB OVO
FOX LAKE	AB	TOH 1RO	LUTSELK'E	NT	X0E 1A0
GARDEN HILL	MB	ROB OTO	MAKKOVIK ~~	" NL	A0P 1J0
GARDEN RIVER	AB	T0H 4G0	MINSTREL ISLAND	BC	VOP 1LO-
GETHSÉMANI	QC	G0G 1M0	MUSKRAT DAM	· ON	POV 3B0
GJOA HAVEN	NU	X0B 1J0	MUTTON BAY	QC	G0G 2C0
GOD'S LAKE NARROWS	MB	ROB OMO	NAIN	NL	AOP 1LO

NANISIVIK	NU	XOA OXO
NATUASHIS .	NL	AOP 1AO
NEGGINAN	MB	ROB OZO
NORMAN WELLS	NT	XOE OVO
NORTH SPIRIT LAKE	ON	POV 2G0
OCEAN FALLS	BC	VOT 1P0
OGOKI	ON	POT 2L0
OLD CROW	ΥT	YOB 1NO
OONA RIVER	BC	A0A .1E0
OMEEKENO	BC	VON 3S0
OXFORD HOUSE	MB	ROB 1CO
PANGN I RTUNG	NU	XOA ORO
PAUINGASSI	MB	ROB 2GO
PAULATUK	NT	X0E 1N0
PBAWANUCK	ON	POL 2HO
PIKANGIKUM	ON	POV 2L0
POND INLET	NU	XOA OSO
POPLAR HILL	ON	POV 3E0
POPLAR RIVER	MB	ROB OZO
PORT-MENIER	QC	GOG 2YO
POSTVILLE	NL	AOP 1NO
PORT NEVILLE	BC	VOP 1M0
PUKATAWAGAN	MB	ROB 1G0
PUVIRNITUQ .	QC	JOM 1P0
QIKIQTARJUAQ	NU	X0A 0B0
QATQAUQ	QC	JOM 1J0
RAE LAKES	NT	XOE 1RO
RANKIN INLET	NU	XOC OGO
RED SUCKER LAKE	MB	ROB 1HO
REFUGE COVE	BC	VOP 1P0
REPULSE BAY	NU	XOC OHO
RESOLUTE	NU	XOA OVO
RIGOLET ·	NL	A0P 1P0
SACHIGO LAKE	ON	POV 2P0
SACHS HARBOUR	NU	XOE OZO
SALLUIT	QC	JOM 150

ON	POV	1V0
NU	A0X	0W0
MB	ROB	1K0
BC	VOP	150
MB	ROB	1N0
QC	GOG	2R0
MB	ROB	1 J 0
MB	ROB	2H0
SK	SOJ	2R0
BÇ	VOP	1V0
BÇ	VON	3H0
ON	POT	3B0
BC	VOP	1W0
MB	ROB	2C0
NU	XOB	1B0
QC	JOM	1T0
QC	GOG	2W0
NT	XOE	1Z0
NT	XOE	1C0
NT	XOE	0K0
QC	JOM	1Y0
SK	SOJ	2W0
MB	ROB	120
BC	VOJ	3B0.
ON.	POV	2Y0
ON	POT	3A0
NT,	XOE	1W0
NT	XOE	1P0
NU	XOC	0J0
NL	AOK	5V0
SK		
ON		
MB	ROB	2B0
	NU MB BC MB BC MB SK BC BC BC DC MB MB SK BC BC DC MB MB NU CC CC MB MB NU CC CC MB MB MC CC MB MC MC MC MC MB MC MC MB MC MC MB MC MB MC MB MC MC MB	NU XOA MB ROB BC VOP MB ROB QC GOG MB ROB SK SOJ BC VOP BC VOP MB ROB NU XOB QC JOM QC GOG NT XOE NT XOE NT XOE QC JOM SK SOJ MB ROB BC VOD MB ROB NU XOB ON POT NT XOE NT XOE ON POT NT XOE

APPENDIX N

SUPPLEMENTARY PROGRAM DIST5X.SAS

DIST5x. SAS is a supplementary program for calculating distances from each record on one file to the closest of many records on a second file.

Use of this program requires that you have already generated two output files through previous use of *PCCF*+ Version 5x. It first reads in both files. Then, for each record in the first file, it calculates the distance to each record in the second file. It retains only the minimum distance, plus the ID of the record in the second file for which the minimum distance was found.

By default, the program assumes that you have previously defined two categories of records in the second file (for example, specialist and non-specialist physicians, or general hospitals and children's hospitals). You can modify the program to work with additional or fewer categories, defined and coded however you want.

Basic familiarity with SAS programming is required for use of this supplementary program.

APPENDIX O SUPPLEMENTARY PROGRAM EXPLODE2.SAS

EXPLODE2. SAS is a supplementary program to read in a data file containing counts for postal codes, and transform it into a file containing individual records, including a unique ID, for each occurrence of those postal codes. This is necessary for the data to be coded using *PCCF+*.

Basic familiarity with SAS programming is required for use of this supplementary program. A sample data file for testing this program is provided (GROUPED.TXT).

APPENDIX P SUPPLEMENTARY PROGRAM FIXPCBAD.SAS

Appendix O is a supplementary program for fixing common errors in Canadian postal codes. It is intended for preprocessing of files prior to coding using PCCF+. A sample data file for testing this program is provided (PCBAD.TXT).